



Confidentiality Requested:

Yes  No

**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](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: <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

<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SMITH 'F' 1-6
Doc ID	1205993

All Electric Logs Run

CPI
CDL/CNL
BHCS
Microresistivity
DIL

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SMITH 'F' 1-6
Doc ID	1205993

Tops

Name	Top	Datum
Herrington	1906	+62
Winfield	1955	+13
Towanda	2023	-55
Fort Riley	2069	-101
B/Florence	2162	-194
Kinney Ls	2177	-209
Wrefold	2208	-240
Council Grove	2228	-260
Crouse	2269	-301
Neva	2408	-440
Red Eagle	2472	-504
Onaga Shale	2620	-652
Wabaunsee	2643	-675
Root Shale	2702	-734
Stotler	2764	-796
Tarkio	2822	-854
Howard	2968	-1000
Severy Shale	3022	-1054
Topeka	3040	-1072
Heebner	3310	-1342
Toronto	3328	-1360
Douglas Shale	3343	-1375
Brown Lime	3406	-1438
LKC	3414	-1446

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SMITH 'F' 1-6
Doc ID	1205993

Tops

Name	Top	Datum
Drum	3547	-1579
BKC	3649	-1681
Conglomerate	3663	-1695
Chert	3683	-1715
Arbuckle	3755	-1787
RTD	4000	-2032



## Summary of Changes

Lease Name and Number: SMITH 'F' 1-6

API/Permit #: 15-145-21752-00-00

Doc ID: 1205993

Correction Number: 2

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/02/2014	05/20/2014
Date of First or Resumed Production or SWD or Enhr Producing Method Pumping	No	05/19/2014 Yes
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1197525	../kcc/detail/operatorEditDetail.cfm?docID=1205993



Confidentiality Requested:

Yes  No

# 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: \_\_\_\_\_





Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1192578  
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.

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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
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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	SMITH 'F' 1-6
Doc ID	1192578

All Electric Logs Run

CPI
CDL/CNL
BHCS
Microresistivity
DIL

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SMITH 'F' 1-6
Doc ID	1192578

Tops

Name	Top	Datum
Herrington	1906	+62
Winfield	1955	+13
Towanda	2023	-55
Fort Riley	2069	-101
B/Florence	2162	-194
Kinney Ls	2177	-209
Wrefold	2208	-240
Council Grove	2228	-260
Crouse	2269	-301
Neva	2408	-440
Red Eagle	2472	-504
Onaga Shale	2620	-652
Wabaunsee	2643	-675
Root Shale	2702	-734
Stotler	2764	-796
Tarkio	2822	-854
Howard	2968	-1000
Severy Shale	3022	-1054
Topeka	3040	-1072
Heebner	3310	-1342
Toronto	3328	-1360
Douglas Shale	3343	-1375
Brown Lime	3406	-1438
LKC	3414	-1446

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SMITH 'F' 1-6
Doc ID	1192578

Tops

Name	Top	Datum
Drum	3547	-1579
BKC	3649	-1681
Conglomerate	3663	-1695
Chert	3683	-1715
Arbuckle	3755	-1787
RTD	4000	-2032

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SMITH 'F' 1-6
Doc ID	1192578

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3754' - 3758' Arbuckle	Spotted 500 gal 10% acetic acid over Arbuckle	
4	3758' - 3762'		
	Doc squeeze perfs w/ cement & oil		
4	Reperf 3754' - 3762' Arbuckle	150 gal 15% nefe acid	
		250 gal 15% nefe acid	









## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.16 @ 00:00:00

End Date: 2014.02.16 @ 00:00:00

Job Ticket #: 17122                      DST #: 1

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

Printed: 2014.02.16 @ 10:06:59



# DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17122

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.02.16 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Herrington**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Real-Time)

Tester: Gene Budig

Unit No: 3335-28

Interval: **1868.00 ft (KB) To 1960.00 ft (KB) (TVD)**

Reference Elevations: 1968.00 ft (KB)

