



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: 2014.07.13 @ 19:05:00

End Date: 2014.07.14 @ 01:45:30

Job Ticket #: 19311 DST #: 10

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

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Test Start: 2014.07.13 @ 19:05:00

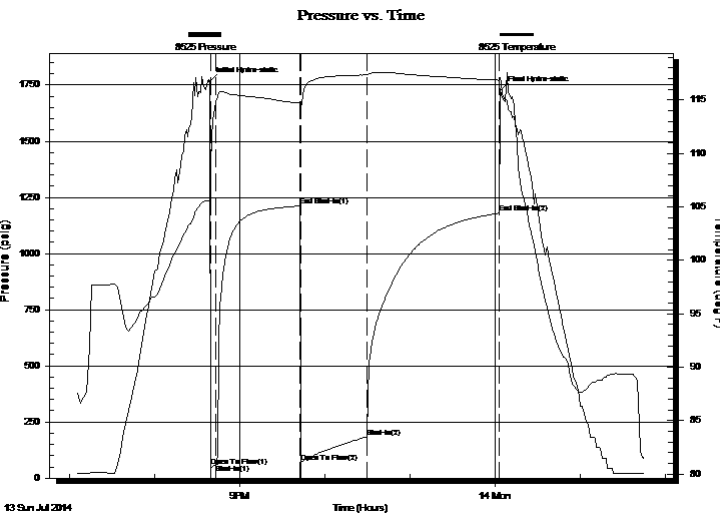
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:40:00
 Time Test Ended: 01:45:30
 Interval: **3553.00 ft (KB) To 3560.00 ft (KB) (TVD)**
 Total Depth: 3560.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3340-Great Bend-25
 Reference Elevations: 1901.00 ft (KB)
 1893.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8525

Press@RunDepth: 183.49 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.13 End Date: 2014.07.14 Last Calib.: 2014.07.14
 Start Time: 19:05:00 End Time: 01:45:30 Time On Btm: 2014.07.13 @ 20:39:00
 Time Off Btm: 2014.07.14 @ 00:04:00

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes
 1st Shut-in 60 Minutes-Weak surface blow
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 3 minutes
 2nd Shut-in 90 Minutes-2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.36	105.59	Initial Hydro-static
1	50.90	108.91	Open To Flow (1)
5	59.39	114.83	Shut-In(1)
64	1211.31	114.69	End Shut-In(1)
65	71.94	114.16	Open To Flow (2)
111	183.49	117.33	Shut-In(2)
204	1179.38	116.85	End Shut-In(2)
205	1725.87	117.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	oil mud 20%oil 80 %mud	0.28
60.00	oil w ater mud 5%oil 45%w ater 55%mud	0.84
240.00	w ater 90% w ater 10% mud	3.37
0.00	gas in pipe 300	0.00
0.00	chlorides 30,000 resistivity .2@60degree	0.00

Gas Rates

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



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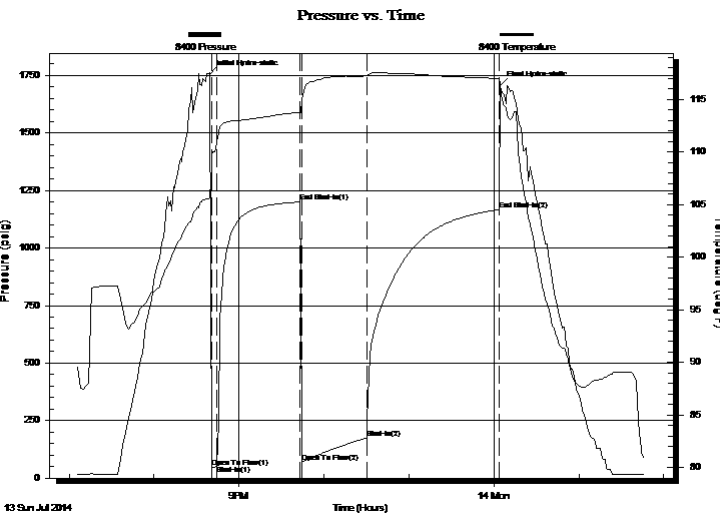
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 Time Test Ended: 01:45:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3340-Great Bend-25
 Interval: **3553.00 ft (KB) To 3560.00 ft (KB) (TVD)**
 Reference Elevations: 1901.00 ft (KB)
 Total Depth: 3560.00 ft (KB) (TVD)
 1893.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1167.02 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.13 End Date: 2014.07.14 Last Calib.: 2014.07.14
 Start Time: 19:05:00 End Time: 01:46:30 Time On Btm: 2014.07.13 @ 20:39:30
 Time Off Btm: 2014.07.14 @ 00:04:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes
 1st Shut-in 60 Minutes-Weak surface blow
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 3 minutes
 2nd Shut-in 90 Minutes-2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.07	105.60	Initial Hydro-static
2	45.26	109.74	Open To Flow (1)
5	55.36	111.02	Shut-In(1)
64	1200.31	113.77	End Shut-In(1)
65	70.23	114.94	Open To Flow (2)
111	174.43	117.23	Shut-In(2)
204	1167.02	116.99	End Shut-In(2)
205	1707.04	116.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	oil mud 20%oil 80 %mud	0.28
60.00	oil w ater mud 5%oil 45%w ater 55%mud	0.84
240.00	w ater 90% w ater 10% mud	3.37
0.00	gas in pipe 300	0.00
0.00	chlorides 30,000 resistivity .2@60degree	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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Test Start: 2014.07.13 @ 19:05:00

Tool Information

Drill Pipe:	Length: 3560.00 ft	Diameter: 3.80 inches	Volume: 49.94 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: 63000.00 lb
			<u>Total Volume: 49.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3553.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
Jars	6.00			3546.00	
Safety Joint	2.00			3548.00	
Packer	5.00			3553.00	23.00 Bottom Of Top Packer
Recorder	1.00			3554.00	
Recorder	1.00			3555.00	
Anchor	2.00			3557.00	
Bullnose	3.00			3560.00	7.00 Anchor Tool
Total Tool Length:	30.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 44.00 sec/qt
Water Loss: 10.80 in³
Resistivity: ohm.m
Salinity: 6800.00 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
20.00	oil mud 20%oil 80 %mud	0.281
60.00	oil w ater mud 5%oil 45%w ater 55%mud	0.842
240.00	w ater 90% w ater 10% mud	3.367
0.00	gas in pipe 300	0.000
0.00	chlorides 30,000 resistivity .2@60degree	0.000

Total Length: 320.00 ft Total Volume: 4.490 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

