



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

Mermis"A"Unit #1-21

21-20s-15w Barton

Start Date: 2012.09.24 @ 05:30:00

End Date: 2012.09.24 @ 10:16:30

Job Ticket #: 17756 DST #: 6

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

Printed: 2012.09.24 @ 10:34:09



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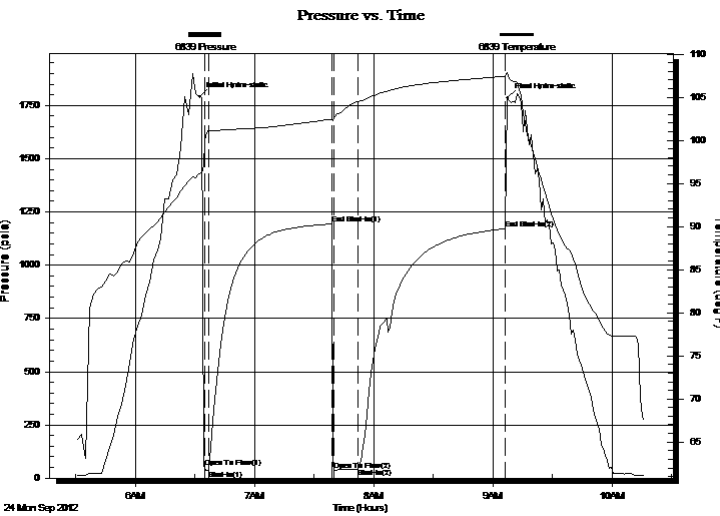
21-20s-15w Barton
Mermis"A"Unit #1-21
 Job Ticket: 17756 **DST#: 6**
 Test Start: 2012.09.24 @ 05:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:35:00 Tester: Gene Budig
 Time Test Ended: 10:16:30 Unit No: 3335
 Interval: **3760.00 ft (KB) To 3770.00 ft (KB) (TVD)** Reference Elevations: 2012.00 ft (KB)
 Total Depth: 3770.00 ft (KB) (TVD) 2004.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6839 Outside
 Press @ Run Depth: 45.30 psia @ 3767.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.24 End Date: 2012.09.24 Last Calib.: 2012.09.24
 Start Time: 05:30:00 End Time: 10:16:30 Time On Btm: 2012.09.24 @ 06:32:30
 Time Off Btm: 2012.09.24 @ 09:07:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built to the bottom of a 5 gallon bucket in 30 seconds
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow decreased to a weak building blow no gas to surface
 2nd Shut-In- 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1789.94	96.08	Initial Hydro-static
3	49.54	99.95	Open To Flow (1)
5	35.45	101.17	Shut-In(1)
67	1193.15	102.46	End Shut-In(1)
68	38.97	102.60	Open To Flow (2)
80	45.30	104.51	Shut-In(2)
154	1171.40	107.43	End Shut-In(2)
155	1784.20	107.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oil cugt mud	0.70

Gas Rates

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



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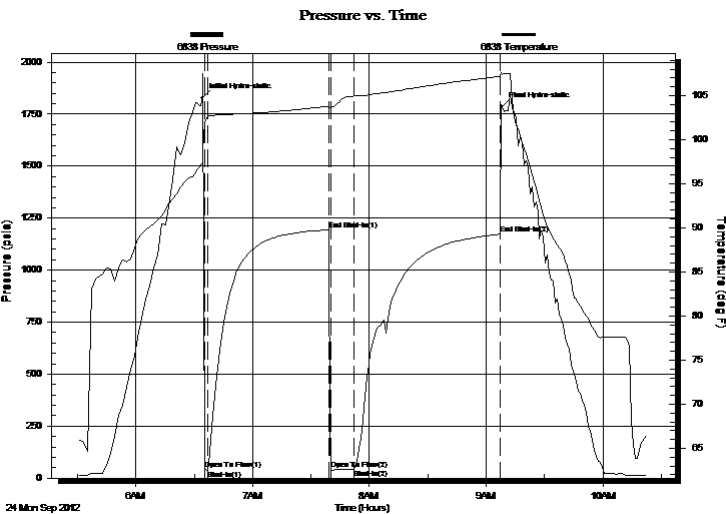
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Serial #: 6838 Inside
 Press @ Run Depth: 1172.55 psia @ 3766.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.24 End Date: 2012.09.24 Last Calib.: 2012.09.24
 Start Time: 05:30:00 End Time: 10:22:30 Time On Btm: 2012.09.24 @ 06:34:00
 Time Off Btm: 2012.09.24 @ 09:08:00

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built to the bottom of a 5 gallon bucket in 30 seconds
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow decreased to a weak building blow no gas to surface
 2nd Shut-In- 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1828.92	97.42	Initial Hydro-static
2	40.93	101.95	Open To Flow (1)
3	36.10	102.58	Shut-In(1)
65	1193.81	103.81	End Shut-In(1)
66	41.99	103.65	Open To Flow (2)
78	44.33	104.95	Shut-In(2)
153	1172.55	107.17	End Shut-In(2)
154	1787.69	107.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oil cugt mud	0.70

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company LLC

21-20s-15w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Mermis"A"Unit #1-21

Job Ticket: 17756

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2012.09.24 @ 05:30:00

Tool Information

Drill Pipe:	Length: 3759.00 ft	Diameter: 3.80 inches	Volume: 52.73 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: 69000.00 lb
			<u>Total Volume: 52.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3760.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3732.00	
Shut-In Tool	5.00			3737.00	
Hydroic Tool	5.00			3742.00	
Jars	6.00			3748.00	
Safety Joint	2.00			3750.00	
Packer	5.00			3755.00	29.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Perforations	5.00			3765.00	
Recorder	1.00	6838	Inside	3766.00	
Recorder	1.00	6839	Outside	3767.00	
Bullnose	3.00			3770.00	10.00 Bottom Packers & Anchor

Total Tool Length: 39.00



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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:	53.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	9.20 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	6800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Oil cut mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

