





1174043

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](mailto: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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 3-10
Doc ID	1174043

All Electric Logs Run

CDL/CNL
DIL
BHCS
Microresistivity
Fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 3-10
Doc ID	1174043

Tops

Name	Top	Datum
Herrington	1855	+91
Winfield	1906	+40
Towanda	1972	-26
Fort Riley	2008	-62
B/Florence	2112	-166
Kinney Ls	2126	-180
Wrefold	2159	-213
Council Grove	2181	-235
Neva	2362	-416
Red Eagle	2421	-475
Root Shale	2683	-737
Stotler	2734	-788
Tarkio	2798	-852
Howard	2946	-1000
Topeka	3018	-1072
Heebner	3324	-1378
Toronto	3347	-1401
Douglas Shale	3363	-1417
Brown Lime	3447	-1501
LKC	3456	-1510
Drum	3578	-1632
Viola	3740	-1794
Arbuckle	3812	-1866
RTD	4000	-2054

## Summary of Changes

Lease Name and Number: KRUPP 3-10

API/Permit #: 15-185-23836-00-00

Doc ID: 1174043

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	12/19/2013	12/23/2013
Producing Formation	Arbuckle	Simpson Sand
Save Link	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1163361">../..kcc/detail/operatorEditDetail.cfm?docID=1163361</a>	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1174043">../..kcc/detail/operatorEditDetail.cfm?docID=1174043</a>



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1163361  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

**CONFIDENTIAL** 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: \_\_\_\_\_

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 Geologist Report / Mud Logs <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
--	---

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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 3-10
Doc ID	1163361

All Electric Logs Run

CDL/CNL
DIL
BHCS
Microresistivity
Fracfinder



Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 3-10
Doc ID	1163361

### Tops

Name	Top	Datum
Herrington	1855	+91
Winfield	1906	+40
Towanda	1972	-26
Fort Riley	2008	-62
B/Florence	2112	-166
Kinney Ls	2126	-180
Wrefold	2159	-213
Council Grove	2181	-235
Neva	2362	-416
Red Eagle	2421	-475
Root Shale	2683	-737
Stotler	2734	-788
Tarkio	2798	-852
Howard	2946	-1000
Topeka	3018	-1072
Heebner	3324	-1378
Toronto	3347	-1401
Douglas Shale	3363	-1417
Brown Lime	3447	-1501
LKC	3456	-1510
Drum	3578	-1632
Viola	3740	-1794
Arbuckle	3812	-1866
RTD	4000	-2054

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KRUPP 3-10
Doc ID	1163361

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3784' - 3790' Simpson Sand	500 gal 10% Acetic acid	



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 16, 2013

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

Re: ACO1  
API 15-185-23836-00-00  
KRUPP 3-10  
N/2 Sec.10-22S-14W  
Stafford 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: Ryan Greenbaum

**Krupp 3-10**

**10/22S/14W/Stafford**

Start Date: 2013.10.08 @ 14:05:00

End Date: 2013.10.08 @ 19:14:30

Job Ticket #: 18162                      DST #: 1

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

Printed: 2013.10.08 @ 19:27:01

FG Holl Company LLC

10/22S/14W/Stafford

Krupp 3-10

DST # 1

Lansing/Kansas City

2013.10.08



# DRILL STEM TEST REPORT

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

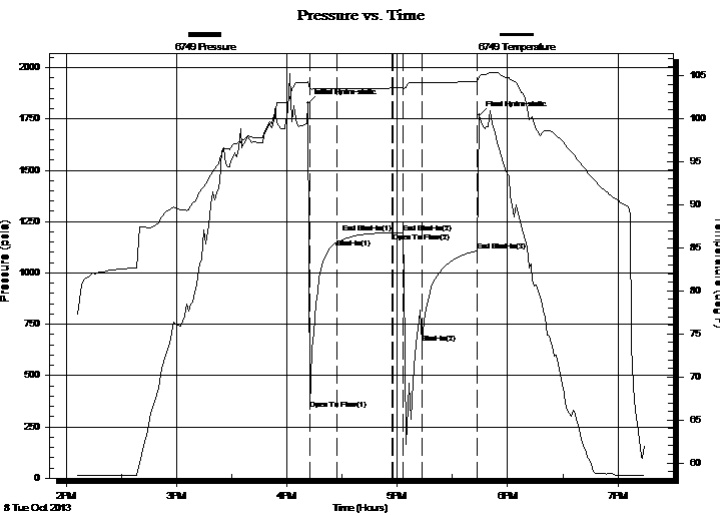
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18162 **DST#: 1**  
 Test Start: 2013.10.08 @ 14:05:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:12:30  
 Time Test Ended: 19:14:30  
 Interval: **3500.00 ft (KB) To 3533.00 ft (KB) (TVD)**  
 Total Depth: 3533.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend  
 Reference Elevations: 1946.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press @ Run Depth: 656.90 psia @ 3529.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.08 End Date: 2013.10.08 Last Calib.: 2013.10.08  
 Start Time: 14:05:00 End Time: 19:14:30 Time On Btm: 2013.10.08 @ 16:11:30  
 Time Off Btm: 2013.10.08 @ 17:44:30

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow /Blow 3/4 inch at open/Died to 1/2 inch  
 1ST Shut In 30 Minutes/No blow back  
 2ND Open 15 Minutes/Dead no blow /Flush tool no help  
 2ND Shut In 30 Mintues/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1826.52	104.26	Initial Hydro-static
1	336.43	103.42	Open To Flow (1)
16	1123.34	103.50	Shut-In(1)
46	1196.04	103.54	End Shut-In(1)
46	1195.89	103.54	Open To Flow (2)
52	1196.52	103.57	End Shut-In(2)
62	656.90	104.17	Shut-In(2)
93	1108.01	104.31	End Shut-In(3)
93	1767.62	104.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100%	0.63

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18162

**DST#: 1**

Test Start: 2013.10.08 @ 14:05:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:12:30

Time Test Ended: 19:14:30

Interval: **3500.00 ft (KB) To 3533.00 ft (KB) (TVD)**

Total Depth: 3533.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend

Reference Elevations: 1946.00 ft (KB)

1938.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press @ Run Depth: 1105.36 psia @ 3530.00 ft (KB)

Start Date: 2013.10.08

End Date: 2013.10.08

Start Time: 14:05:00

End Time: 19:14:00

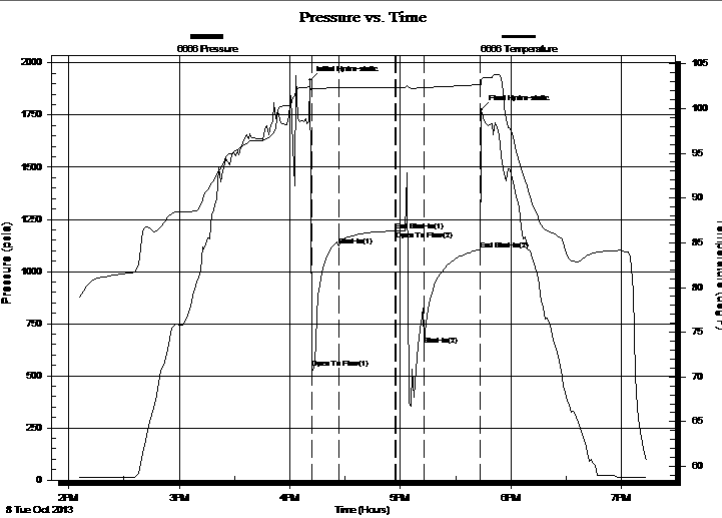
Capacity: 5000.00 psia

Last Calib.: 2013.10.08

Time On Btm: 2013.10.08 @ 16:11:00

Time Off Btm: 2013.10.08 @ 17:44:00

**TEST COMMENT:** 1ST Open 15 Minutes/Weak blow /Blow 3/4 inch at open/Died to 1/2 inch  
1ST Shut In 30 Minutes/No blow back  
2ND Open 15 Minutes/Dead no blow /Flush tool no help  
2ND Shut In 30 Mintues/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1917.22	102.57	Initial Hydro-static
1	539.12	102.27	Open To Flow (1)
16	1122.07	102.33	Shut-In(1)
46	1194.88	102.38	End Shut-In(1)
47	1194.55	102.38	Open To Flow (2)
62	646.21	102.32	Shut-In(2)
92	1105.36	102.66	End Shut-In(2)
93	1774.57	103.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100%	0.63

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18162

**DST#: 1**

Test Start: 2013.10.08 @ 14:05:00

## Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 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: 58000.00 lb
			<u>Total Volume: 49.12 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3500.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			3478.00	
Hydraulic Tool	5.00			3483.00	
Jars	5.00			3488.00	
Safety Joint	2.00			3490.00	
Packer	5.00			3495.00	27.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Anchor	28.00			3528.00	
Recorder	1.00	6749	Inside	3529.00	
Recorder	1.00	6666	Outside	3530.00	
Bullnose	3.00			3533.00	33.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18162

**DST#: 1**

Test Start: 2013.10.08 @ 14:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.40 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud 100%	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

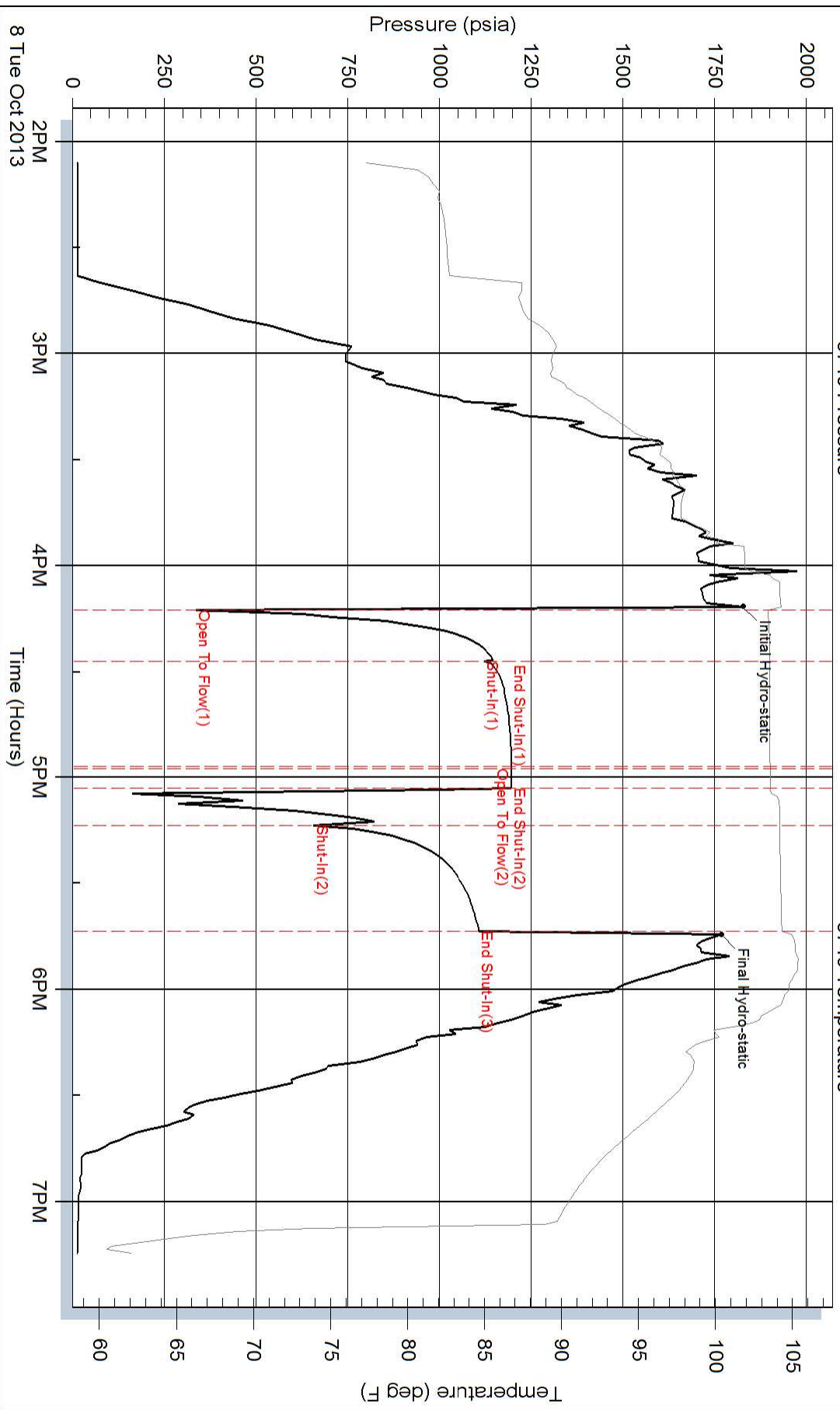
Serial #:

Laboratory Name:

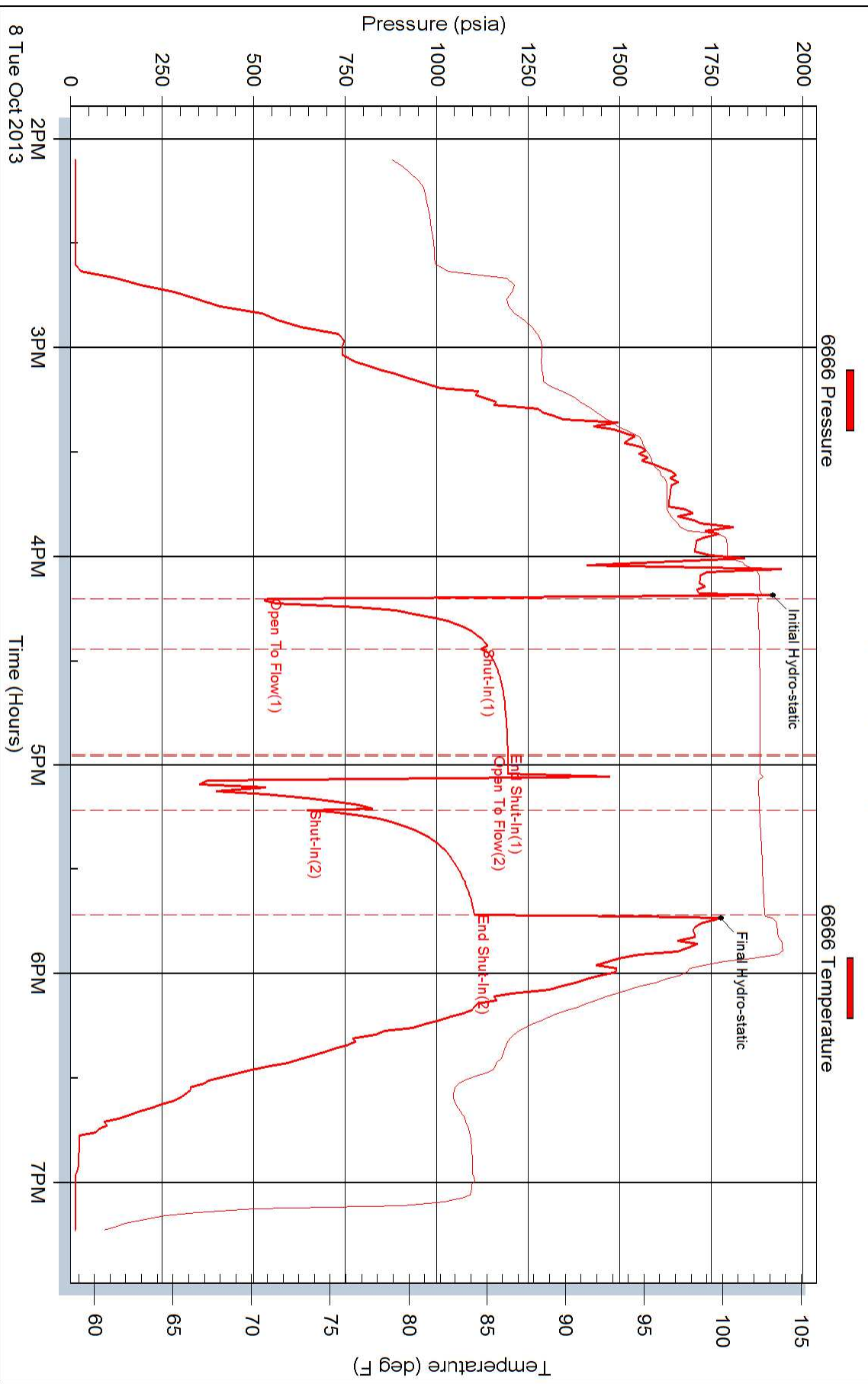
Laboratory Location:

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: Ryan Greenbaum

**Krupp 3-10**

**10/22S/14W/Stafford**

Start Date: 2013.10.09 @ 01:11:00

End Date: 2013.10.09 @ 07:12:00

Job Ticket #: 18163                      DST #: 2

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

Printed: 2013.10.09 @ 07:21:36

FG Holl Company LLC

10/22S/14W/Stafford

Krupp 3-10

DST # 2

Lansing/Kansas City

2013.10.09



# DRILL STEM TEST REPORT

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

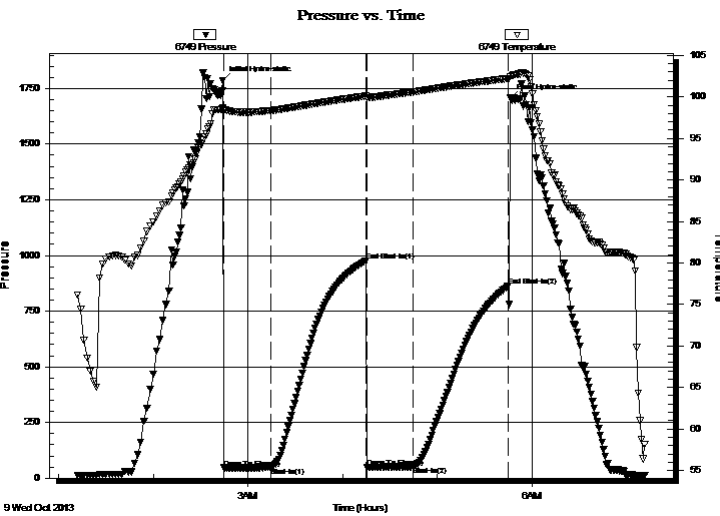
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18163      **DST#: 2**  
 Test Start: 2013.10.09 @ 01:11:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:44:30  
 Time Test Ended: 07:12:00  
 Interval: **3500.00 ft (KB) To 3533.00 ft (KB) (TVD)**  
 Total Depth: 3533.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/36  
 Reference Elevations: 1946.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749      Inside**  
 Press @ RunDepth: 51.43 psia @ 3529.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.09      End Date: 2013.10.09      Last Calib.: 2013.10.09  
 Start Time: 01:11:00      End Time: 07:12:00      Time On Btm: 2013.10.09 @ 02:44:00  
 Time Off Btm: 2013.10.09 @ 05:46:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/blow built to 1 1/2 inch  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Dead no blow /Flush tool/Weak blow that died in 8 minutes  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1785.28	98.67	Initial Hydro-static
1	45.58	98.42	Open To Flow (1)
31	47.28	98.36	Shut-In(1)
91	975.17	100.09	End Shut-In(1)
92	49.21	99.93	Open To Flow (2)
121	51.43	100.60	Shut-In(2)
181	862.83	102.21	End Shut-In(2)
183	1706.41	102.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% w ith oil spots in tool	0.21

