



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1097959  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1097959

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	Cantrell Unit 1-26
Doc ID	1097959

All Electric Logs Run

DIL
CNL/CDL
BHCS
Microresistivity
CPI
Sector Bond log
fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	Cantrell Unit 1-26
Doc ID	1097959

Tops

Name	Top	Datum
Herrington	1921	+99
Winfield	1966	+54
Towanda	2036	-16
Fort Riley	2073	-53
B/Florence	2168	-148
Wrefold	2211	-191
Council Grove	2230	-210
Crouse	2258	-238
Neva	2401	-381
Red Eagle	2469	-449
Onaga Shale	2610	-590
Wabaunsee	2631	-611
Stotler	2740	-720
Tarkio	2799	-779
Howard	2937	-917
Topeka	3007	-987
Heebner	3240	-1220
Toronto	3257	-1237
Douglas Shale	3272	-1252
Brown Lime	3306	-1286
LKC	3321	-1301
BKC	3532	-1512
Arbuckle	3565	-1545
RTD	3750	-1730

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	Cantrell Unit 1-26
Doc ID	1097959

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3570' - 3575' Arbuckle	Spotted w/ 250 gal 10% acetic acid	
4	3575' - 3577'	Spotted w/ 250 gal 15% fe acid	
	3465' - 69', 3479' - 85'	Spotted 250 gal 15% dsfe acid	
	CIBP set at 3534' above Arbuckle perms	Spotted w/ 500 gal 15% NEFE	
		Treat KC J zone w/ 750 gal 15% NEFE	
		Treat KC I & J w/ 1000 gal 15% NEFE	

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 18, 2012

Franklin R. Greenbaum  
F. G. Holl Company L.L.C.  
9431 E CENTRAL STE 100  
WICHITA, KS 67206-2563

Re: ACO1  
API 15-009-25747-00-00  
Cantrell Unit 1-26  
SW/4 Sec.26-17S-15W  
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Franklin R. Greenbaum



## 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: 2012.09.20 @ 08:05:00

End Date: 2012.09.20 @ 14:50:30

Job Ticket #: 17833                      DST #: 1

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

Printed: 2012.09.20 @ 15:07:39

FG Holl Company LLC

26/17S/15W/Barton

Cantrell Unit #1-26

DST # 1

Lansing/Kansas City

2012.09.20







# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 ATTN: Frank Greenbaum

**26/17S/15W/Barton**  
**Cantrell Unit #1-26**  
 Job Ticket: 17833      **DST#: 1**  
 Test Start: 2012.09.20 @ 08:05:00

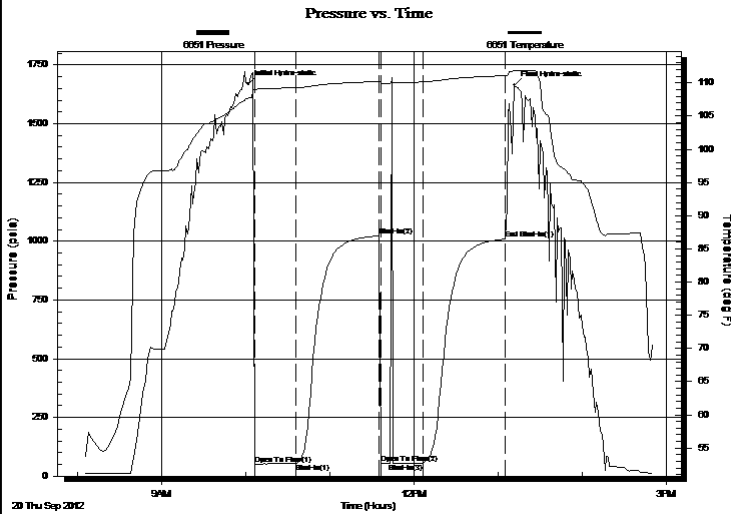
## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:05:30      Tester: Ken Swinney  
 Time Test Ended: 14:50:30      Unit No: 3325 Great Bend/40  
**Interval: 3360.00 ft (KB) To 3394.00 ft (KB) (TVD)**      Reference Elevations: 2023.00 ft (KB)  
 Total Depth: 3394.00 ft (KB) (TVD)      2012.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Fair      KB to GR/CF: 11.00 ft

## Serial #: 6651      Outside

Press @ RunDepth: 1009.25 psia @ 3391.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.09.20      End Date: 2012.09.20      Last Calib.: 2012.09.20  
 Start Time: 08:05:00      End Time: 14:50:23      Time On Btm: 2012.09.20 @ 10:01:53  
    Time Off Btm: 2012.09.20 @ 13:11:53

**TEST COMMENT:** 1ST Open 30 Minutes/Slide 5 foot/Weak blow/Blow built to 1 inch in bucket of water  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Dead/No blow/Flush tool didnt help  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1668.08	107.70	Initial Hydro-static
5	49.02	108.92	Open To Flow (1)
34	53.24	109.30	Shut-In(1)
94	1022.72	110.24	Shut-In(2)
95	53.26	109.98	Open To Flow (2)
125	53.46	110.16	Shut-In(3)
184	1009.25	111.08	End Shut-In(1)
190	1664.08	111.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17833

**DST#: 1**

Test Start: 2012.09.20 @ 08:05:00

## Tool Information

Drill Pipe:	Length: 3341.00 ft	Diameter: 3.80 inches	Volume: 46.87 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: 85000.00 lb
			<u>Total Volume: 46.87 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3360.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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			3338.00	
Hydraulic Tool	5.00			3343.00	
Jars	5.00			3348.00	
Safety Joint	2.00			3350.00	
Packer	5.00			3355.00	27.00 Bottom Of Top Packer
Packer	5.00			3360.00	
Anchor	29.00			3389.00	
Recorder	1.00	6749	Inside	3390.00	
Recorder	1.00	6651	Outside	3391.00	
Bullnose	3.00			3394.00	34.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>61.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17833

**DST#: 1**

Test Start: 2012.09.20 @ 08:05:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
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
15.00	Mud 100%	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

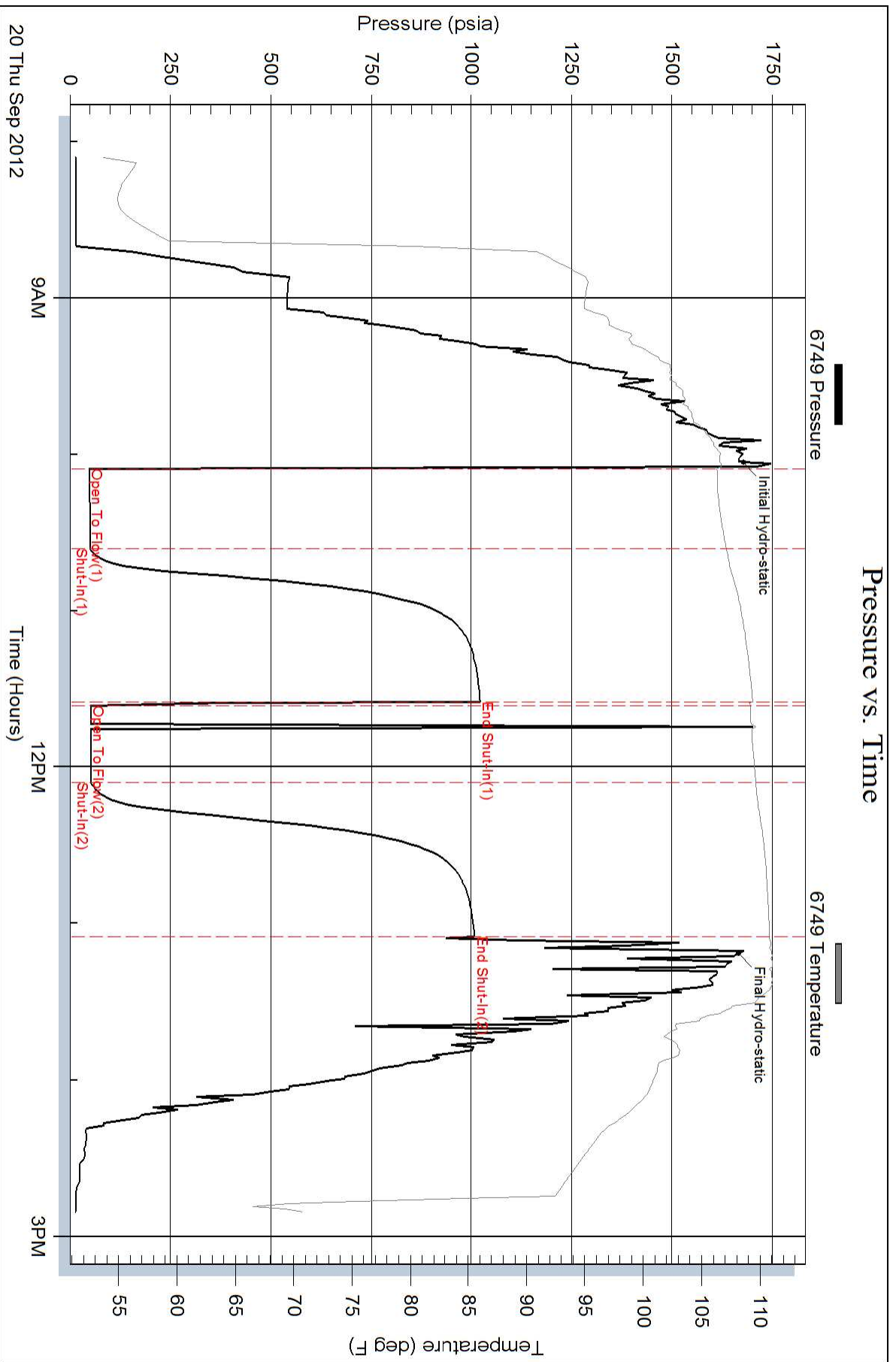
Serial #:

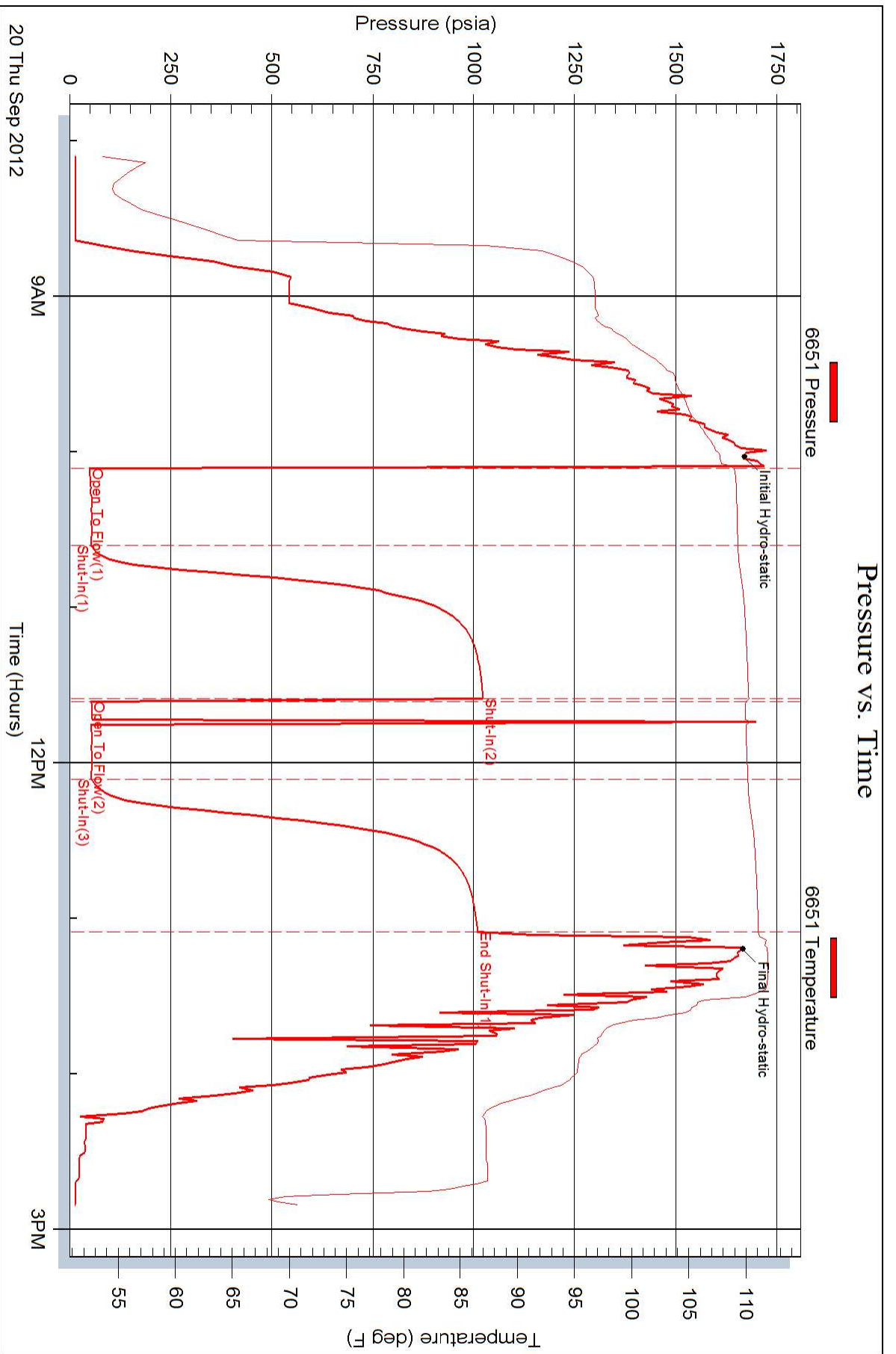
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## 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: 2012.09.20 @ 15:31:00

End Date: 2012.09.20 @ 20:05:00

Job Ticket #: 17834                      DST #: 2

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

Printed: 2012.09.20 @ 20:15:51

FG Holl Company LLC

26/17S/15W/Barton

Cantrell Unit #1-26

DST # 2

Lansing/Kansas City

2012.09.20



# DRILL STEM TEST REPORT

FG Holl Company LLC

26/17S/15W/Barton

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17834

**DST#: 2**

Test Start: 2012.09.20 @ 15:31:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:58:30

Time Test Ended: 20:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

**Interval: 3309.00 ft (KB) To 3394.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3394.00 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 @ RunDepth: 79.40 psia @ 3389.58 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.20 End Date: 2012.09.20

Last Calib.: 2012.09.20

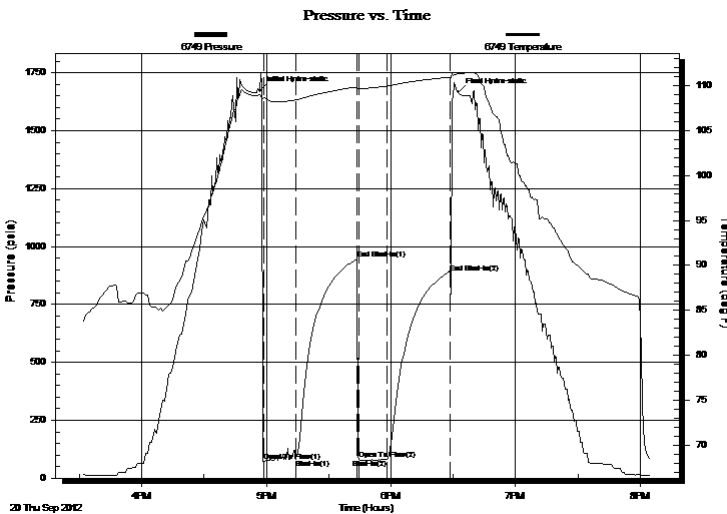
Start Time: 15:31:00 End Time: 20:05:00

Time On Btm: 2012.09.20 @ 16:57:00

Time Off Btm: 2012.09.20 @ 18:32:30

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow/Blow built to just below surface  
1ST Shut In 30 Minutes/No blow back  
2ND Open 15 Minutes/Very weak blow/Surface blow died in 5 minutes  
2ND Shut In 30 Minutes/No blow back

## PRESSURE SUMMARY



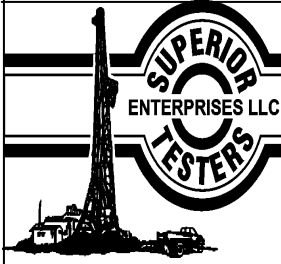
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1672.31	108.98	Initial Hydro-static
2	73.54	108.52	Open To Flow (1)
17	82.42	108.41	Shut-In(1)
47	945.88	109.85	End Shut-In(1)
48	79.97	109.66	Open To Flow (2)
62	79.40	109.95	Shut-In(2)
92	885.93	110.94	End Shut-In(2)
96	1665.52	111.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%	0.35

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 ATTN: Frank Greenbaum

**26/17S/15W/Barton**  
**Cantrell Unit #1-26**  
 Job Ticket: 17834 **DST#: 2**  
 Test Start: 2012.09.20 @ 15:31:00

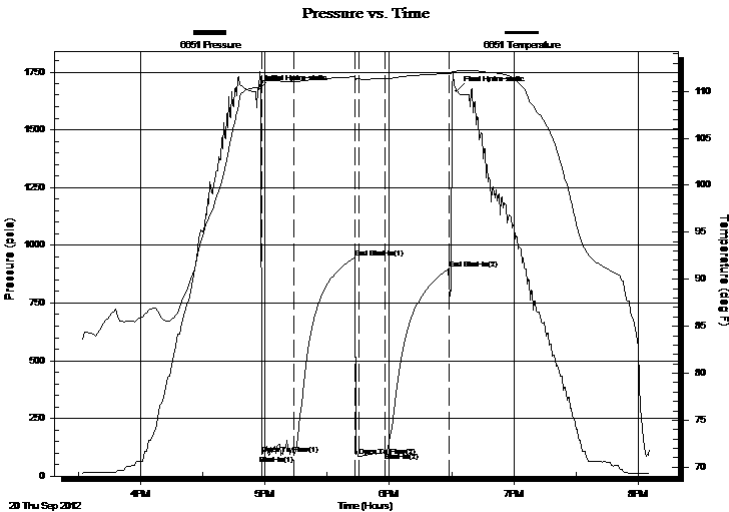
## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:58:30  
 Time Test Ended: 20:05:00  
 Interval: **3309.00 ft (KB) To 3394.00 ft (KB) (TVD)**  
 Total Depth: 3394.00 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 #: 6651 Outside**  
 Press @ RunDepth: 895.45 psia @ 3390.58 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.09.20 End Date: 2012.09.20 Last Calib.: 2012.09.20  
 Start Time: 15:31:00 End Time: 20:05:30 Time On Btm: 2012.09.20 @ 16:57:00  
 Time Off Btm: 2012.09.20 @ 18:32:30

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow/Blow built to just below surface  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Very weak blow/Surface blow died in 5 minutes  
 2ND Shut In 30 Minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1674.97	110.41	Initial Hydro-static
2	93.06	110.62	Open To Flow (1)
17	89.24	111.02	Shut-In(1)
47	946.97	111.55	End Shut-In(1)
48	86.66	111.31	Open To Flow (2)
61	103.64	111.35	Shut-In(2)
92	895.45	111.89	End Shut-In(2)
96	1669.09	112.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100%	0.35

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17834

**DST#: 2**

Test Start: 2012.09.20 @ 15:31:00

## Tool Information

Drill Pipe:	Length: 3309.00 ft	Diameter: 3.80 inches	Volume: 46.42 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: 68000.00 lb
			<u>Total Volume: 46.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3309.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.58 ft			
Tool Length:	111.58 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3287.00	
Hydraulic Tool	5.00			3292.00	
Jars	5.00			3297.00	
Safety Joint	2.00			3299.00	
Packer	5.00			3304.00	27.00 Bottom Of Top Packer
Packer	5.00			3309.00	
Perforations	5.00			3314.00	
Change Over Sub	0.75			3314.75	
Drill Pipe	63.08			3377.83	
Change Over Sub	0.75			3378.58	
Anchor	10.00			3388.58	
Recorder	1.00	6749	Inside	3389.58	
Recorder	1.00	6651	Outside	3390.58	
Bullnose	3.00			3393.58	84.58 Bottom Packers & Anchor

**Total Tool Length: 111.58**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17834

**DST#: 2**

Test Start: 2012.09.20 @ 15:31:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
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
25.00	Mud 100%	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

