



DRILL STEM TEST REPORT

Prepared For: **F G Holl Company L.L.C**

9431 E Central Ste 100 Witchita KS
67206+2563

ATTN: Rene Husted

Romine Trust #3-1

1-20s-15w Barton

Start Date: 2014.03.19 @ 21:30:00

End Date: 2014.03.20 @ 04:17:00

Job Ticket #: 10149 DST #: 4

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

Printed: 2014.03.20 @ 05:46:31

F G Holl Company L.L.C

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DST # 4

Lansing I zones

2014.03.19



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Job Ticket: 10149

DST#: 4

Test Start: 2014.03.19 @ 21:30:00

GENERAL INFORMATION:

Formation: **Lansing I zones**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:54:30

Time Test Ended: 04:17:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-25

Interval: **3446.00 ft (KB) To 3467.00 ft (KB) (TVD)**

Reference Elevations: 1964.00 ft (KB)

Total Depth: 3467.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8400

Press@RunDepth: 326.08 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.19

End Date: 2014.03.20

Last Calib.: 2014.03.20

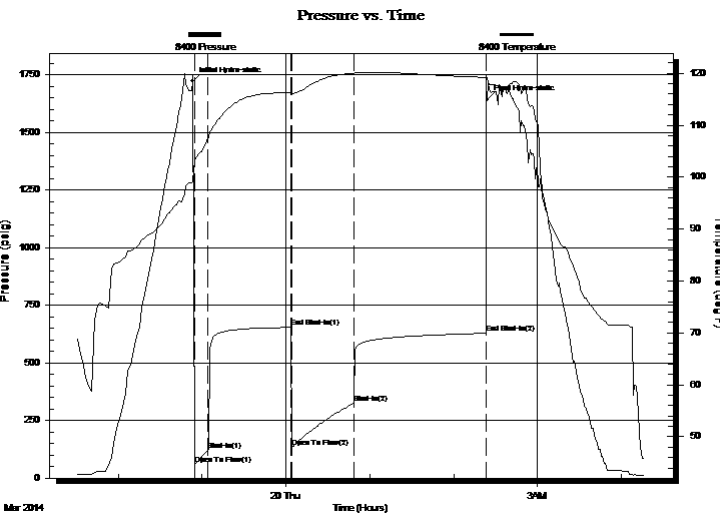
Start Time: 21:30:00

End Time: 04:17:00

Time On Btm: 2014.03.19 @ 22:53:00

Time Off Btm: 2014.03.20 @ 02:24:00

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built bottom of bucket in 6 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 7 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.20	99.07	Initial Hydro-static
2	59.59	103.19	Open To Flow (1)
11	120.85	107.31	Shut-In(1)
71	654.21	116.19	End Shut-In(1)
72	134.42	115.98	Open To Flow (2)
116	326.08	119.97	Shut-In(2)
210	628.62	119.22	End Shut-In(2)
211	1642.52	119.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	water	8.42
0.00	chlorides 48,000 resistivity .15@55deg	0.00

Gas Rates

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



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Reference Elevations: 1964.00 ft (KB)

Total Depth: 3467.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6999

Press@RunDepth: 629.05 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.19

End Date: 2014.03.20

Last Calib.: 2014.03.20

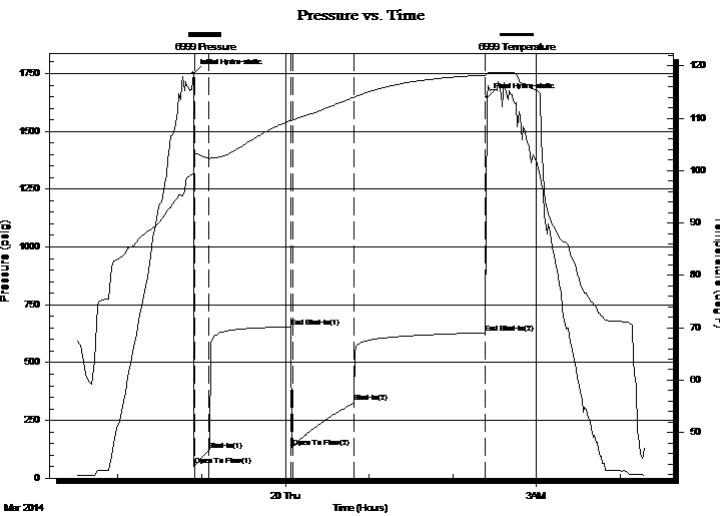
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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.72	99.62	Initial Hydro-static
1	56.19	102.91	Open To Flow (1)
11	121.09	102.37	Shut-In(1)
70	654.06	109.67	End Shut-In(1)
71	132.15	109.67	Open To Flow (2)
115	329.31	114.00	Shut-In(2)
210	629.05	118.24	End Shut-In(2)
211	1647.04	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	water	8.42
0.00	chlorides 48,000 resistivity .15@55deg	0.00

Gas Rates

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



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TOOL DIAGRAM

F G Holl Company L.L.C

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DST#: 4

ATTN: Rene Husted

Test Start: 2014.03.19 @ 21:30:00

Tool Information

Drill Pipe:	Length: 3442.00 ft	Diameter: 3.80 inches	Volume: 48.28 bbl	Tool Weight: 1000.00 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: 60000.00 lb
			<u>Total Volume: 48.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3446.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			3423.00	
Hydraulic tool	5.00			3428.00	
Jars	6.00			3434.00	
Safety Joint	2.00			3436.00	
Packer	5.00			3441.00	28.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Recorder	1.00			3447.00	
Recorder	1.00			3448.00	
Anchor	16.00			3464.00	
Bullnose	3.00			3467.00	21.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



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FLUID SUMMARY

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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: 45.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	water	8.416
0.00	chlorides 48,000 resistivity .15@55degre	0.000

Total Length: 600.00 ft Total Volume: 8.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