## 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: Ryan Greenbaum

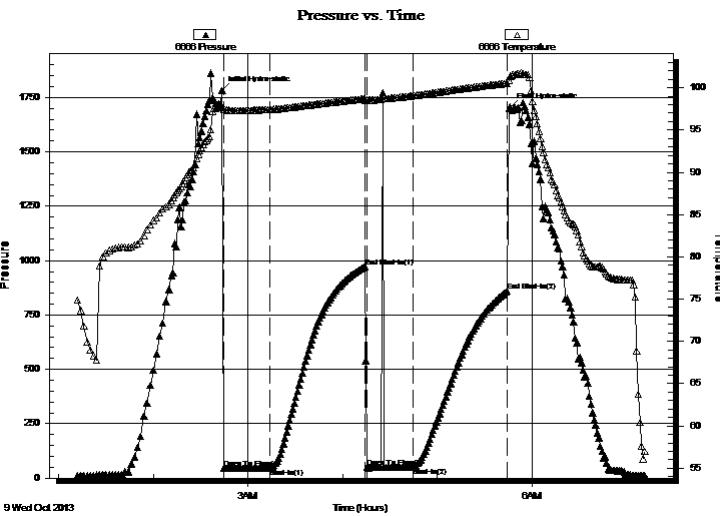
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18163      **DST#: 2**  
 Test Start: 2013.10.09 @ 01:11:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:44:30  
 Time Test Ended: 07:12:00  
 Interval: **3500.00 ft (KB) To 3533.00 ft (KB) (TVD)**  
 Total Depth: 3533.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/36  
 Reference Elevations: 1946.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6666      Outside**  
 Press @ RunDepth: 860.98 psia @ 3530.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.09      End Date: 2013.10.09      Last Calib.: 2013.10.09  
 Start Time: 01:11:00      End Time: 07:11:30      Time On Btm: 2013.10.09 @ 02:43:30  
 Time Off Btm: 2013.10.09 @ 05:46:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/blow built to 1 1/2 inch  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Dead no blow /Flush tool/Weak blow that died in 8 minutes  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1781.59	97.76	Initial Hydro-static
1	45.92	97.42	Open To Flow (1)
31	46.81	97.42	Shut-In(1)
91	973.51	98.69	End Shut-In(1)
92	47.93	98.52	Open To Flow (2)
121	50.23	99.04	Shut-In(2)
181	860.98	100.52	End Shut-In(2)
183	1705.49	101.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% w ith oil spots in tool	0.21

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18163

**DST#: 2**

Test Start: 2013.10.09 @ 01:11:00

## Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 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: 60000.00 lb
			<u>Total Volume: 49.12 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3500.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			3478.00	
Hydraulic Tool	5.00			3483.00	
Jars	5.00			3488.00	
Safety Joint	2.00			3490.00	
Packer	5.00			3495.00	27.00 Bottom Of Top Packer
Packer	5.00			3500.00	
Anchor	28.00			3528.00	
Recorder	1.00	6749	Inside	3529.00	
Recorder	1.00	6666	Outside	3530.00	
Bullnose	3.00			3533.00	33.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18163

**DST#: 2**

Test Start: 2013.10.09 @ 01:11:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 8.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5300.00 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% w ith oil spots in tool	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

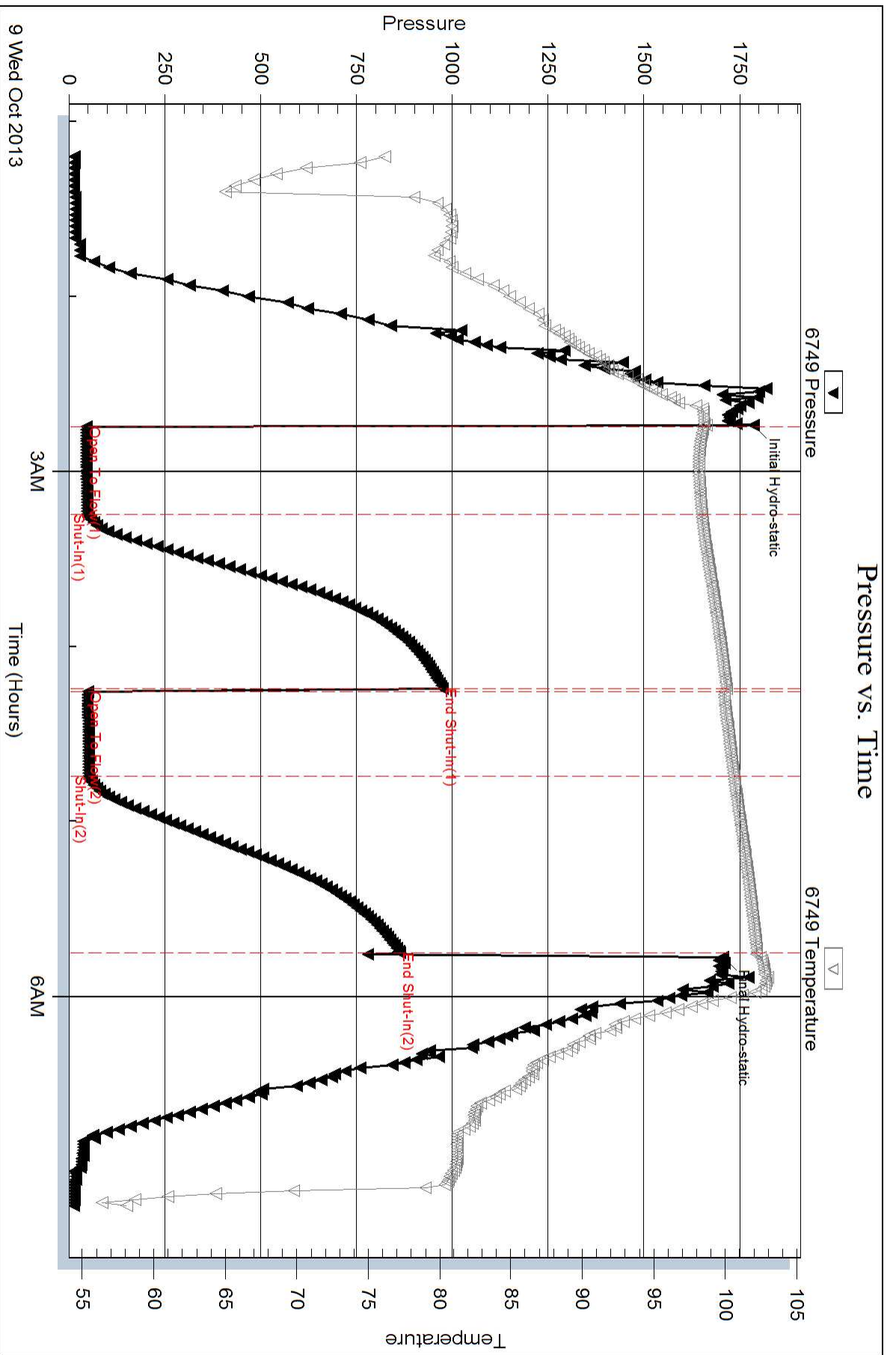
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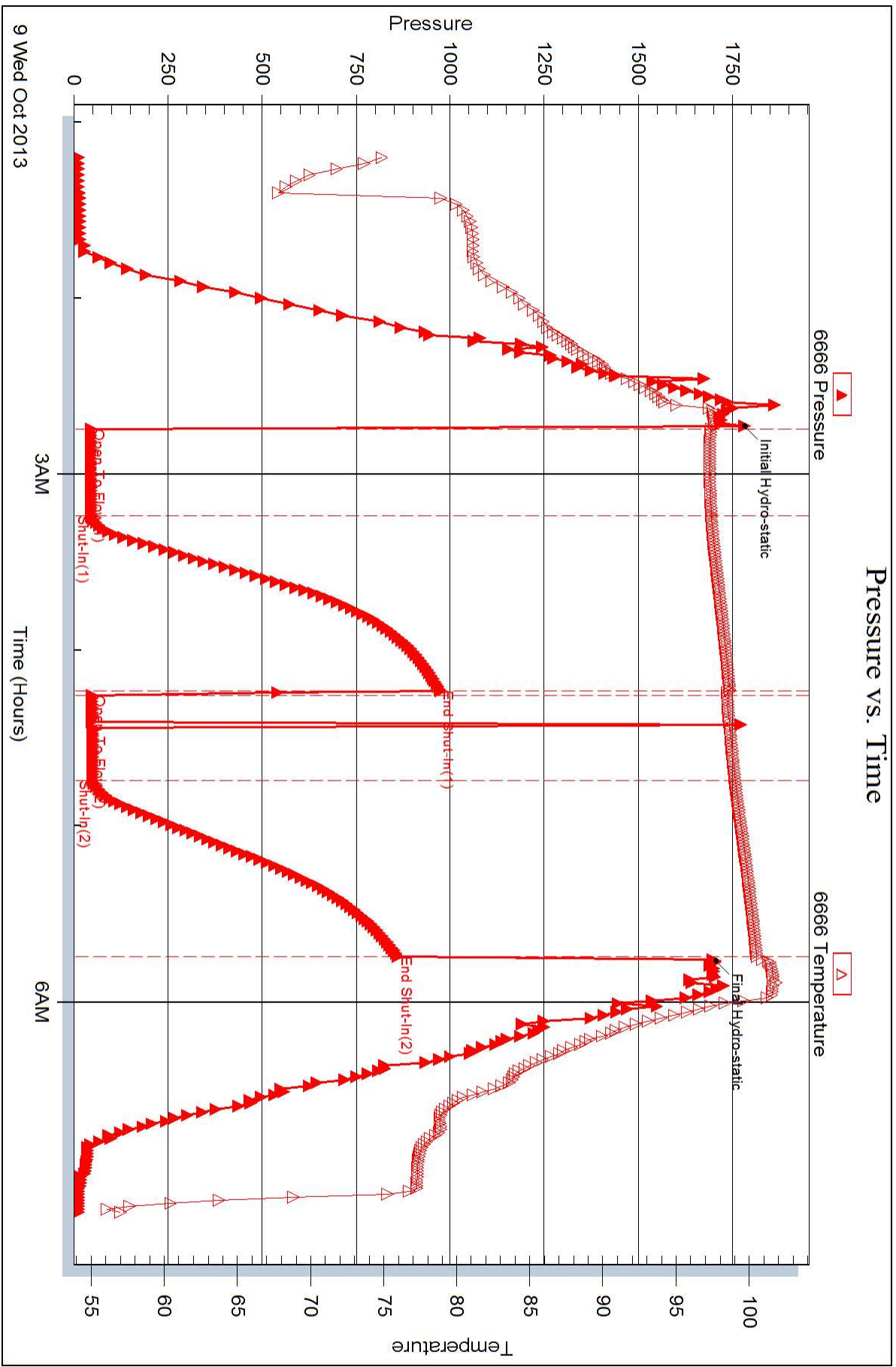
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Ryan Greenbaum

**Krupp 3-10**

**10/22S/14W/Stafford**

Start Date: 2013.10.09 @ 20:36:00

End Date: 2013.10.10 @ 02:46:30

Job Ticket #: 18164                      DST #: 3

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

Printed: 2013.10.10 @ 02:55:01

FG Holl Company LLC

10/22S/14W/Stafford

Krupp 3-10

DST # 3

Lansing/Kansas City

2013.10.09



# DRILL STEM TEST REPORT

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

**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18164      **DST#: 3**  
 Test Start: 2013.10.09 @ 20:36:00

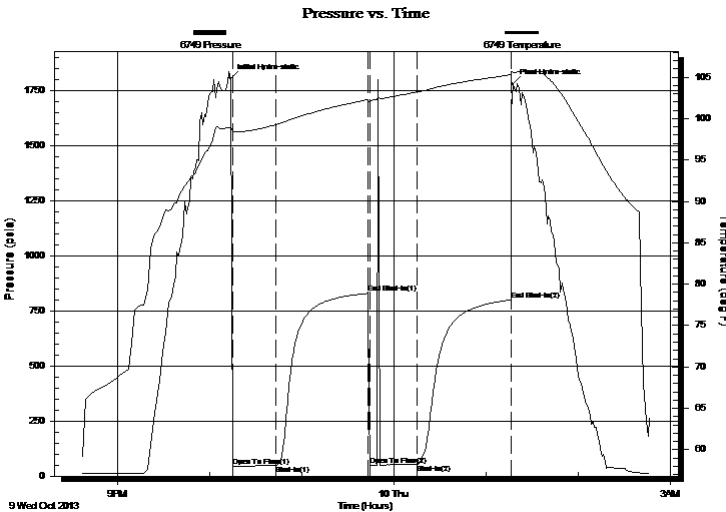
## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:14:30  
 Time Test Ended: 02:46:30  
 Interval: **3588.00 ft (KB) To 3622.00 ft (KB) (TVD)**  
 Total Depth: 3622.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/36  
 Reference Elevations: 1946.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749      Inside**  
 Press @ Run Depth: 51.74 psia @ 3618.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.09      End Date: 2013.10.10      Last Calib.: 2013.10.10  
 Start Time: 20:36:00      End Time: 02:46:30      Time On Btm: 2013.10.09 @ 22:13:30  
 Time Off Btm: 2013.10.10 @ 01:17:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 1/2 inch  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 30 Minutes/Dead no blow /Flush tool no help  
 2ND Shut In 60 Minutes/No blow back

## PRESSURE SUMMARY



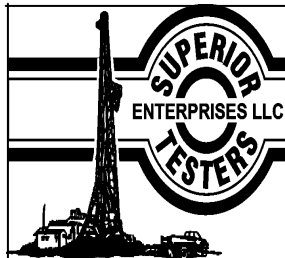
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1803.48	98.88	Initial Hydro-static
1	44.84	98.50	Open To Flow (1)
30	49.53	99.27	Shut-In(1)
90	828.37	102.31	End Shut-In(1)
91	48.74	102.19	Open To Flow (2)
122	51.74	103.22	Shut-In(2)
183	799.10	105.30	End Shut-In(2)
184	1778.66	105.53	Final Hydro-static

## 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

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18164

**DST#: 3**

Test Start: 2013.10.09 @ 20:36:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:14:30

Time Test Ended: 02:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

**Interval: 3588.00 ft (KB) To 3622.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3622.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press @ RunDepth: 797.76 psia @ 3619.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.09 End Date: 2013.10.10

Last Calib.: 2013.10.10

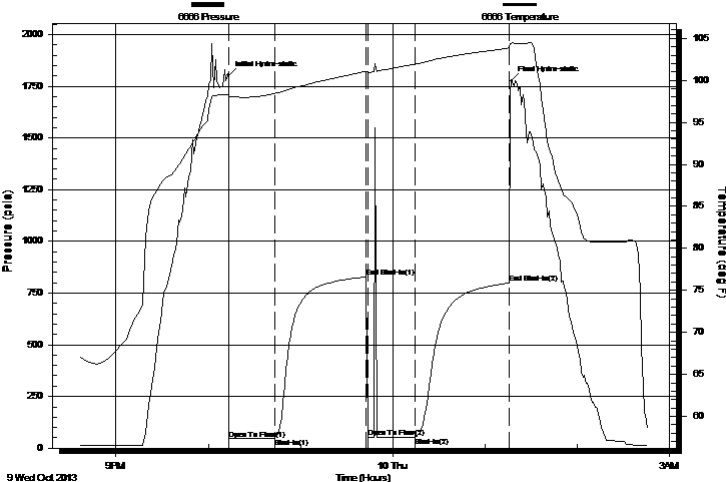
Start Time: 20:36:00 End Time: 02:45:30

Time On Btm: 2013.10.09 @ 22:13:00

Time Off Btm: 2013.10.10 @ 01:17:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 1/2 inch  
1ST Shut In 60 Minutes/No blow back  
2ND Open 30 Minutes/Dead no blow /Flush tool no help  
2ND Shut In 60 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1803.53	98.34	Initial Hydro-static
1	44.61	98.00	Open To Flow (1)
30	49.67	98.42	Shut-In(1)
90	827.23	101.06	End Shut-In(1)
91	50.68	100.92	Open To Flow (2)
122	52.61	101.94	Shut-In(2)
183	797.76	103.84	End Shut-In(2)
184	1776.75	104.44	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

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18164

**DST#: 3**

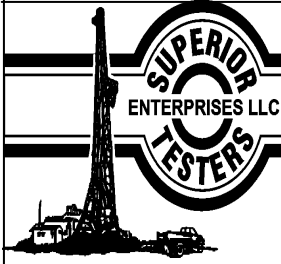
Test Start: 2013.10.09 @ 20:36:00

## Tool Information

Drill Pipe:	Length: 3567.00 ft	Diameter: 3.80 inches	Volume: 50.04 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: 50.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3588.00 ft			Final 46000.00 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
Shut In Tool	5.00			3566.00	
Hydraulic Tool	5.00			3571.00	
Jars	5.00			3576.00	
Safety Joint	2.00			3578.00	
Packer	5.00			3583.00	27.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Anchor	29.00			3617.00	
Recorder	1.00	6749	Inside	3618.00	
Recorder	1.00	6666	Outside	3619.00	
Bullnose	3.00			3622.00	34.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>61.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18164

**DST#: 3**

Test Start: 2013.10.09 @ 20:36:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 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

