



DRILL STEM TEST REPORT

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

9431 East Central Ste 100
Wichita Ks. 67206

ATTN: Ryan Greenbaum

Hanson A Unit 1-15

15-20s-16w Pawnee

Start Date: 2013.10.25 @ 12:19:00

End Date: 2013.10.25 @ 19:06:00

Job Ticket #: 18526 DST #: 5

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

Printed: 2013.10.25 @ 17:25:14



DRILL STEM TEST REPORT

F.G Holl Company LLC.

15-20s-16w Pawnee

9431 East Central Ste 100
Wichita Ks. 67206

Hanson A Unit 1-15

Job Ticket: 18526

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.10.25 @ 12:19:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:54:30

Time Test Ended: 19:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Interval: 3797.00 ft (KB) To 3805.00 ft (KB) (TVD)

Reference Elevations: 2033.00 ft (KB)

Total Depth: 3805.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6839 Inside

Press @ RunDepth: 158.33 psia @ 3802.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.25

End Date:

2013.10.25

Last Calib.:

2013.10.25

Start Time: 12:19:00

End Time:

19:06:00

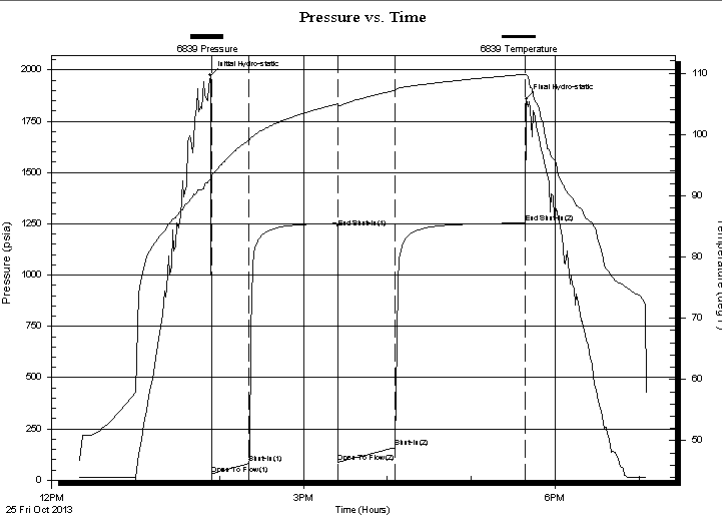
Time On Btm:

2013.10.25 @ 13:53:30

Time Off Btm:

2013.10.25 @ 17:39:30

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 1.5 inches into a 5 gallon bucket of water.
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair building blow built to 3.5 inches into the water
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1974.69	92.72	Initial Hydro-static
1	30.31	93.47	Open To Flow (1)
28	80.34	99.06	Shut-In(1)
91	1230.04	104.97	End Shut-In(1)
92	86.71	104.72	Open To Flow (2)
132	158.33	107.18	Shut-In(2)
225	1252.83	109.80	End Shut-In(2)
226	1858.30	109.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	Oil spotted w ater 1%Oil 99%Water	1.71
198.00	Water 100%	2.78
0.00	Chlorides 43,000 .4ohms @58degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G Holl Company LLC.

15-20s-16w Pawnee

9431 East Central Ste 100
Wichita Ks. 67206

Hanson A Unit 1-15

Job Ticket: 18526

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.10.25 @ 12:19:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:54:30

Time Test Ended: 19:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-35

Interval: 3797.00 ft (KB) To 3805.00 ft (KB) (TVD)

Reference Elevations: 2033.00 ft (KB)

Total Depth: 3805.00 ft (KB) (TVD)

2025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press @ Run Depth: 1255.09 psia @ 3801.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.25

End Date: 2013.10.25

Last Calib.: 2013.10.25

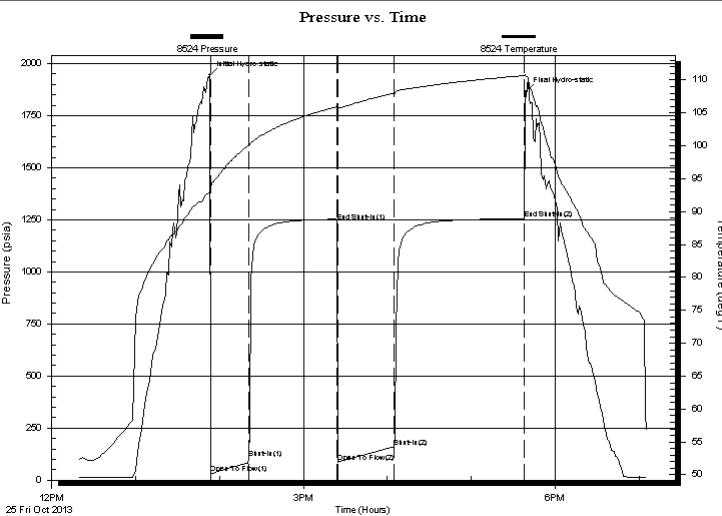
Start Time: 12:19:00

End Time: 19:05:30

Time On Btm: 2013.10.25 @ 13:53:00

Time Off Btm: 2013.10.25 @ 17:39:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 1.5 inches into a 5 gallon bucket of water.
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair building blow built to 3.5 inches into the water
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1944.13	92.95	Initial Hydro-static
1	31.27	93.59	Open To Flow (1)
28	102.60	100.10	Shut-In(1)
91	1239.30	105.97	End Shut-In(1)
92	86.77	105.77	Open To Flow (2)
132	159.91	107.98	Shut-In(2)
225	1255.09	110.69	End Shut-In(2)
226	1863.51	110.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	Oil spotted w ater 1%Oil 99%Water	1.71
198.00	Water 100%	2.78
0.00	Chlorides 43,000 .4ohms @58degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

