



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206

ATTN: Reene Husted

Smith D #1-30123

30-20s-15w Barton

Start Date: 2014.01.13 @ 00:00:00

End Date: 2014.01.13 @ 00:00:00

Job Ticket #: 17115 DST #: 1

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

Printed: 2014.01.13 @ 10:09:53

F.G.Holl Company LLC

30-20s-15w Barton

Smith D #1-30123

DST # 1

Herlington-Winfield

2014.01.13



DRILL STEM TEST REPORT

F.G.Holl Company LLC

30-20s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206

Smith D #1-30123

Job Ticket: 17115

DST#: 1

ATTN: Reene Hustead

Test Start: 2014.01.13 @ 00:00:00

GENERAL INFORMATION:

Formation: **Herington-Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3320-38

Interval: 1956.00 ft (KB) To 2044.00 ft (KB) (TVD)

Reference Elevations: 2033.00 ft (KB)

Total Depth: 2044.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8419

Inside

Press@RunDepth: 554.89 kPag @ 2040.07 ft (KB)

Capacity: 5000.00 kPag

Start Date: 2014.01.13

End Date: 2014.01.13

Last Calib.: 2014.01.13

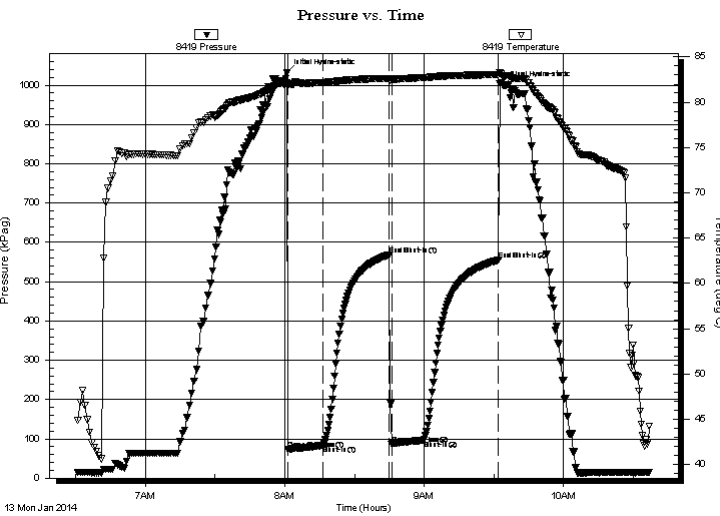
Start Time: 06:30:00

End Time: 10:37:00

Time On Btm: 2014.01.13 @ 08:01:00

Time Off Btm: 2014.01.13 @ 09:34:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 3 minutes and died
1st Shut-In 30 Minutes-No blow back
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (kPag)	Temp (deg C)	Annotation
0	1030.57	82.11	Initial Hydro-static
1	72.86	81.94	Open To Flow (1)
16	82.89	82.17	Shut-In(1)
44	568.63	82.64	End Shut-In(1)
45	85.34	82.53	Open To Flow (2)
59	97.34	82.72	Shut-In(2)
91	554.89	83.03	End Shut-In(2)
93	999.08	82.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	drilling mud	0.70

Gas Rates

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



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Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3320-38

Interval: 1956.00 ft (KB) To 2044.00 ft (KB) (TVD)

Reference Elevations: 2033.00 ft (KB)

Total Depth: 2044.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 507.71 kPag @ 2041.07 ft (KB)

Capacity: 5000.00 kPag

Start Date: 2014.01.13 End Date: 2014.01.13

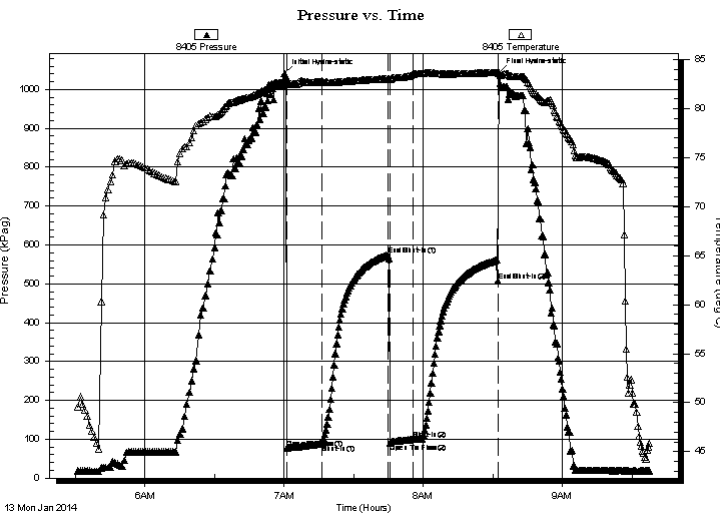
Last Calib.: 2014.01.13

Start Time: 05:30:00 End Time: 09:37:30

Time On Btm: 2014.01.13 @ 07:00:00

Time Off Btm: 2014.01.13 @ 08:32:30

TEST COMMENT: 1st Opening 15 Minutes-Weak blow for 3 minutes and died
1st Shut-In 30 Minutes-No blow back
2nd Opening 15 Minutes-No blow
2nd Shut-In 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (kPag)	Temp (deg C)	Annotation
0	1040.23	82.69	Initial Hydro-static
1	77.73	82.53	Open To Flow (1)
17	88.11	82.75	Shut-In(1)
45	574.25	83.06	End Shut-In(1)
46	89.42	82.97	Open To Flow (2)
56	99.86	83.53	Shut-In(2)
92	507.71	83.69	End Shut-In(2)
93	1042.43	83.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	drilling mud	0.70