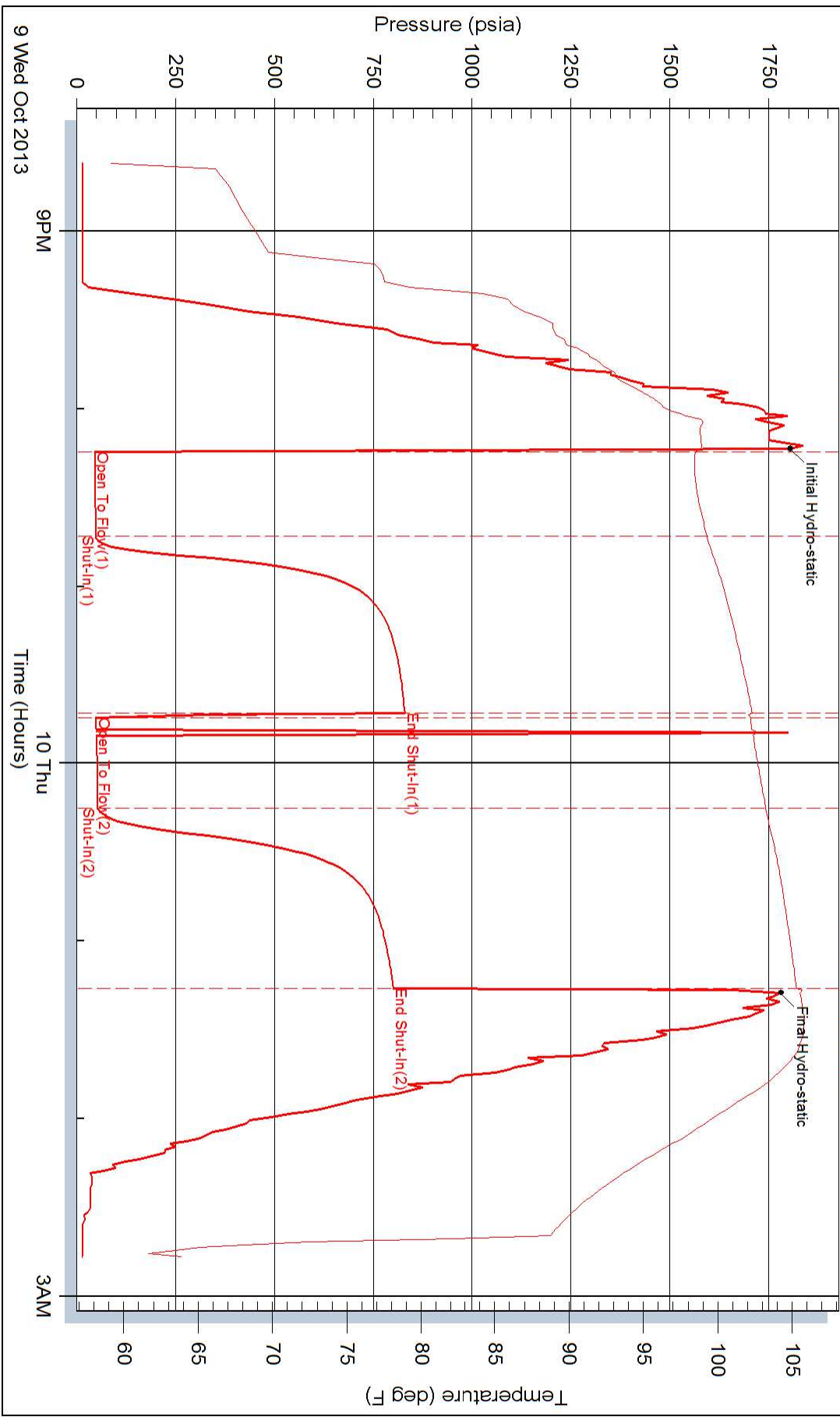
Serial #:

Laboratory Name:

Laboratory Location:

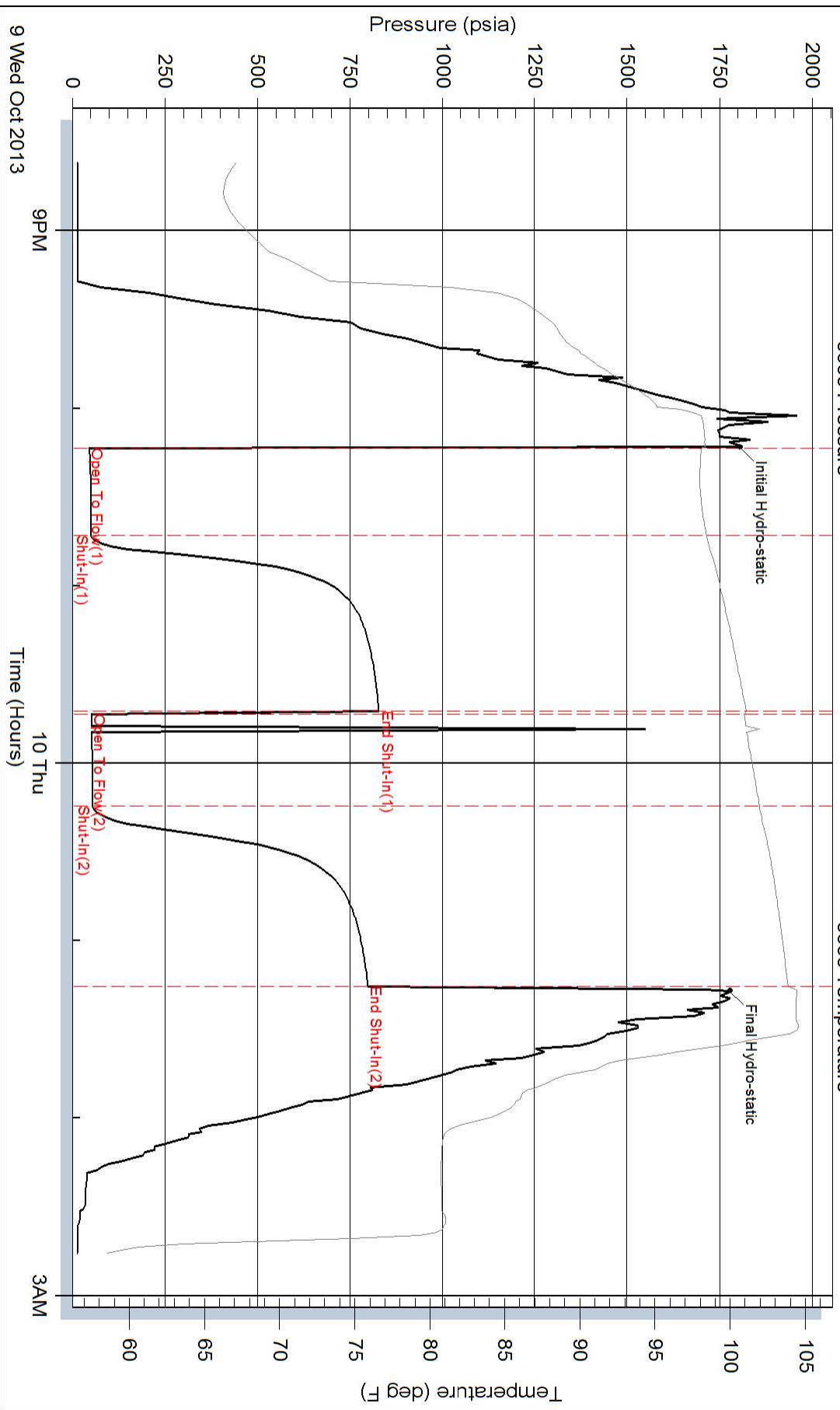
Recovery Comments:

### Pressure vs. Time





### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Ryan Greenbaum

**Krupp 3-10**

**10/22S/14W/Stafford**

Start Date: 2013.10.10 @ 11:02:00

End Date: 2013.10.10 @ 16:35:00

Job Ticket #: 18165                      DST #: 4

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

Printed: 2013.10.10 @ 16:43:41

FG Holl Company LLC

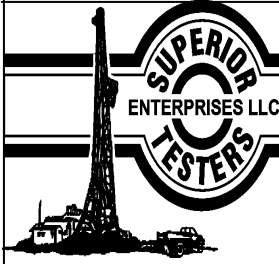
10/22S/14W/Stafford

Krupp 3-10

DST # 4

Lansing/Kansas City

2013.10.10



# DRILL STEM TEST REPORT

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

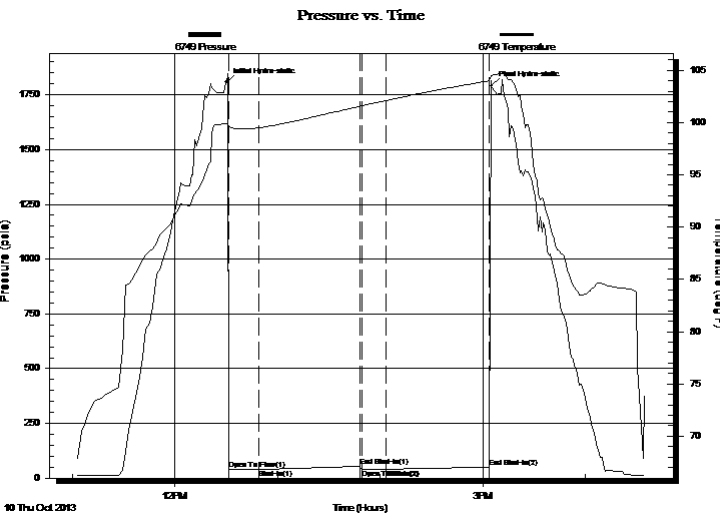
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18165 **DST#: 4**  
 Test Start: 2013.10.10 @ 11:02:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:31:30  
 Time Test Ended: 16:35:00  
 Interval: **3624.00 ft (KB) To 3650.00 ft (KB) (TVD)**  
 Total Depth: 3650.00 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/36  
 Reference Elevations: 1946.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press @ Run Depth: 41.19 psia @ 3646.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.10 End Date: 2013.10.10 Last Calib.: 2013.10.10  
 Start Time: 11:02:00 End Time: 16:35:00 Time On Btm: 2013.10.10 @ 12:30:00  
 Time Off Btm: 2013.10.10 @ 15:05:00

**TEST COMMENT:** 1ST Open 18 Minutes/Weak surface blow /Blow died in 12 minutes  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 15 Minutes/Dead no blow /Flush tool no help  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1807.26	99.84	Initial Hydro-static
2	39.92	99.62	Open To Flow (1)
19	40.15	99.49	Shut-In(1)
78	53.60	101.55	End Shut-In(1)
79	40.57	101.59	Open To Flow (2)
94	41.19	102.11	Shut-In(2)
154	50.32	103.99	End Shut-In(2)
155	1790.96	104.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

## 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: Ryan Greenbaum

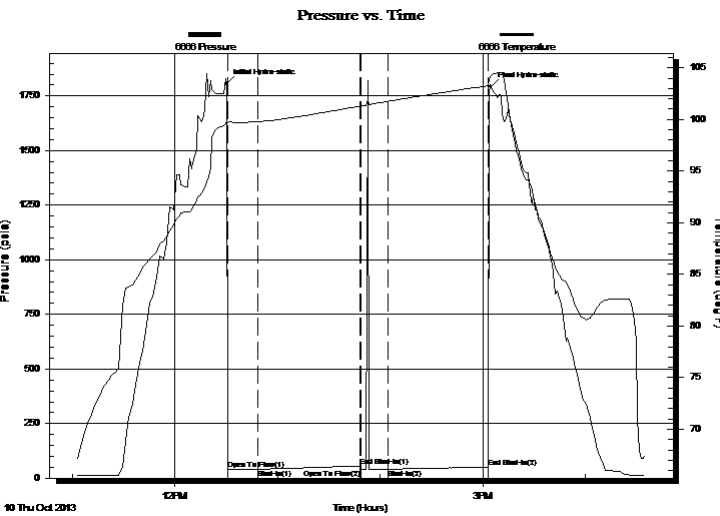
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18165 **DST#: 4**  
 Test Start: 2013.10.10 @ 11:02:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:31:30  
 Time Test Ended: 16:35:00  
 Interval: **3624.00 ft (KB) To 3650.00 ft (KB) (TVD)**  
 Total Depth: 3650.00 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/36  
 Reference Elevations: 1946.00 ft (KB)  
 1938.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**  
 Press @ RunDepth: 50.52 psia @ 3647.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.10 End Date: 2013.10.10 Last Calib.: 2013.10.10  
 Start Time: 11:02:00 End Time: 16:34:30 Time On Btm: 2013.10.10 @ 12:30:00  
 Time Off Btm: 2013.10.10 @ 15:04:30

**TEST COMMENT:** 1ST Open 18 Minutes/Weak surface blow /Blow died in 12 minutes  
 1ST Shut In 60 Minutes/No blow back  
 2ND Open 15 Minutes/Dead no blow /Flush tool no help  
 2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1804.61	99.87	Initial Hydro-static
1	40.11	99.67	Open To Flow (1)
18	41.51	99.78	Shut-In(1)
78	54.75	101.28	End Shut-In(1)
79	42.37	101.30	Open To Flow (2)
95	40.85	101.76	Shut-In(2)
153	50.52	103.27	End Shut-In(2)
155	1792.97	104.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18165

**DST#: 4**

Test Start: 2013.10.10 @ 11:02:00

## Tool Information

Drill Pipe:	Length: 3629.00 ft	Diameter: 3.80 inches	Volume: 50.91 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: 60000.00 lb
			<u>Total Volume: 50.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3624.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			3602.00	
Hydraulic Tool	5.00			3607.00	
Jars	5.00			3612.00	
Safety Joint	2.00			3614.00	
Packer	5.00			3619.00	27.00 Bottom Of Top Packer
Packer	5.00			3624.00	
Anchor	21.00			3645.00	
Recorder	1.00	6749	Inside	3646.00	
Recorder	1.00	6666	Outside	3647.00	
Bullnose	3.00			3650.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>53.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18165

**DST#: 4**

Test Start: 2013.10.10 @ 11:02:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 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
1.00	Mud 100%	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

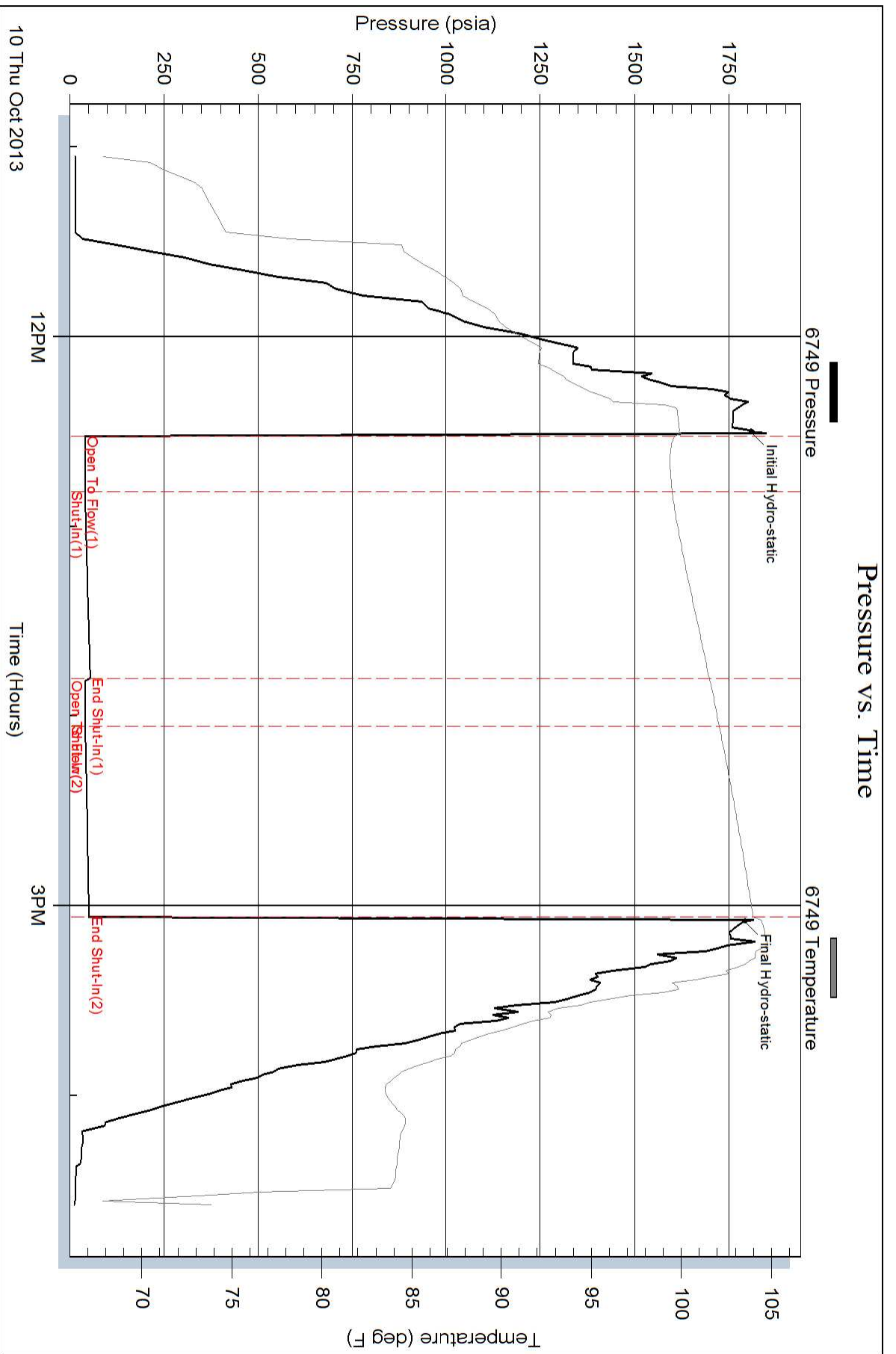
Num Gas Bombs: 0

Serial #:

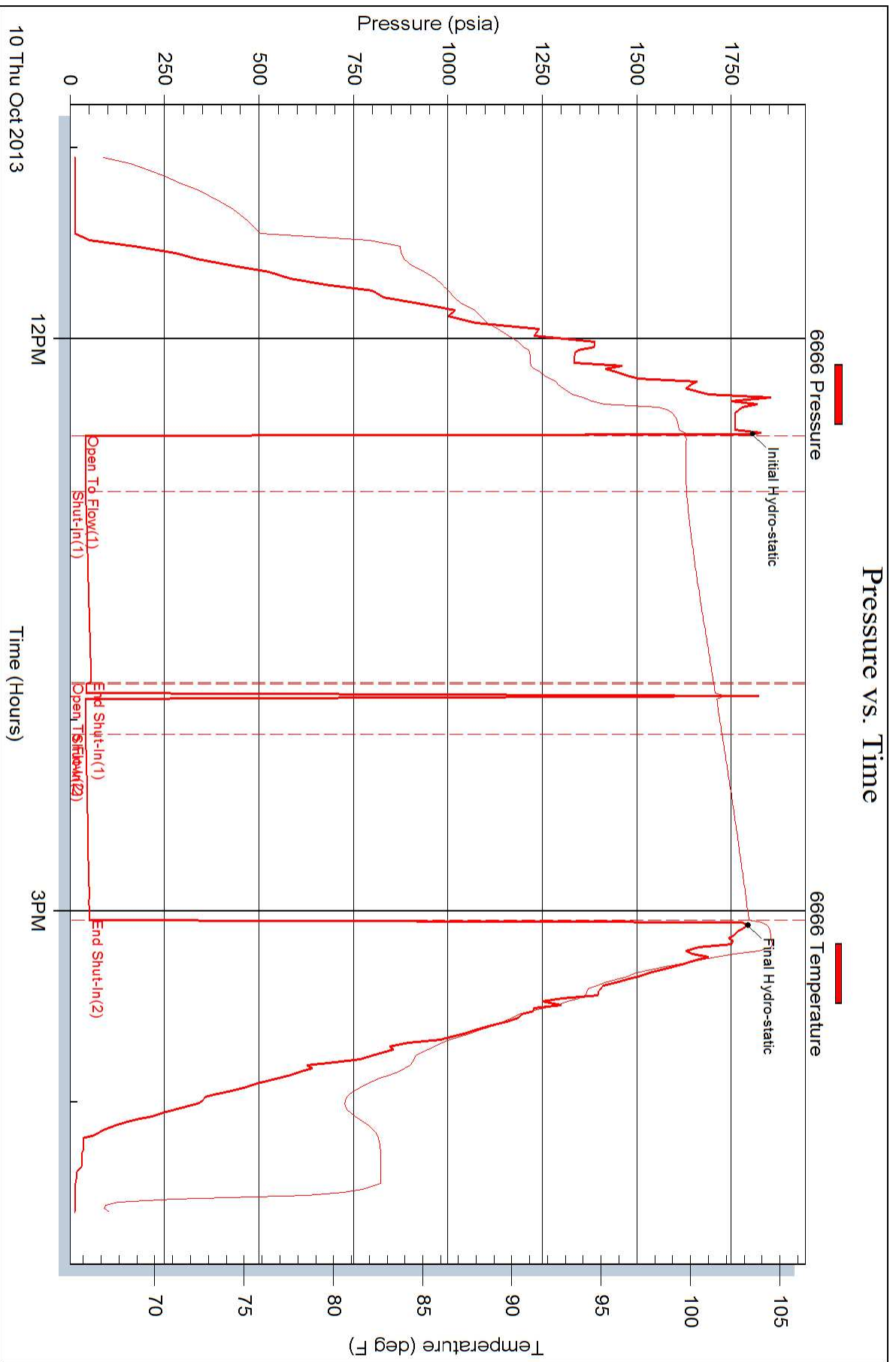
Laboratory Name:

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: Ryan Greenbaum

### **Krupp 3-10**

#### **10/22S/14W/Stafford**

Start Date: 2013.10.11 @ 08:30:00

End Date: 2013.10.11 @ 14:03:00

Job Ticket #: 18166                      DST #: 5

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

Printed: 2013.10.11 @ 14:12:00



# DRILL STEM TEST REPORT

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18166

**DST#: 5**

Test Start: 2013.10.11 @ 08:30:00

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:02:00

Time Test Ended: 14:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

**Interval: 3650.00 ft (KB) To 3770.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3770.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6749**

**Inside**

Press @ RunDepth: 96.98 psia @ 3765.68 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.11

End Date: 2013.10.11

Last Calib.: 2013.10.11

Start Time: 08:30:00

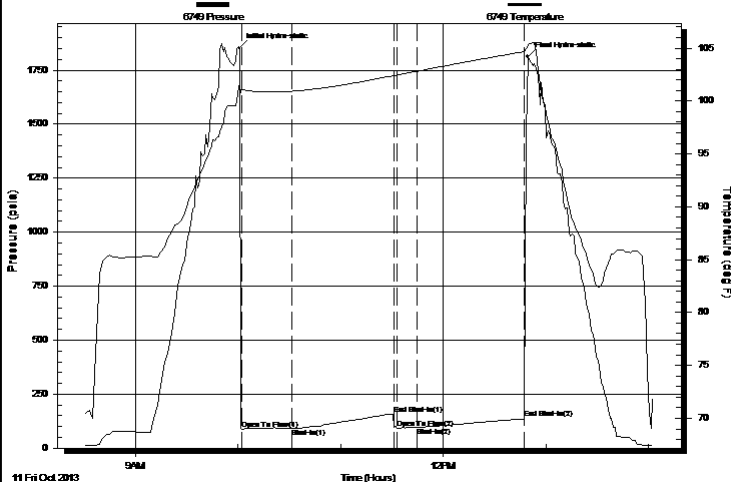
End Time: 14:03:00

Time On Btm: 2013.10.11 @ 10:01:00

Time Off Btm: 2013.10.11 @ 12:49:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 1/2 inch  
1ST Shut Inn 60 Minutes/No blow back  
2ND Open 15 Minutes/Dead no blow /Flush tool no help  
2ND Shut in 60 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

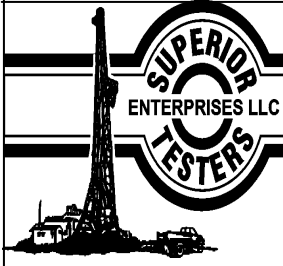
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1852.47	101.52	Initial Hydro-static
1	88.81	101.16	Open To Flow (1)
31	91.99	100.93	Shut-In(1)
90	158.48	102.40	End Shut-In(1)
92	93.61	102.44	Open To Flow (2)
104	96.98	102.81	Shut-In(2)
167	136.16	104.67	End Shut-In(2)
169	1812.61	105.24	Final Hydro-static

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

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

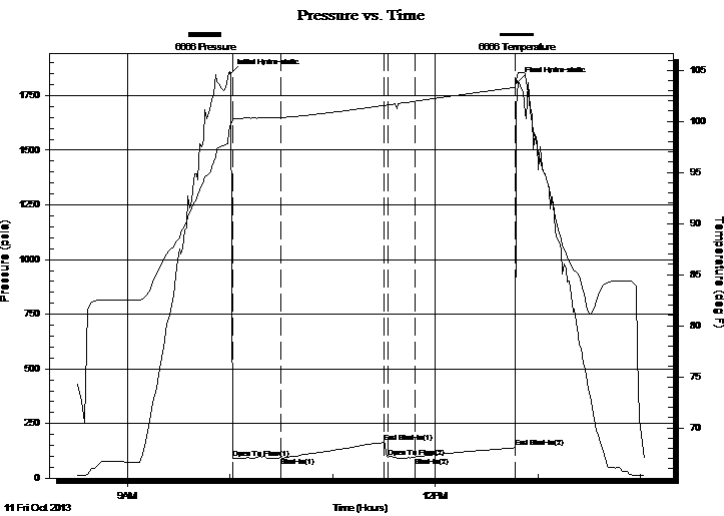
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18166 **DST#: 5**  
 Test Start: 2013.10.11 @ 08:30:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:02:00 Tester: Ken Swinney  
 Time Test Ended: 14:03:00 Unit No: 3325 Great Bend/36  
 Interval: **3650.00 ft (KB) To 3770.00 ft (KB) (TVD)** Reference Elevations: 1946.00 ft (KB)  
 Total Depth: 3770.00 ft (KB) (TVD) 1938.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**  
 Press @ Run Depth: 139.16 psia @ 3766.68 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.11 End Date: 2013.10.11 Last Calib.: 2013.10.11  
 Start Time: 08:30:00 End Time: 14:02:30 Time On Btm: 2013.10.11 @ 10:00:30  
 Time Off Btm: 2013.10.11 @ 12:48:30

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow/Blow built to 1/2 inch  
 1ST Shut Inn 60 Minutes/No blow back  
 2ND Open 15 Minutes/Dead no blow /Flush tool no help  
 2ND Shut in 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1852.48	99.80	Initial Hydro-static
1	88.51	100.06	Open To Flow (1)
30	93.59	100.38	Shut-In(1)
90	163.95	101.56	End Shut-In(1)
92	95.23	101.59	Open To Flow (2)
108	95.82	101.96	Shut-In(2)
166	139.16	103.31	End Shut-In(2)
168	1812.15	104.77	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

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18166

**DST#: 5**

Test Start: 2013.10.11 @ 08:30:00

## Tool Information

Drill Pipe:	Length: 3631.00 ft	Diameter: 3.80 inches	Volume: 50.93 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: 66000.00 lb
			<u>Total Volume: 50.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3650.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	119.68 ft			
Tool Length:	146.68 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			3628.00	
Hydraulic Tool	5.00			3633.00	
Jars	5.00			3638.00	
Safety Joint	2.00			3640.00	
Packer	5.00			3645.00	27.00 Bottom Of Top Packer
Packer	5.00			3650.00	
Perforations	3.00			3653.00	
Change Over Sub	0.75			3653.75	
Drill Pipe	95.18			3748.93	
Change Over Sub	0.75			3749.68	
Anchor	15.00			3764.68	
Recorder	1.00	6749	Inside	3765.68	
Recorder	1.00	6666	Outside	3766.68	
Bullnose	3.00			3769.68	119.68 Bottom Packers & Anchor

**Total Tool Length: 146.68**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18166

**DST#: 5**

Test Start: 2013.10.11 @ 08:30:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4700.00 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

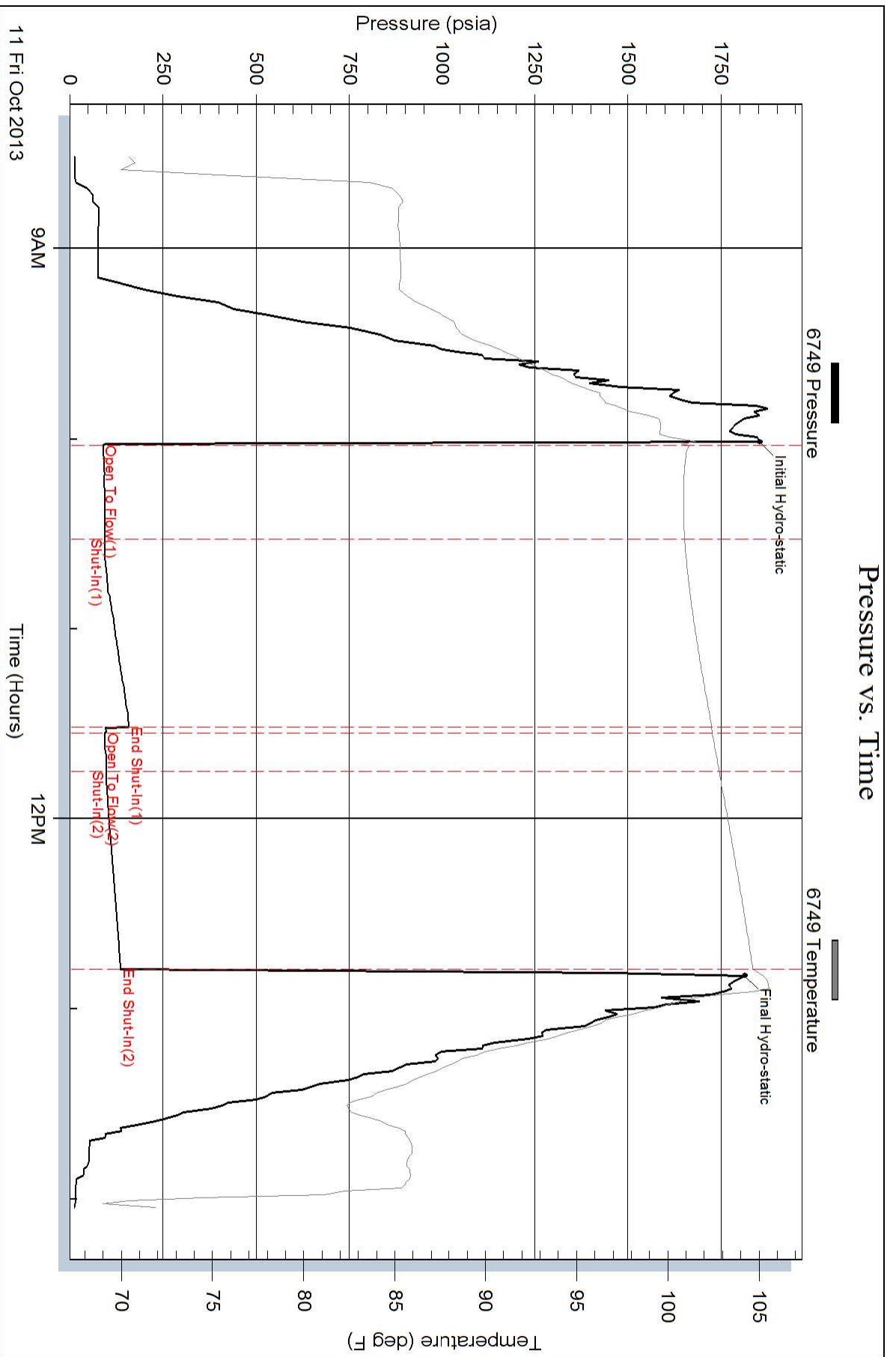
Serial #:

Laboratory Name:

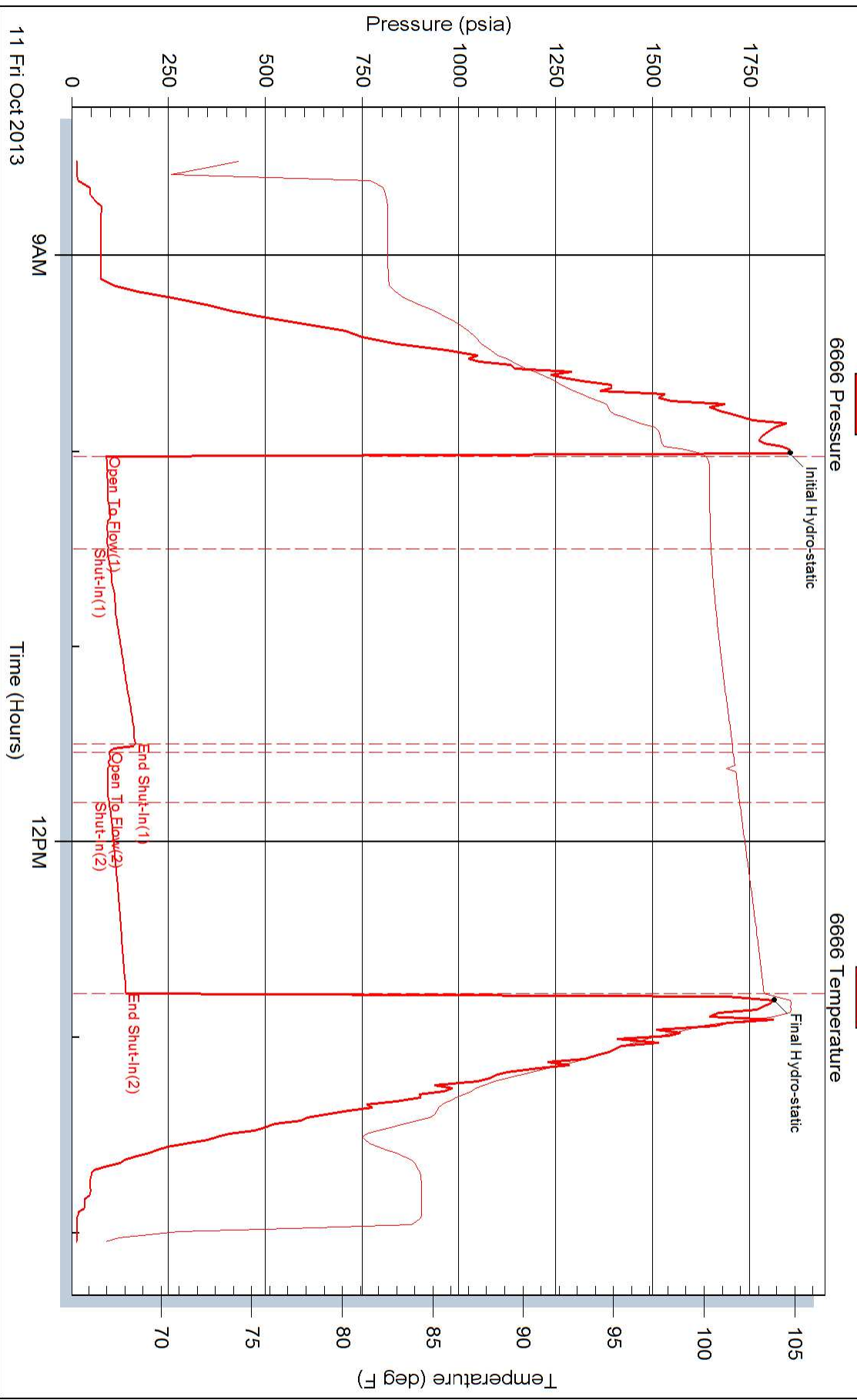
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Ryan Greenbaum

**Krupp 3-10**

**10/22S/14W/Stafford**

Start Date: 2013.10.11 @ 23:38:00

End Date: 2013.10.12 @ 08:07:30

Job Ticket #: 18177                      DST #: 6

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

Printed: 2013.10.12 @ 06:37:20





# DRILL STEM TEST REPORT

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

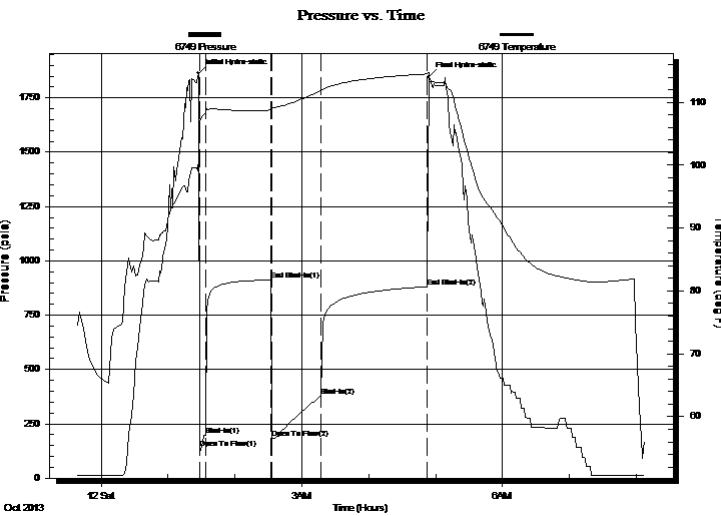
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18177 **DST#: 6**  
 Test Start: 2013.10.11 @ 23:38:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:28:30 Tester: Ken Swinney  
 Time Test Ended: 08:07:30 Unit No: 3325 Great Bend/36  
 Interval: **3762.00 ft (KB) To 3790.00 ft (KB) (TVD)** Reference Elevations: 1946.00 ft (KB)  
 Total Depth: 3790.00 ft (KB) (TVD) 1938.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press @ Run Depth: 378.97 psia @ 3786.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.11 End Date: 2013.10.12 Last Calib.: 2013.10.12  
 Start Time: 23:38:00 End Time: 08:07:30 Time On Btm: 2013.10.12 @ 01:27:30  
 Time Off Btm: 2013.10.12 @ 04:54:00

**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 3 minutes 15 seconds  
 1ST Shut In 60 Minutes/Blow back built to 7 inches  
 2ND Open 45 Minutes/Stong blow /Blow built to bottom of bucket in 3 minutes 30 seconds  
 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 40 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1863.37	101.00	Initial Hydro-static
1	138.65	106.89	Open To Flow (1)
6	195.84	108.44	Shut-In(1)
65	912.68	108.80	End Shut-In(1)
66	182.83	109.05	Open To Flow (2)
111	378.97	111.88	Shut-In(2)
205	880.86	114.54	End Shut-In(2)
207	1846.25	114.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	511 feet of gas in pipe	0.00
667.00	Clean Gassy Oil	9.36
0.00	Gas 20% Oil 80%	0.00
186.00	Muddy Oil	2.61
0.00	Mud 25% Oil 75%	0.00
0.00	Corrected Gravity Oil 32	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18177

**DST#: 6**

Test Start: 2013.10.11 @ 23:38:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:28:30

Time Test Ended: 08:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

**Interval: 3762.00 ft (KB) To 3790.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press @ RunDepth: 879.23 psia @ 3787.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.11

End Date:

2013.10.12

Last Calib.:

2013.10.12

Start Time: 23:38:00

End Time:

