



DRILL STEM TEST REPORT

Prepared For: **F G Holl Company**

9431 East Central Ste 100
Wichita Kansas 67206

ATTN: Rene Husted

Rudiger 1-7

7-20s-14w-Barton

Start Date: 2014.03.06 @ 08:19:00

End Date: 2014.03.06 @ 14:40:00

Job Ticket #: 19269 DST #: 4

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

Printed: 2014.03.07 @ 03:58:58

F G Holl Company
7-20s-14w-Barton
Rudiger 1-7
DST # 4
Lansing I
2014.03.06



DRILL STEM TEST REPORT

F G Holl Company
 9431 East Central Ste 100
 Wichita Kansas 67206
 ATTN: Rene Husted

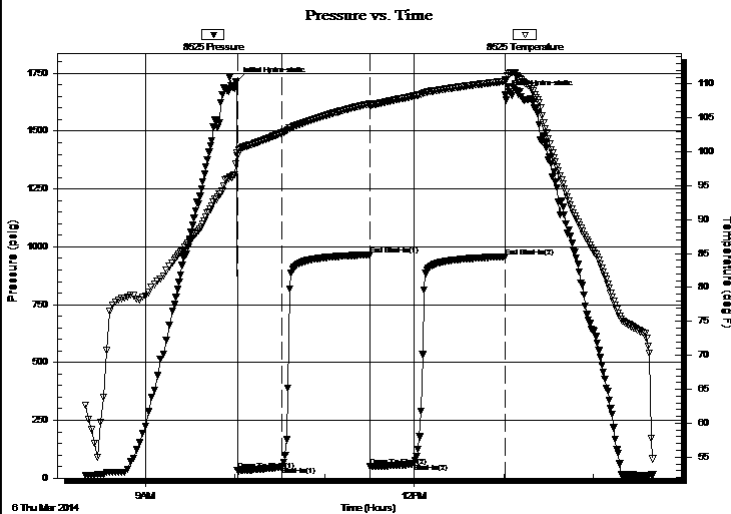
7-20s-14w-Barton
Rudiger 1-7
 Job Ticket: 19269 **DST#: 4**
 Test Start: 2014.03.06 @ 08:19:00

GENERAL INFORMATION:

Formation: **Lansing I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:01:30
 Time Test Ended: 14:40:00
 Interval: **3438.00 ft (KB) To 3449.00 ft (KB) (TVD)**
 Total Depth: 3449.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1919.00 ft (KB)
 1911.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8525 Outside
 Press@RunDepth: 62.86 psig @ 3444.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.03.06 End Date: 2014.03.06 Last Calib.: 2014.03.07
 Start Time: 08:19:00 End Time: 14:40:00 Time On Btm: 2014.03.06 @ 10:01:00
 Time Off Btm: 2014.03.06 @ 13:01:00

TEST COMMENT: 1st Open 30 minutes Weak building blow built to 2.5 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Weak building blow built to 2.5 inches into a 5 gallon bucket of water.
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.38	99.87	Initial Hydro-static
1	32.51	99.38	Open To Flow (1)
31	51.18	102.83	Shut-In(1)
89	965.65	107.09	End Shut-In(1)
90	50.66	106.74	Open To Flow (2)
119	62.86	108.20	Shut-In(2)
180	957.44	110.40	End Shut-In(2)
180	1656.58	110.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
52.00	Muddy water Mud 10% Water 90%	0.73

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3432.00 ft	Diameter: 3.80 inches	Volume: 48.14 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: 49000.00 lb
			<u>Total Volume: 48.14 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3438.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			3415.00	
Hydraulic tool	5.00			3420.00	
Jars	6.00			3426.00	
Safety Joint	2.00			3428.00	
Top Packer	5.00			3433.00	
Packer	5.00			3438.00	28.00 Bottom Of Top Packer
Perforations	6.00			3444.00	
Recorder	0.00	6651	Inside	3444.00	
Recorder	0.00	8525	Outside	3444.00	
Bull Plug	5.00			3449.00	11.00 Anchor Tool
Total Tool Length:	39.00				



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FLUID SUMMARY

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DST#: 4

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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: 61.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
52.00	Muddy water Mud 10% Water 90%	0.729

Total Length: 52.00 ft Total Volume: 0.729 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