Total Depth: 1960.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8525** Inside

Press@RunDepth: 539.37 psig @ 1956.02 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.16

End Date: 2014.02.16

Last Calib.: 2014.02.16

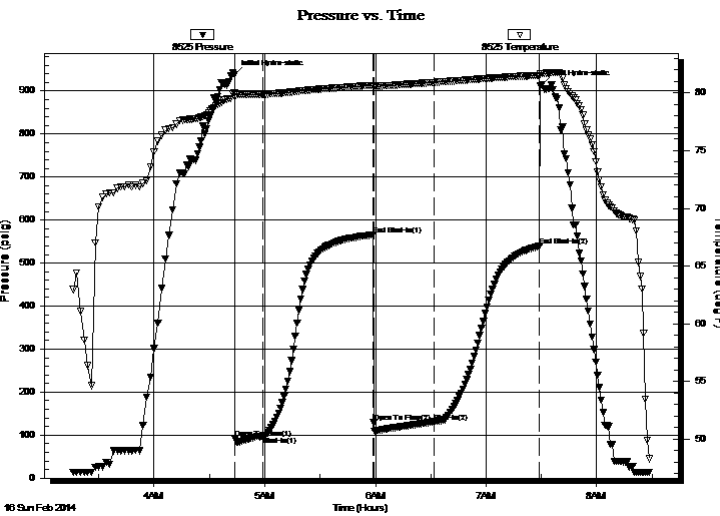
Start Time: 03:15:00

End Time: 08:29:00

Time On Btm: 2014.02.16 @ 04:43:30

Time Off Btm: 2014.02.16 @ 07:30:30

TEST COMMENT: 1st Opening 15 Minutes-Weak building blow built to 8 inches into the water  
 1st Shut-In 60 Minujtes-No blow back  
 2nd Opening 30 Minutes-Weak building blow built to 6 inches into the water  
 2nd Shut-In 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	937.98	80.00	Initial Hydro-static
1	93.25	79.67	Open To Flow (1)
16	97.12	79.89	Shut-In(1)
75	565.69	80.66	End Shut-In(1)
76	128.97	80.53	Open To Flow (2)
108	130.93	80.91	Shut-In(2)
166	539.37	81.53	End Shut-In(2)
167	915.00	81.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	drilling mud	1.82

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17122

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.02.16 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 1855.00 ft	Diameter: 3.80 inches	Volume: 26.02 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: 38000.00 lb
			<u>Total Volume: 26.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	1868.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.02 ft			
Tool Length:	120.02 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			1845.00	
Hydraulic Tool	5.00			1850.00	
Jars	6.00			1856.00	
Safety Joint	2.00			1858.00	
Top Packer	5.00			1863.00	
Packer	5.00			1868.00	28.00 Bottom Of Top Packer
Anchor	3.00			1871.00	
Change Over Sub	0.75			1871.75	
Drill Pipe	63.52			1935.27	
Change Over Sub	0.75			1936.02	
Anchor	19.00			1955.02	
Recorder	1.00	8525	Inside	1956.02	
Recorder	1.00	6748	Outside	1957.02	
Bull Plug	3.00			1960.02	92.02 Anchor Tool

**Total Tool Length: 120.02**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17122

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.02.16 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 48.00 lb/gal

Viscosity: 9.00 sec/qt

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

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbl
130.00	drilling mud	1.824