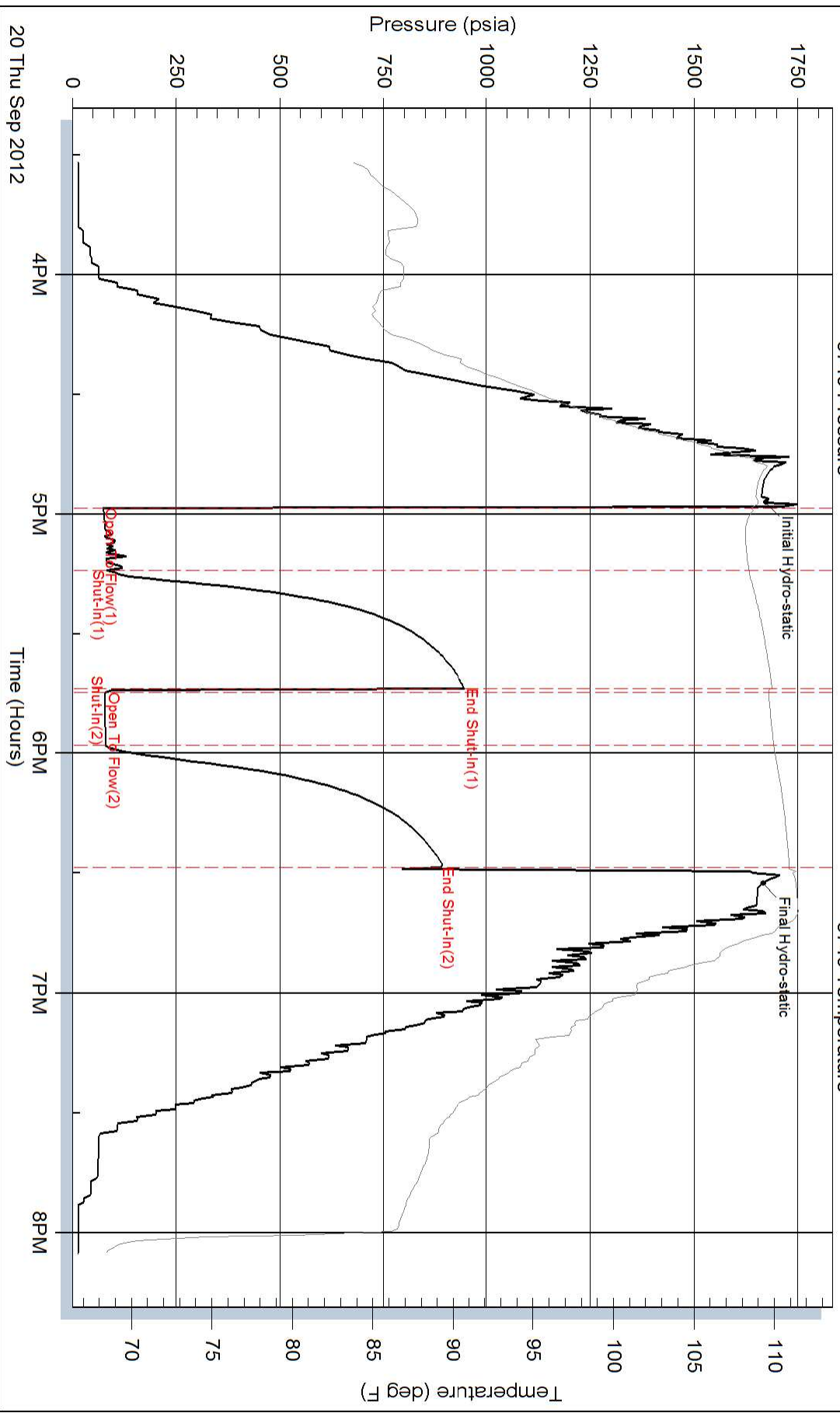
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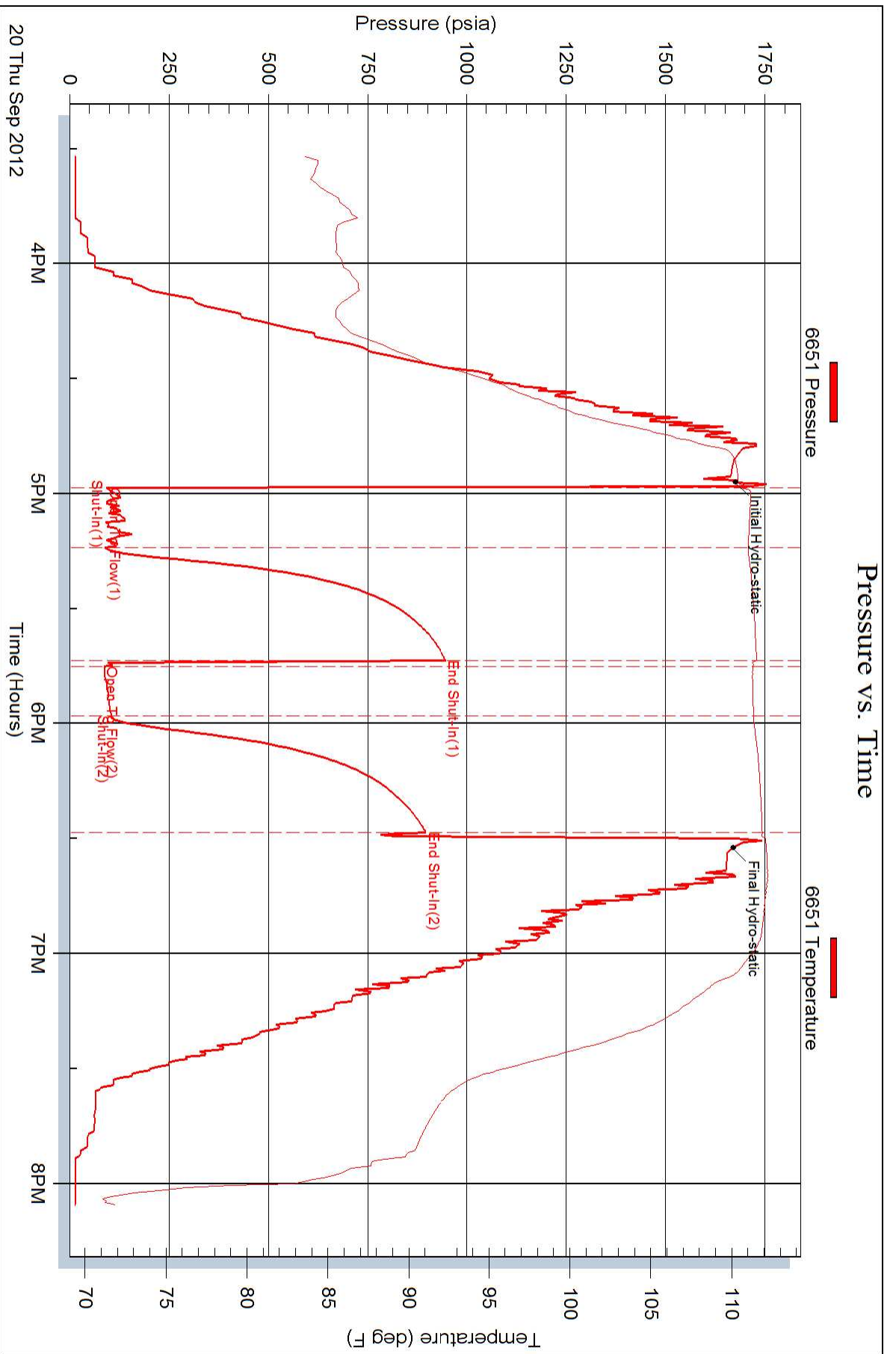
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## 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: 2012.09.21 @ 06:21:00

End Date: 2012.09.21 @ 12:43:00

Job Ticket #: 17835                      DST #: 3

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

Printed: 2012.09.21 @ 12:51:49

FG Holl Company LLC

26/17S/15W/Barton

Cantrell Unit #1-26

DST # 3

Lansing/Kansas City

2012.09.21



# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 ATTN: Frank Greenbaum

**26/17S/15W/Barton**

**Cantrell Unit #1-26**

Job Ticket: 17835      **DST#: 3**  
 Test Start: 2012.09.21 @ 06:21:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock:      ft (KB)

Time Tool Opened: 09:39:30

Time Test Ended: 12:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

**Interval: 3435.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3456.00 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 @ RunDepth: 38.06 psia @ 3452.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.21

End Date: 2012.09.21

Last Calib.: 2012.09.21

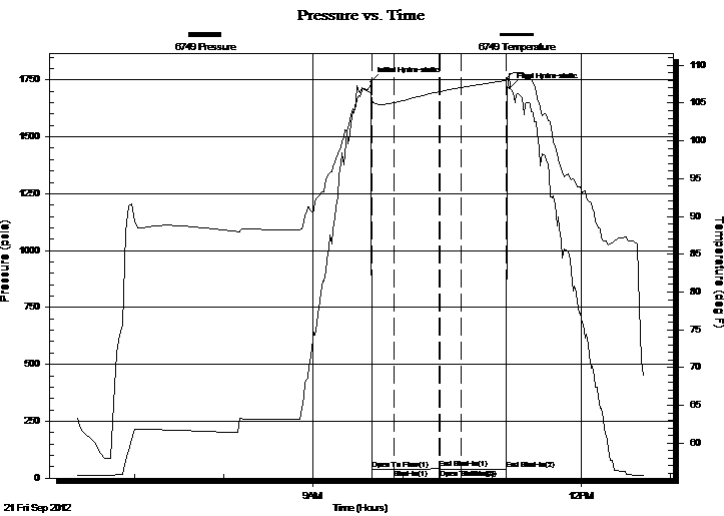
Start Time: 06:21:00

End Time: 12:43:00

Time On Btm: 2012.09.21 @ 09:39:00

Time Off Btm: 2012.09.21 @ 11:12:00

**TEST COMMENT:** 1ST Open 15 Minutes/Very weak blow/Surface blow died in 5 minutes  
 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	1741.75	106.10	Initial Hydro-static
1	37.59	105.41	Open To Flow (1)
15	38.46	105.04	Shut-In(1)
46	41.16	106.50	End Shut-In(1)
46	37.83	106.52	Open To Flow (2)
61	38.06	107.07	Shut-In(2)
91	39.44	107.98	End Shut-In(2)
93	1715.84	108.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Mud in tool 100%	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17835

**DST#: 3**

Test Start: 2012.09.21 @ 06:21:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:39:30

Time Test Ended: 12:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

**Interval: 3435.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2012.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6999 Outside**

Press @ Run Depth: 39.37 psia @ 3453.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.21

End Date: 2012.09.21

Last Calib.: 2012.09.21

Start Time: 06:20:00

End Time: 12:42:30

Time On Btm: 2012.09.21 @ 09:38:00

Time Off Btm: 2012.09.21 @ 11:11:00

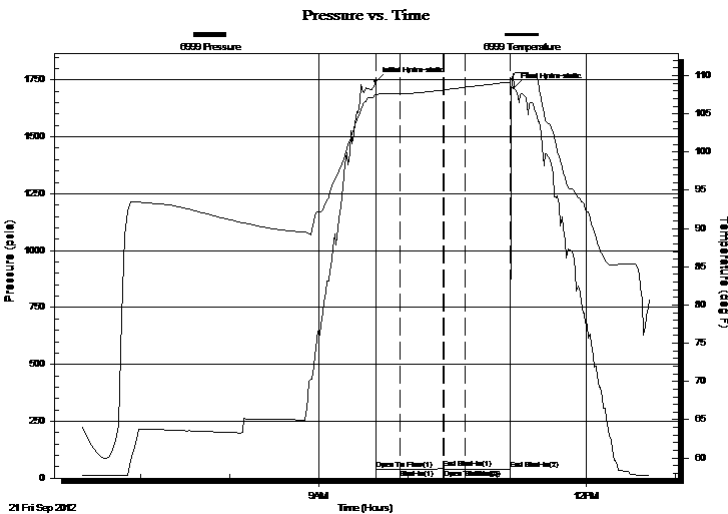
**TEST COMMENT:** 1ST Open 15 Minutes/Very weak blow/Surface blow died in 5 minutes

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	1743.04	107.71	Initial Hydro-static
1	37.86	107.46	Open To Flow (1)
17	38.15	107.62	Shut-In(1)
46	41.18	108.13	End Shut-In(1)
46	37.59	108.14	Open To Flow (2)
61	37.86	108.49	Shut-In(2)
91	39.37	109.15	End Shut-In(2)
93	1715.75	110.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Mud in tool 100%	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17835

**DST#: 3**

Test Start: 2012.09.21 @ 06:21:00

## Tool Information

Drill Pipe:	Length: 3433.00 ft	Diameter: 3.80 inches	Volume: 48.16 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: 78000.00 lb
			<u>Total Volume: 48.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3435.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3413.00	
Hydraulic Tool	5.00			3418.00	
Jars	5.00			3423.00	
Safety Joint	2.00			3425.00	
Packer	5.00			3430.00	27.00 Bottom Of Top Packer
Packer	5.00			3435.00	
Anchor	16.00			3451.00	
Recorder	1.00	6749	Inside	3452.00	
Recorder	1.00	6999	Outside	3453.00	
Bullnose	3.00			3456.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17835

**DST#: 3**

Test Start: 2012.09.21 @ 06:21:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4900.00 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
0.00	Mud in tool 100%	0.000

