



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: 2014.03.15 @ 03:40:11

End Date: 2014.03.15 @ 09:26:11

Job Ticket #: 19146 DST #: 1

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

Printed: 2014.03.15 @ 11:13:46



DRILL STEM TEST REPORT

F G Holl Company L.L.C

1-20s-15w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Romine Trust #3-1

ATTN: Rene Husted

Job Ticket: 19146

DST#: 1

Test Start: 2014.03.15 @ 03:40:11

GENERAL INFORMATION:

Formation: **Herington**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:11

Time Test Ended: 09:26:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-

Interval: 1782.00 ft (KB) To 1860.00 ft (KB) (TVD)

Reference Elevations: 1964.00 ft (KB)

Total Depth: 1860.00 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: 118.94 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.15

End Date: 2014.03.15

Last Calib.: 2014.03.15

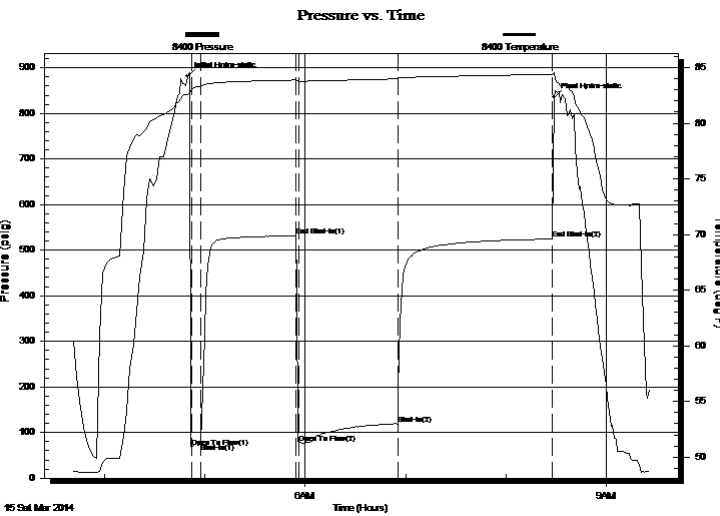
Start Time: 03:40:11

End Time: 09:26:11

Time On Btm: 2014.03.15 @ 04:49:41

Time Off Btm: 2014.03.15 @ 08:28:41

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 60 Minutes-Very weak blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 1 minute gas to surface see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	881.36	82.56	Initial Hydro-static
3	67.94	83.05	Open To Flow (1)
8	76.95	83.36	Shut-In(1)
65	530.83	83.89	End Shut-In(1)
67	77.19	83.79	Open To Flow (2)
126	118.94	84.00	Shut-In(2)
218	524.66	84.40	End Shut-In(2)
219	835.24	84.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	mud	0.98
0.00	1693 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	12.50	42.67
Last Gas Rate	0.25	30.90	71.86
Max. Gas Rate	0.25	30.90	71.86



DRILL STEM TEST REPORT

F G Holl Company L.L.C

1-20s-15w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Romine Trust #3-1

ATTN: Rene Husted

Job Ticket: 19146

DST#: 1

Test Start: 2014.03.15 @ 03:40:11

GENERAL INFORMATION:

Formation: **Herington**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:11

Time Test Ended: 09:26:11

Interval: 1782.00 ft (KB) To 1860.00 ft (KB) (TVD)

Total Depth: 1860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-

Reference Elevations: 1964.00 ft (KB)

1954.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6731

Press@RunDepth: 522.21 psig @ ft (KB)

Start Date: 2014.03.14

End Date: 2014.03.15

Start Time: 10:17:25

End Time: 09:26:27

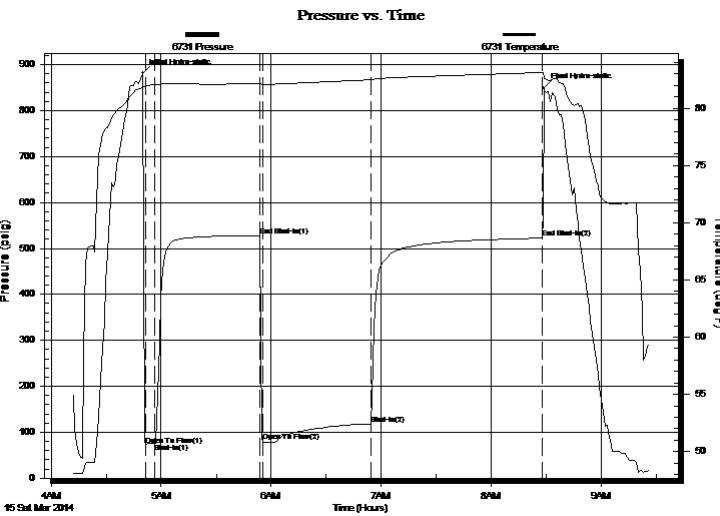
Capacity: 5000.00 psig

Last Calib.: 2014.03.15

Time On Btm: 2014.03.15 @ 04:49:57

Time Off Btm: 2014.03.15 @ 08:28:27

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 1 minute
 1st Shut-in 60 Minutes-Very weak blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 1 minute gas to surface see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	881.61	81.88	Initial Hydro-static
2	72.67	81.93	Open To Flow (1)
7	75.53	82.05	Shut-In(1)
64	528.23	82.19	End Shut-In(1)
66	79.45	82.10	Open To Flow (2)
125	117.22	82.50	Shut-In(2)
218	522.21	83.12	End Shut-In(2)
219	849.84	82.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	mud	0.98
0.00	1693 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	12.50	42.67
Last Gas Rate	0.25	30.90	71.86
Max. Gas Rate	0.25	30.90	71.86



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

1-20s-15w Barton

9431 E Central Ste 100 Witchita KS 67206+2563

Romine Trust #3-1

Job Ticket: 19146

DST#: 1

ATTN: Rene Husted

Test Start: 2014.03.15 @ 03:40:11

Tool Information

Drill Pipe:	Length: 1763.00 ft	Diameter: 3.80 inches	Volume: 24.73 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 24.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 28.00 lb
Depth to Top Packer:	1782.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 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			1759.00	
Hydraulic tool	5.00			1764.00	
Jars	6.00			1770.00	
Safety Joint	2.00			1772.00	
Packer	5.00			1777.00	28.00 Bottom Of Top Packer
Packer	5.00			1782.00	
Change Over Sub	0.50			1782.50	
Drill Pipe	63.00			1845.50	
Change Over Sub	0.50			1846.00	
Recorder	1.00			1847.00	
recorder	1.00			1848.00	
Anchor	9.00			1857.00	
Bullnose	3.00			1860.00	78.00 Bottom Packers & Anchor

Total Tool Length: 106.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

1-20s-15w Barton

9431 E Central Ste 100 Witchita KS 67206+2563

Romine Trust #3-1

Job Ticket: 19146

DST#: 1

ATTN: Rene Husted

Test Start: 2014.03.15 @ 03:40:11

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: 26.00 sec/qt

Cushion Volume: bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 23000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	mud	0.982
0.00	1693 gas in pipe	0.000

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F G Holl Company L.L.C

1-20s-15w Barton

9431 E Central Ste 100 Witchita KS 67206+2563

Romine Trust #3-1

Job Ticket: 19146

DST#: 1

ATTN: Rene Husted

Test Start: 2014.03.15 @ 03:40:11

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	12.50	42.67
2	20	0.25	22.00	57.74
2	30	0.25	25.50	63.30
2	40	0.25	29.50	69.64
2	50	0.25	30.90	71.86

