



DRILL STEM TEST REPORT

Prepared For: **F G Holl Company**

9431 East Central STE 100
Wichita Kansas 67206

ATTN: Renna Husted

Neuforth 1-7

7-19s-14w-Barton

Start Date: 2013.07.06 @ 05:00:00

End Date: 2013.07.06 @ 10:09:00

Job Ticket #: 17528 DST #: 1

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

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Wichita Kansas 67206

Neuforth 1-7

Job Ticket: 17528

DST#: 1

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Test Start: 2013.07.06 @ 05:00:00

GENERAL INFORMATION:

Formation: **Herington**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:26:30

Time Test Ended: 10:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Interval: 1776.00 ft (KB) To 1862.00 ft (KB) (TVD)

Reference Elevations: 1938.00 ft (KB)

Total Depth: 1862.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6806 Outside

Press @ RunDepth: 97.48 psia @ 1859.72 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.06

End Date: 2013.07.06

Last Calib.: 2013.07.06

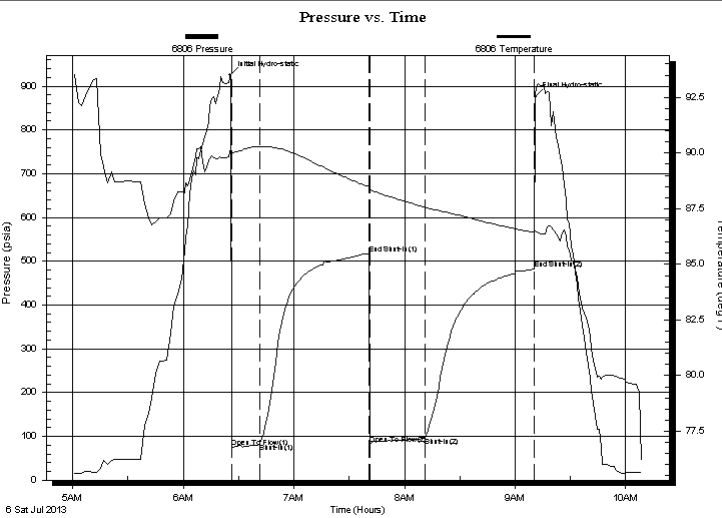
Start Time: 05:00:00

End Time: 10:09:00

Time On Btm: 2013.07.06 @ 06:25:30

Time Off Btm: 2013.07.06 @ 09:11:00

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 5 inches into a 5 gallon bucket of water.
1st Shut in 60 minutes No blow back
2nd Open 30 minutes Weak building blow built to 5.5 inches into the water.
2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	925.44	90.23	Initial Hydro-static
1	75.28	90.02	Open To Flow (1)
16	84.59	90.30	Shut-In(1)
75	517.51	88.49	End Shut-In(1)
76	83.07	88.35	Open To Flow (2)
106	97.48	87.57	Shut-In(2)
165	481.60	86.42	End Shut-In(2)
166	875.59	86.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 110%	0.70

Gas Rates

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



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Reference Elevations: 1938.00 ft (KB)

Total Depth: 1862.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6839 Inside

Press @ RunDepth: 481.60 psia @ 1858.72 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.07.06

End Date: 2013.07.06

Last Calib.: 2013.07.06

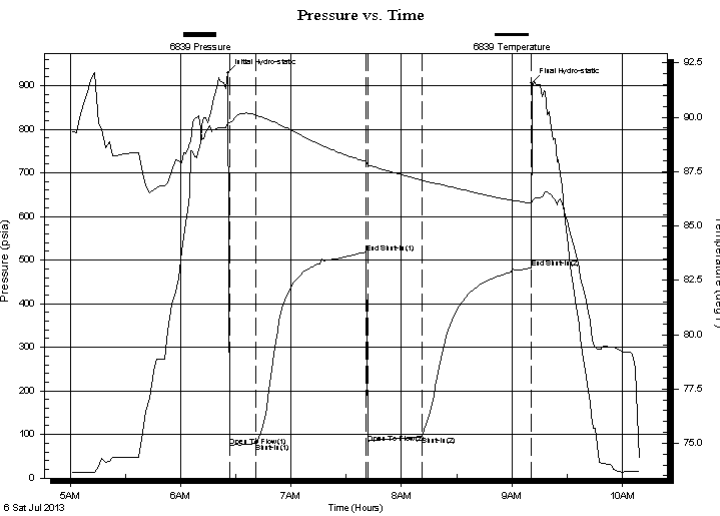
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2nd Open 30 minutes Weak building blow built to 5.5 inches into the water.
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PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	928.91	89.76	Initial Hydro-static
1	73.66	89.73	Open To Flow (1)
16	79.43	90.09	Shut-In(1)
75	517.66	87.95	End Shut-In(1)
76	80.72	87.82	Open To Flow (2)
106	96.00	87.10	Shut-In(2)
165	481.60	86.03	End Shut-In(2)
166	905.90	86.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 110%	0.70

