



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 @ 09:48:00

End Date: 2014.02.08 @ 16:24:00

Job Ticket #: 19254 DST #: 3

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

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22-20s-14w-Barton

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Job Ticket: 19254

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 09:48:00

GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:30

Time Test Ended: 16:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

Interval: 3392.00 ft (KB) To 3412.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3412.00 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: 112.48 psig @ 3407.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.08

End Date: 2014.02.08

Last Calib.: 2014.02.09

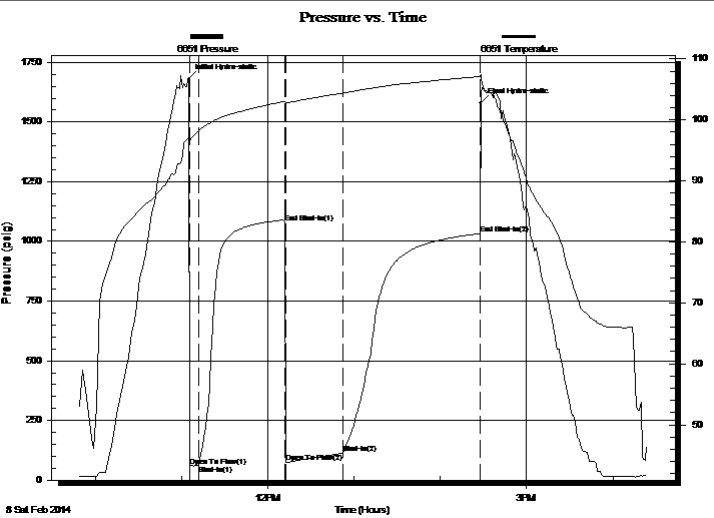
Start Time: 09:48:00

End Time: 16:24:00

Time On Btm: 2014.02.08 @ 11:05:00

Time Off Btm: 2014.02.08 @ 14:28:00

TEST COMMENT: 1st Open 5 minutes Strong blow blew off the bottom of a 5 gallon bucket of water in 2 minutes.
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Strong building blow blew off bottom bucket in 45 seconds.
2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.05	96.99	Initial Hydro-static
1	59.19	96.47	Open To Flow (1)
7	63.62	98.11	Shut-In(1)
67	1080.00	103.01	End Shut-In(1)
68	73.49	102.78	Open To Flow (2)
107	112.48	104.38	Shut-In(2)
203	1032.40	107.11	End Shut-In(2)
203	1580.07	107.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Clean gassy oil 100%	1.19
163.00	Gassy oil cut mud	2.29
0.00	Oil 90% Mud 10%	0.00
0.00	Gravity of oil 41 corrected	0.00
0.00	244 gas in pipe.	0.00

Gas Rates

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



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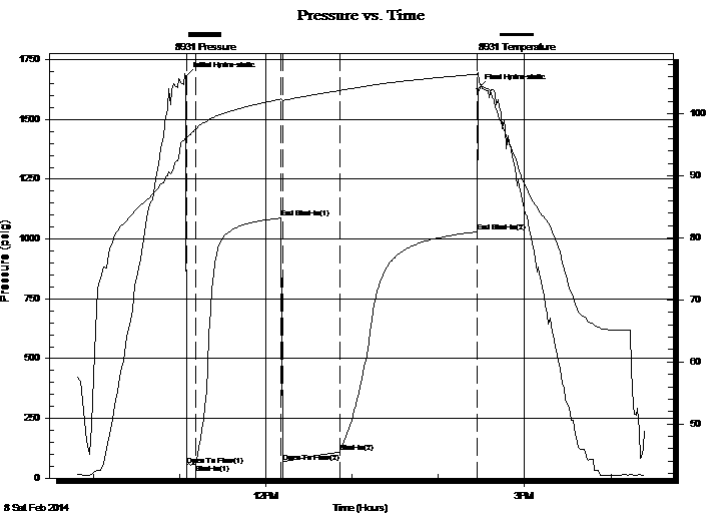
22-20s-14w-Barton
Sonja Phillips 1-22
 Job Ticket: 19254 **DST#: 3**
 Test Start: 2014.02.08 @ 09:48:00

GENERAL INFORMATION:

Formation: **Lansing H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:05:30
 Time Test Ended: 16:24:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-20
 Interval: **3392.00 ft (KB) To 3412.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3412.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8931 Inside
 Press@RunDepth: 1030.06 psig @ 3407.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.08 End Date: 2014.02.08 Last Calib.: 2014.02.09
 Start Time: 09:48:00 End Time: 16:23:30 Time On Btm: 2014.02.08 @ 11:04:30
 Time Off Btm: 2014.02.08 @ 14:27:30

TEST COMMENT: 1st Open 5 minutes Strong blow blew off the bottom of a 5 gallon bucket of water in 2 minutes.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Strong building blow blew off bottom bucket in 45 seconds.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.05	96.28	Initial Hydro-static
1	53.49	95.97	Open To Flow (1)
7	59.47	97.52	Shut-In(1)
66	1087.12	102.36	End Shut-In(1)
68	67.72	102.17	Open To Flow (2)
107	109.23	103.75	Shut-In(2)
203	1030.06	106.39	End Shut-In(2)
203	1627.82	106.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Clean gassy oil 100%	1.19
163.00	Gassy oil cut mud	2.29
0.00	Oil 90% Mud 10%	0.00
0.00	Gravity of oil 41 corrected	0.00
0.00	244 gas in pipe.	0.00

Gas Rates

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



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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: 19254

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 09:48:00

Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 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: 56000.00 lb
			<u>Total Volume: 47.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3392.00 ft			Final 46000.00 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
Shut In Tool	5.00			3369.00	
Hydraulic tool	5.00			3374.00	
Jars	6.00			3380.00	
Safety Joint	2.00			3382.00	
Top Packer	5.00			3387.00	
Packer	5.00			3392.00	28.00 Bottom Of Top Packer
Perforations	15.00			3407.00	
Recorder	0.00	8931	Inside	3407.00	
Recorder	0.00	6651	Outside	3407.00	
Bull Plug	5.00			3412.00	20.00 Anchor Tool
Total Tool Length:	48.00				



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FLUID SUMMARY

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Test Start: 2014.02.08 @ 09:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 5200.00 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
85.00	Clean gassy oil 100%	1.192
163.00	Gassy oil cut mud	2.286
0.00	Oil 90% Mud 10%	0.000
0.00	Gravity of oil 41 corrected	0.000
0.00	244 gas in pipe.	0.000

Total Length: 248.00 ft Total Volume: 3.478 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