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

30-20s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206

Smith D #1-30123

Job Ticket: 17115

DST#: 1

ATTN: Reene Hustead

Test Start: 2014.01.13 @ 00:00:00

Tool Information

Drill Pipe:	Length: 1942.00 ft	Diameter: 3.80 inches	Volume: 27.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.80 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 27.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	1956.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.07 ft			
Tool Length:	116.07 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			1933.00	
Hydraulic Tool	5.00			1938.00	
Safety Joint	2.00			1940.00	
Jars	6.00			1946.00	
Packer	5.00			1951.00	28.00 Bottom Of Top Packer
Packer	5.00			1956.00	
Anchor	3.00			1959.00	
Change Over Sub	0.75			1959.75	
Drill Pipe	62.57			2022.32	
Change Over Sub	0.75			2023.07	
Anchor	16.00			2039.07	
Recorder	1.00	8419	Inside	2040.07	
Recorder	1.00	8405	Inside	2041.07	
Bullnose	3.00			2044.07	88.07 Bottom Packers & Anchor

Total Tool Length: 116.07



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FLUID SUMMARY

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Test Start: 2014.01.13 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 45.00 sec/qt

Cushion Volume: bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: kPag

Salinity: 48000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	drilling mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

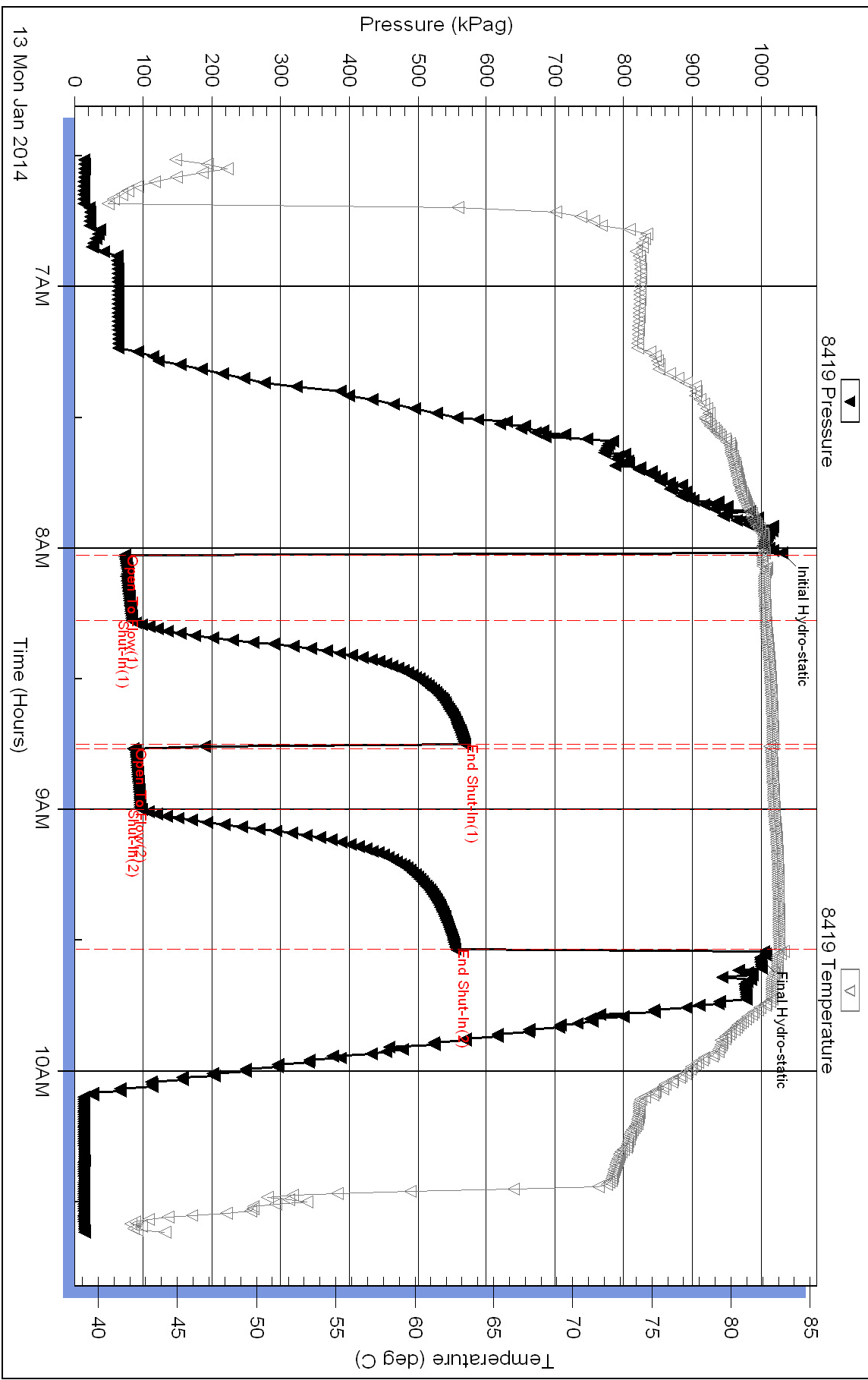
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