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company

7-19s-14w-Barton

9431 East Central STE 100
Wichita Kansas 67206

Neuforth 1-7

Job Ticket: 17528

DST#: 1

ATTN: Renna Hustead

Test Start: 2013.07.06 @ 05:00:00

Tool Information

Drill Pipe:	Length: 1772.00 ft	Diameter: 3.80 inches	Volume: 24.86 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: 36000.00 lb
			<u>Total Volume: 24.86 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	1776.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.72 ft			
Tool Length:	106.72 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			1761.00	
Hydraulic Tool	5.00			1766.00	
Packer	5.00			1771.00	20.00 Bottom Of Top Packer
Packer	5.00			1776.00	
Anchor	5.00			1781.00	
Change Over Sub	0.75			1781.75	
Drill Pipe	63.22			1844.97	
Change Over Sub	0.75			1845.72	
Anchor	12.00			1857.72	
Recorder	1.00	6839	Inside	1858.72	
Recorder	1.00	6806	Outside	1859.72	
Bull Plug	3.00			1862.72	86.72 Bottom Packers & Anchor

Total Tool Length: 106.72



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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: 53.00 sec/qt
Water Loss: 16.00 in³
Resistivity: ohm.m
Salinity: 28000.00 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
50.00	Mud 110%	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

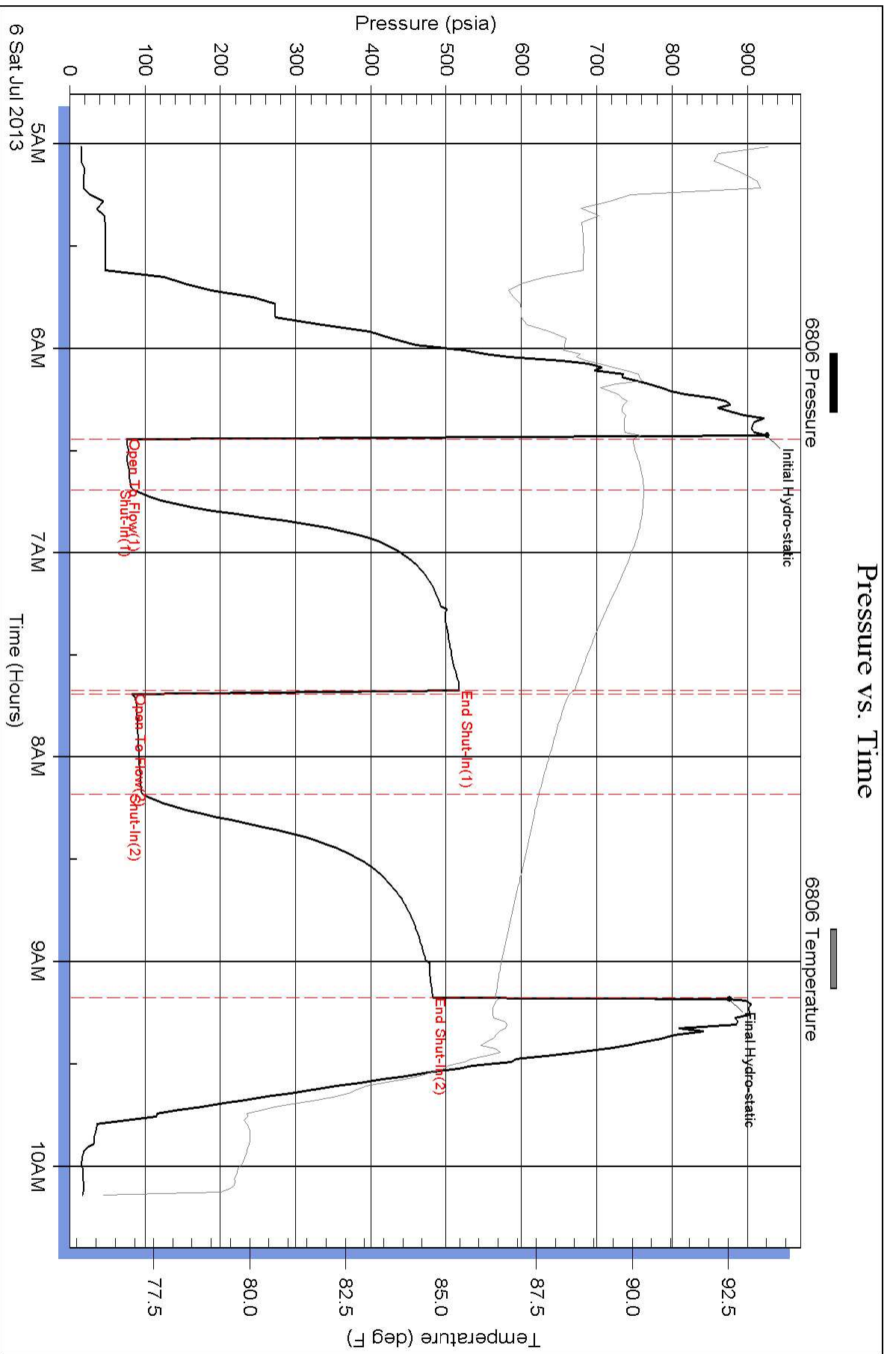
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time

