



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

10-22s-14w Stafford

Krupp #1-10

Start Date: 2011.04.03 @ 11:30:00

End Date: 2011.04.03 @ 00:00:00

Job Ticket #: 16044 DST #: 9

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

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F.G.Holl Company L.L.C.
Krupp #1-10
10-22s-14w Stafford
DST # 9
Arbuckle
2011.04.03



DRILL STEM TEST REPORT

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 Wichita, Kansas 67206-2563
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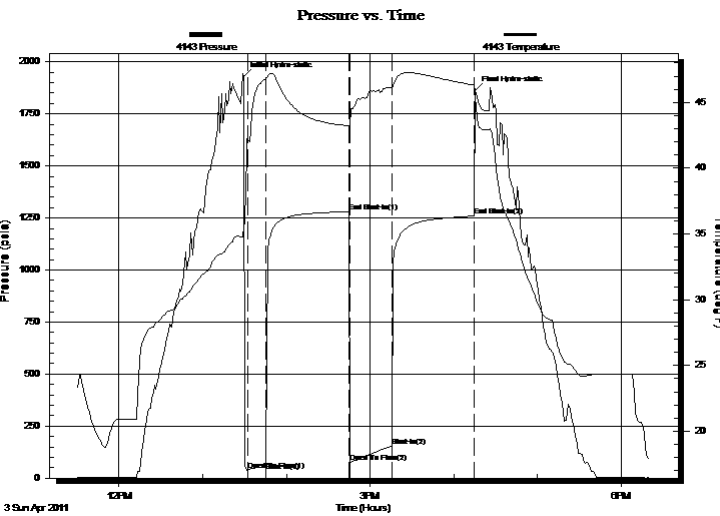
Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16044 **DST#: 9**
 Test Start: 2011.04.03 @ 11:30:00

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 00:00:00	Unit No: 3335-42
Time Test Ended: 00:00:00	Reference Elevations: 1943.00 ft (KB)
Interval: 3804.00 ft (KB) To 3810.00 ft (KB) (TVD)	1935.00 ft (CF)
Total Depth: 3810.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 4143	Inside	Capacity: 5000.00 psia
Press @ RunDepth: 1259.44 psia @ 3807.00 ft (KB)	Start Date: 2011.04.03	End Date: 2011.04.03
Start Time: 11:30:00	End Time: 18:21:00	Last Calib.: 2011.04.03
		Time On Btm: 2011.04.03 @ 13:29:30
		Time Off Btm: 2011.04.03 @ 16:15:30

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 9 minutes
 1st Shut-In 60 Minutes-Weak intermittant
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 13 minutes
 2nd Shut-In 60 Minutes-Weak intermittant



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1929.51	35.60	Initial Hydro-static
3	38.06	42.25	Open To Flow (1)
16	73.70	46.81	Shut-In(1)
76	1280.40	43.24	End Shut-In(1)
76	77.77	43.22	Open To Flow (2)
106	153.65	46.16	Shut-In(2)
165	1259.44	46.33	End Shut-In(2)
166	1862.75	45.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.84
350.00	clean gassy oil	4.91
0.00	40%Gas 60%Oil Gravity 31 Corrected	0.00
25.00	heavy oil cut mud 10%Gas 55%Mud 35%0.35	