08:07:00

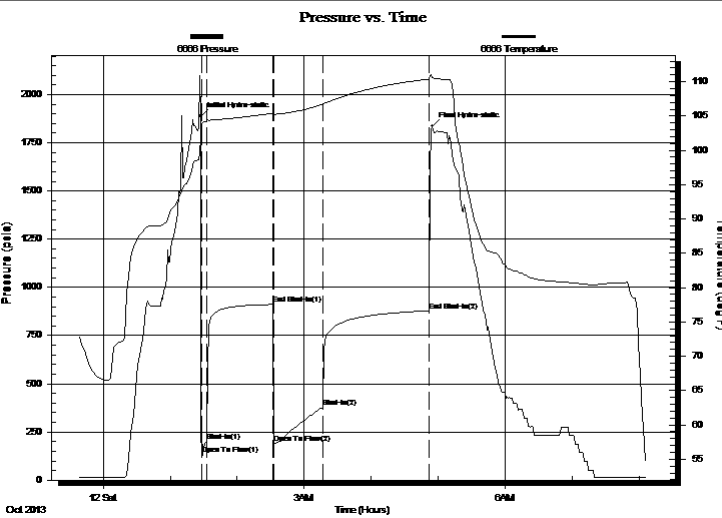
Time On Btm:

2013.10.12 @ 01:27:00

Time Off Btm:

2013.10.12 @ 04:54:30

**TEST COMMENT:** 1ST Open 5 Minutes/Strong blow/Blow built to bottom of bucket in 3 minutes 15 seconds  
 1ST Shut In 60 Minutes/Blow back built to 7 inches  
 2ND Open 45 Minutes/Stong blow /Blow built to bottom of bucket in 3 minutes 30 seconds  
 2ND Shut In 90 Minutes/Blow back built to bottom of bucket in 40 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1887.24	101.64	Initial Hydro-static
1	132.29	103.51	Open To Flow (1)
6	200.31	104.21	Shut-In(1)
65	911.41	105.40	End Shut-In(1)
66	190.08	105.22	Open To Flow (2)
110	380.30	106.74	Shut-In(2)
205	879.23	110.39	End Shut-In(2)
208	1835.63	110.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	511 feet of gas in pipe	0.00
667.00	Clean Gassy Oil	9.36
0.00	Gas 20% Oil 80%	0.00
186.00	Muddy Oil	2.61
0.00	Mud 25% Oil 75%	0.00
0.00	Corrected Gravity Oil 32	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18177

**DST#: 6**

Test Start: 2013.10.11 @ 23:38:00

## Tool Information

Drill Pipe:	Length: 3755.00 ft	Diameter: 3.80 inches	Volume: 52.67 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: 52.67 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3762.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			3740.00	
Hydraulic Tool	5.00			3745.00	
Jars	5.00			3750.00	
Safety Joint	2.00			3752.00	
Packer	5.00			3757.00	27.00 Bottom Of Top Packer
Packer	5.00			3762.00	
Anchor	23.00			3785.00	
Recorder	1.00	6749	Inside	3786.00	
Recorder	1.00	6666	Outside	3787.00	
Bullnose	3.00			3790.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>55.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18177

**DST#: 6**

Test Start: 2013.10.11 @ 23:38:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4700.00 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	511 feet of gas in pipe	0.000
667.00	Clean Gassy Oil	9.356
0.00	Gas 20% Oil 80%	0.000
186.00	Muddy Oil	2.609
0.00	Mud 25% Oil 75%	0.000
0.00	Corrected Gravity Oil 32	0.000

Total Length: 853.00 ft      Total Volume: 11.965 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

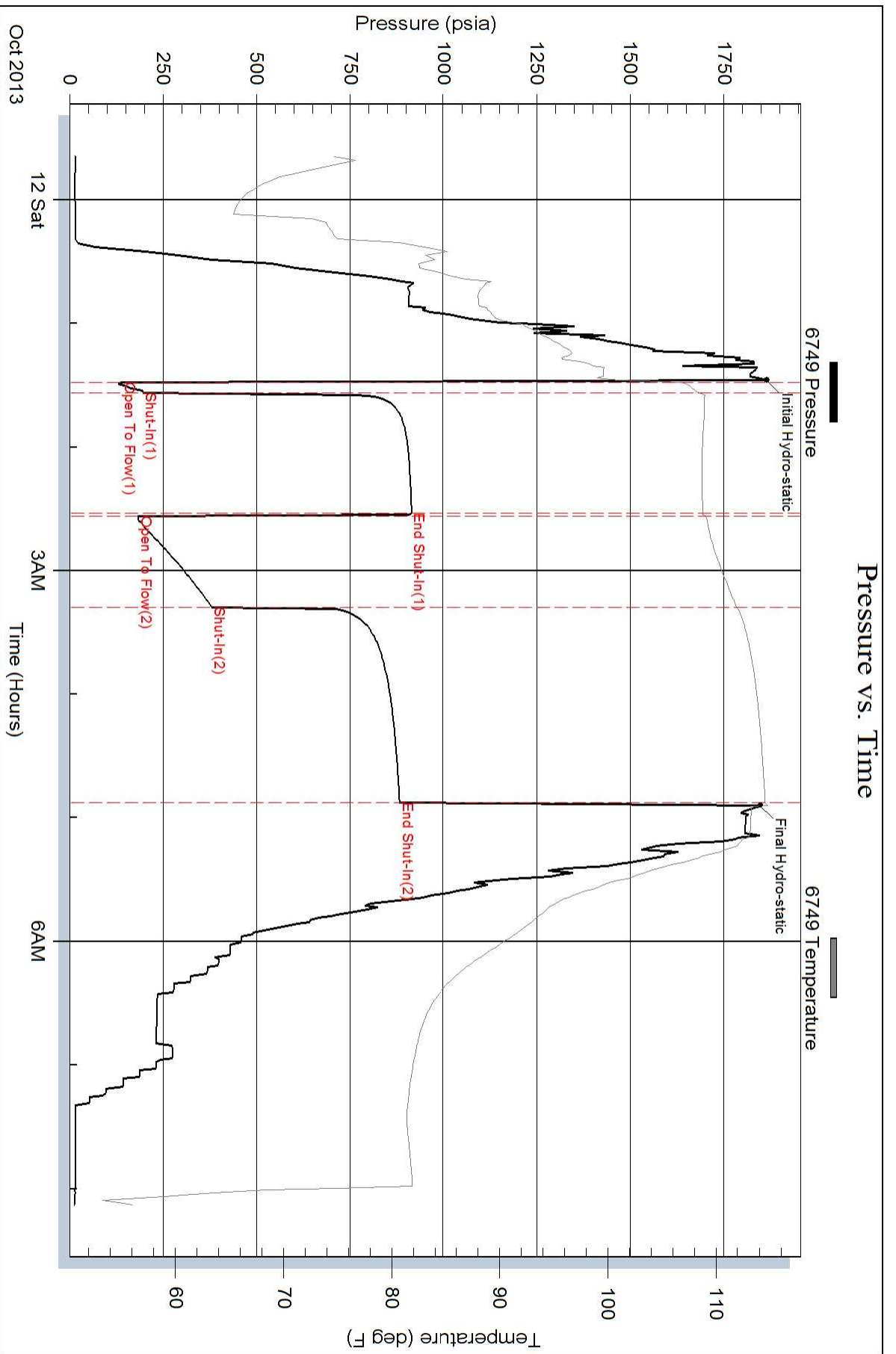
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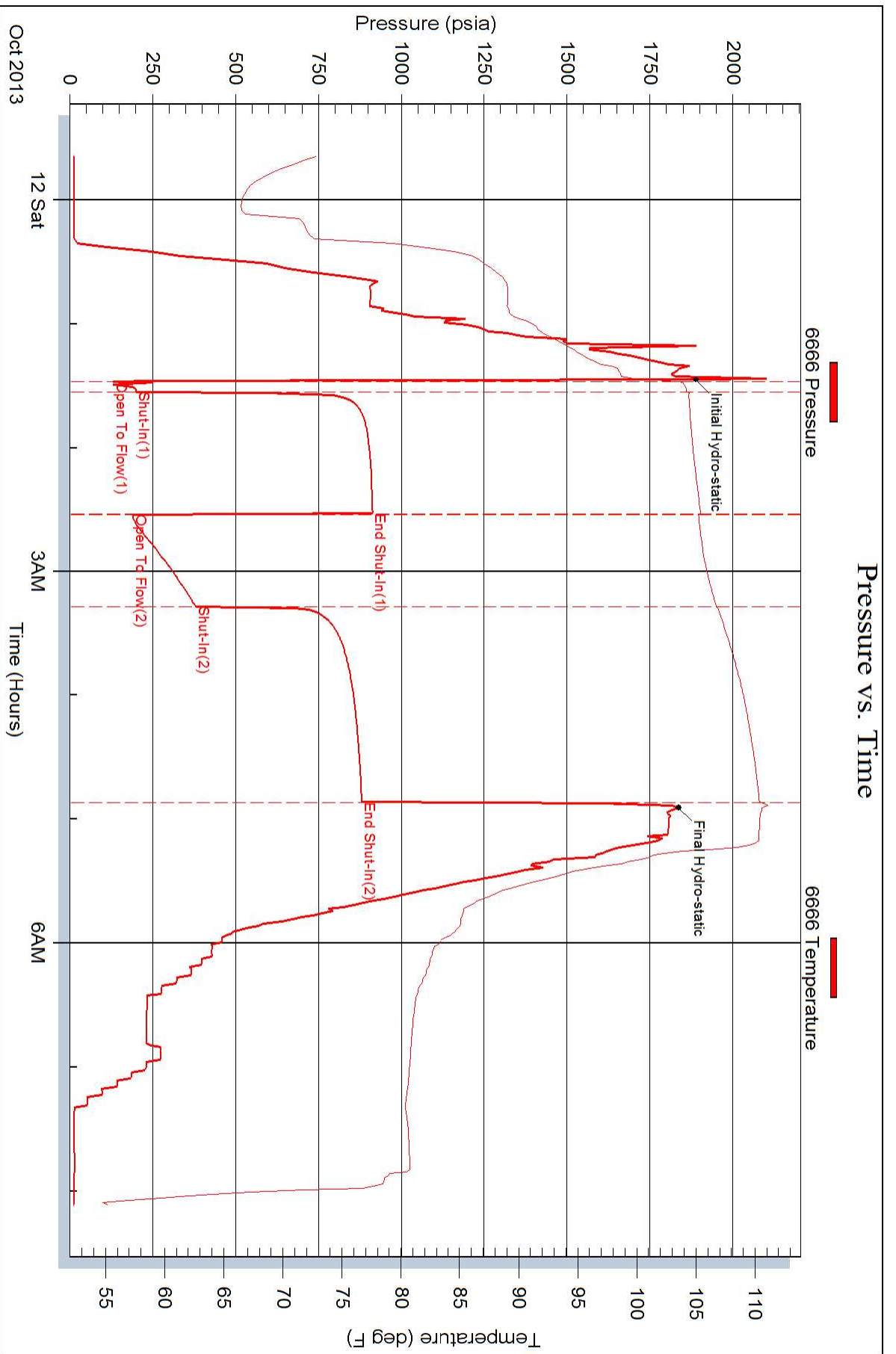
Laboratory Name:

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: Ryan Greenbaum

### **Krupp 3-10**

#### **10/22S/14W/Stafford**

Start Date: 2013.10.12 @ 14:44:00

End Date: 2013.10.12 @ 19:59:30

Job Ticket #: 18168                      DST #: 7

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

Printed: 2013.10.12 @ 20:10:08



# DRILL STEM TEST REPORT

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18168

**DST#: 7**

Test Start: 2013.10.12 @ 14:44:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:17:30

Time Test Ended: 19:59:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

**Interval: 3808.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 6749**

**Inside**

Press @ Run Depth: 1095.81 psia @ 3810.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.12

End Date: 2013.10.12

Last Calib.: 2013.10.12

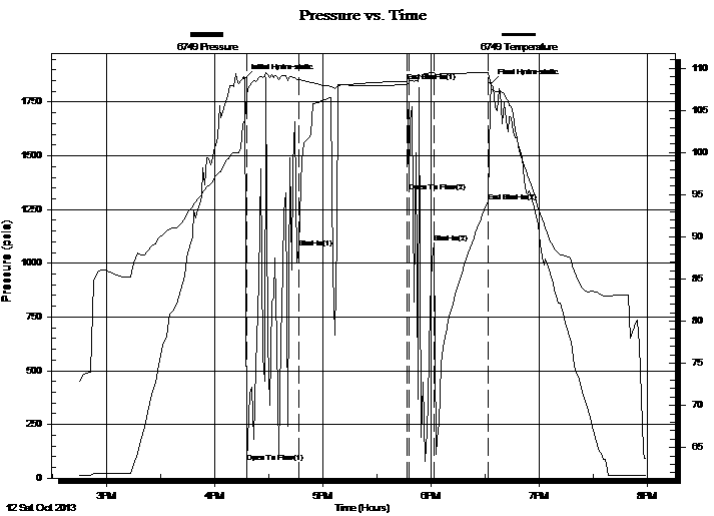
Start Time: 14:44:00

End Time: 19:59:30

Time On Btm: 2013.10.12 @ 16:16:30

Time Off Btm: 2013.10.12 @ 18:33:00

**TEST COMMENT:** 1ST Open 30 Min/6 ft slide before open, 5 ft after open, tool still 6 foot high/Surging blow to 1 1/2 in died to 1 in  
1ST Shut In 60 Min/No blow back  
2ND Open 15 Min/Dead no blow /Flush tool no help  
2ND Shut In 30 Min/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1861.18	103.72	Initial Hydro-static
1	73.02	106.71	Open To Flow (1)
30	1072.36	108.62	Shut-In(1)
90	1843.85	108.08	End Shut-In(1)
91	1331.57	108.29	Open To Flow (2)
105	1095.81	109.49	Shut-In(2)
136	1284.26	109.50	End Shut-In(2)
137	1836.53	107.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.28

## Gas Rates

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





# DRILL STEM TEST REPORT

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18168

**DST#: 7**

Test Start: 2013.10.12 @ 14:44:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:17:30

Time Test Ended: 19:59:30

**Interval: 3808.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Total Depth: 3814.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition:

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

Reference Elevations: 1946.00 ft (KB)

1938.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Outside**

Press @ RunDepth: 1291.44 psia @ 3811.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.12

End Date: 2013.10.12

Last Calib.: 2013.10.12

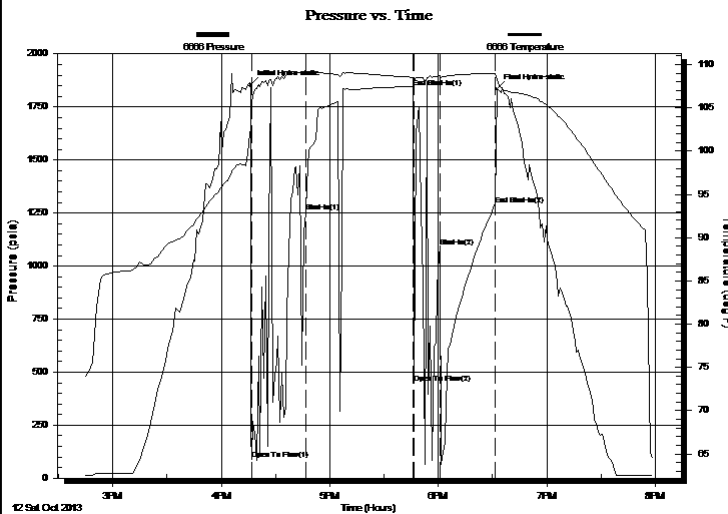
Start Time: 14:44:00

End Time: 19:59:00

Time On Btm: 2013.10.12 @ 16:16:00

Time Off Btm: 2013.10.12 @ 18:32:30

**TEST COMMENT:** 1ST Open 30 Min/6 ft slide before open, 5 ft after open, tool still 6 foot high/Surging blow to 1 1/2 in died to 1 in  
1ST Shut In 60 Min/No blow back  
2ND Open 15 Min/Dead no blow /Flush tool no help  
2ND Shut In 30 Min/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1857.19	102.43	Initial Hydro-static
1	86.82	105.64	Open To Flow (1)
31	1255.22	109.08	Shut-In(1)
90	1843.94	108.53	End Shut-In(1)
91	449.48	108.01	Open To Flow (2)
105	1090.21	108.75	Shut-In(2)
136	1291.44	109.01	End Shut-In(2)
137	1836.37	108.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.28

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18168

**DST#: 7**

Test Start: 2013.10.12 @ 14:44:00

## Tool Information

Drill Pipe:	Length: 3787.00 ft	Diameter: 3.80 inches	Volume: 53.12 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: 56000.00 lb
			<u>Total Volume: 53.12 bbl</u>	Tool Chased 11.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3808.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 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			3786.00	
Hydraulic Tool	5.00			3791.00	
Jars	5.00			3796.00	
Safety Joint	2.00			3798.00	
Packer	5.00			3803.00	27.00 Bottom Of Top Packer
Packer	5.00			3808.00	
Anchor	1.00			3809.00	
Recorder	1.00	6749	Inside	3810.00	
Recorder	1.00	6666	Outside	3811.00	
Bullnose	3.00			3814.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18168

**DST#: 7**

Test Start: 2013.10.12 @ 14:44:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5300.00 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
20.00	Mud 100%	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