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

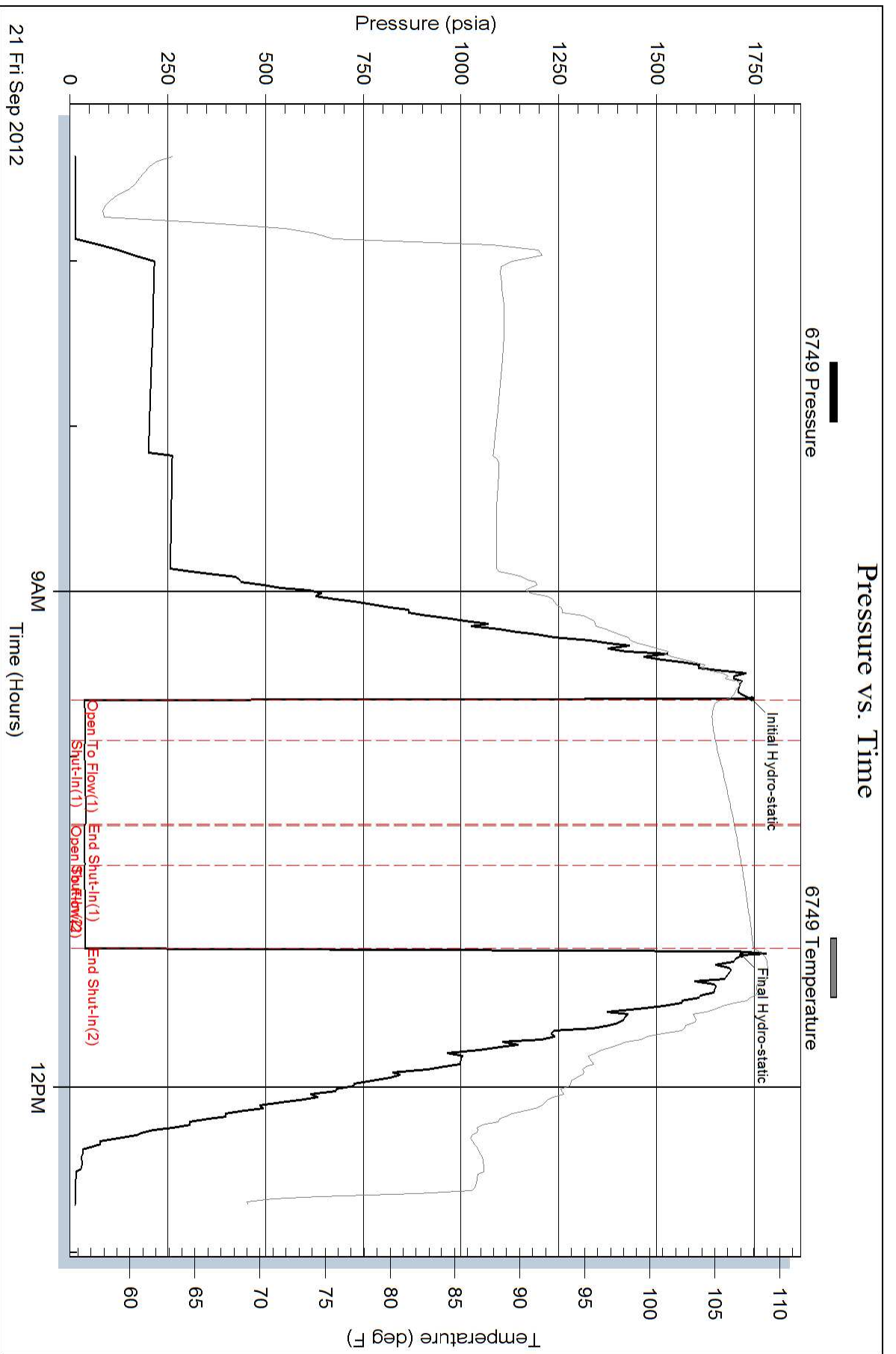
Num Gas Bombs: 0

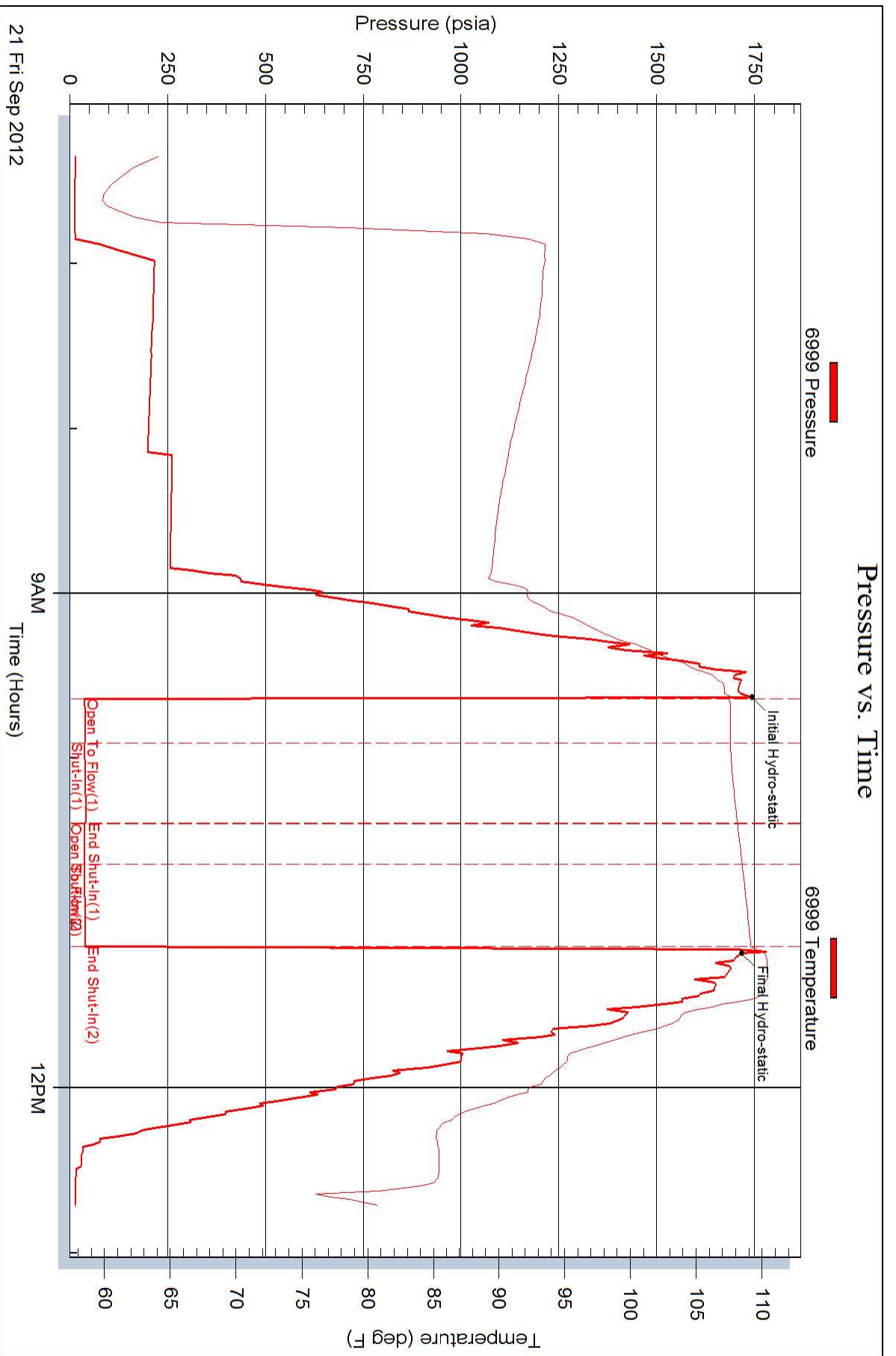
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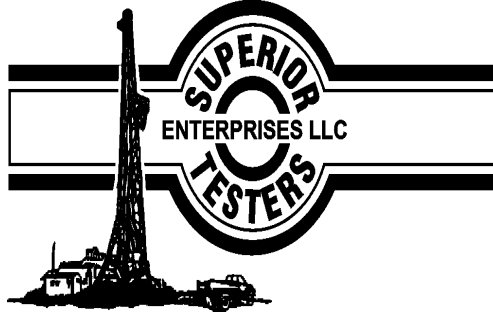
Laboratory Name:

Laboratory Location:

Recovery Comments:







## 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: 2012.09.21 @ 22:15:00

End Date: 2012.09.22 @ 05:53:00

Job Ticket #: 17836                      DST #: 4

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

Printed: 2012.09.22 @ 06:07:18

FG Holl Company LLC

26/17S/15W/Barton

Cantrell Unit #1-26

DST # 4

Lansing/Kansas City

2012.09.21



# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 ATTN: Frank Greenbaum

**26/17S/15W/Barton**

**Cantrell Unit #1-26**

Job Ticket: 17836

**DST#: 4**

Test Start: 2012.09.21 @ 22:15:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:56:30

Time Test Ended: 05:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

**Interval: 3457.00 ft (KB) To 3478.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3478.00 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 @ RunDepth: 128.36 psia @ 3474.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.21

End Date:

2012.09.22

Last Calib.:

2012.09.22

Start Time: 22:15:00

End Time:

05:53:00

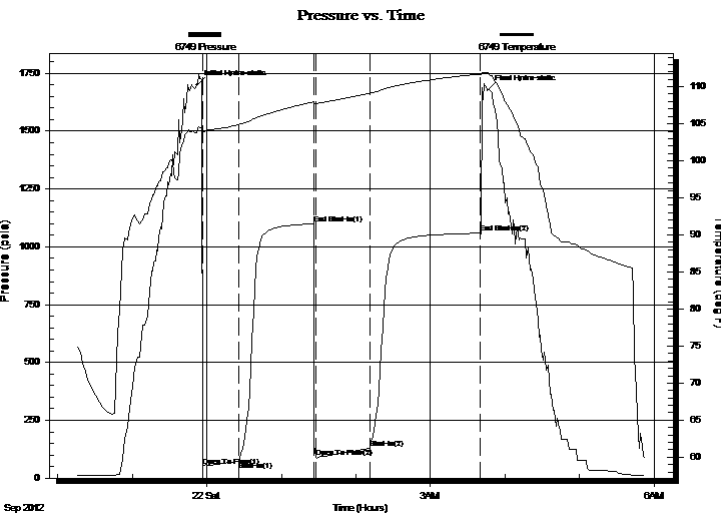
Time On Btm:

2012.09.21 @ 23:52:30

Time Off Btm:

2012.09.22 @ 03:46:30

**TEST COMMENT:** 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 4 1/4 minutes  
 1ST Shut In 60 Minutes/Blow back built to 7 inches  
 2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 40 seconds  
 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 15 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1700.52	104.51	Initial Hydro-static
4	52.53	104.02	Open To Flow (1)
34	74.71	104.90	Shut-In(1)
94	1099.15	107.95	End Shut-In(1)
95	88.87	107.74	Open To Flow (2)
139	128.36	109.10	Shut-In(2)
228	1059.41	111.71	End Shut-In(2)
234	1677.89	111.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
175.00	Clean gassy oil	2.45
0.00	Gas 40% Oil 60%	0.00
90.00	Oil cut Muddy Gas	1.26
0.00	Oil 20% Mud 30% Gas 50%	0.00
0.00	Corrected Specific Grav. Oil 38	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 ATTN: Frank Greenbaum

**26/17S/15W/Barton**

**Cantrell Unit #1-26**

Job Ticket: 17836

**DST#: 4**

Test Start: 2012.09.21 @ 22:15:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:56:30

Time Test Ended: 05:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

Interval: **3457.00 ft (KB) To 3478.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3478.00 ft (KB) (TVD)

2012.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6999 Outside**

Press @ RunDepth: 1059.29 psia @ 3475.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.21

