



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: 2014.02.07 @ 03:19:00

End Date: 2014.02.07 @ 08:39:30

Job Ticket #: 19252 DST #: 1

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

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Job Ticket: 19252

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.02.07 @ 03:19:00

GENERAL INFORMATION:

Formation: **Lansing A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:59:30

Time Test Ended: 08:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

Interval: 3275.00 ft (KB) To 3335.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6651

Press@RunDepth: 77.94 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.07 End Date: 2014.02.07

Last Calib.: 2014.02.07

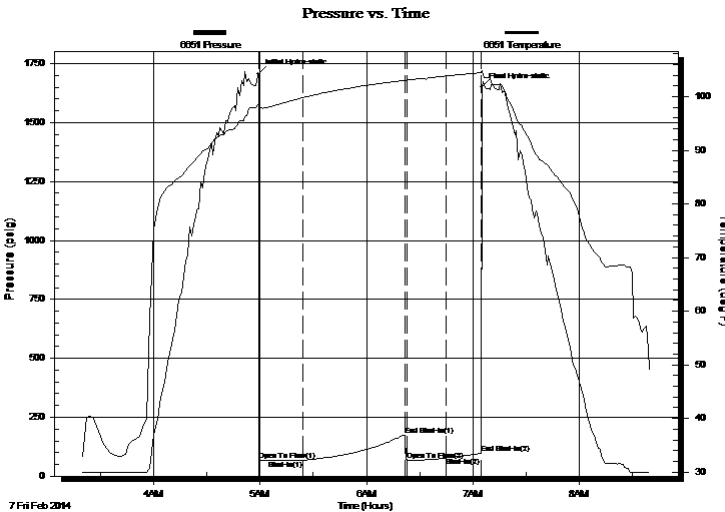
Start Time: 03:19:00 End Time: 08:39:30

Time On Btm: 2014.02.07 @ 04:59:00

Time Off Btm: 2014.02.07 @ 07:05:00

TEST COMMENT: 1st Open 30 minutes Weak surface blow built to 1 inch.
1st Shut in 60 minutes No blow back
2nd Open 15 minutes Dead flushed tool no help.
2nd Shut in 30 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.61	98.36	Initial Hydro-static
1	65.52	97.70	Open To Flow (1)
25	65.56	99.80	Shut-In(1)
83	175.53	103.05	End Shut-In(1)
84	69.14	103.06	Open To Flow (2)
106	77.94	103.86	Shut-In(2)
126	96.48	104.46	End Shut-In(2)
126	1650.72	104.89	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
15.00	Very lightly oil spotted mud 100%	0.21

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



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 Job Ticket: 19252 **DST#: 1**
 Test Start: 2014.02.07 @ 03:19:00

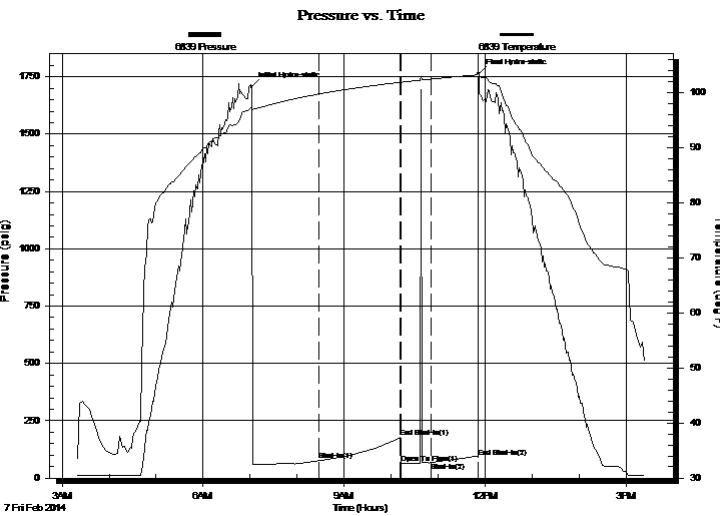
GENERAL INFORMATION:

Formation: **Lansing A-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:59:30
 Time Test Ended: 08:39:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-20
 Interval: **3275.00 ft (KB) To 3335.00 ft (KB) (TVD)**
 Reference Elevations: 1895.00 ft (KB)
 Total Depth: 3335.00 ft (KB) (TVD) 1887.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6839

Press@RunDepth: 91.99 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.02.07 End Date: 2014.02.07 Last Calib.: 2014.02.07
 Start Time: 03:19:00 End Time: 15:25:00 Time On Btm: 2014.02.07 @ 07:02:00
 Time Off Btm: 2014.02.07 @ 11:51:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow built to 1 inch.
 1st Shut in 60 minutes No blow back
 2nd Open 15 minutes Dead flushed tool no help.
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.76	97.40	Initial Hydro-static
86	75.86	99.82	Shut-In(1)
190	176.40	101.95	End Shut-In(1)
190	65.21	101.92	Open To Flow (1)
228	67.94	102.50	Shut-In(2)
288	91.99	103.30	End Shut-In(2)
290	1765.49	103.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very lightly oil spotted mud 100%	0.21

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
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Sonja Phillips 1-22

Job Ticket: 19252

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.02.07 @ 03:19:00

Tool Information

Drill Pipe:	Length: 3267.00 ft	Diameter: 3.80 inches	Volume: 45.83 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: 45.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3275.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.81 ft			
Tool Length:	88.81 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			3252.00	
Hydraulic tool	5.00			3257.00	
Jars	6.00			3263.00	
Safety Joint	2.00			3265.00	
Top Packer	5.00			3270.00	
Packer	5.00			3275.00	28.00 Bottom Of Top Packer
Anchor	7.00			3282.00	
Change Over Sub	0.75			3282.75	
Drill Pipe	31.31			3314.06	
Change Over Sub	0.75			3314.81	
Anchor	16.00			3330.81	
Recorder	0.00	6839	Inside	3330.81	
Recorder	0.00	6651	Outside	3330.81	
Bull Plug	5.00			3335.81	60.81 Anchor Tool

Total Tool Length: 88.81



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FLUID SUMMARY

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Test Start: 2014.02.07 @ 03:19:00

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: 6500.00 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
15.00	Very lightly oil spotted mud 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

