



DRILL STEM TEST REPORT

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

9431 Central Suit 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Menzoer 1-22

22-17-15w-Barton

Start Date: 2013.01.17 @ 03:30:00

End Date: 2013.01.17 @ 09:33:30

Job Ticket #: 17408 DST #: 8

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

Printed: 2013.01.17 @ 09:48:45



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DST#: 8

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Test Start: 2013.01.17 @ 03:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:30

Time Test Ended: 09:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-45

Interval: 3576.00 ft (KB) To 3583.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3583.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 62.72 psia @ 3579.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.17 End Date: 2013.01.17

Last Calib.: 2013.01.17

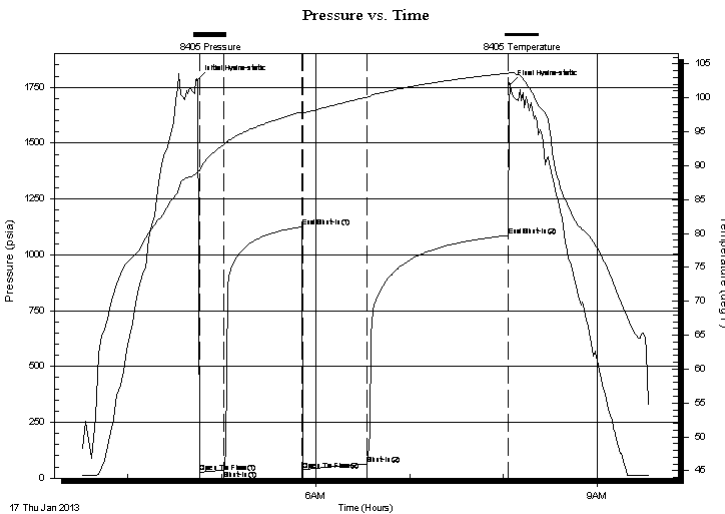
Start Time: 03:30:00 End Time: 09:33:30

Time On Btm: 2013.01.17 @ 04:44:30

Time Off Btm: 2013.01.17 @ 08:04:00

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 2.5
1st Shut in 60 minutes No blow back.
2nd Open 45 minutes Fair building blow blew 3 inches.
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1783.45	89.07	Initial Hydro-static
1	25.26	89.20	Open To Flow (1)
17	35.90	93.14	Shut-In(1)
67	1125.28	97.89	End Shut-In(1)
67	36.97	97.71	Open To Flow (2)
108	62.72	100.08	Shut-In(2)
199	1086.74	103.61	End Shut-In(2)
200	1762.35	103.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	Water 90%Water 10% Mud	0.95

Gas Rates

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



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GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:45:30

Time Test Ended: 09:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-45

Interval: 3576.00 ft (KB) To 3583.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3583.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 1086.27 psia @ 3580.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.17

End Date: 2013.01.17

Last Calib.: 2013.01.17

Start Time: 03:03:00

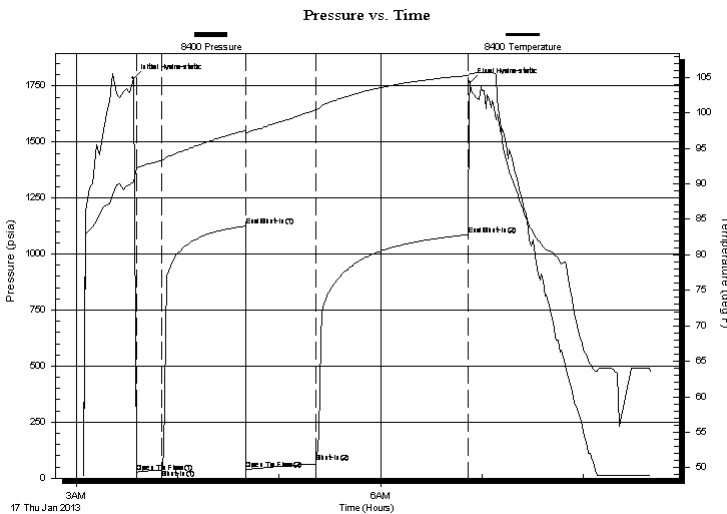
End Time: 08:40:16

Time On Btm: 2013.01.17 @ 03:33:23

Time Off Btm: 2013.01.17 @ 06:52:53

TEST COMMENT: 1st Open 15 minutes Fair building blow built to 2.5
1st Shut in 60 minutes No blow back.
2nd Open 45 minutes Fair building blow blew 3 inches.
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1783.71	90.24	Initial Hydro-static
2	27.77	92.23	Open To Flow (1)
17	36.95	93.28	Shut-In(1)
67	1124.84	97.53	End Shut-In(1)
67	38.09	97.15	Open To Flow (2)
109	71.49	100.47	Shut-In(2)
199	1086.27	105.27	End Shut-In(2)
200	1765.93	105.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	Water 90%Water 10% Mud	0.95

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

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Wichita Kansas 67206

Menzoer 1-22

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DST#: 8

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Test Start: 2013.01.17 @ 03:30:00

Tool Information

Drill Pipe:	Length: 3566.00 ft	Diameter: 3.80 inches	Volume: 50.02 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: 62000.00 lb
			<u>Total Volume: 50.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3576.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3558.00	
Hydraulic Tool	5.00			3563.00	
Safety Joint	2.00			3565.00	
Jars	6.00			3571.00	
Packer	5.00			3576.00	23.00 Bottom Of Top Packer
Packer	0.00			3576.00	
Anchor	2.00			3578.00	
Recorder	1.00	8405	Inside	3579.00	
Recorder	1.00	8400	Outside	3580.00	
Bullnose	3.00			3583.00	7.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



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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: 50.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 9900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
68.00	Water 90%Water 10% Mud	0.954

Total Length: 68.00 ft Total Volume: 0.954 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