End Date: 2012.09.22

Last Calib.: 2012.09.22

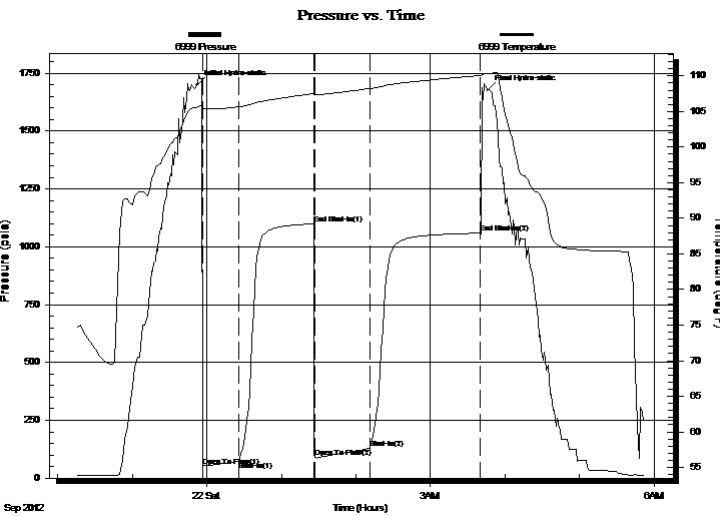
Start Time: 22:15:00

End Time: 05:53:00

Time On Btm: 2012.09.21 @ 23:52:30

Time Off Btm: 2012.09.22 @ 03:46:30

**TEST COMMENT:** 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 4 1/4 minutes  
 1ST Shut In 60 Minutes/Blow back built to 7 inches  
 2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 40 seconds  
 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 15 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1700.65	105.66	Initial Hydro-static
4	52.24	105.47	Open To Flow (1)
33	74.04	105.67	Shut-In(1)
94	1098.93	107.52	End Shut-In(1)
95	88.40	107.34	Open To Flow (2)
139	127.87	108.22	Shut-In(2)
228	1059.29	110.05	End Shut-In(2)
234	1678.01	110.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
175.00	Clean gassy oil	2.45
0.00	Gas 40% Oil 60%	0.00
90.00	Oil cut Muddy Gas	1.26
0.00	Oil 20% Mud 30% Gas 50%	0.00
0.00	Corrected Specific Grav. Oil 38	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17836

**DST#: 4**

Test Start: 2012.09.21 @ 22:15:00

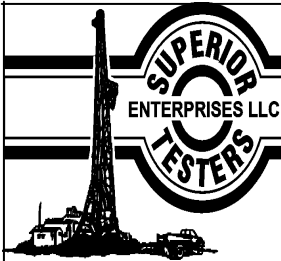
## Tool Information

Drill Pipe:	Length: 3435.00 ft	Diameter: 3.80 inches	Volume: 48.18 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: 55000.00 lb
			<u>Total Volume: 48.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3457.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3435.00	
Hydraulic Tool	5.00			3440.00	
Jars	5.00			3445.00	
Safety Joint	2.00			3447.00	
Packer	5.00			3452.00	27.00 Bottom Of Top Packer
Packer	5.00			3457.00	
Anchor	16.00			3473.00	
Recorder	1.00	6749	Inside	3474.00	
Recorder	1.00	6999	Outside	3475.00	
Bullnose	3.00			3478.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17836

**DST#: 4**

Test Start: 2012.09.21 @ 22:15:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4900.00 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
175.00	Clean gassy oil	2.455
0.00	Gas 40% Oil 60%	0.000
90.00	Oil cut Muddy Gas	1.262
0.00	Oil 20% Mud 30% Gas 50%	0.000
0.00	Corrected Specific Grav. Oil 38	0.000

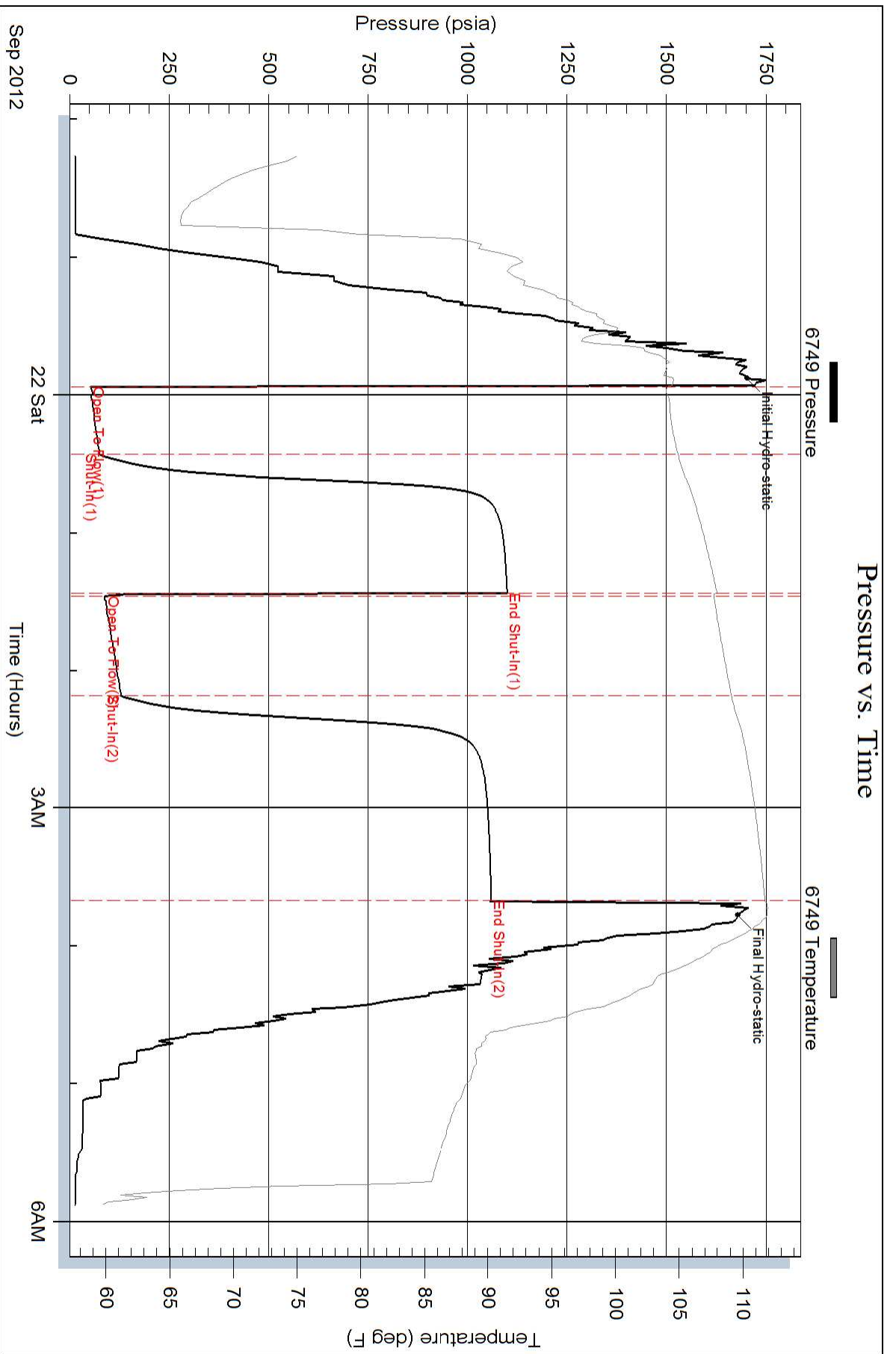
Total Length: 265.00 ft      Total Volume: 3.717 bbl

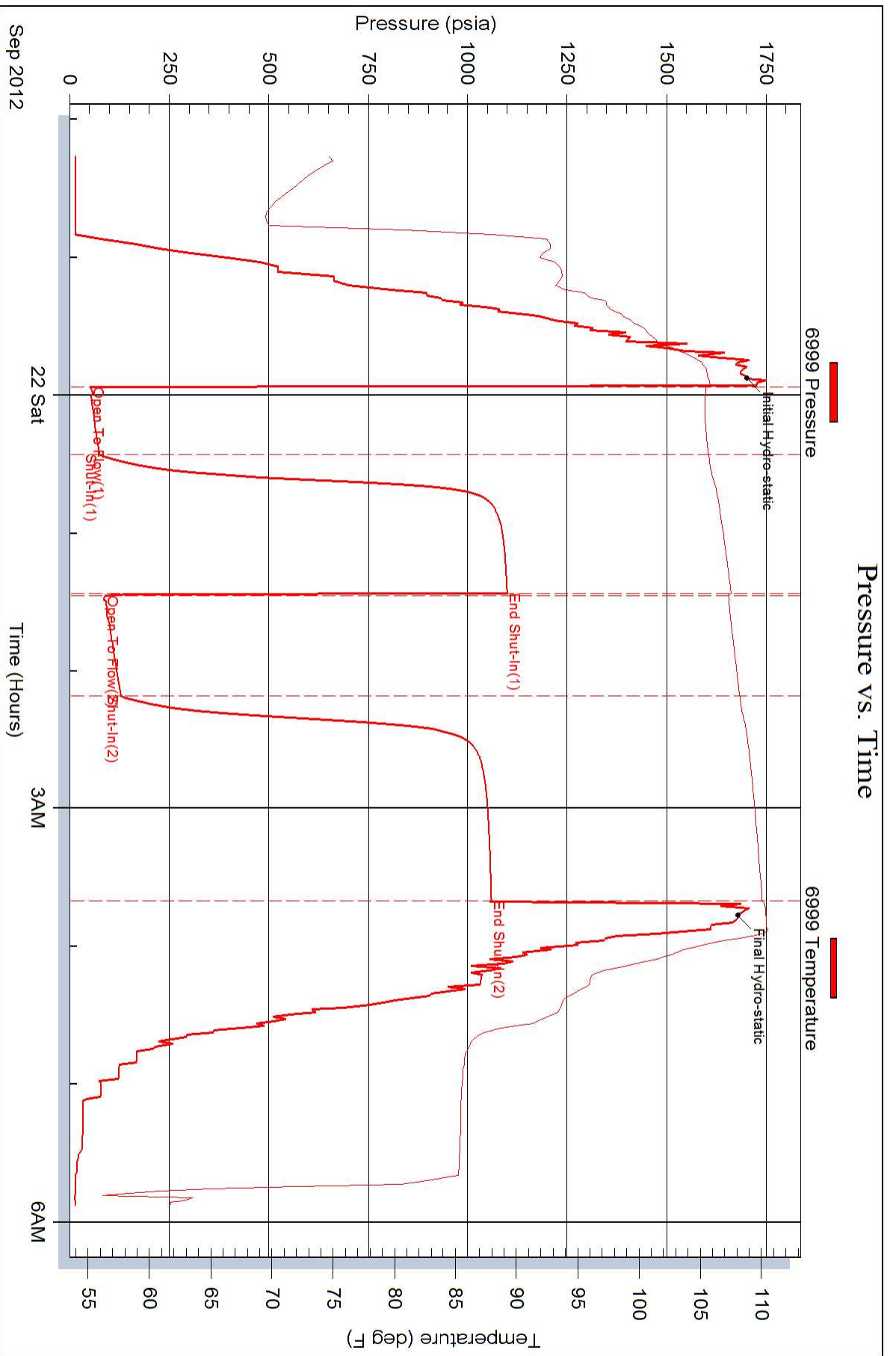
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









## 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



# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 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:

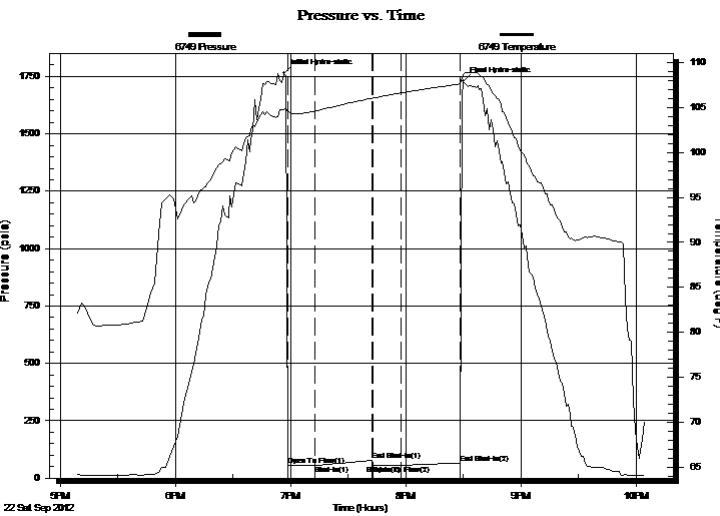
Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:58:30  
 Time Test Ended: 22:04:30  
 Interval: **3482.00 ft (KB) To 3538.00 ft (KB) (TVD)**  
 Total Depth: 3538.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional 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 #: 6749

Inside

Press @ RunDepth: 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)



# DRILL STEM TEST REPORT

FG Holl Company LLC  
 9431 East Central  
 Suite 100  
 Wichita, Kansas 67206+2563  
 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 #: 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

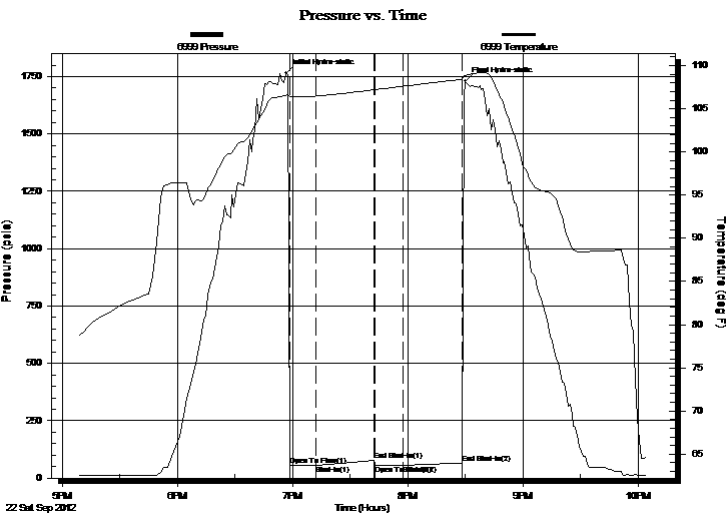
Start Time: 17:08:00

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)



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
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
------------------	-------------	------------	----------	------------	----------------

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**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17837

**DST#: 5**

Test Start: 2012.09.22 @ 17:08:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 7.60 in<sup>3</sup>  
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

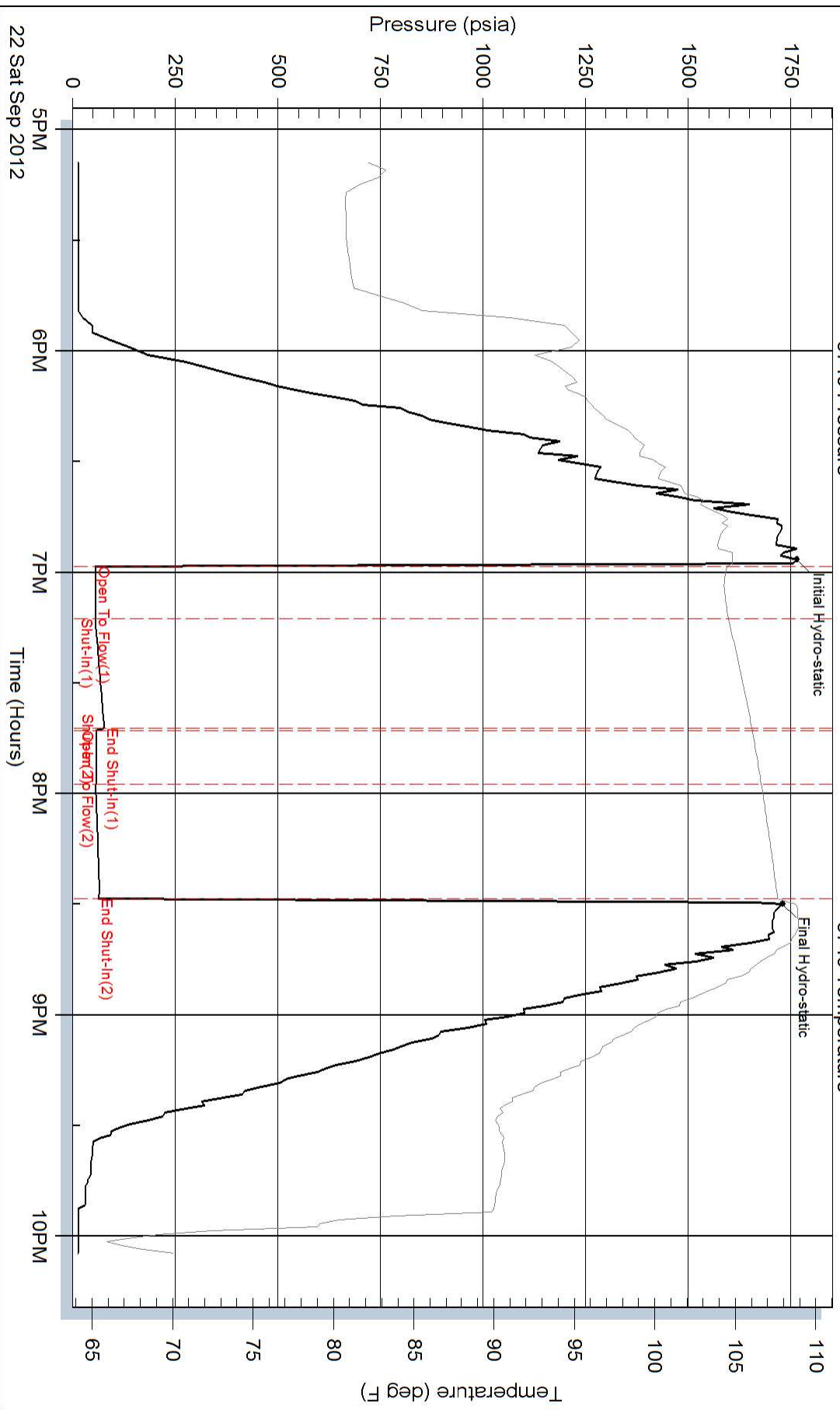
Serial #:

Laboratory Name:

Laboratory Location:

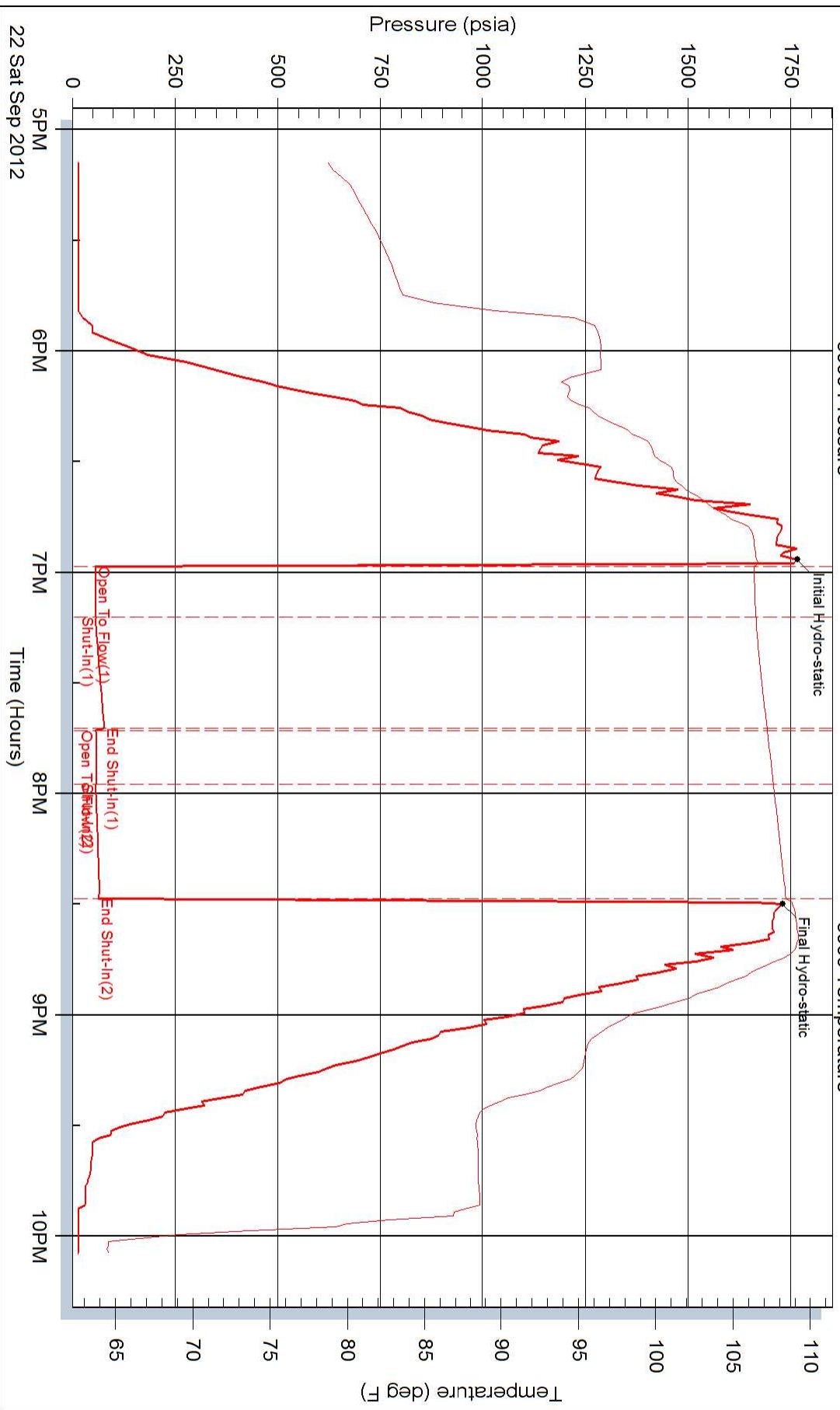
Recovery Comments:

### Pressure vs. Time





# Pressure vs. Time





## 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: 2012.09.23 @ 07:58:00

End Date: 2012.09.23 @ 15:00:00

Job Ticket #: 17838                      DST #: 6

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

Printed: 2012.09.23 @ 15:23:02



# DRILL STEM TEST REPORT

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17838

**DST#: 6**

Test Start: 2012.09.23 @ 07:58:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:31:30

Time Test Ended: 15:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

**Interval: 3584.00 ft (KB) To 3592.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3592.00 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: 675.85 psia @ 3588.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.23

End Date: 2012.09.23

Last Calib.: 2012.09.23

Start Time: 07:58:00

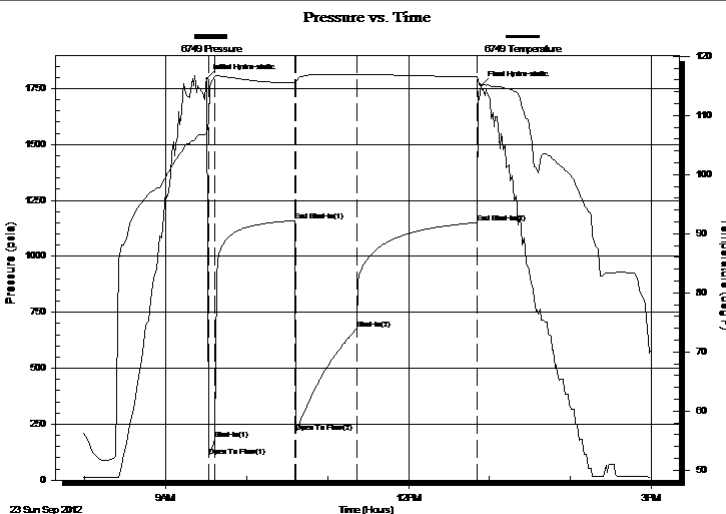
End Time: 15:00:00

Time On Btm: 2012.09.23 @ 09:30:30

Time Off Btm: 2012.09.23 @ 12:53:30

**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow /Blow built to bottom of bucket in 2 minutes  
1ST Shut In 60 Minutes/Blow back built to 1/2 inch  
2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 2 minutes  
2ND Shut In 90 Minutes/No blow back

