



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: 2013.12.13 @ 05:43:00

End Date: 2013.12.13 @ 10:53:30

Job Ticket #: 19157 DST #: 1

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

Printed: 2013.12.13 @ 21:08:05

F.G. Holl Company

25-20s-16w-Pawnee

ScottClarkJrGstTrust

DST # 1

Herrington-Krider

2013.12.13



DRILL STEM TEST REPORT

F.G. Holl Company
 9431 East Central STE 100
 Wichita Kansas 67206
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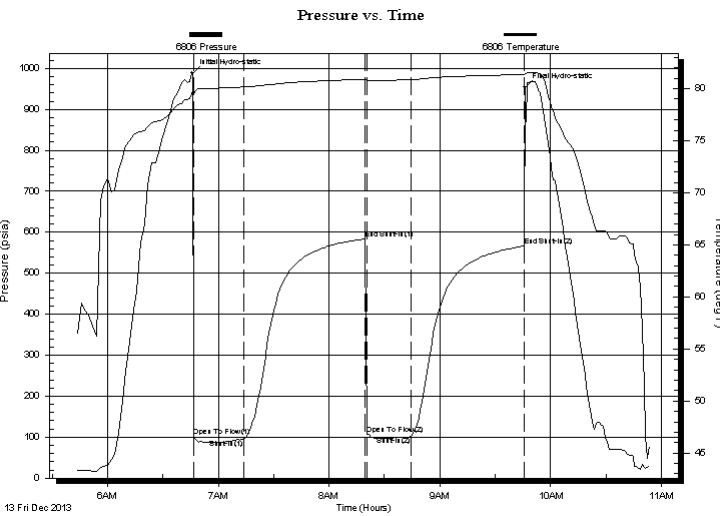
25-20s-16w-Pawnee
ScottClarkJrGstTrust
 Job Ticket: 19157 **DST#: 1**
 Test Start: 2013.12.13 @ 05:43:00

GENERAL INFORMATION:

Formation: **Herington-Krider**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:46:30
 Time Test Ended: 10:53:30
 Interval: **1942.00 ft (KB) To 2050.00 ft (KB) (TVD)**
 Total Depth: 2050.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-50
 Reference Elevations: 2038.00 ft (KB)
 2033.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6806 Inside
 Press @ Run Depth: 102.66 psia @ 2046.22 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.13 End Date: 2013.12.13 Last Calib.: 2013.12.13
 Start Time: 05:43:00 End Time: 10:53:30 Time On Btm: 2013.12.13 @ 06:46:00
 Time Off Btm: 2013.12.13 @ 09:46:00

TEST COMMENT: 1st Open 30 minutes Good building blow built to 5.5 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Good building blow built to 4 inches .
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	987.47	79.69	Initial Hydro-static
1	102.33	79.47	Open To Flow (1)
28	95.49	80.17	Shut-In(1)
94	583.59	80.88	End Shut-In(1)
95	107.82	80.77	Open To Flow (2)
119	102.66	80.89	Shut-In(2)
180	566.26	81.36	End Shut-In(2)
180	953.50	81.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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



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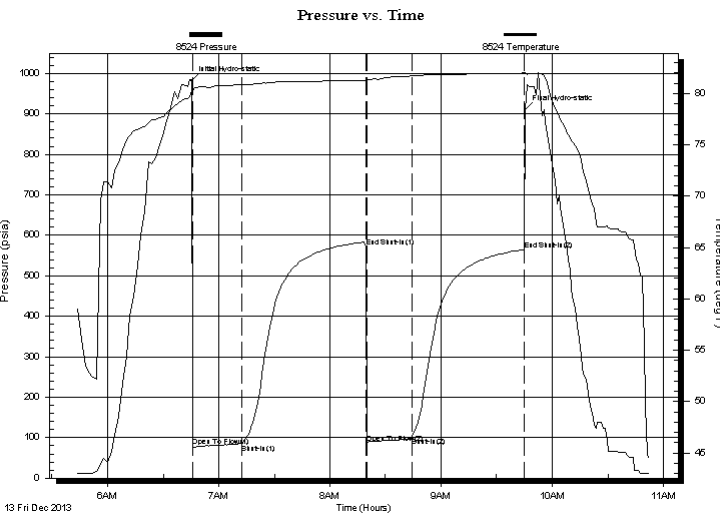
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 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-50
 Interval: **1942.00 ft (KB) To 2050.00 ft (KB) (TVD)**
 Reference Elevations: 2038.00 ft (KB)
 Total Depth: 2050.00 ft (KB) (TVD) 2033.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8524 Outside
 Press @ RunDepth: 565.14 psia @ 2047.22 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.12.13 End Date: 2013.12.13 Last Calib.: 2013.12.13
 Start Time: 05:43:00 End Time: 10:53:00 Time On Btm: 2013.12.13 @ 06:45:30
 Time Off Btm: 2013.12.13 @ 09:45:30

TEST COMMENT: 1st Open 30 minutes Good building blow built to 5.5 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Good building blow built to 4 inches .
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	981.20	80.28	Initial Hydro-static
1	78.48	80.12	Open To Flow (1)
27	84.52	80.83	Shut-In(1)
95	572.38	81.30	End Shut-In(1)
95	87.30	81.33	Open To Flow (2)
119	99.78	81.72	Shut-In(2)
180	565.14	81.99	End Shut-In(2)
180	910.92	82.05	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