Gas Rates

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



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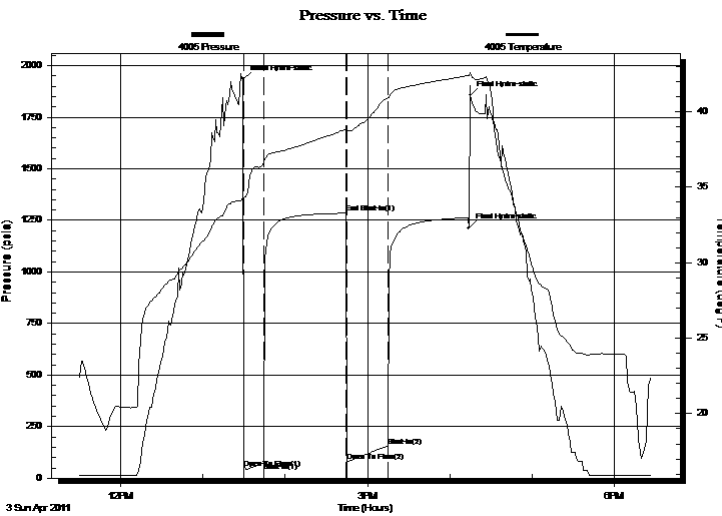
Krupp #1-10
10-22s-14w Stafford
 Job Ticket: 16044 **DST#: 9**
 Test Start: 2011.04.03 @ 11:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 3335-42
 Interval: **3804.00 ft (KB) To 3810.00 ft (KB) (TVD)** Reference Elevations: 1943.00 ft (KB)
 Total Depth: 3810.00 ft (KB) (TVD) 1935.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 4005 Outside
 Press @ Run Depth: 1285.57 psia @ 3808.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.03 End Date: 2011.04.03 Last Calib.: 2011.04.03
 Start Time: 11:30:00 End Time: 18:27:00 Time On Btm: 2011.04.03 @ 13:29:30
 Time Off Btm: 2011.04.03 @ 16:14:00

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 9 minutes
 1st Shut-In 60 Minutes-Weak intermittant
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 13 minutes
 2nd Shut-In 60 Minutes-Weak intermittant



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1933.09	34.27	Initial Hydro-static
1	49.59	34.27	Open To Flow (1)
15	76.02	36.68	Shut-In(1)
75	1285.57	38.83	End Shut-In(1)
76	79.75	38.81	Open To Flow (2)
106	156.33	40.91	Shut-In(2)
165	1211.60	42.39	Final Hydro-static
166	1857.10	42.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.84
350.00	clean gassy oil	4.91
0.00	40%Gas 60%Oil Gravity 31 Corrected	0.00
25.00	heavy oil cut mud 10%Gas 55%Mud 35%0.35	

Gas Rates

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



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TOOL DIAGRAM

F.G.Holl Company L.L.C.

Krupp #1-10

9431 East Central Suite 100
Wichita, Kansas 67206-2563

10-22s-14w Stafford

ATTN: Ryan Greenbaum

Job Ticket: 16044

DST#: 9

Test Start: 2011.04.03 @ 11:30:00

Tool Information

Drill Pipe:	Length: 3783.00 ft	Diameter: 3.80 inches	Volume: 53.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 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: 55000.00 lb
			<u>Total Volume: 53.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3804.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3776.00	
Shut-In Tool	5.00			3781.00	
Hydroic Tool	5.00			3786.00	
Jars	6.00			3792.00	
Safety Joint	2.00			3794.00	
Packer	5.00			3799.00	29.00 Bottom Of Top Packer
Packer	5.00			3804.00	
Perforations	2.00			3806.00	
Recorder	1.00	4143	Inside	3807.00	
Recorder	1.00	4005	Outside	3808.00	
Bullnose	3.00			3811.00	7.00 Bottom Packers & Anchor

Total Tool Length: 36.00



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FLUID SUMMARY

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Job Ticket: 16044

DST#: 9

ATTN: Ryan Greenbaum

Test Start: 2011.04.03 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 88.00 sec/qt
Water Loss: 8.60 in³
Resistivity: ohm.m
Salinity: 8600.00 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
60.00	Gas in the pipe	0.842
350.00	clean gassy oil	4.910
0.00	40%Gas 60%Oil Gravity 31 Corrected	0.000
25.00	heavy oil cut mud 10%Gas 55%Mud 35%Oil	0.351