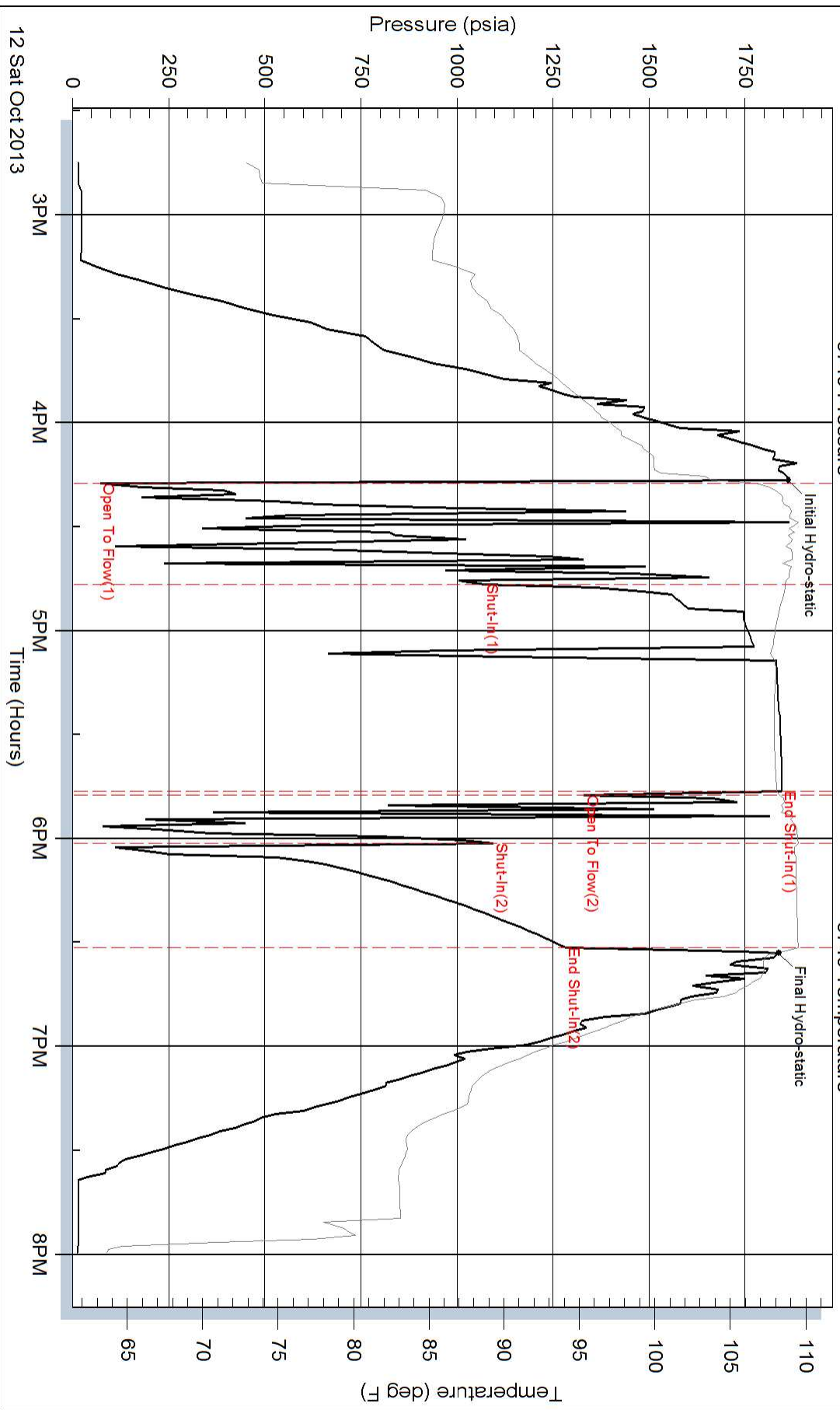
Serial #:

Laboratory Name:

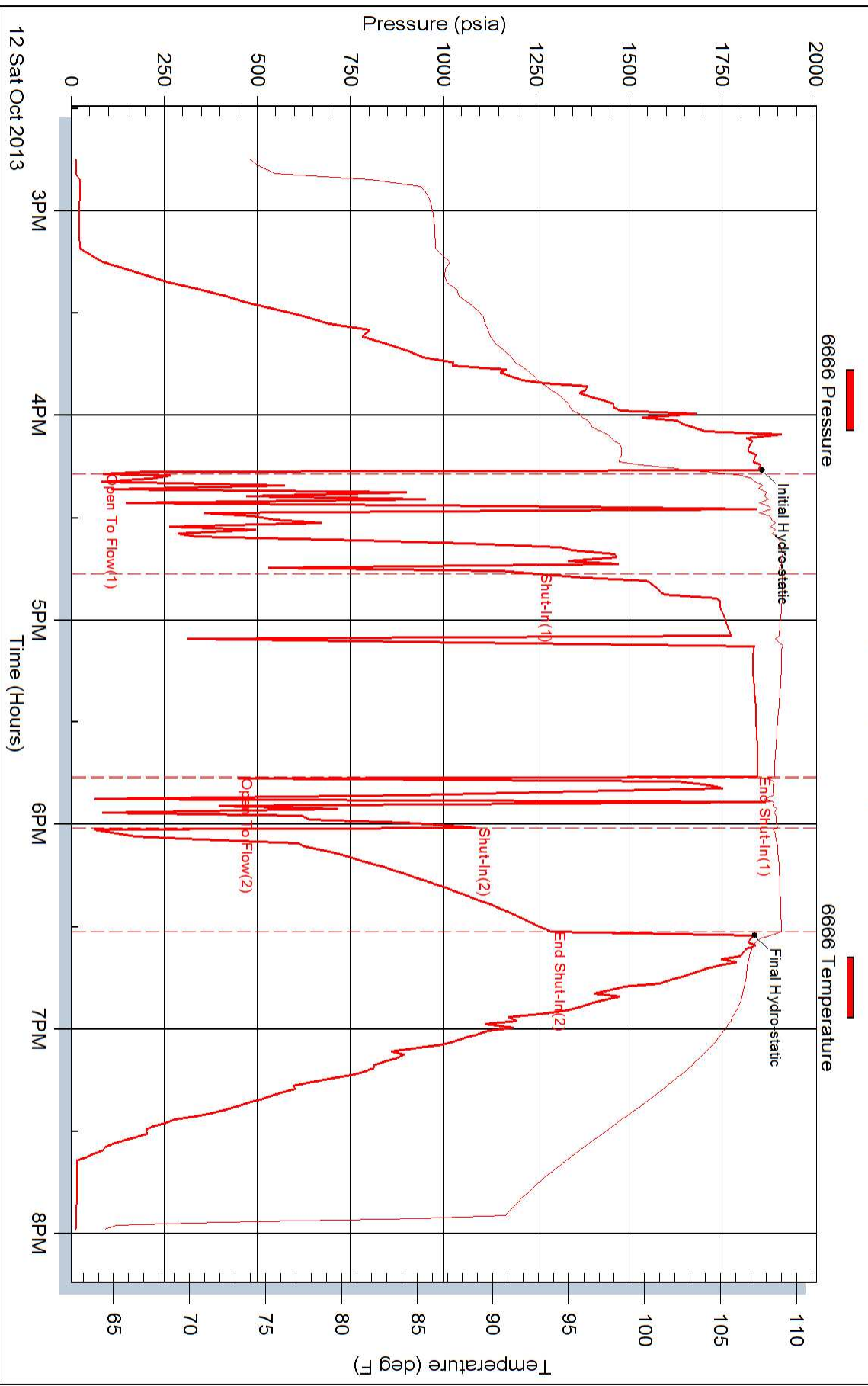
Laboratory Location:

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: Ryan Greenbaum

### **Krupp 3-10**

#### **10/22S/14W/Stafford**

Start Date: 2013.10.13 @ 02:37:00

End Date: 2013.10.13 @ 08:15:00

Job Ticket #: 18169                      DST #: 8

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

Printed: 2013.10.13 @ 08:34:21



# DRILL STEM TEST REPORT

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18169

**DST#: 8**

Test Start: 2013.10.13 @ 02:37:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:19:30

Time Test Ended: 08:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/36

**Interval: 3808.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Reference Elevations: 1946.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

1938.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**

Press @ Run Depth: 69.38 psia @ 3810.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.13

End Date: 2013.10.13

Last Calib.: 2013.10.13

Start Time: 02:37:00

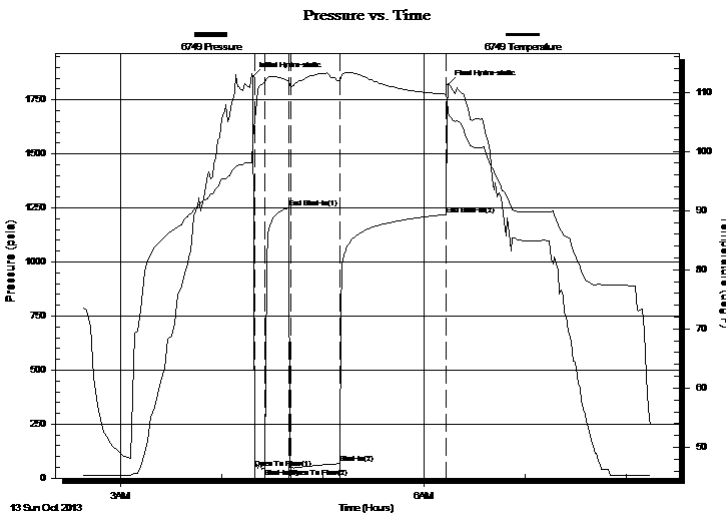
End Time: 08:15:00

Time On Btm: 2013.10.13 @ 04:18:30

Time Off Btm: 2013.10.13 @ 06:14:30

**TEST COMMENT:** 1ST Open 5 Minutes/Good blow /Blow built to 3 1/2 inches  
1ST Shut In 15 Minutes/No blow back  
2ND Open 30 Minutes/Good blow /Blow built to 8 1/2 inches  
2ND Shut In 60 Minutes/Light surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1855.65	102.00	Initial Hydro-static
1	45.22	105.28	Open To Flow (1)
7	45.75	111.63	Shut-In(1)
22	1251.80	111.79	End Shut-In(1)
23	46.70	110.85	Open To Flow (2)
52	69.38	111.95	Shut-In(2)
115	1219.93	109.65	End Shut-In(2)
116	1820.13	106.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Clean Oil 100%	0.42
60.00	Muddy Oil	0.84
0.00	Mud 40% Oil 60%	0.00
0.00	Corrected Grav. Oil 27	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: Ryan Greenbaum

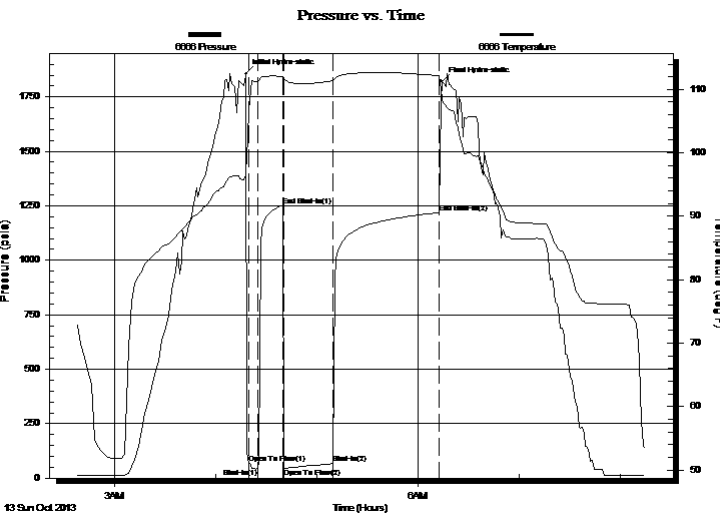
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18169 **DST#: 8**  
 Test Start: 2013.10.13 @ 02:37:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 04:19:30 Tester: Ken Swinney  
 Time Test Ended: 08:15:00 Unit No: 3325 Great Bend/36  
 Interval: **3808.00 ft (KB) To 3814.00 ft (KB) (TVD)** Reference Elevations: 1946.00 ft (KB)  
 Total Depth: 3814.00 ft (KB) (TVD) 1938.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**  
 Press @ Run Depth: 1218.42 psia @ 3811.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.13 End Date: 2013.10.13 Last Calib.: 2013.10.13  
 Start Time: 02:37:00 End Time: 08:15:00 Time On Btm: 2013.10.13 @ 04:18:00  
 Time Off Btm: 2013.10.13 @ 06:14:00

**TEST COMMENT:** 1ST Open 5 Minutes/Good blow /Blow built to 3 1/2 inches  
 1ST Shut In 15 Minutes/No blow back  
 2ND Open 30 Minutes/Good blow /Blow built to 8 1/2 inches  
 2ND Shut In 60 Minutes/Light surface blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1855.39	97.33	Initial Hydro-static
2	69.40	106.67	Open To Flow (1)
7	44.26	111.31	Shut-In(1)
22	1250.23	112.09	End Shut-In(1)
23	45.89	111.59	Open To Flow (2)
52	68.03	111.35	Shut-In(2)
115	1218.42	112.18	End Shut-In(2)
116	1821.99	108.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Clean Oil 100%	0.42
60.00	Muddy Oil	0.84
0.00	Mud 40% Oil 60%	0.00
0.00	Corrected Grav. Oil 27	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18169

**DST#: 8**

Test Start: 2013.10.13 @ 02:37:00

## Tool Information

Drill Pipe:	Length: 3787.00 ft	Diameter: 3.80 inches	Volume: 53.12 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: 58000.00 lb
			<u>Total Volume: 53.12 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3808.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 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			3786.00	
Hydraulic Tool	5.00			3791.00	
Jars	5.00			3796.00	
Safety Joint	2.00			3798.00	
Packer	5.00			3803.00	27.00 Bottom Of Top Packer
Packer	5.00			3808.00	
Anchor	1.00			3809.00	
Recorder	1.00	6749	Inside	3810.00	
Recorder	1.00	6666	Outside	3811.00	
Bullnose	3.00			3814.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18169

**DST#: 8**

Test Start: 2013.10.13 @ 02:37:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5300.00 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
30.00	Clean Oil 100%	0.421
60.00	Muddy Oil	0.842
0.00	Mud 40% Oil 60%	0.000
0.00	Corrected Grav. Oil 27	0.000

Total Length: 90.00 ft      Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

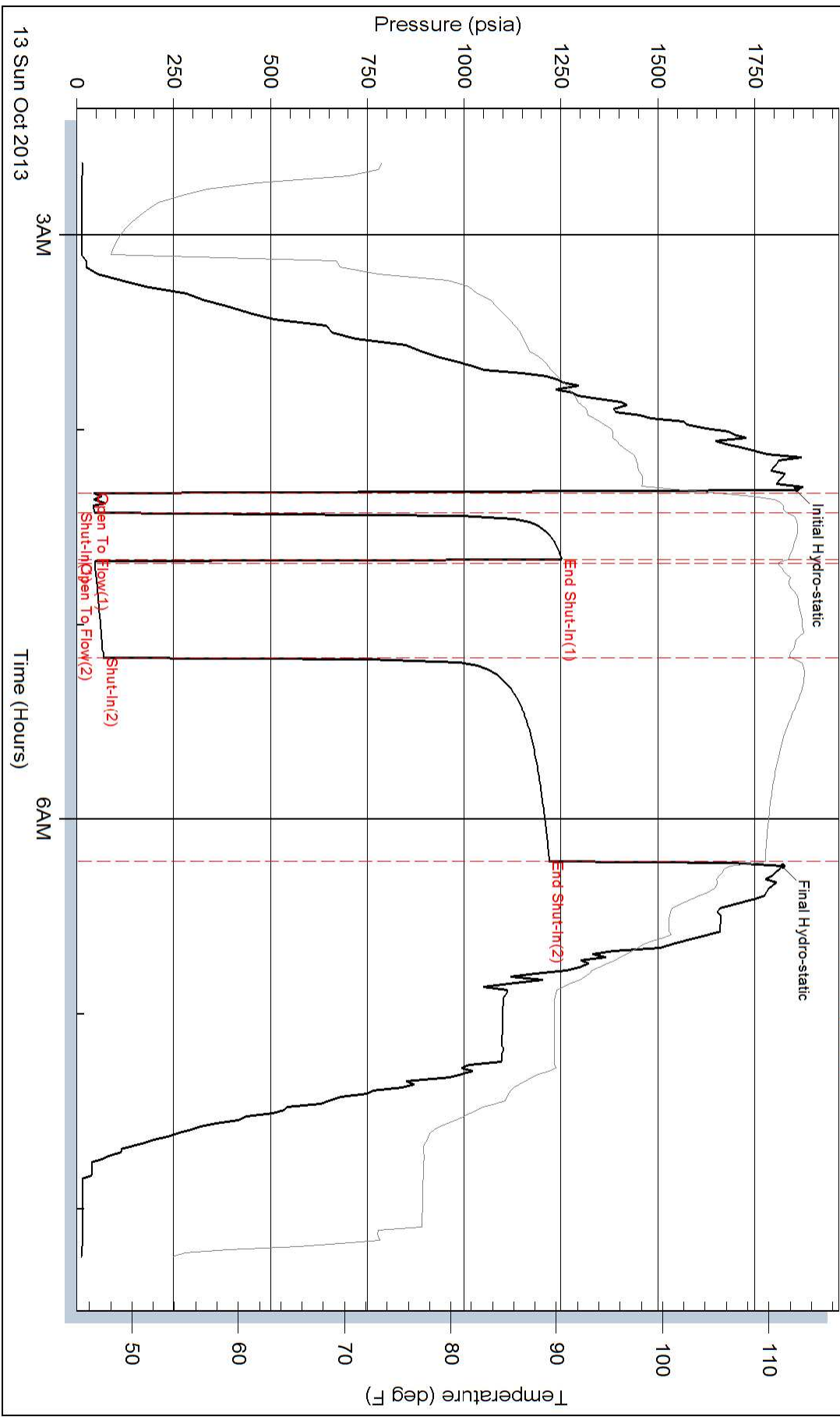
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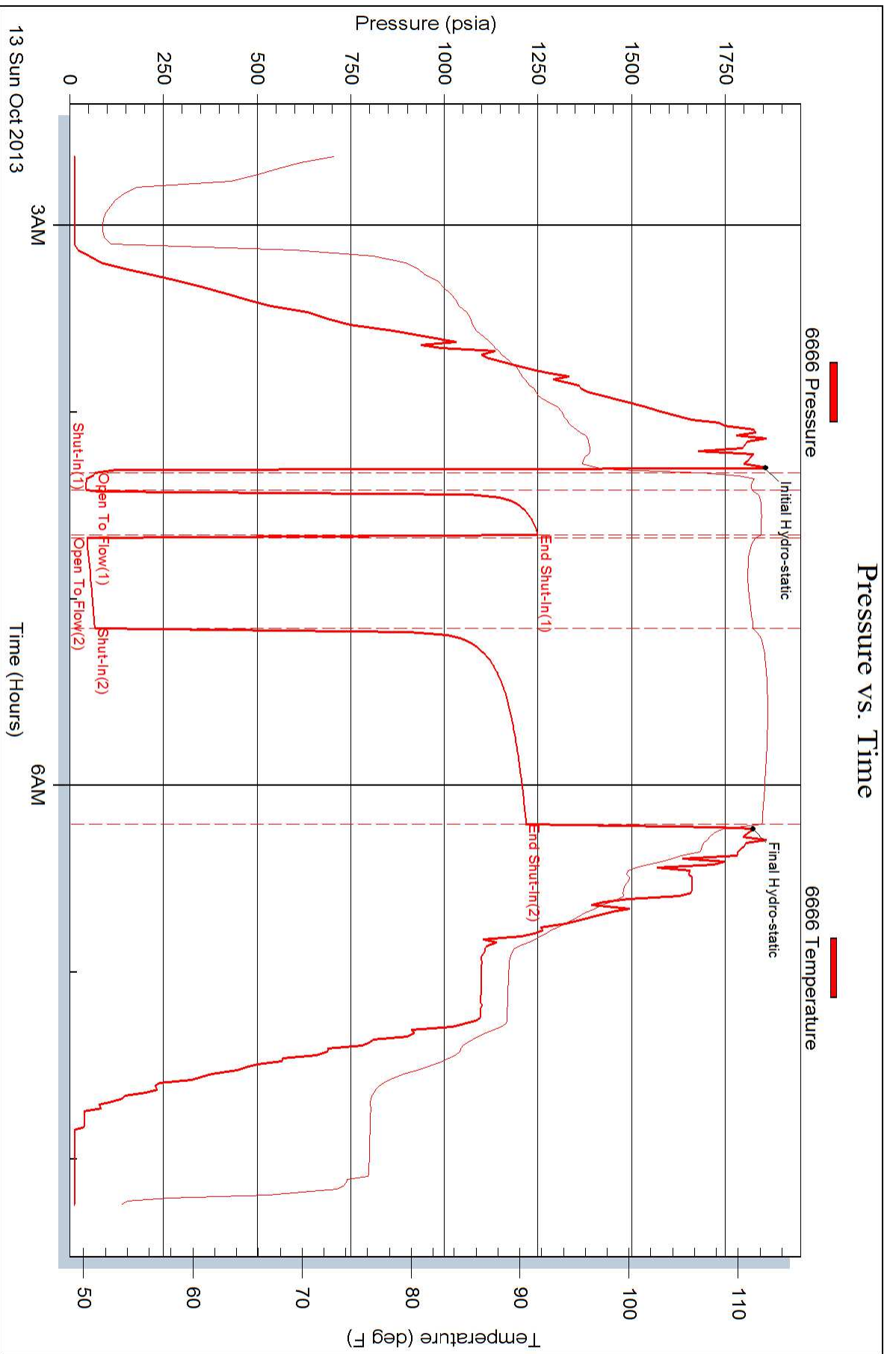
Laboratory Name:

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: Ryan Greenbaum

### **Krupp 3-10**

#### **10/22S/14W/Stafford**

Start Date: 2013.10.13 @ 15:37:00

End Date: 2013.10.13 @ 19:37:00

Job Ticket #: 18170                      DST #: 9

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

Printed: 2013.10.13 @ 20:09:02



# DRILL STEM TEST REPORT

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

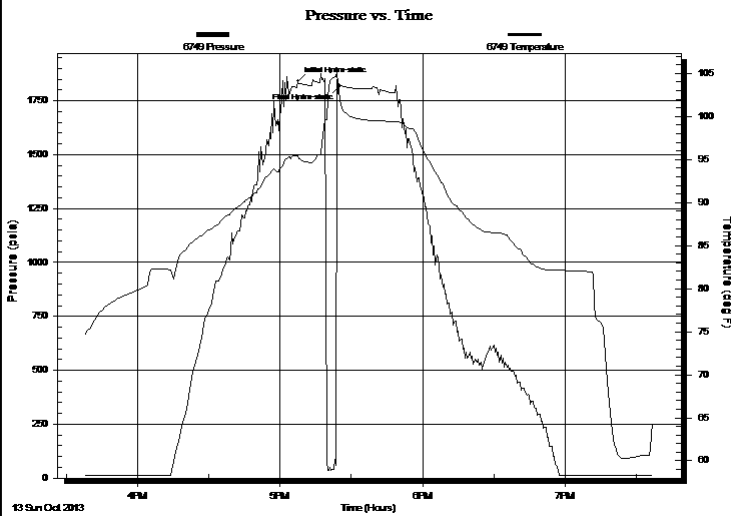
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18170 **DST#: 9**  
 Test Start: 2013.10.13 @ 15:37:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: Tester: Ken Swinney  
 Time Test Ended: 19:37:00 Unit No: 3325 Great Bend/36  
 Interval: **3813.00 ft (KB) To 3819.00 ft (KB) (TVD)** Reference Elevations: 1946.00 ft (KB)  
 Total Depth: 3819.00 ft (KB) (TVD) 1938.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**  
 Press @ RunDepth: psia @ 3815.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.13 End Date: 2013.10.13 Last Calib.: 2013.10.13  
 Start Time: 15:37:00 End Time: 19:37:00 Time On Btm: 2013.10.13 @ 17:07:30  
 Time Off Btm: 2013.10.13 @ 17:25:00

**TEST COMMENT:** Tool taking w eight 12 foot high, slide 7 foot surging blow with slide no build after, Pulled up and reset tool no help, pull test



## PRESSURE SUMMARY

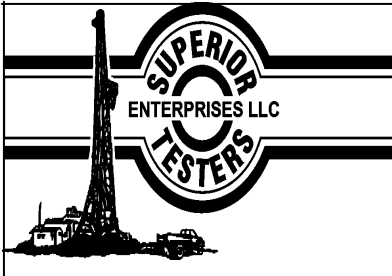
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.92	95.50	Initial Hydro-static
18	1822.46	102.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18170

**DST#: 9**

Test Start: 2013.10.13 @ 15:37:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened:  
Time Test Ended: 19:37:00

Test Type: Conventional Bottom Hole (Initial)  
Tester: Ken Swinney  
Unit No: 3325 Great Bend/36

Interval: **3813.00 ft (KB) To 3819.00 ft (KB) (TVD)**  
Total Depth: 3819.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition:

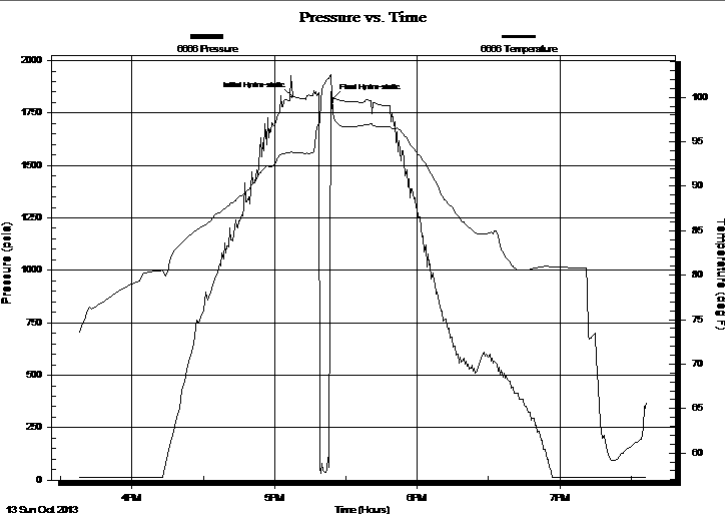
Reference Elevations: 1946.00 ft (KB)  
1938.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press @ RunDepth: psia @ 3816.00 ft (KB)  
Start Date: 2013.10.13 End Date: 2013.10.13  
Start Time: 15:37:00 End Time: 19:36:30

Capacity: psia  
Last Calib.: 1899.12.30  
Time On Btm: 2013.10.13 @ 17:07:30  
Time Off Btm: 2013.10.13 @ 17:24:30

**TEST COMMENT:** Tool taking w eight 12 foot high, slide 7 foot surging blow with slide no build after, Pulled up and reset tool no help, pull test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1828.15	93.78	Initial Hydro-static
17	1820.09	98.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18170

**DST#: 9**

Test Start: 2013.10.13 @ 15:37:00

## Tool Information

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.80 inches	Volume: 53.15 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: 60000.00 lb
			<u>Total Volume: 53.15 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3813.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 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			3791.00	
Hydraulic Tool	5.00			3796.00	
Jars	5.00			3801.00	
Safety Joint	2.00			3803.00	
Packer	5.00			3808.00	27.00 Bottom Of Top Packer
Packer	5.00			3813.00	
Anchor	1.00			3814.00	
Recorder	1.00	6749	Inside	3815.00	
Recorder	1.00	6666	Outside	3816.00	
Bullnose	3.00			3819.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18170

**DST#: 9**

Test Start: 2013.10.13 @ 15:37:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.20 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

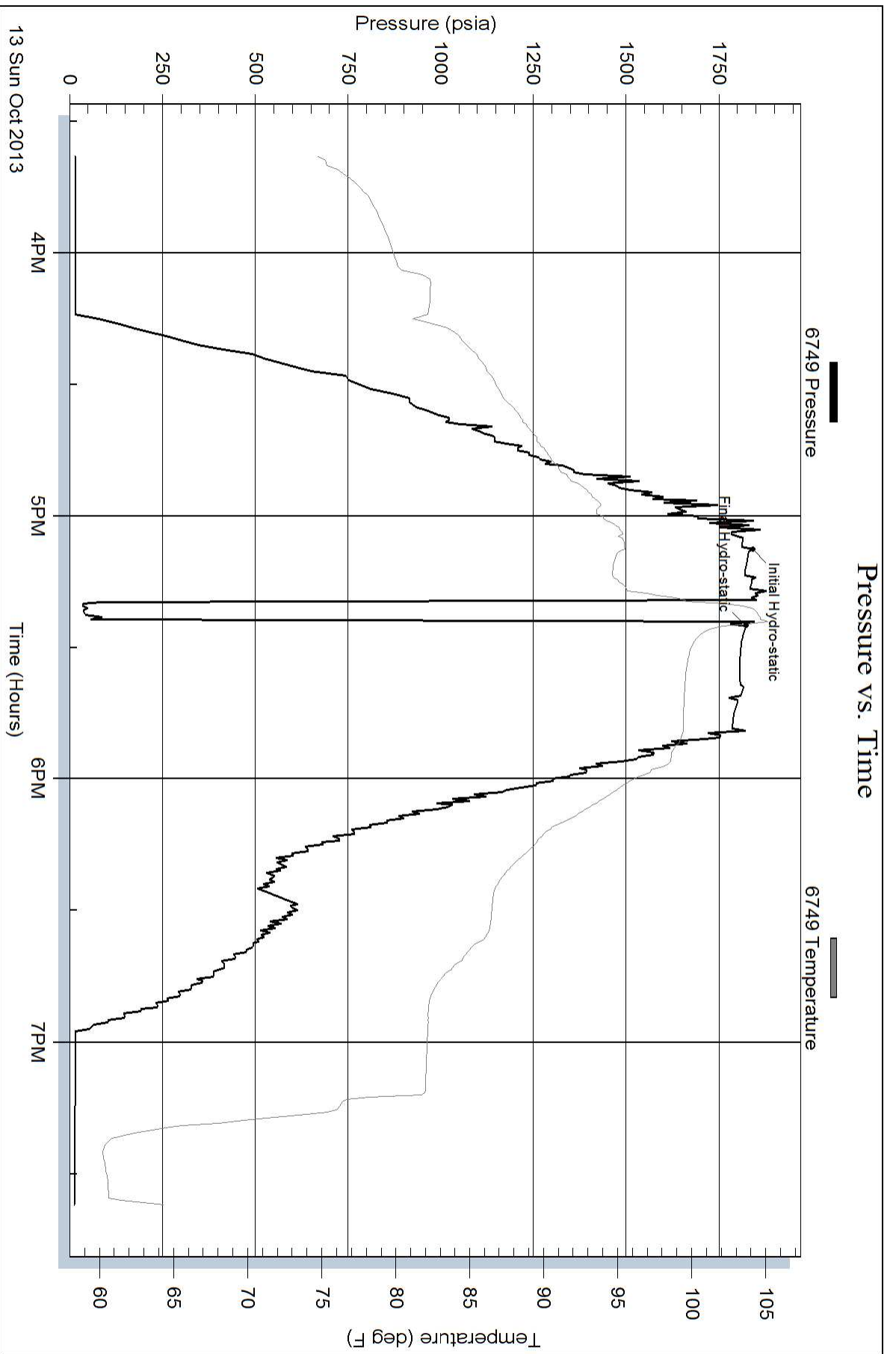
Num Gas Bombs: 0

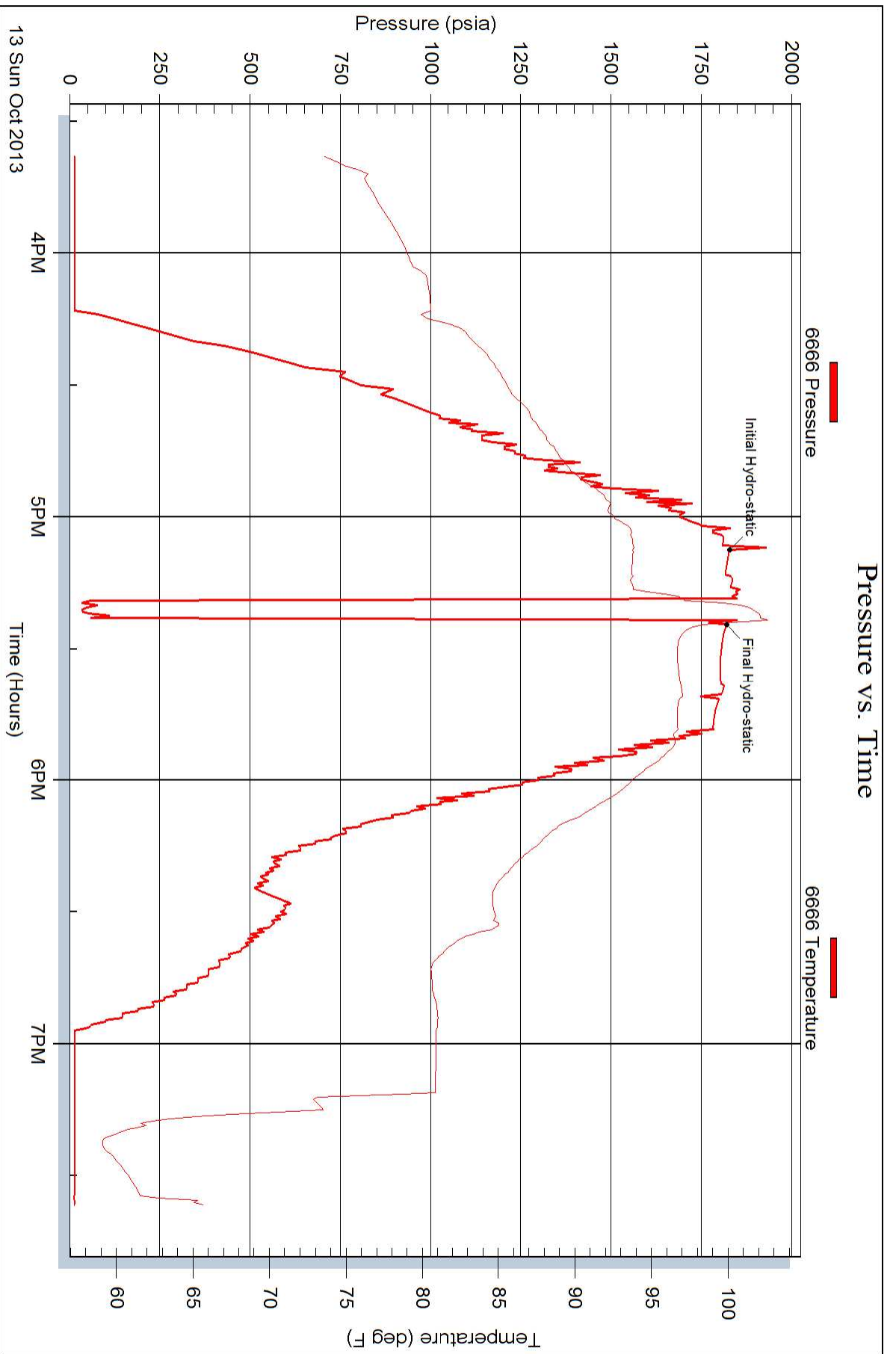
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Ryan Greenbaum

### **Krupp 3-10**

#### **10/22S/14W/Stafford**

Start Date: 2013.10.14 @ 01:39:00

End Date: 2013.10.14 @ 07:02:30

Job Ticket #: 18171                      DST #: 10

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

Printed: 2013.10.14 @ 07:14:13



# DRILL STEM TEST REPORT

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

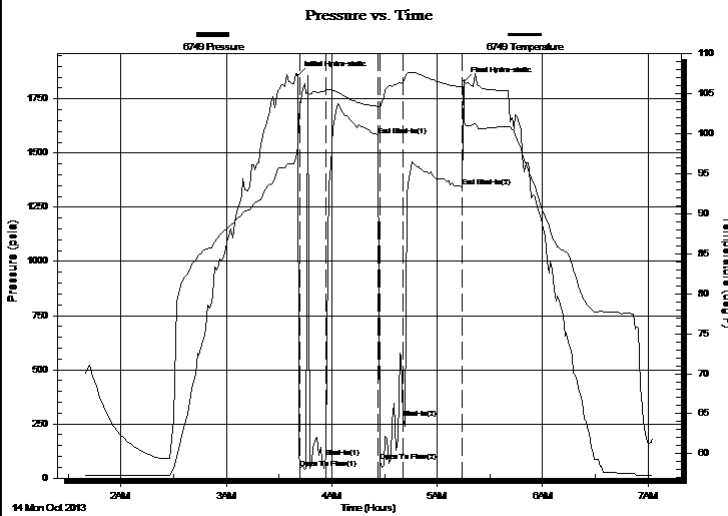
**10/22S/14W/Stafford**  
**Krupp 3-10**  
 Job Ticket: 18171 **DST#: 10**  
 Test Start: 2013.10.14 @ 01:39:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 03:42:00 Tester: Ken Swinney  
 Time Test Ended: 07:02:30 Unit No: 3325 Great Bend/36  
 Interval: **3813.00 ft (KB) To 3819.00 ft (KB) (TVD)** Reference Elevations: 1946.00 ft (KB)  
 Total Depth: 3819.00 ft (KB) (TVD) 1938.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: KB to GR/CF: 8.00 ft

**Serial #: 6749** **Inside**  
 Press @ RunDepth: 277.64 psia @ 3815.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.14 End Date: 2013.10.14 Last Calib.: 2013.10.14  
 Start Time: 01:39:00 End Time: 07:02:30 Time On Btm: 2013.10.14 @ 03:40:30  
 Time Off Btm: 2013.10.14 @ 05:15:30

**TEST COMMENT:** 7 foot slide still sitting 5 foot high  
 1ST Open 15 Minutes/Weak surging blow/Blow built to 3 inches  
 1ST Shut In 30 Minutes/No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1858.05	98.33	Initial Hydro-static
2	43.45	103.52	Open To Flow (1)
16	95.22	105.38	Shut-In(1)
46	1582.08	103.42	End Shut-In(1)
47	76.80	103.25	Open To Flow (2)
60	277.64	106.40	Shut-In(2)
94	1344.43	105.84	End Shut-In(2)
95	1831.13	101.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	Oily Mud	0.56
0.00	Oil 30% Mud 70%	0.00

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**10/22S/14W/Stafford**

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

**Krupp 3-10**

Job Ticket: 18171

**DST#: 10**

Test Start: 2013.10.14 @ 01:39:00

## Tool Information

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.80 inches	Volume: 53.15 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: 53.15 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3813.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 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			3791.00	
Hydraulic Tool	5.00			3796.00	
Jars	5.00			3801.00	
Safety Joint	2.00			3803.00	
Packer	5.00			3808.00	27.00 Bottom Of Top Packer
Packer	5.00			3813.00	
Anchor	1.00			3814.00	
Recorder	1.00	6749	Inside	3815.00	
Recorder	1.00	6666	Outside	3816.00	
Bullnose	3.00			3819.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

FG Holl Company LLC

10/22S/14W/Stafford

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

**Krupp 3-10**

Job Ticket: 18171

**DST#: 10**

Test Start: 2013.10.14 @ 01:39:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 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
40.00	Oily Mud	0.561
0.00	Oil 30% Mud 70%	0.000