25-20s-16w-Pawnee

9431 East Central STE 100
Wichita Kansas 67206

ScottClarkJrGstTrust

Job Ticket: 19157

DST#: 1

ATTN: Rene Hustedad

Test Start: 2013.12.13 @ 05:43:00

Tool Information

Drill Pipe:	Length: 1952.00 ft	Diameter: 3.80 inches	Volume: 27.38 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: 34000.00 lb
			<u>Total Volume: 27.38 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	1942.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.22 ft			
Tool Length:	128.22 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			1927.00	
Hydraulic Tool	5.00			1932.00	
Packer	5.00			1937.00	20.00 Bottom Of Top Packer
Packer	5.00			1942.00	
Anchor	5.00			1947.00	
Change Over Sub	0.75			1947.75	
Drill Pipe	62.72			2010.47	
Change Over Sub	0.75			2011.22	
Anchor	34.00			2045.22	
Recorder	1.00	6806	Inside	2046.22	
Recorder	1.00	8524	Outside	2047.22	
Bull Plug	3.00			2050.22	108.22 Bottom Packers & Anchor

Total Tool Length: 128.22



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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: 42.00 sec/qt
Water Loss: 12.40 in³
Resistivity: ohm.m
Salinity: 24500.00 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 100%	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

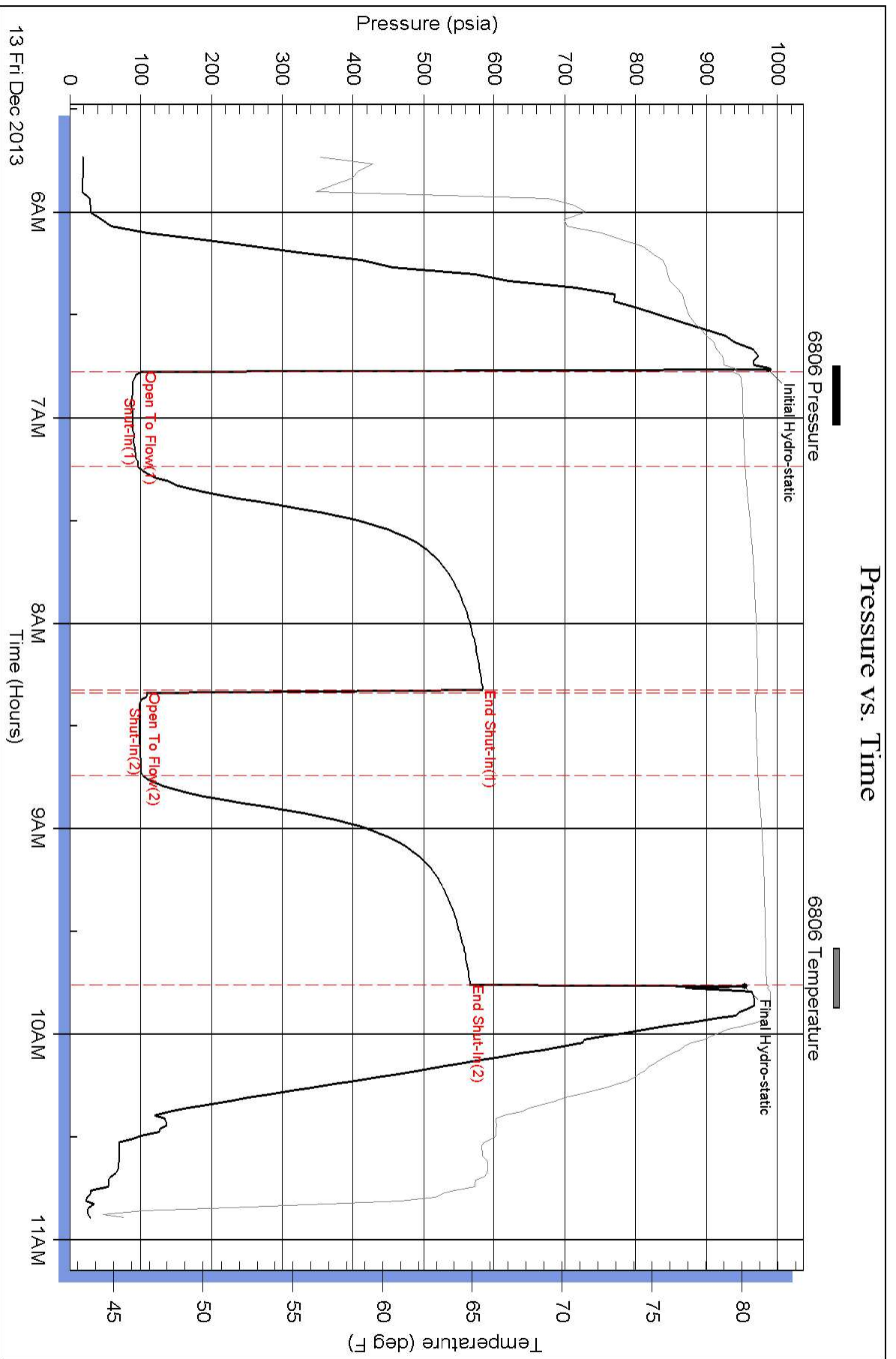
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