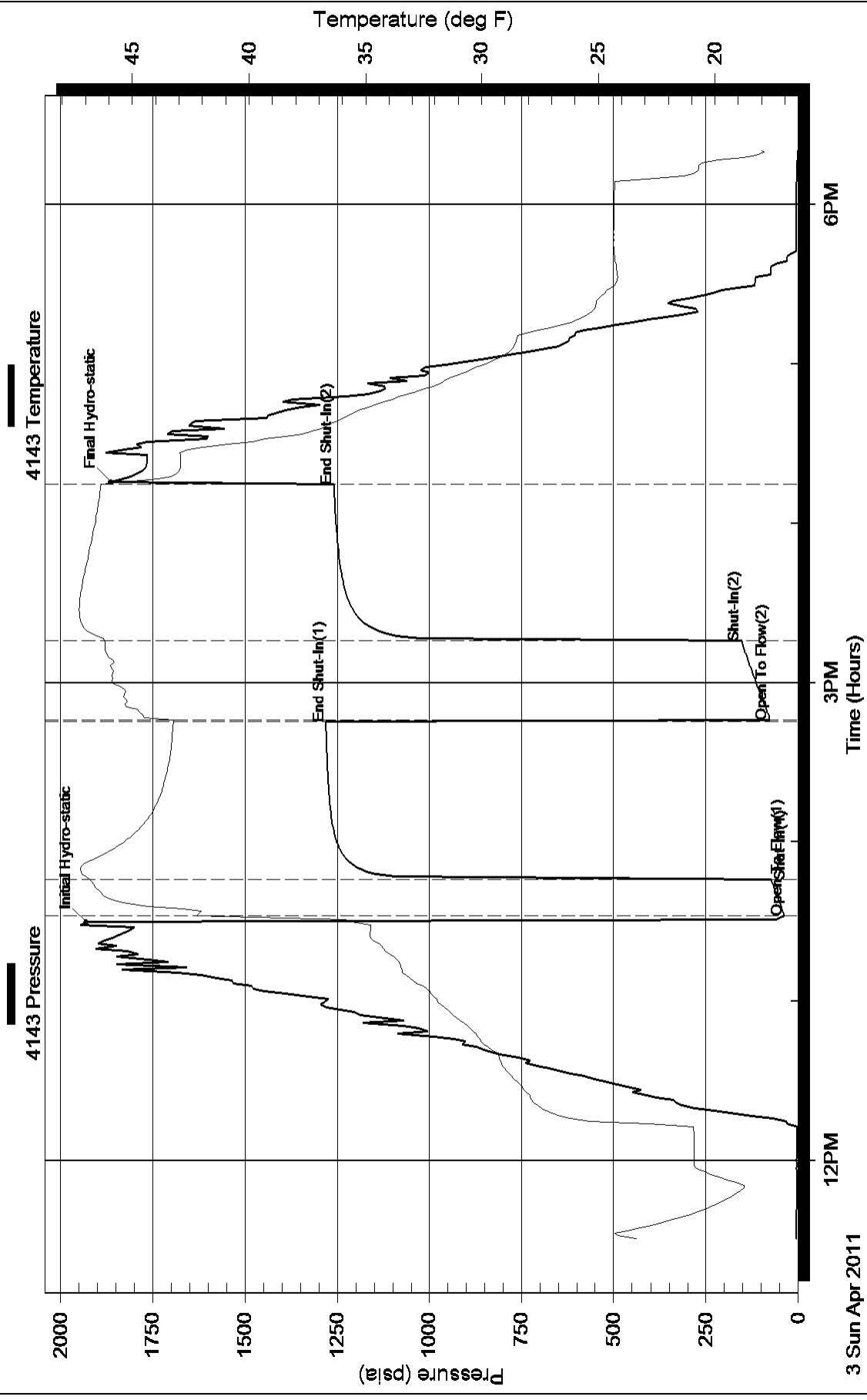
Total Length: 435.00 ft Total Volume: 6.103 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