Total Length: 130.00 ft      Total Volume: 1.824 bbl

Num Fluid Samples: 0

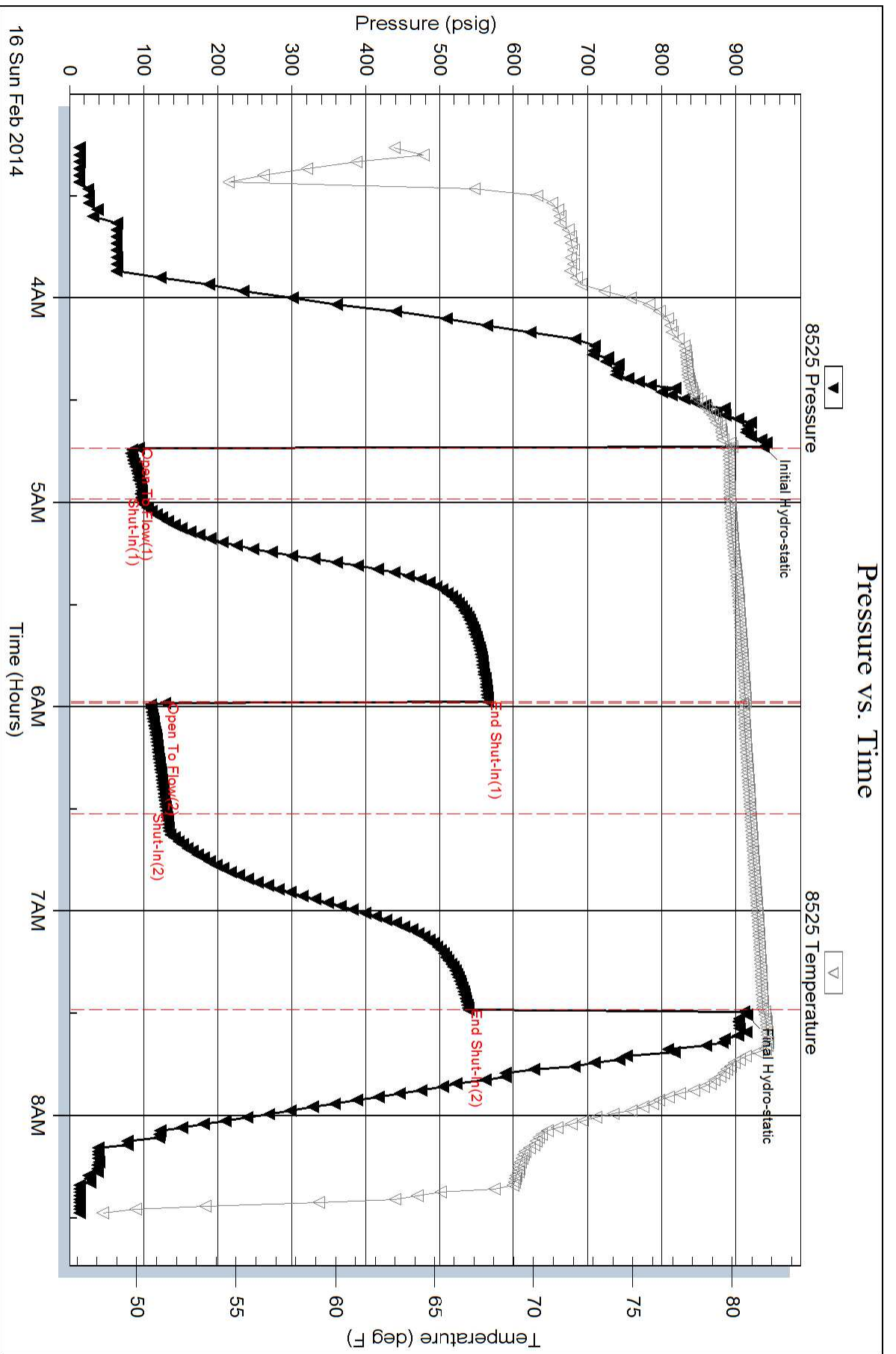