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

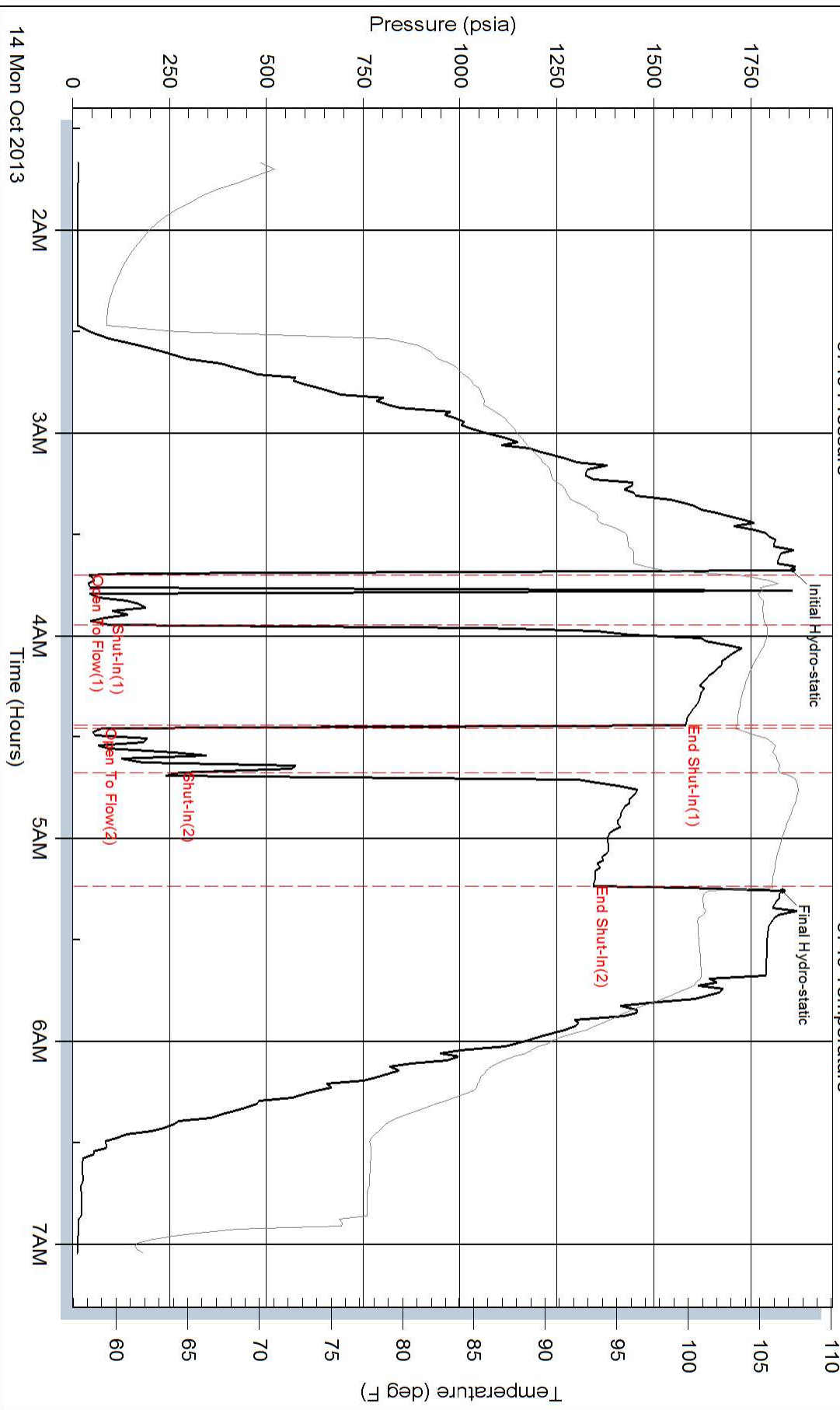
Laboratory Name:

Laboratory Location:

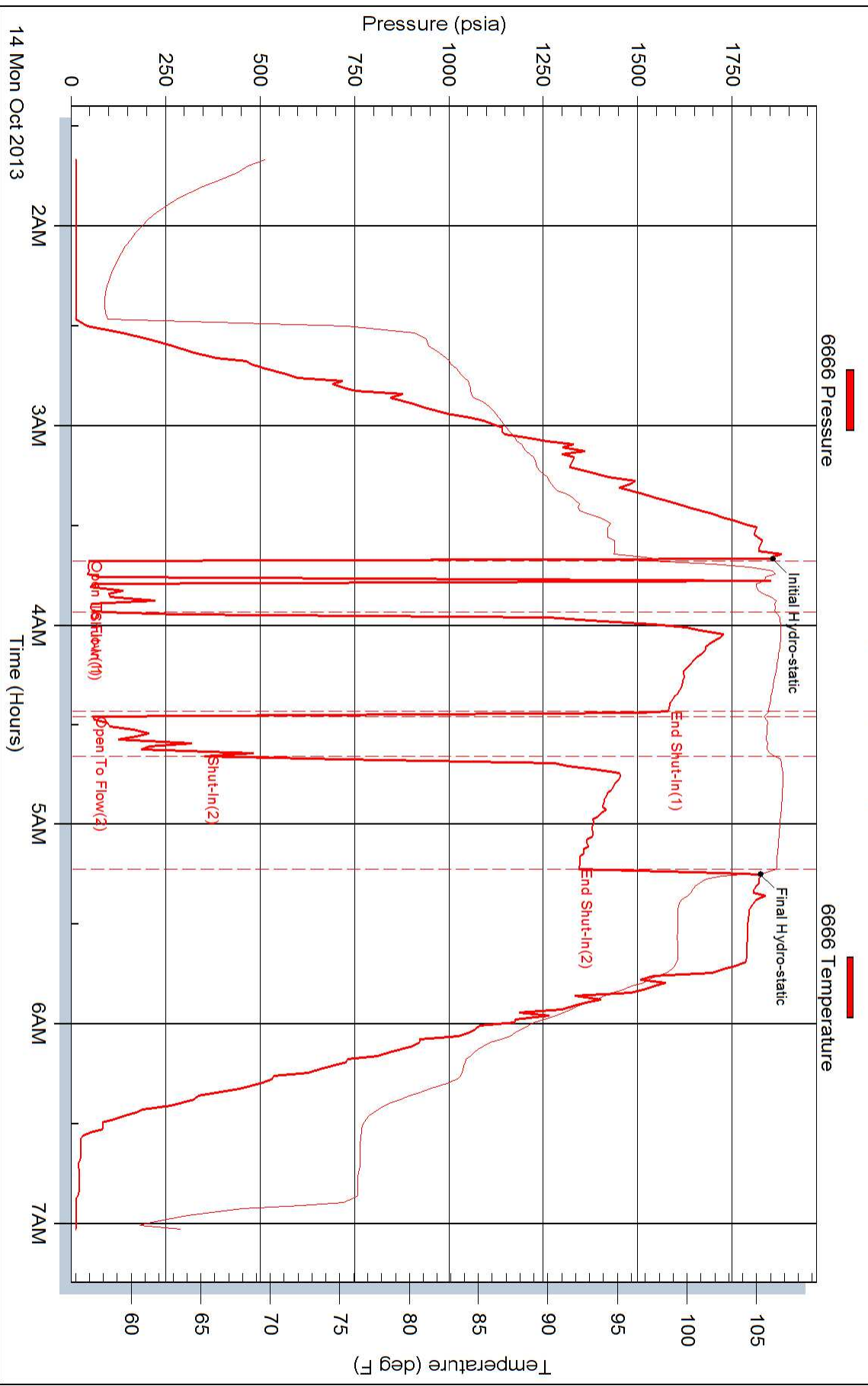
Recovery Comments:



### Pressure vs. Time



### Pressure vs. Time



# Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Stafford** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8" @ 843** ft.  
 Well **Krupp #3-10** Location \_\_\_\_\_ GPM **7.75** BPM \_\_\_\_\_ " @ \_\_\_\_\_ ft.  
 Contractor **Duke #8** Sec **10** TWP **22S** RNG **14W** D.P. **4.5** in. **191** FT/MIN R.A. \_\_\_\_\_ " @ \_\_\_\_\_ ft.  
 Stockpoint **Pratt, Ks.** Date **10/3/2013** Engineer **Rick Hughes** Collar **6.25** in. **450** ft. **348** FT/MIN R.A. Total Depth **4000'** ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Strip _ Meter _	FILTRATION 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 %						
10/3	0																			0	DRURT	
10/4	756	10.0	47																		Drig.	
10/5	1482	9.4	28	2	2	0/0	7.0	N/C	-		66m	Hvy		3.9		96.1					Drig. Displace w/starch ~1750	
10/6	2296	9.0	47	8	22	32/43	7.0	12.8	2		8,000	N/C		4.5		95.5					3 Drig. Displace w/chem @2600	
10/7	2946	8.8	53	17	12	18/40	11.0	7.2	1		3,700			3.4		96.6					71 Drig. DST #1 @ 3533, misrun,	
10/8	3533	9.4	50	13	12	16/56	9.5	8.4	1		5,300			6.8		93.2					5 CFS plugged tool	
10/9	3533	9.3	58	18	12	18/56	9.0	8.8	1		6,000	40		6.8		93.2					TI w/Bit DST #2 @ 3533	
10/10	3650	9.2	52	15	15	13/49	11.0	7.2	1		5,000			6.1		93.9					CFS DST #3 @ 3622	
10/11	3770	9.2	48	12	12	12/62	11.0	8.8	1		4,700			6.1		93.9					TO f/DST #5 DST #4 @ 3650	
10/12	3790	9.1	45	12	10	7/22	11.0	8.8	1		5,300			5.4		94.6					5 CCH after DST 6 DST #5 @ 3770	
10/13	3814	8.9	52	14	11	13/32	11.0	7.2	1		5,000			4.0		96.0					5 CCH DST #6 @ 3790	
10/14	3819	9.1	53	20	13	9/32	10.5	7.6	1		6,600	40		5.3		94.7					10 CCH DST #7 @ 3814, misrun,	
10/15	4000																					Final: plugged tool
																						RTD - 4000'. CCH, DST #8 @ 3814
																						LTD - 3998. DST #9 @ 3819
																						10 DST's. DST #10 @ 3819
																						Logs Ok. Run Casing.
																						Reserve Pit, Chl content ppm: 78,000
																						Estimated Volume: 800 bbls
																						DST's 8,9,10 all misruns, tools slid,
																						plugged tools

**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	56		X-CIDE 102W	1	335.00	
CAUSTIC SODSA	24					
DESCO	2					
DRILL PAK	10					
LIME	4					
MIL-GUARD	1					
PREMIUM GEL	483					
SODA ASH	28					
STARCH	36					
SUPER LIG	13					
						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 09140 A

10-225-14W

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

DATE OF JOB: 10-4-13	DISTRICT: Pratt, Kansas	NEW WELL <input 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. Hill Company, LLC	LEASE: Krupp	WELL NO. 3-10							
ADDRESS:	COUNTY: Stafford	STATE: Kansas							
CITY:	STATE:	SERVICE CREW: C. M. Smith, M. McGraw, H. Boller							
AUTHORIZED BY:	JOB TYPE: NW - Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
38210	1.25						10-4-13	AM	7:30
						ARRIVED AT JOB		AM	10:45
						START OPERATION		AM	12:00
77696-19905	1.25					FINISH OPERATION		AM	1:15
						RELEASED	10-4-13	AM	1:30
78918-19362	1.25					MILES FROM STATION TO WELL			50

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: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A cov Blend Cement	sh	190	\$	
CP100C	Common Cement	sh	190	\$	
CC102	Cellflake	Lb	95	\$	
CC104	Calcium Chloride	Lb	895	\$	
CF105	Top Rubber Plug, 8 9/8"	ea	1	\$	
CF1753	Centralizer, 8 9/8"	ea	3	\$	
ET100	Pickup Mileage	mi	50	\$	
E101	Heavy Equipment Mileage	mi	100	\$	
E113	Bulk Delivery	tm	895	\$	
CE201	Cement Pump, 500 Feet To 1000 Feet	hrs	4	\$	
CE240	Blending and Mixing Service	sh	330	\$	
CE504	Plug Container	Job	1	\$	
S003	Service Supervisor	hrs	8	\$	

SUB TOTAL

16.97

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: R. M. Smith

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer F.G. Holt Company, LLC	Lease No.	Date 10-4-13	
Lease Krupp	Well # 3-10		
Field Order # 9140	Station Pratt, Kansas	Casing 23lb	Depth 842ft
Type Job C.N.W. - Surface	Formation	County Stafford	State Kansas
		Legal Description 10-225-14W	

PIPE DATA		PERFORATING DATA		CEMENT USED	TREATMENT RESUME		
Casing Size 23lb	Tubing Size 23lb	Shots/Ft 190sacks	From	To	RATE	PRESS	ISIP
Depth 842ft	Depth 842ft	From	From	To	Max 2.47cu	2.47cu	5 Min. FT/1st
Volume 54 Bbl.	Volume	From	From	To	Min 2.23 Gall/1st	2.23 Gall/1st	10 Min. cell plate
Max Press 350 PSI	Max Press	From	From	To	Avg 2.23 Gall/1st	2.23 Gall/1st	15 Min. cell plate
Well Connection Plug Control	Annulus Vol.	From	From	To	HHP Used		Annulus Pressure
Plug Depth 842ft	Packer Depth	From	From	To	Flush 53 Bbl. Fresh Water	Gas Volume	Total Load

Customer Representative Steve Stephens	Station Manager Kevin Gordley	Treater Clarence R. Messich
Service Units 37216	77686	19905
Driver Names Messich	McGraw	Boyer

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:15					Trucks on location and hold safety meeting.
11:00					Duke Drilling start to run 8 joints new 23lb/ft 8 5/8" casing.
11:55					Casing in well. Circulate for 5 minutes.
12:05	300			5	Start Fresh water Pre-Flush.
	300		10	6	Start mixing 190sacks A-con cement.
	250		93	5	Start mixing 190sacks common cement.
	-0-		133		Stop pumping. Shut in well. Release Top Rubber Plug. Open Well.
12:27	150			5	Start Fresh water Displacement.
12:40	350		53		Plug down. Shut in well.
					circulated 15 Bbl cement to pit
					Wash up pump truck.
1:15					Job Complete.
					Thank You.
					Clarence, Mike, Huchelberry



**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 09084 A

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

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER				LEASE				WELL NO.							
ADDRESS				COUNTY				STATE							
CITY				STATE				SERVICE CREW							
AUTHORIZED BY				JOB TYPE:											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB									
						START OPERATION									
						FINISH OPERATION									
						RELEASED									
						MILES FROM STATION TO WELL	50								

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
101	...	26	135		
102	...	2	7		
103	...	16	31		
104	...	16	32		
105	...	16	606		
106	...	16	157		
107	...	16	1715		
108	...	54	1		
109	...	54	1		
110	...	54	1		
111	...	54	1		
112	...	54	1		
113	...	54	1		
114	...	54	1		
115	...	54	1		
116	...	54	1		
117	...	54	1		
118	...	54	1		
119	...	54	1		
120	...	54	1		
121	...	54	1		
122	...	54	1		
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124	...	54	1		
125	...	54	1		
126	...	54	1		
127	...	54	1		
128	...	54	1		
129	...	54	1		
130	...	54	1		
131	...	54	1		
132	...	54	1		
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190	...	54	1		
191	...	54	1		
192	...	54	1		
193	...	54	1		
194	...	54	1		
195	...	54	1		
196	...	54	1		
197	...	54	1		
198	...	54	1		
199	...	54	1		
200	...	54	1		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
------------------------	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**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

CONTINUATION

DATE \_\_\_\_\_ TICKET NO. 9084A

DATE OF JOB <u>10-15-13</u> DISTRICT <u>Pratt KS</u>		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 <u>F. G. Holl</u>		LEASE <u>KRUPP</u> <u>3-10</u> WELL NO.							
ADDRESS		COUNTY <u>STAFFORD</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW							
AUTHORIZED BY		JOB TYPE: <u>CNW 3 1/2 hwy ST</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>10-15-13</u>	DATE	AM PM	TIME
						ARRIVED AT JOB		AM PM	<u>2:00</u>
						START OPERATION		AM PM	<u>4:00</u>
						FINISH OPERATION		AM PM	
						RELEASED		AM PM	
						MILES FROM STATION TO WELL			<u>50</u>

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: Robert Lane  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	pickup	mi	50		
E 101	Head Gasket	mi	100		
E 113	Bulk Pellets	mi	480		
CE 204	Depth - Change 3000-4000'	SH	1		21
CE 240	Blowdown - mixing	SK	210		
PE 501	Casing - service	SH	1		
CE 504	Plus Tanker Rental	SH	1		
5 003	Shim Super	SA	1		

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>12,321.45</u>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

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

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <i>F. B. Hall</i>	Lease No.	Date <i>10-15-13</i>
Lease <i>KRUPP</i>	Well # <i>3-10</i>	
Field Order # <i>9084</i>	Station <i>PRATT KS</i>	Casing <i>5 1/2</i>
Type Job <i>CNW Ins. 5 1/2</i>	Depth <i>3784</i>	County <i>STAFFORD</i>
	Formation	State <i>KS</i>
		Legal Description <i>10-22-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>3784</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>96.8</i>	Volume	From	To	Pad	Min			10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>A.C.</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>3771</i>	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE Saff</i>	Treater <i>Robert J. ...</i>
Service Units <i>37910 33208 20920 78918 19802</i>	<i>29443</i>	
Driver Names <i>Sullivan GRAVES JACOBS JOHNSON</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>4:00</i>					<i>on for Saff</i>
					<i>Run 96 5 1/2 1 1/4 esp.</i>
<i>5:30</i>					<i>CASING ON BOTTOM</i>
<i>5:45</i>					<i>Hook Up acid esp.</i>
<i>7:45</i>			<i>5</i>	<i>6</i>	<i>84 Spikes</i>
			<i>12</i>	<i>6</i>	<i>84 Spikes</i>
			<i>5</i>	<i>6</i>	<i>14 Spikes</i>
			<i>6</i>	<i>6</i>	<i>mix 25 sk Scavenger cont @ 14 Wf.</i>
	<i>150</i>		<i>34</i>	<i>6</i>	<i>mix 135 sk AA-2 cont @ 15 Wf.</i>
<i>8:20</i>					<i>cont mix in shut down wash lining pump</i>
					<i>Release Plug</i>
				<i>6</i>	<i>At Disp</i>
	<i>300</i>		<i>77</i>		<i>Lift Asp</i>
	<i>500</i>		<i>87</i>	<i>4</i>	<i>Slow Rate</i>
<i>8:30</i>	<i>1500</i>		<i>97</i>	<i>4</i>	<i>Plug down</i>
			<i>7</i>	<i>2</i>	<i>plug RH w/ 30 sk</i>
<i>9:00</i>	<i>1000</i>		<i>5</i>		<i>plug RH w/ 20 sk</i>
					<i>JOB Complete</i>
					<i>Thank you</i>