## PRESSURE SUMMARY



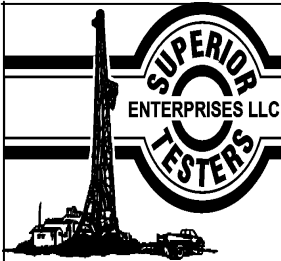
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1793.16	106.94	Initial Hydro-static
1	105.26	109.18	Open To Flow (1)
6	181.02	116.54	Shut-In(1)
66	1159.74	115.49	End Shut-In(1)
66	216.08	115.71	Open To Flow (2)
112	675.85	116.84	Shut-In(2)
201	1150.32	116.56	End Shut-In(2)
204	1763.65	115.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1440.00	Slightly gassy Muddy Water	20.20
0.00	Gas 5% Mud 5% Water 90%	0.00
0.00	Recov. Chlorides 39000 ppm	0.00
0.00	Recov. Resist. .19 ohms @ 74 deg.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17838

**DST#: 6**

Test Start: 2012.09.23 @ 07:58:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:31:30

Time Test Ended: 15:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

**Interval: 3584.00 ft (KB) To 3592.00 ft (KB) (TVD)**

Reference Elevations: 2023.00 ft (KB)

Total Depth: 3592.00 ft (KB) (TVD)

2012.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6999 Outside**

Press @ RunDepth: 1149.88 psia @ 3589.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.23

End Date: 2012.09.23

Last Calib.: 2012.09.23

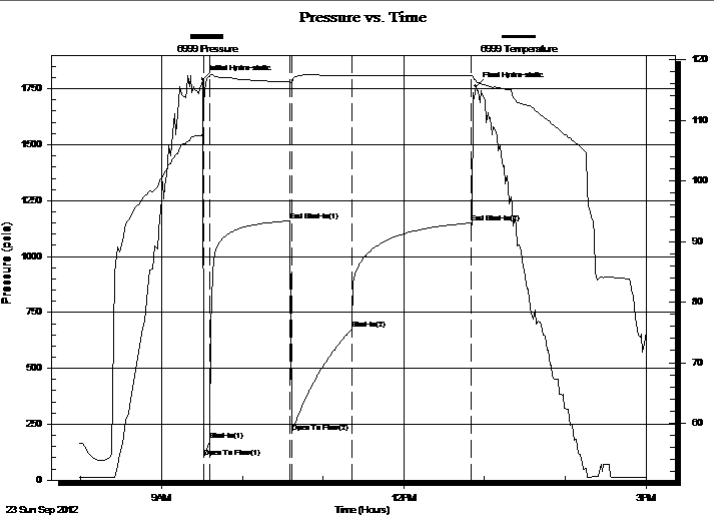
Start Time: 07:58:00

End Time: 15:00:30

Time On Btm: 2012.09.23 @ 09:30:30

Time Off Btm: 2012.09.23 @ 12:53:30

**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow /Blow built to bottom of bucket in 2 minutes  
1ST Shut In 60 Minutes/Blow back built to 1/2 inch  
2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 2 minutes  
2ND Shut In 90 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1791.92	107.75	Initial Hydro-static
1	104.25	112.92	Open To Flow (1)
6	176.17	117.31	Shut-In(1)
66	1159.71	116.32	End Shut-In(1)
66	214.73	116.08	Open To Flow (2)
112	676.10	117.31	Shut-In(2)
200	1149.88	117.33	End Shut-In(2)
203	1761.07	116.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1440.00	Slightly gassy Muddy Water	20.20
0.00	Gas 5% Mud 5% Water 90%	0.00
0.00	Recov. Chlorides 39000 ppm	0.00
0.00	Recov. Resist. .19 ohms @ 74 deg.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17838

**DST#: 6**

Test Start: 2012.09.23 @ 07:58:00

## Tool Information

Drill Pipe:	Length: 3563.00 ft	Diameter: 3.80 inches	Volume: 49.98 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: 75000.00 lb
			<u>Total Volume: 49.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3584.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3562.00	
Hydraulic Tool	5.00			3567.00	
Jars	5.00			3572.00	
Safety Joint	2.00			3574.00	
Packer	5.00			3579.00	27.00 Bottom Of Top Packer
Packer	5.00			3584.00	
Anchor	3.00			3587.00	
Recorder	1.00	6749	Inside	3588.00	
Recorder	1.00	6999	Outside	3589.00	
Bullnose	3.00			3592.00	8.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**26/17S/15W/Barton**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Frank Greenbaum

**Cantrell Unit #1-26**

Job Ticket: 17838

**DST#: 6**

Test Start: 2012.09.23 @ 07:58:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 6.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4600.00 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
1440.00	Slighty gassy Muddy Water	20.199
0.00	Gas 5% Mud 5% Water 90%	0.000
0.00	Recov. Chlorides 39000 ppm	0.000
0.00	Recov. Resist. .19 ohms @ 74 deg.	0.000

