



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 E. Central STE 100
Wichita Kansas, 67208-2563

ATTN: Frank Greenbaum

Mermis "B" #1-31

31-20s-15w-Barton

Start Date: 2013.04.21 @ 01:15:00

End Date: 2013.04.21 @ 07:44:30

Job Ticket #: 17571 DST #: 2

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

Printed: 2013.04.21 @ 08:04:51



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 Test Start: 2013.04.21 @ 01:15:00

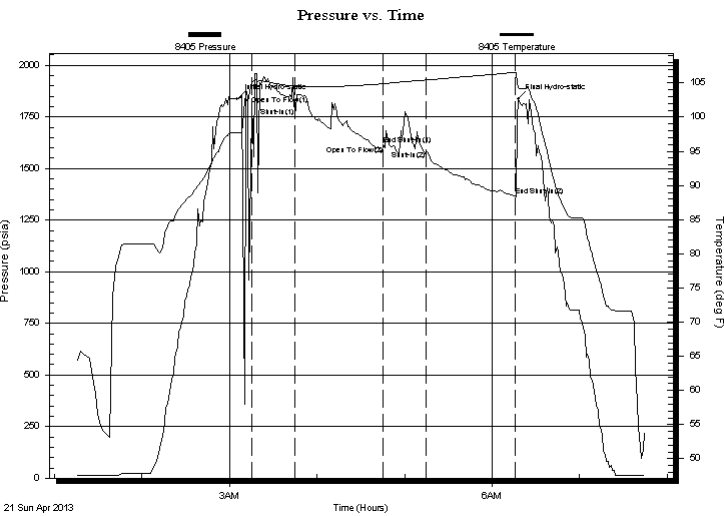
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:15:30
 Time Test Ended: 07:44:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/50/Great Bend
 Interval: **3779.00 ft (KB) To 3786.00 ft (KB) (TVD)**
 Reference Elevations: 2001.00 ft (KB)
 Total Depth: 3786.00 ft (KB) (TVD)
 1993.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

Serial #: 8405

Press @ RunDepth: 1587.96 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.21 End Date: 2013.04.21 Last Calib.: 2013.04.21
 Start Time: 01:15:00 End Time: 07:44:30 Time On Btm: 2013.04.21 @ 03:05:30
 Time Off Btm: 2013.04.21 @ 06:18:00

TEST COMMENT: 1st Open/ 30 Minutes. Fair Blow built to 3 inches in 5 gallon bucket.
 1st Shut In/ 60 Minutes. No blow back
 2nd Open/ 30 Minutes. Weak blow built to 1.5 inches in 5 gallon bucket.
 2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1837.70	97.74	Initial Hydro-static
10	1808.80	105.08	Open To Flow (1)
40	1793.01	104.52	Shut-In(1)
100	1614.70	104.90	End Shut-In(1)
100	1612.98	104.91	Open To Flow (2)
130	1587.96	105.44	Shut-In(2)
190	1365.85	106.54	End Shut-In(2)
193	1836.80	104.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% mud	0.91

Gas Rates

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



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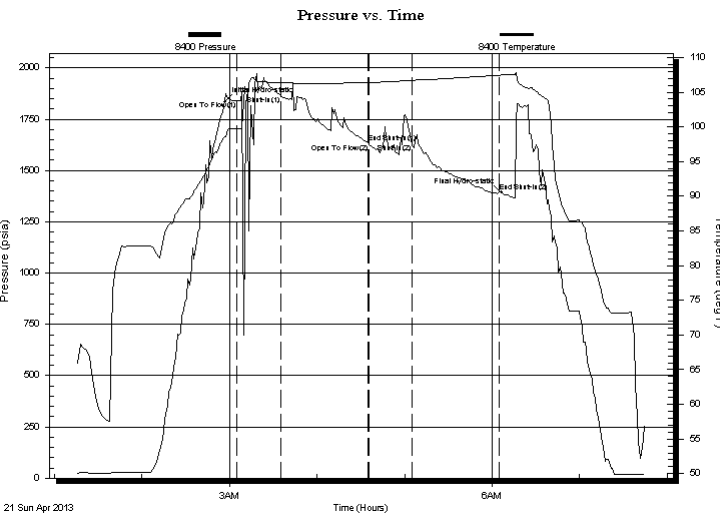
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 Test Type: Conventional Bottom Hole (Initial)
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 Reference Elevations: 2001.00 ft (KB)
 Total Depth: 3786.00 ft (KB) (TVD) 1993.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

Serial #: 8400

Press @ RunDepth: 1398.19 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.21 End Date: 2013.04.21 Last Calib.: 2013.04.21
 Start Time: 01:15:00 End Time: 07:44:30 Time On Btm: 2013.04.21 @ 02:57:00
 Time Off Btm: 2013.04.21 @ 06:06:30

TEST COMMENT: 1st Open/ 30 Minutes. Fair Blow built to 3 inches in 5 gallon bucket.
 1st Shut In/ 60 Minutes. No blow back
 2nd Open/ 30 Minutes. Weak blow built to 1.5 inches in 5 gallon bucket.
 2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1835.22	98.66	Initial Hydro-static
8	1840.24	99.79	Open To Flow (1)
38	1864.22	106.38	Shut-In(1)
98	1636.80	106.39	End Shut-In(1)
99	1632.23	106.39	Open To Flow (2)
128	1630.74	106.71	Shut-In(2)
188	1398.19	107.46	End Shut-In(2)
190	1392.48	107.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	100% mud	0.91

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC
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Tool Information

Drill Pipe:	Length: 3783.00 ft	Diameter: 3.80 inches	Volume: 53.07 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: 53.07 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3779.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: After test tool was full of very thick mud and a lot of large cuttings.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3756.00	
Hydraulic Tool	5.00			3761.00	
Jars	6.00			3767.00	
Safety Joint	2.00			3769.00	
Packer	5.00			3774.00	28.00 Bottom Of Top Packer
Packer	5.00			3779.00	
Anchor	2.00			3781.00	
Recorder	1.00	8405	Inside	3782.00	
Recorder	1.00	8400	Outside	3783.00	
Bullnose	3.00			3786.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



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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: 7.99 in³
Resistivity: ohm.m
Salinity: 3800.00 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
65.00	100% mud	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mud w as very thick.

