



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central
Suite 100
Wichita, Kansas 67206+2563

ATTN: Frank Greenbaum

Cantrell Unit #1-26

26/17S/15W/Barton

Start Date: 2012.09.22 @ 17:08:00

End Date: 2012.09.22 @ 22:04:30

Job Ticket #: 17837 DST #: 5

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

Printed: 2012.09.22 @ 22:20:28

FG Holl Company LLC

26/17S/15W/Barton

Cantrell Unit #1-26

DST # 5

Lansing/Kansas City

2012.09.22



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 ATTN: Frank Greenbaum

26/17S/15W/Barton

Cantrell Unit #1-26

Job Ticket: 17837

DST#: 5

Test Start: 2012.09.22 @ 17:08:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:58:30

Time Test Ended: 22:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

Interval: 3482.00 ft (KB) To 3538.00 ft (KB) (TVD)

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3538.00 ft (KB) (TVD)

2012.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6749 Inside

Press @ Run Depth: 56.99 psia @ 3533.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.22

End Date: 2012.09.22

Last Calib.: 2012.09.22

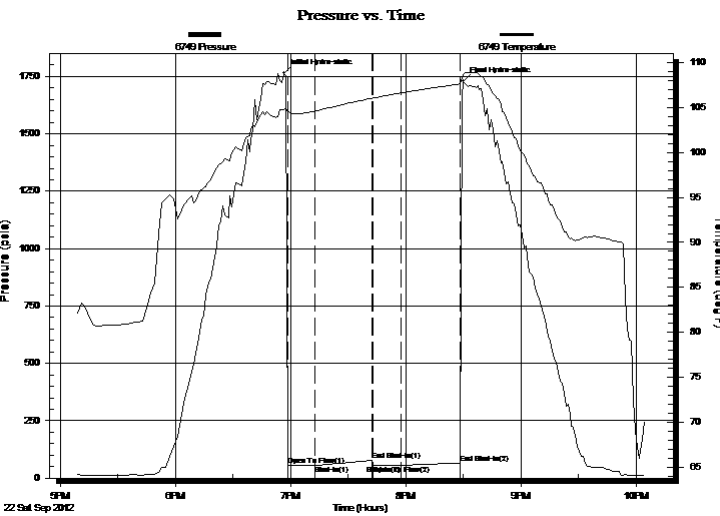
Start Time: 17:08:00

End Time: 22:04:30

Time On Btm: 2012.09.22 @ 18:56:30

Time Off Btm: 2012.09.22 @ 20:30:00

TEST COMMENT: 1ST Open 15 Minutes/Weak blow/Blow built to 1/4 inch then died to weak surface blow
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Dead/No blow
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1763.70	104.81	Initial Hydro-static
2	55.54	104.50	Open To Flow (1)
16	56.31	104.59	Shut-In(1)
46	76.89	106.04	End Shut-In(1)
47	56.53	106.05	Open To Flow (2)
61	56.99	106.62	Shut-In(2)
93	62.81	107.62	End Shut-In(2)
94	1729.07	108.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with show of oil/ Mud 100%	0.07

Gas Rates

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



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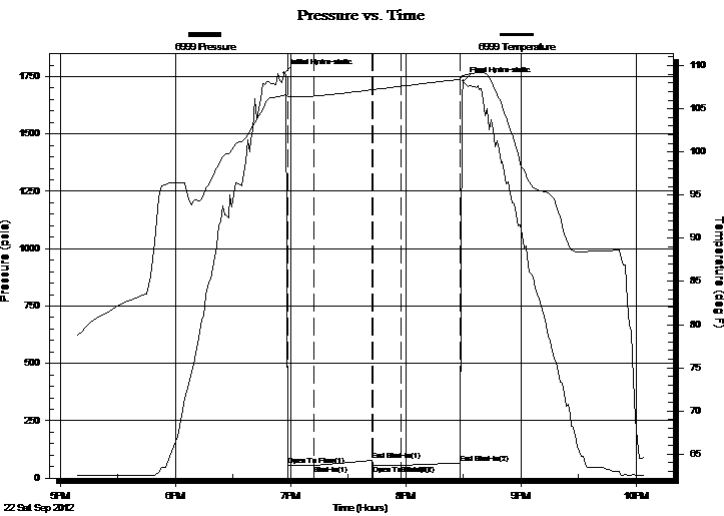
26/17S/15W/Barton
Cantrell Unit #1-26
 Job Ticket: 17837 **DST#: 5**
 Test Start: 2012.09.22 @ 17:08:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:58:30
 Time Test Ended: 22:04:30
 Interval: **3482.00 ft (KB) To 3538.00 ft (KB) (TVD)**
 Total Depth: 3538.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/40
 Reference Elevations: 2023.00 ft (KB)
 2012.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6999 Outside
 Press @ RunDepth: 62.84 psia @ 3534.49 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.22
 Start Time: 17:08:00 End Time: 22:04:30 Time On Btm: 2012.09.22 @ 18:56:30
 Time Off Btm: 2012.09.22 @ 20:30:00

