



DRILL STEM TEST REPORT

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

9431 East Central STE 100
Wichita Kansas 67206

ATTN: Rene Husted

ScottClarkJrGstTrust

25-20s-16w-Pawnee

Start Date: 2013.12.18 @ 10:54:00

End Date: 2013.12.18 @ 18:57:30

Job Ticket #: 19160 DST #: 4

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

Printed: 2013.12.19 @ 05:12:27



DRILL STEM TEST REPORT

F.G. Holl Company
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 Wichita Kansas 67206
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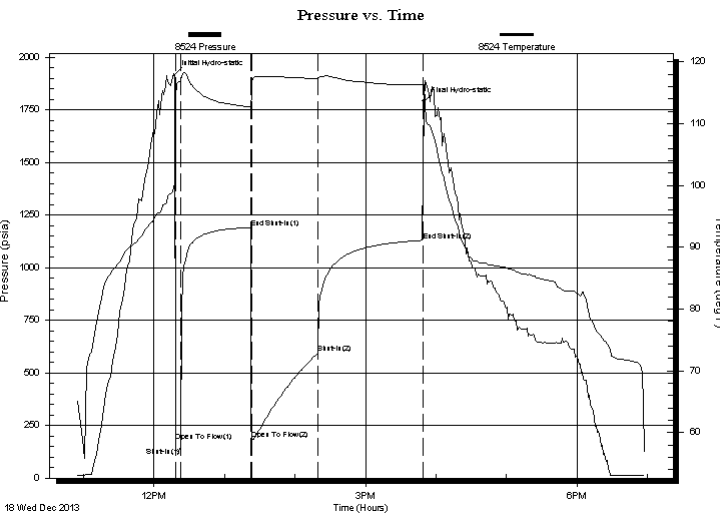
25-20s-16w-Pawnee
ScottClarkJrGstTrust
 Job Ticket: 19160 **DST#: 4**
 Test Start: 2013.12.18 @ 10:54:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:18:00 Tester: Dustin Ellis
 Time Test Ended: 18:57:30 Unit No: 3315-Great Bend-50
 Interval: **3763.00 ft (KB) To 3770.00 ft (KB) (TVD)** Reference Elevations: 2038.00 ft (KB)
 Total Depth: 3770.00 ft (KB) (TVD) 2033.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8524 Outside
 Press @ Run Depth: 594.54 psia @ 3767.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.18 End Date: 2013.12.18 Last Calib.: 2013.12.19
 Start Time: 10:54:00 End Time: 18:57:30 Time On Btm: 2013.12.18 @ 12:17:30
 Time Off Btm: 2013.12.18 @ 15:49:30

TEST COMMENT: 1st Open 5 minutes Strong blow blew off bottom bucket in 1 minute.
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Strong blow blew off bottom bucket in 1 minute.
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1916.70	100.47	Initial Hydro-static
1	174.85	103.43	Open To Flow (1)
6	145.23	117.02	Shut-In(1)
65	1191.17	112.71	End Shut-In(1)
66	186.40	115.22	Open To Flow (2)
122	594.54	117.30	Shut-In(2)
211	1130.57	116.30	End Shut-In(2)
212	1790.74	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface in 14 minutes into pipe.	0.00
0.00	Not measurable.	0.00
0.00	Gravity of oil 37 corrected	0.00
1800.00	Clean gassy oil 60% Gas 40% Oil	25.25
120.00	Gassy oil cut mud	1.68
0.00	Mud 70% Oil 20% Gas 10%	0.00

Gas Rates

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



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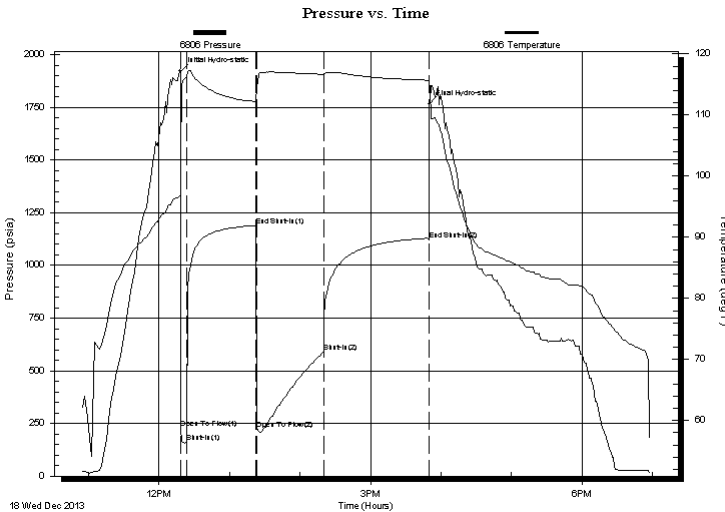
GENERAL INFORMATION:

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 Total Depth: 3770.00 ft (KB) (TVD) 2033.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6806 Inside
 Press @ Run Depth: 1121.35 psia @ 3766.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.18 End Date: 2013.12.18 Last Calib.: 2013.12.19
 Start Time: 10:54:00 End Time: 18:58:00 Time On Btm: 2013.12.18 @ 12:18:00
 Time Off Btm: 2013.12.18 @ 15:50:00

TEST COMMENT: 1st Open 5 minutes Strong blow blew off bottom bucket in 1 minute.
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Strong blow blew off bottom bucket in 1 minute.
 2nd Shut in 90 minutes Yes blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1921.50	96.97	Initial Hydro-static
1	228.39	103.03	Open To Flow (1)
6	161.47	116.33	Shut-In(1)
65	1188.84	112.20	End Shut-In(1)
66	224.86	114.52	Open To Flow (2)
122	589.54	116.68	Shut-In(2)
212	1121.35	115.68	End Shut-In(2)
212	1765.02	115.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface in 14 minutes into pipe.	0.00
0.00	Not measurable.	0.00
0.00	Gravity of oil 37 corrected	0.00
1800.00	Clean gassy oil 60%Gas 40%Oil	25.25
120.00	Gassy oil cut mud	1.68
0.00	Mud 70% Oil 20% Gas 10%	0.00

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company

25-20s-16w-Pawnee

9431 East Central STE 100
Wichita Kansas 67206

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Job Ticket: 19160

DST#: 4

ATTN: Rene Hustedad

Test Start: 2013.12.18 @ 10:54:00

Tool Information

Drill Pipe:	Length: 3742.00 ft	Diameter: 3.80 inches	Volume: 52.49 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: 54000.00 lb
			<u>Total Volume: 52.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3763.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	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			3740.00	
Hydraulic Tool	5.00			3745.00	
Jars	6.00			3751.00	
Safety Joint	2.00			3753.00	
Packer	5.00			3758.00	28.00 Bottom Of Top Packer
Packer	5.00			3763.00	
Anchor	2.00			3765.00	
Recorder	1.00	6806	Inside	3766.00	
Recorder	1.00	8524	Outside	3767.00	
Bull Plug	3.00			3770.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



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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: 71.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 4200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Gas to surface in 14 minutes into pipe.	0.000
0.00	Not measurable.	0.000
0.00	Gravity of oil 37 corrected	0.000
1800.00	Clean gassy oil 60%Gas 40%Oil	25.249
120.00	Gassy oil cut mud	1.683
0.00	Mud 70% Oil 20% Gas 10%	0.000

Total Length: 1920.00 ft Total Volume: 26.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

