



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

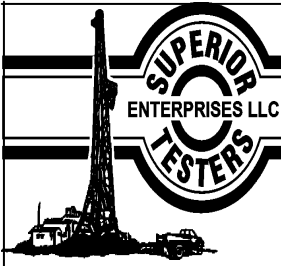
Start Date: 2013.01.14 @ 01:20:00

End Date: 2013.01.14 @ 06:29:00

Job Ticket #: 17404 DST #: 4

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

Printed: 2013.01.14 @ 18:38:09



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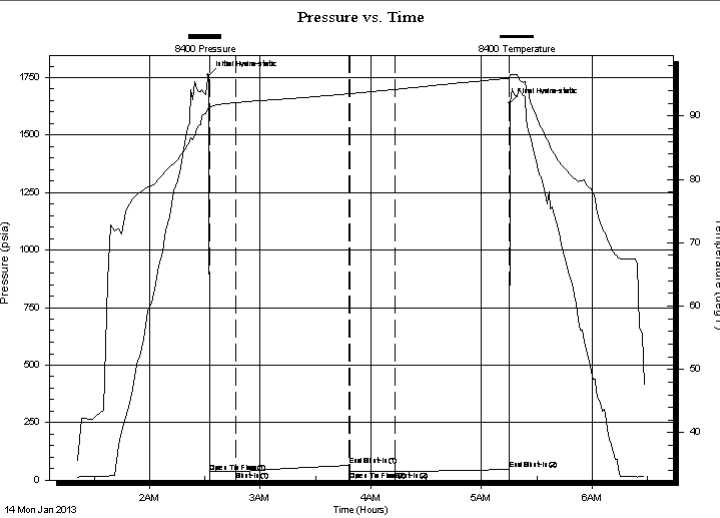
22-17-15w-Barton
Menzoer 1-22
 Job Ticket: 17404 **DST#: 4**
 Test Start: 2013.01.14 @ 01:20:00

GENERAL INFORMATION:

Formation: **Lancing**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-40
 Time Tool Opened: 02:32:30
 Time Test Ended: 06:29:00
 Interval: **3420.00 ft (KB) To 3443.00 ft (KB) (TVD)**
 Reference Elevations: 1992.00 ft (KB)
 Total Depth: 3443.00 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: 36.55 psia @ 3440.00 ft (KB)
 Capacity: 5000.00 psia
 Start Date: 2013.01.14 End Date: 2013.01.14 Last Calib.: 2013.01.14
 Start Time: 01:20:00 End Time: 06:29:00 Time On Btm: 2013.01.14 @ 02:32:00
 Time Off Btm: 2013.01.14 @ 05:15:30

TEST COMMENT: 1st Open 15 minutes Fair surface blow .
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Dead no blow .
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

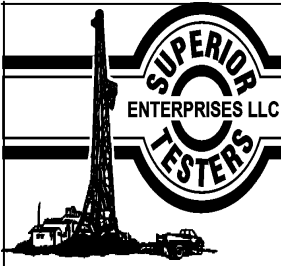
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1760.38	91.48	Initial Hydro-static
1	35.98	91.29	Open To Flow (1)
15	37.31	92.11	Shut-In(1)
76	63.96	93.51	End Shut-In(1)
77	36.23	93.51	Open To Flow (2)
101	36.55	94.20	Shut-In(2)
163	46.78	95.97	End Shut-In(2)
164	1638.97	96.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

Gas Rates

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



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Menzoer 1-22

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DST#: 4

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 Deviated: No Whipstock: ft (KB)
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 Time Tool Opened: 02:32:30 Tester: Dustin Ellis
 Time Test Ended: 06:29:00 Unit No: 3315-Great Bend-40
Interval: 3420.00 ft (KB) To 3443.00 ft (KB) (TVD)
 Reference Elevations: 1992.00 ft (KB)
 Total Depth: 3443.00 ft (KB) (TVD) 1984.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

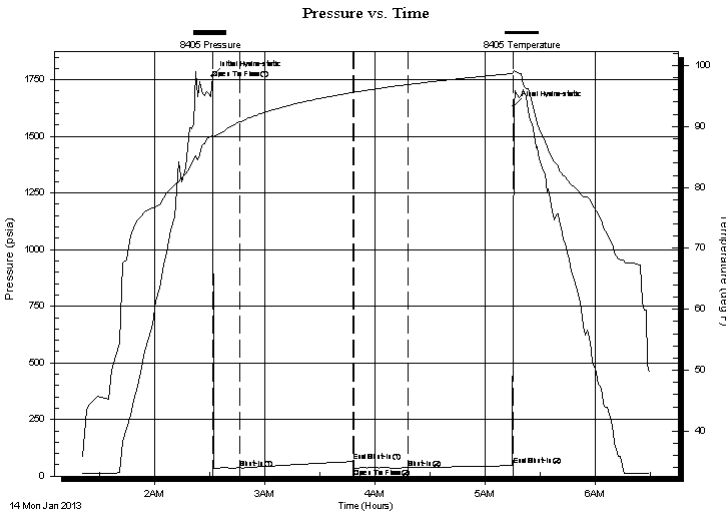
Serial #: 8405

Inside

Press@RunDepth: 46.87 psia @ 3439.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.14 End Date: 2013.01.14 Last Calib.: 2013.01.14
 Start Time: 01:20:00 End Time: 06:29:30 Time On Btm: 2013.01.14 @ 02:31:30
 Time Off Btm: 2013.01.14 @ 05:15:30

TEST COMMENT: 1st Open 15 minutes Fair surface blow .
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Dead no blow .
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1768.02	88.45	Initial Hydro-static
1	1757.19	88.54	Open To Flow (1)
15	36.56	90.72	Shut-In(1)
77	64.71	95.58	End Shut-In(1)
77	35.79	95.60	Open To Flow (2)
107	36.88	96.88	Shut-In(2)
164	46.87	98.69	End Shut-In(2)
164	1634.14	99.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company

22-17-15w-Barton

9431 Central Suit 100
Wichita Kansas 67206

Menzoer 1-22

Job Ticket: 17404

DST#: 4

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Test Start: 2013.01.14 @ 01:20:00

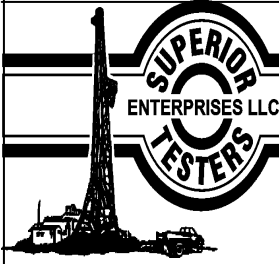
Tool Information

Drill Pipe:	Length: 3406.00 ft	Diameter: 3.80 inches	Volume: 47.78 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: 51000.00 lb
			<u>Total Volume: 47.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3420.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 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			3397.00	
Hydraulic Tool	5.00			3402.00	
Safety Joint	2.00			3404.00	
Jars	6.00			3410.00	
Packer	5.00			3415.00	28.00 Bottom Of Top Packer
Packer	5.00			3420.00	
Anchor	18.00			3438.00	
Recorder	1.00	8405	Inside	3439.00	
Recorder	1.00	8400	Outside	3440.00	
Bullnose	3.00			3443.00	23.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



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FLUID SUMMARY

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DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.01.14 @ 01:20:00

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: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 9700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