Total Length: 1440.00 ft      Total Volume: 20.199 bbl

Num Fluid Samples: 0

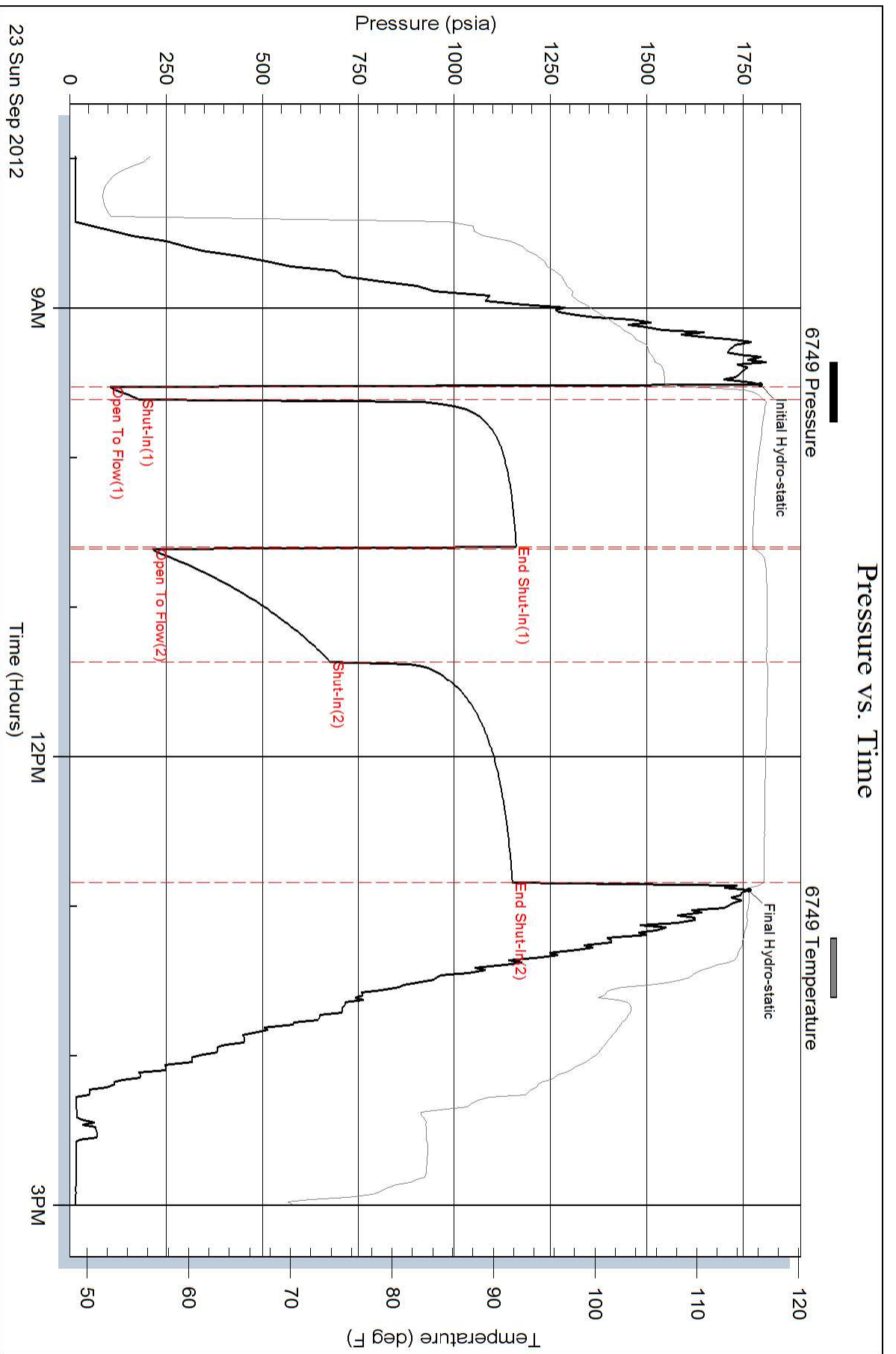
Num Gas Bombs: 0

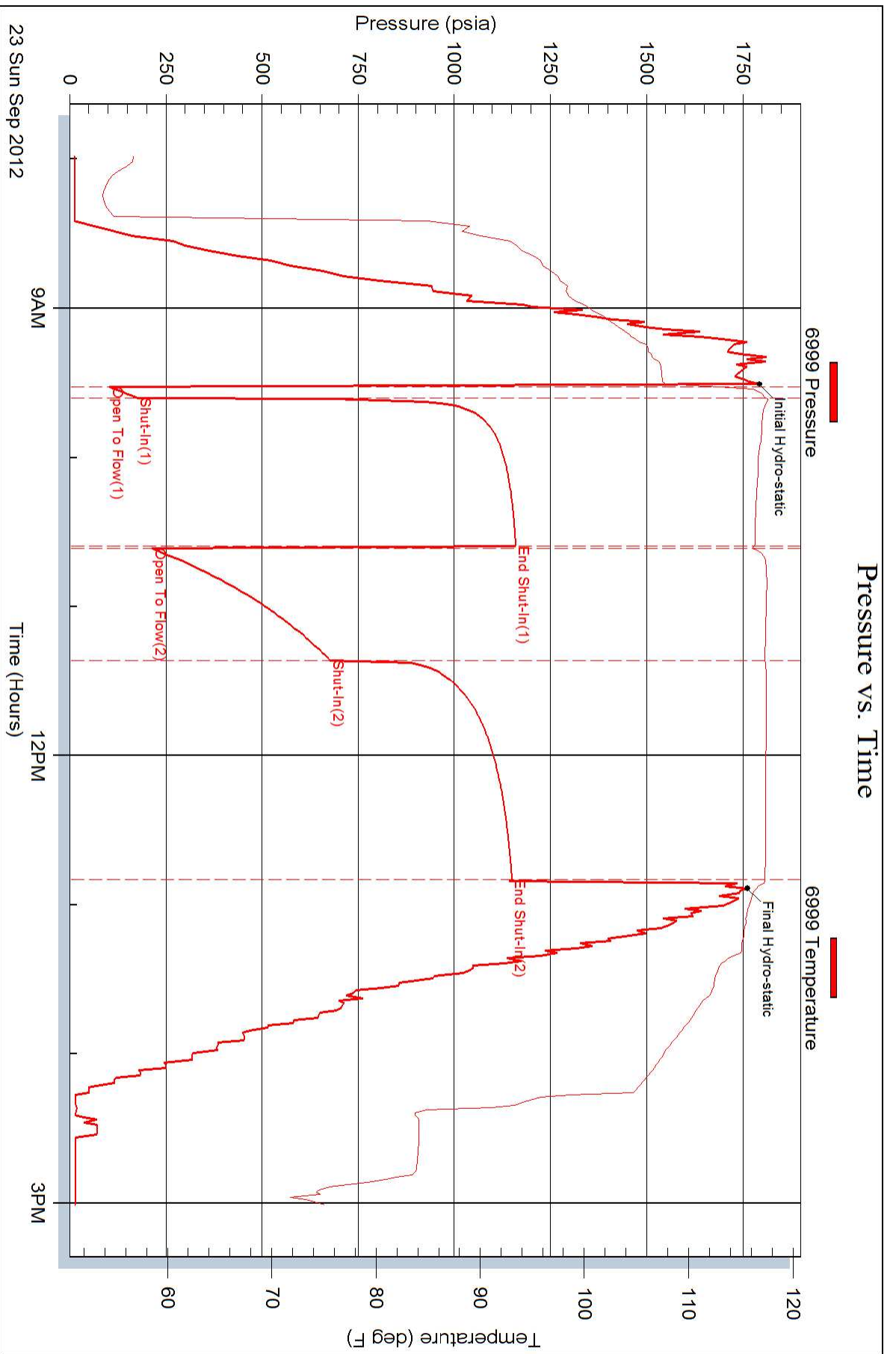
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Barton** State **Kansas** Pump **6** X **15** X **58** SPM Casing Program **8 5/8" @ 1048** ft.  
 Well **Cantrell Unit #1-26** Location **2012 EGL** **7.99** GPM BPM **" @** ft.  
 Contractor **Duke #10** Sec **26** TWP **17S** RNG **15W** D.P. **4.5** in. **197** FT/MIN R.A. **" @** ft.  
 Stockpoint **Pratt, Ks.** Date **9/14/2012** Engineer **Rick Hughes** Collar **6.25** in. **450** ft. **358** FT/MIN R.A. Total Depth **3750** ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Strip_ Meter_	FILTRATION/ILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT	
			Sec API @_F	PV @_F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ca ppm		Solids %	Oil %	Water %					
9/14	0																			RURT	
9/15	920	10.4	38																1	Drig.	
9/16	1048																			WOC	
9/17	1571	9.1	27	1	1	0/0	7.0	N/C	-		40m	Hvy	2.9		97.1					Drig. Displace starch ~1800	
9/18	2380	9.4	36	6	14	15/23	7.0	12.8	1		35m	Hvy	5.8		94.2					Drig. Displace chem ~ 2550	
9/19	3099	9.1	52	16	11	10/26	10.5	8.0	1		4,500	20								Drig.	
9/20	3394	9.4	49	15	12	13/22	9.5	8.8	1		4,500	40	7.5		92.5					DST #1 DST #2 @ 3394	
9/21	3450	9.4	53	18	12	8/23	10.0	7.2	1		4,900	20	7.5		92.5					TO f/DST #3	
9/22	3478	9.1	53	18	13	9/26	10.0	7.6	1		4,500	20	5.5		94.5					CCH after DST 4 DST #5 @ 3538	
9/23	3592	9.3	55	20	13	12/38	11.0	6.8	1		4,600	20	6.8		93.2					Make up DST 6	
9/24	3750	9.4	62	22	14	8/33	10.5	8.8	1		5,100	40	7.5		92.5	1				Logging	
9/25	3750																				Final: LTD - 3754'. 6 DST's. Logs Ok.
																					Run Casing.
																					Reserve Pit, Chl content ppm: 14,000
																					Estimated Volume: 1200 bbls

**MUD-CO / SERVICE MUD INC.**

100 S. Main Suite #310  
Wichita, Ks. 67202  
316/264-2814 Fax: 316/264-5024

**DRILLING MUD RECAP**

Materials	Sacks	Amount	Materials	Sacks	Amount	Amount
C/S HULLS	40					
CAUSTIC SODA	13					
DESCO	2					
DRILL PAK	5					
LIME	4					
PREMIUM GEL	309					
SODA ASH	18					
STARCH	50					
SUPER LIG	14					
X-CIDE 102W	1					
						Total Mud Cost
						Trucking Cost
						Trucking Surcharge
						Taxes
						<b>TOTAL COST</b>



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 06573 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 9-15-12		DISTRICT: Kansas		NEW WELL <input checked="" type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: F.G. Holl Co LLC				LEASE: Cantrell # 1-26				WELL NO.:							
ADDRESS:				COUNTY: Barton Co 26-17-15				STATE: Ks							
CITY:				STATE:				SERVICE CREW: Allyn, Mike, Steve							
AUTHORIZED BY:				JOB TYPE: 8 5/8" Surface				Crew							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
28443 P11	2						9-15-12			400					
19908-19905	2						9-15-12			500					
19960-21010	2						9-15-12			930					
							9-15-12			1150					
							9-16-12			1200					
						MILES FROM STATION TO WELL: 75 miles									

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	Acow Blend Cement	SK	200		
CP100C	Common	SK	200		
CC102	Cell FLAKE	lb	100		
CC109	Calcium Chloride	lb	940		
CP105	Top Rubber Plug 8 5/8"	EA	1		
CF1753	Cent 8 5/8" (Blue)	EA	3		
E100	Unit mileage charge P.O.	Mi	75		
E101	Heavy Equip mileage	Mi	150		
E113	Bulk Delivery chg	TM	1410		
CF201	Depth Charge 501-1000'	4-hr	1		
CF240	Blending & mixing Service chg	SK	400		
CE504	Plug container Utilization chg	Job	1		
S003	Service Supervisor first 8hrs on loc	EA	1		

SUB TOTAL

DL3

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL

SERVICE REPRESENTATIVE: Allen F. Ward THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Dwight Edwards, P.O. #10

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer FG Holl Co. LLC	Lease No.	Date 9-15-12
Lease Cantrell	Well # # 1-26	
Field Order # #06573A	Station Pratt Ks	Casing 8 7/8
Type Job 8 5/8" Surface	Formation CNW	Depth 1043'
		County Bartow
		State Ks
		Legal Description 26-17-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 7/8"	Tubing Size	Shots/Ft		Acid	200 SKS A-CON	BATE	PRESS	ISIP
1043	Depth	From	To	Pre Pad	200 SKS COMMON	12	12	5 Min.
65881	Volume	From	To	Pad	2% OIL			10 Min.
500	Max Press	From	To	Frac				15 Min.
P.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
1023	Packer Depth	From	To	Flush	DISP 1120	Gas Volume		Total Load

Customer Representative Scott	Station Manager Scott	Treater Allen
Service Units 28443	19960	19905
Driver Names Allen	Mike	Steve

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
500 PM					ON Loc. Discuss Safety Setup Plan Job
530					going BACK IN Hole w/ Bit- Short Trip
650					Start out of Hole w/ Bit
750					out of Hole Ris up to Run
					8 5/8 csg. 24'
					cent. 950 - 500 - 40'
950					CASING @ 1043' CIR w/ RIS
1025	200 <sup>+</sup>		88	5	MIX 200 SKS A-CON @ 12'
				5	MIX 200 SKS COMMON w/ 2% OIL
					1/4" Cell FLAKE @ 15.6'
			43		Finish mixing.
					Release Top Rubber Plug.
1100				5 1/2	Start DISP.
1115	350 <sup>+</sup>		65	3	Plug down
					Shut in @ well
					Release PSI BACK TO TRUCK
					washup Equip - Rack up
1200					Job complete
					cmnt TO Pit
					thanks Allen, Mike, Steve



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 06692 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 9-25-12 DISTRICT		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER: F.B. Hall		LEASE: Cantrell Unit WELL NO. 126								
ADDRESS:		COUNTY: Barton STATE: KS								
CITY: STATE:		SERVICE CREW: Orlando, Mcbraw, Phye								
AUTHORIZED BY:		JOB TYPE: CNW-5 1/2 L.S.								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27285	1						9-24-12			12:00
27463	1						ARRIVED AT JOB	9-24-12		5:00
7055-1978	1						START OPERATION	9-25-12		12:00
							FINISH OPERATION			12:30
							RELEASED	7		1:50
							MILES FROM STATION TO WELL			75

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Rob Long  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	FAA Cement	SK	135		
CP103	60/40 po2 Cement	SK	75		
CC102	Celluloflax	Lb	34		
CC105	C-41 P Deframer	Lb	32		
CC111	Salt	Lb	605		
CC129	FLA-322	Lb	127		
CC201	Gilsonite	Lb	1350		
CF607	Latch Down Plug Baffle 5 1/2	ea	1		
CF1251	AutoSill Slant Stop 5 1/2	ea	1		
CF1657	Turbolizer 5 1/2	ea	8		
CF1901	Basket 5 1/2	ea	1		
CF2002	Cement Scrapers Rotating Type	ea	40		
CC154	Superfluk	gal	500		
E100	Pickup Mileage	mi	75		
E101	Heavy Equipment Mileage	mi	150		
E113	Bulk Delivery	Tm	720		
CE204	Depth Charge	ea	1		
CE240	Blending + mixing	SK	210		
CE501	Casing Swivel	ea	1		
CE504	Plus Connectors	ea	1		
5003	Service Supervisor	ea	1		
				SUB TOTAL	

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: Steve Orlando THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Rob Long  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer	F.L. Holl	Lease No.		Date	9-25-13
Lease	Cartrell Unit	Well #	1-26		
Field Order #	6693	Station	Pratt	Casing	5 1/2
				Depth	3750
Type Job	CNW-5 1/2 L-S	Formation		County	Barton
				State	MO
				Legal Description	26-17-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	5 1/2	Tubing Size	4 1/2	Shots/Ft	1352	Acid		
Depth	3747	Depth		From		Pre Pad		5 Min.
Volume	91.4	Volume		To		Pad		10 Min.
Max Press		Max Press		From		Frac		15 Min.
Well Connection		Annulus Vol.		To			HHP Used	Annulus Pressure
Plug Depth	3733	Packer Depth		From		Flush	91	Total Load
				To				

Customer Representative	Rob Kure	Station Manager	Dave Scott	Treater	Steve Oden
Service Units	2728	2743	70952/19917		
Driver Names	Udo-Joel	Michael	Phye		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:00 AM					On location - Safety meeting
					Ran 88 5 1/2 14" CSS
					Cartrell 1-2-3-4-5-6-7-8
					Basket # 6
					Casing on bottom Break Crewd King
					Rotate casing
12:00	300		5	5	H2O ahead
12:03	300		13	5	Super Stop
12:03	300		5	5	H2O spacer
12:04	300		5	5	mix 25% spacer @ 14 1/2 gal
12:05	250		34	5	mix 135% acid @ 15 1/2 gal
					Start down flow pump then
					Release plug
12:14	0		0	6	Start H2O displacement
12:25	350		65	5	2.0 ft pressure
12:28	500		80	11	slow rate stop rotation
12:30	1500		91	11	plug down - hold
1:00 PM			97.64		plug 24" / 1100 / 1500 / 10/40
					Subcom Ado
					Thru the pipe