



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: 2013.04.20 @ 01:00:00

End Date: 2013.04.20 @ 06:41:30

Job Ticket #: 17570 DST #: 1

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

Printed: 2013.04.20 @ 19:02:53



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31-20s-15w-Barton
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 Job Ticket: 17570 **DST#: 1**
 Test Start: 2013.04.20 @ 01:00:00

GENERAL INFORMATION:

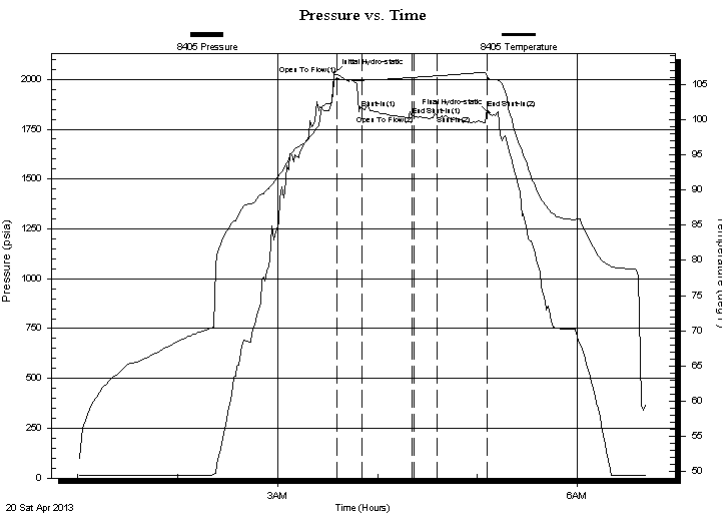
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:35:30
 Time Test Ended: 06:41:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/50/Great Bend
 Interval: **3778.00 ft (KB) To 3784.00 ft (KB) (TVD)**
 Total Depth: 3784.00 ft (KB) (TVD)
 Reference Elevations: 2001.00 ft (KB)
 1993.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 KB to GR/CF: 8.00 ft

Serial #: 8405

Inside

Press @ RunDepth: 1817.98 psia @ 3780.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.20 End Date: 2013.04.20 Last Calib.: 2013.04.20
 Start Time: 01:00:00 End Time: 06:41:30 Time On Btm: 2013.04.20 @ 03:34:00
 Time Off Btm: 2013.04.20 @ 05:07:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1/2 inche in 5 gallon bucket.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 15 Minutes. Weak surface blow.
 2nd Shut In/ 30 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2031.07	105.61	Initial Hydro-static
2	2022.43	105.74	Open To Flow (1)
17	1852.67	105.58	Shut-In(1)
47	1817.56	105.94	End Shut-In(1)
48	1817.18	105.96	Open To Flow (2)
62	1817.98	106.19	Shut-In(2)
92	1854.92	106.19	End Shut-In(2)
93	1830.12	105.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.14

Gas Rates

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



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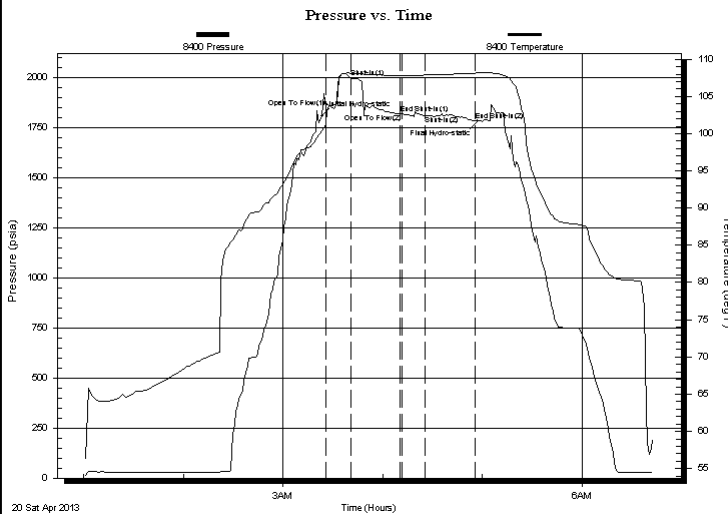
31-20s-15w-Barton
Mermis "B" #1-31
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 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:35:30
 Time Test Ended: 06:41:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/50/Great Bend
 Interval: **3778.00 ft (KB) To 3784.00 ft (KB) (TVD)**
 Reference Elevations: 2001.00 ft (KB)
 Total Depth: 3784.00 ft (KB) (TVD)
 1993.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 8.00 ft

Serial #: 8400 Outside
 Press @ Run Depth: 1784.97 psia @ 3781.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.20 End Date: 2013.04.20 Last Calib.: 2013.04.20
 Start Time: 01:00:00 End Time: 06:42:30 Time On Btm: 2013.04.20 @ 03:23:30
 Time Off Btm: 2013.04.20 @ 04:57:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1/2 inche in 5 gallon bucket.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 15 Minutes. Weak surface blow.
 2nd Shut In/ 30 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1810.53	100.43	Initial Hydro-static
2	1850.12	101.25	Open To Flow (1)
17	2002.23	108.13	Shut-In(1)
47	1818.93	107.84	End Shut-In(1)
48	1818.86	107.83	Open To Flow (2)
62	1812.25	107.88	Shut-In(2)
92	1784.97	108.13	End Shut-In(2)
94	1783.32	108.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.14

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC
 9431 E. Central STE 100
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31-20s-15w-Barton
Mermis "B" #1-31
 Job Ticket: 17570 **DST#: 1**
 Test Start: 2013.04.20 @ 01:00:00

Tool Information

Drill Pipe:	Length: 3781.00 ft	Diameter: 3.80 inches	Volume: 53.04 bbl	Tool Weight: 20000.00 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: 60000.00 lb
			<u>Total Volume: 53.04 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3778.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3755.00	
Hydraulic Tool	5.00			3760.00	
Jars	6.00			3766.00	
Safety Joint	2.00			3768.00	
Packer	5.00			3773.00	28.00 Bottom Of Top Packer
Packer	5.00			3778.00	
Anchor	1.00			3779.00	
Recorder	1.00	8405	Inside	3780.00	
Recorder	1.00	8400	Outside	3781.00	
Bullnose	3.00			3784.00	6.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



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FLUID SUMMARY

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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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