15-20s-16w Pawnee

9431 East Central Ste 100
Wichita Ks. 67206

Hanson A Unit 1-15

Job Ticket: 18526

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.10.25 @ 12:19:00

Tool Information

Drill Pipe:	Length: 3784.00 ft	Diameter: 3.80 inches	Volume: 53.08 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: 52000.00 lb
			<u>Total Volume: 53.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3797.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3782.00	
Hydraulic Tool	5.00			3787.00	
Packer	5.00			3792.00	20.00 Bottom Of Top Packer
Packer	5.00			3797.00	
Anchor	3.00			3800.00	
Recorder	1.00	8524	Outside	3801.00	
Recorder	1.00	6839	Inside	3802.00	
Bull Plug	3.00			3805.00	8.00 Bottom Packers & Anchor

Total Tool Length: 28.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company LLC.

15-20s-16w Pawnee

9431 East Central Ste 100
Wichita Ks. 67206

Hanson A Unit 1-15

Job Ticket: 18526

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2013.10.25 @ 12:19:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 7900.00 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
122.00	Oil spotted w ater 1%Oil 99%Water	1.711
198.00	Water 100%	2.777
0.00	Chlorides 43,000 .4ohms @58degrees	0.000

Total Length: 320.00 ft Total Volume: 4.488 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

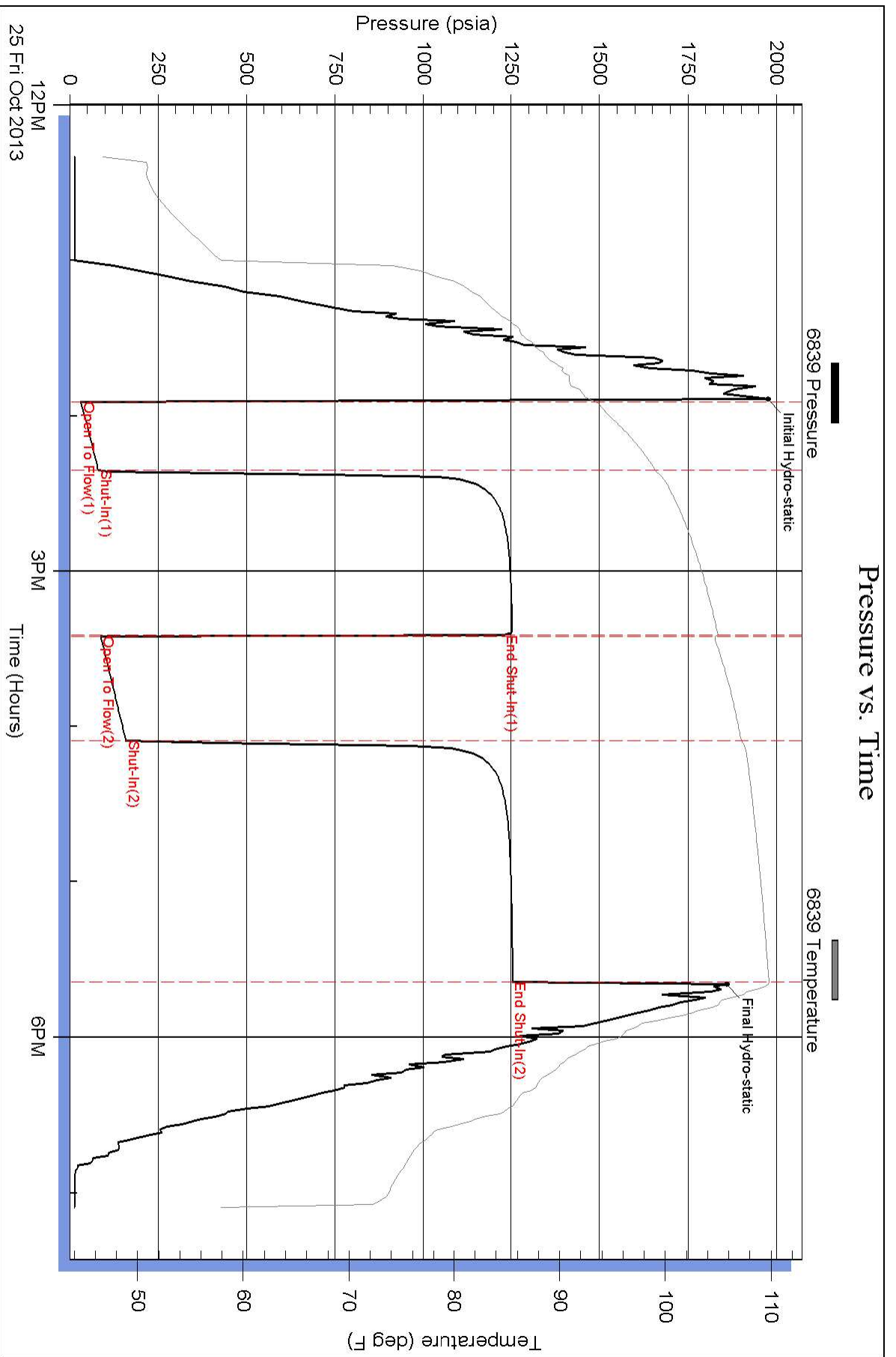
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

