



DRILL STEM TEST REPORT

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

9431 E Central St # 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Zimmer #1-20

20-19s-14w Barton

Start Date: 2014.07.11 @ 22:10:00

End Date: 2014.07.12 @ 05:08:30

Job Ticket #: 19307 DST #: 6

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

Printed: 2014.07.12 @ 05:59:09

F.G Holl Company L.L.C
20-19s-14w Barton
Zimmer #1-20
DST # 6
Reggan SS
2014.07.11



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

20-19s-14w Barton

9431 E Central St # 100 Wichita KS 67206

Zimmer #1-20

Job Ticket: 19307

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.07.11 @ 22:10:00

GENERAL INFORMATION:

Formation: **Reggan SS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:50:30

Time Test Ended: 05:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320 -Great Bend-25

Interval: 3442.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations: 1901.00 ft (KB)

Total Depth: 3540.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8525

Press@RunDepth: 118.04 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.12

Last Calib.:

2014.07.12

Start Time: 22:10:00

End Time:

05:08:30

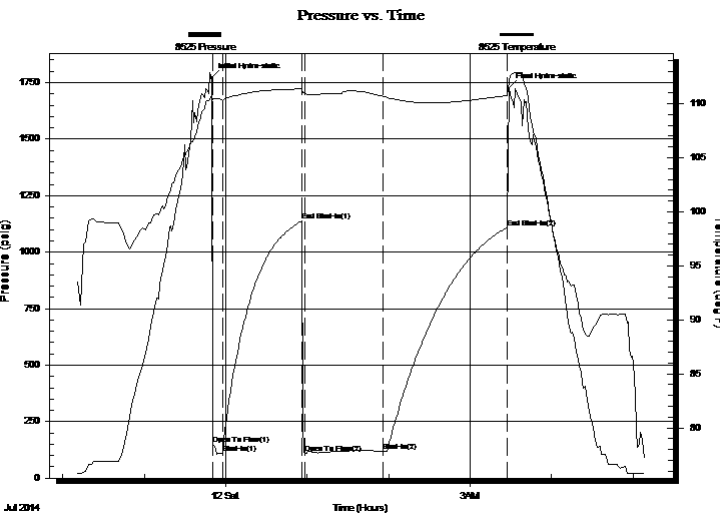
Time On Btm:

2014.07.11 @ 23:49:30

Time Off Btm:

2014.07.12 @ 03:28:30

TEST COMMENT: 1st Opening 5 Minutes- Strong blow built bottom of bucket in less than 1 minute
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in less than 1 minute gas to surface in 5 minutes see gas report



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.34	110.73	Initial Hydro-static
1	151.46	110.39	Open To Flow (1)
8	108.48	110.30	Shut-In(1)
67	1136.76	111.37	End Shut-In(1)
69	109.78	110.94	Open To Flow (2)
127	118.04	110.67	Shut-In(2)
218	1109.37	110.76	End Shut-In(2)
219	1727.44	112.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud	1.26
0.00	3340 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	100.00	42.82
Last Gas Rate	0.13	112.00	47.31
Max. Gas Rate	0.13	112.00	47.31



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Time Test Ended: 05:08:30

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Tester: Jared Scheck

Unit No: 3320 -Great Bend-25

Interval: 3442.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations: 1901.00 ft (KB)

Total Depth: 3540.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1096.21 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.12

Last Calib.:

2014.07.12

Start Time: 22:10:00

End Time:

05:09:00

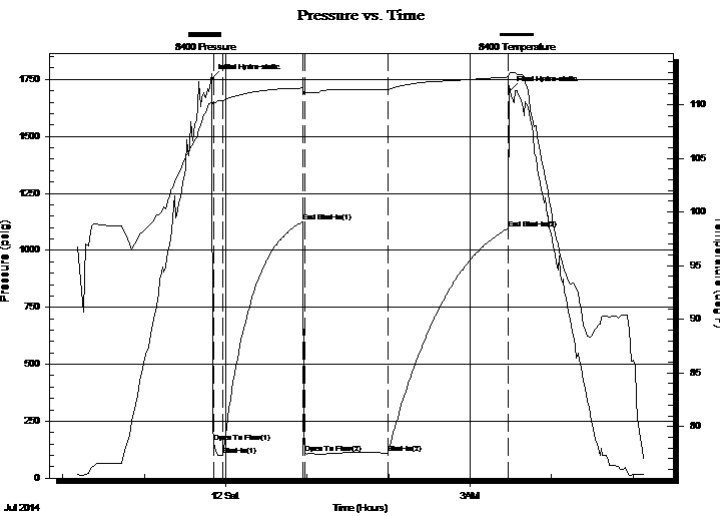
Time On Btm:

2014.07.11 @ 23:50:00

Time Off Btm:

2014.07.12 @ 03:29:30

TEST COMMENT: 1st Opening 5 Minutes- Strong blow built bottom of bucket in less than 1 minute
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in less than 1 minute gas to surface in 5 minutes see gas report



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.42	110.46	Initial Hydro-static
1	159.05	110.14	Open To Flow (1)
8	101.69	110.42	Shut-In(1)
67	1124.31	111.57	End Shut-In(1)
69	106.90	111.05	Open To Flow (2)
130	109.26	111.42	Shut-In(2)
218	1096.21	112.60	End Shut-In(2)
220	1700.60	113.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud	1.26
0.00	3340 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	100.00	42.82
Last Gas Rate	0.13	112.00	47.31
Max. Gas Rate	0.13	112.00	47.31



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TOOL DIAGRAM

F.G Holl Company L.L.C

20-19s-14w Barton

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Zimmer #1-20

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DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.07.11 @ 22:10:00

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 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:	70000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3442.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	98.00 ft				
Tool Length:	126.00 ft				
Number of Packers:	2	Diameter: 6.70 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3419.00	
Hydraulic tool	5.00			3424.00	
Jars	6.00			3430.00	
Safety Joint	2.00			3432.00	
Packer	5.00			3437.00	28.00 Bottom Of Top Packer
Packer	5.00			3442.00	
Anchor	28.00			3470.00	
Change Over Sub	0.75			3470.75	
Drill Pipe	63.50			3534.25	
Change Over Sub	0.75			3535.00	
Recorder	1.00			3536.00	
Recorder	1.00			3537.00	
Bullnose	3.00			3540.00	98.00 Bottom Packers & Anchor

Total Tool Length: 126.00



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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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud	1.262
0.00	3340 gas in pipe	0.000

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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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	0.13	100.00	42.82
2	10	0.13	100.00	42.82
2	20	0.13	106.00	45.06
2	30	0.13	112.00	47.31
2	40	0.13	112.00	47.31
2	50	0.13	112.00	47.31