TEST COMMENT: 1ST Open 15 Minutes/Weak blow/Blow built to 1/4 inch then died to weak surface blow
 1ST Shut In 30 Minutes/No blow back
 2ND Open 15 Minutes/Dead/No blow
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1764.60	106.51	Initial Hydro-static
2	55.58	106.36	Open To Flow (1)
16	56.60	106.47	Shut-In(1)
46	76.92	107.20	End Shut-In(1)
47	56.38	107.21	Open To Flow (2)
61	56.95	107.61	Shut-In(2)
93	62.84	108.42	End Shut-In(2)
94	1729.23	108.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with show of oil/ Mud 100%	0.07

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC

26/17S/15W/Barton

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ATTN: Frank Greenbaum

Cantrell Unit #1-26

Job Ticket: 17837

DST#: 5

Test Start: 2012.09.22 @ 17:08:00

Tool Information

Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 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: 70000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3482.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.49 ft			
Tool Length:	82.49 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3460.00	
Hydraulic Tool	5.00			3465.00	
Jars	5.00			3470.00	
Safety Joint	2.00			3472.00	
Packer	5.00			3477.00	27.00 Bottom Of Top Packer
Packer	5.00			3482.00	
Perforations	3.00			3485.00	
Change Over Sub	0.75			3485.75	
Drill Pipe	30.99			3516.74	
Change Over Sub	0.75			3517.49	
Anchor	15.00			3532.49	
Recorder	1.00	6749	Inside	3533.49	
Recorder	1.00	6999	Outside	3534.49	
Bullnose	3.00			3537.49	55.49 Bottom Packers & Anchor

Total Tool Length: 82.49



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FLUID SUMMARY

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DST#: 5

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 4500.00 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
5.00	Mud with show of oil/ Mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

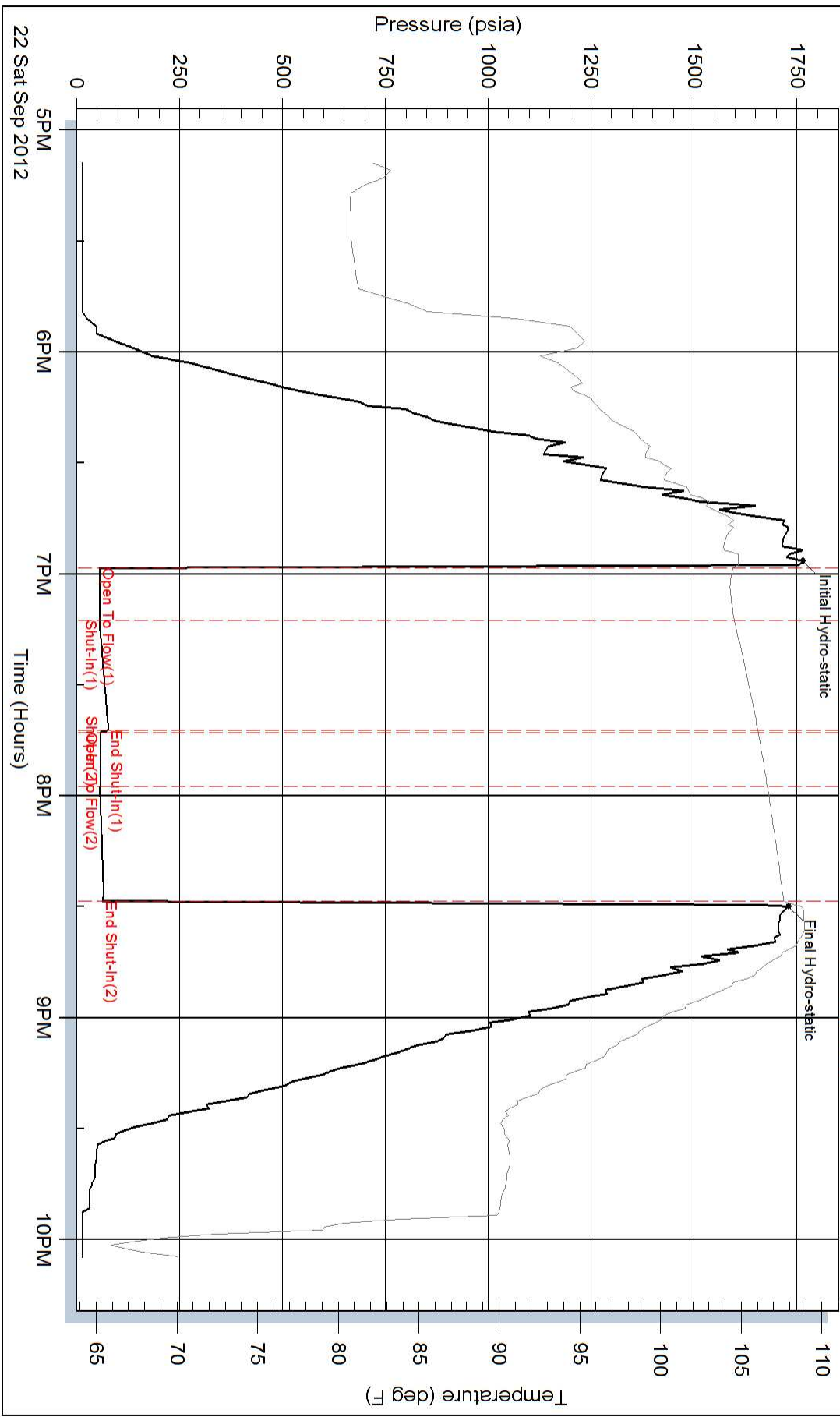
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