Num Gas Bombs: 0

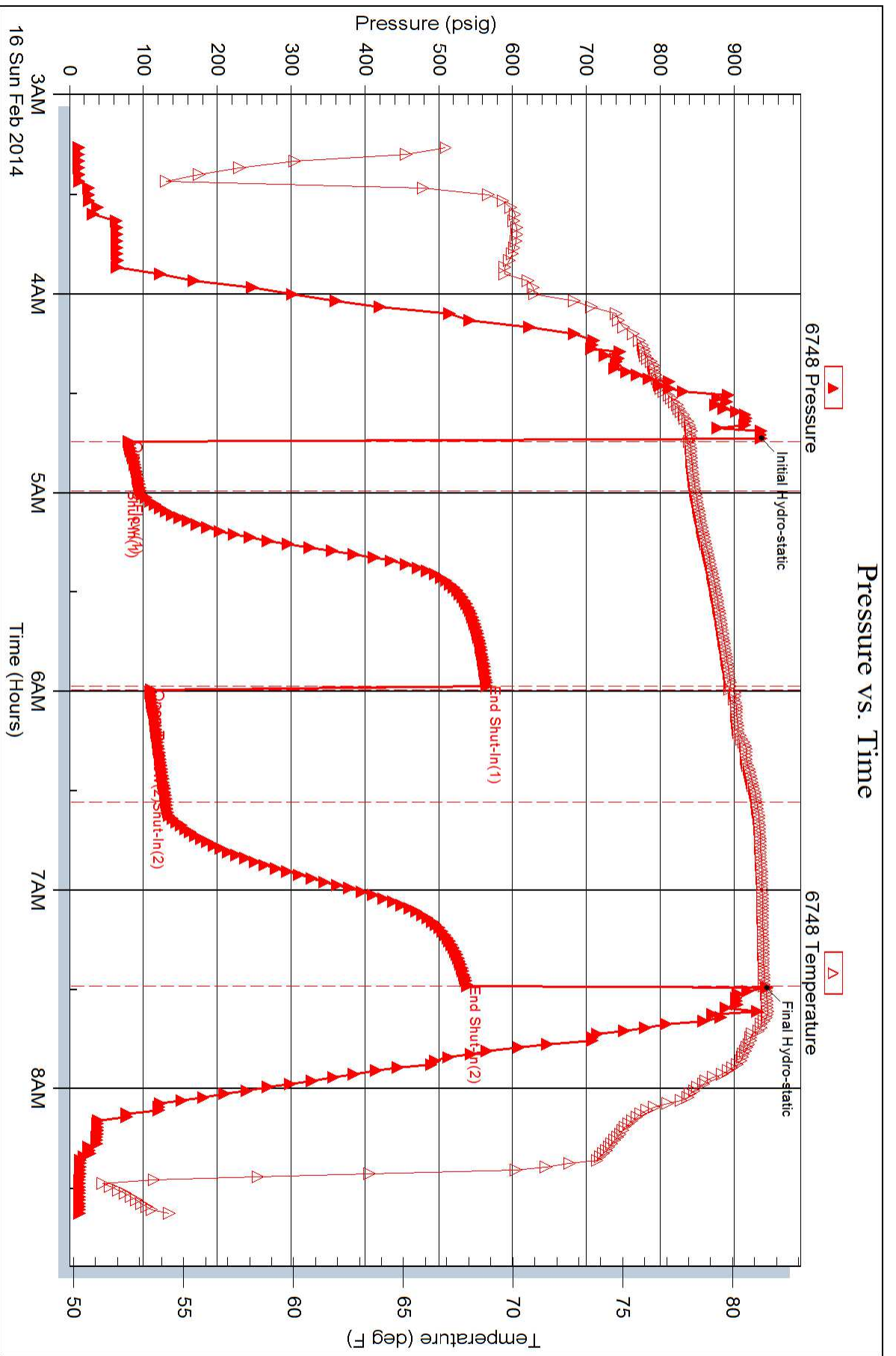
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.20 @ 00:00:00

End Date: 2014.02.20 @ 00:00:00

Job Ticket #: 17123                      DST #: 2

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

Printed: 2014.02.20 @ 06:19:28





# DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17123

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.20 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Viola Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3648.00 ft (KB) To 3699.00 ft (KB) (TVD)**

Reference Elevations: 1968.00 ft (KB)

Total Depth: 3699.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **6748** Outside

Press@RunDepth: 151.77 psig @ 3695.40 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.20

End Date: 2014.02.20

Last Calib.: 2014.02.20

Start Time: 10:45:00

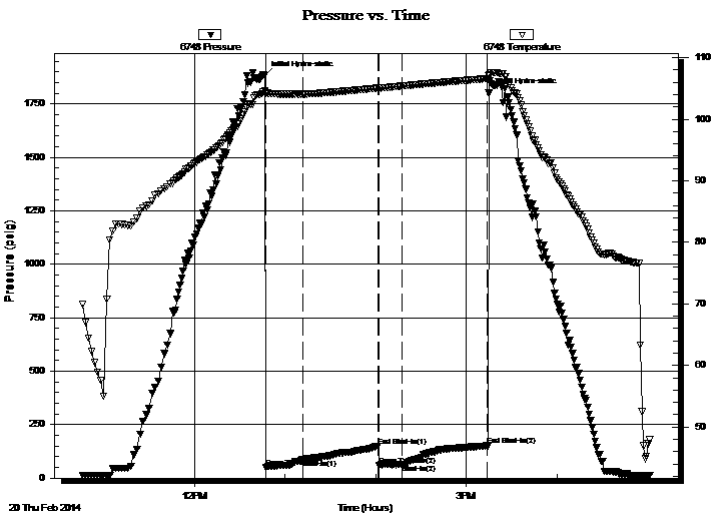
End Time: 17:02:00

Time On Btm: 2014.02.20 @ 12:46:30

Time Off Btm: 2014.02.20 @ 15:15:00

TEST COMMENT: 1st Opening 15 Minutes Weak building blow built to 7 inches into the water  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 15 Minutes Very weak surface blow for 12 minutes and died  
 2nd Shut-In 60 Minutes no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.32	104.55	Initial Hydro-static
1	51.66	104.23	Open To Flow (1)
26	87.76	104.06	Shut-In(1)
75	147.98	105.06	End Shut-In(1)
76	61.64	105.06	Open To Flow (2)
91	63.28	105.39	Shut-In(2)
148	151.77	106.61	End Shut-In(2)
149	1801.27	107.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling mud	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17123

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.20 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Viola Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3648.00 ft (KB) To 3699.00 ft (KB) (TVD)**

Reference Elevations: 1968.00 ft (KB)

Total Depth: 3699.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8525** Inside

Press@RunDepth: 180.11 psig @ 3694.40 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.20

End Date: 2014.02.20

Last Calib.: 2014.02.20

Start Time: 10:45:00

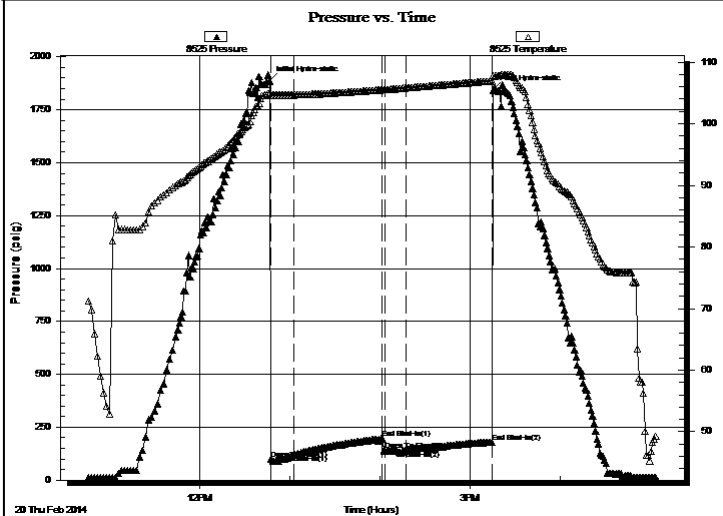
End Time: 17:04:00

Time On Btm: 2014.02.20 @ 12:46:30

Time Off Btm: 2014.02.20 @ 15:15:30

TEST COMMENT: 1st Opening 15 Minutes Weak building blow built to 7 inches into the water  
1st Shut-In 60 Minutes-No blow back  
2nd Opening 15 Minutes Very weak surface blow for 12 minutes and died  
2nd Shut-In 60 Minutes no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.08	105.07	Initial Hydro-static
1	97.15	104.65	Open To Flow (1)
16	120.14	104.68	Shut-In(1)
75	195.59	105.52	End Shut-In(1)
77	138.64	105.53	Open To Flow (2)
91	140.84	105.82	Shut-In(2)
148	180.11	106.94	End Shut-In(2)
149	1843.31	107.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling mud	0.42

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17123

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.20 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 51.16 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3646.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.40 ft			
Tool Length:	80.40 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3623.00	
Hydraulic Tool	5.00			3628.00	
Jars	6.00			3634.00	
Safety Joint	2.00			3636.00	
Top Packer	5.00			3641.00	
Packer	5.00			3646.00	28.00 Bottom Of Top Packer
Anchor	0.00			3646.00	
Change Over Sub	0.75			3646.75	
Drill Pipe	31.90			3678.65	
Change Over Sub	0.75			3679.40	
Anchor	14.00			3693.40	
Recorder	1.00	8525	Inside	3694.40	
Recorder	1.00	6748	Outside	3695.40	
Bull Plug	3.00			3698.40	52.40 Anchor Tool

**Total Tool Length: 80.40**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company LLC

**6-21s-15w**

9431 East Central Suite 100  
Wichita, Kansas 67206

**Smith "F" #1-6**

Job Ticket: 17123

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2014.02.20 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 6.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3600.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

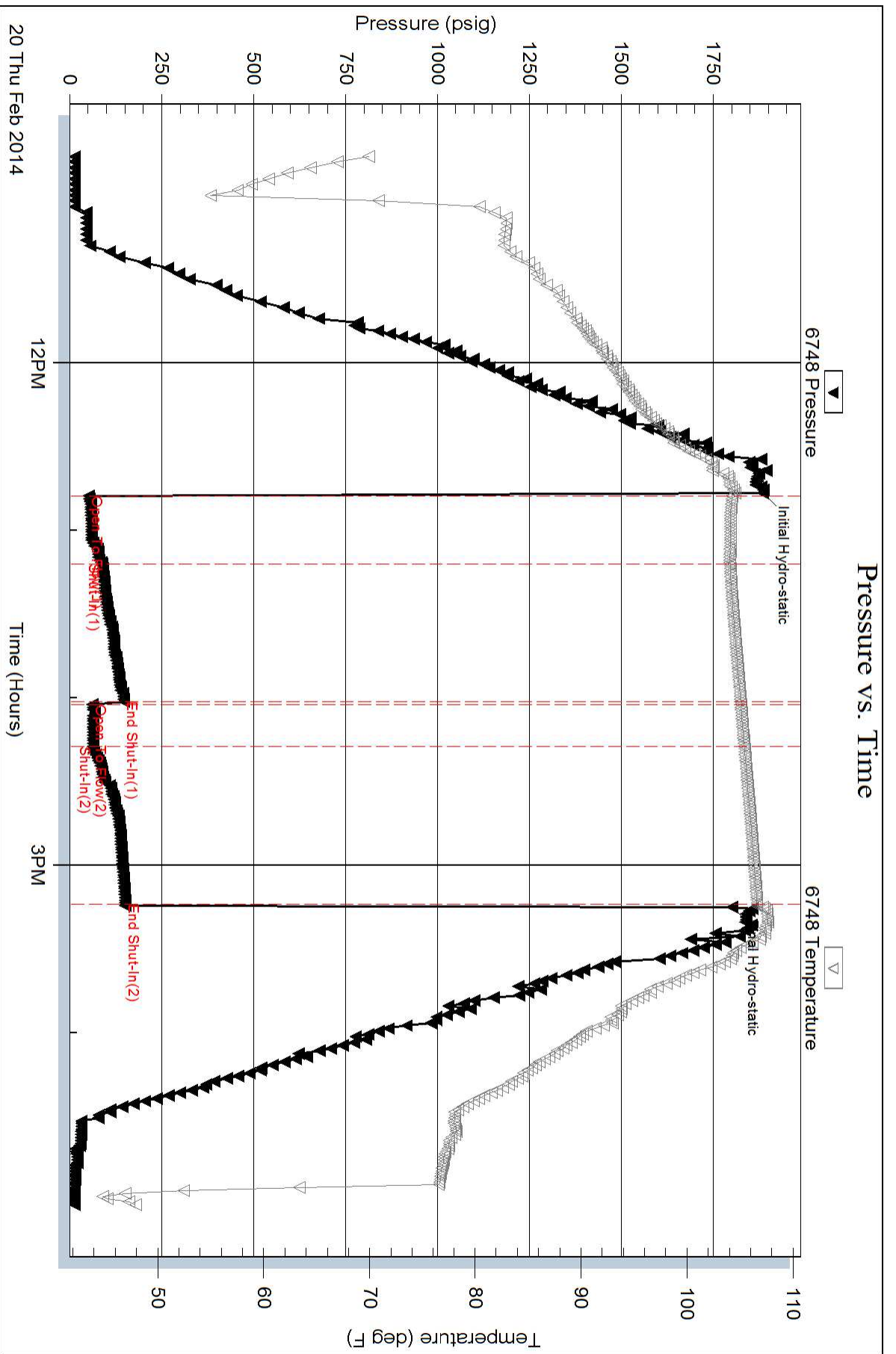
Length ft	Description	Volume bbl
30.00	Drilling mud	0.421

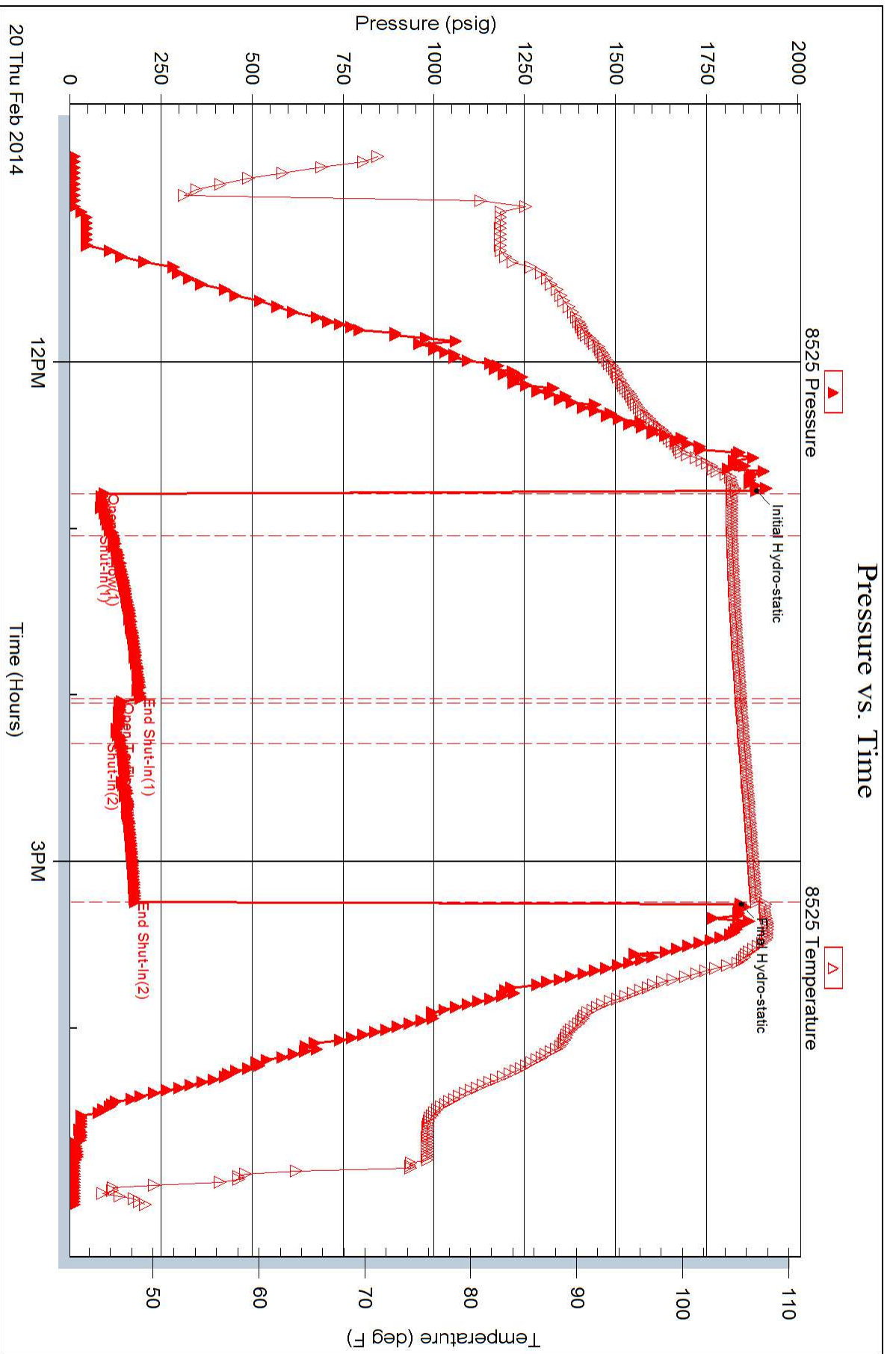
Total Length: 30.00 ft      Total Volume: 0.421 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.20 @ 00:00:00

End Date: 2014.02.20 @ 00:00:00

Job Ticket #: 17124                      DST #: 3

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

Printed: 2014.02.21 @ 02:13:13



# DRILL STEM TEST REPORT

F.G.Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, Kansas 67206  
 ATTN: Ryan Greenbaum

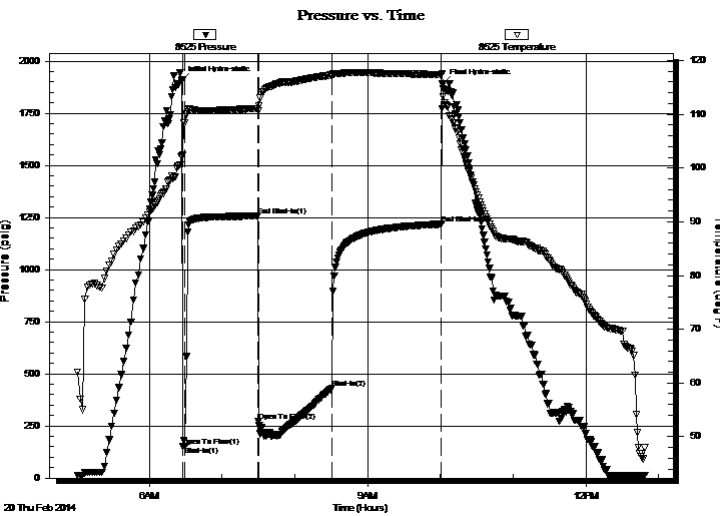
**6-21s-15w**  
**Smith "F" #1-6**  
 Job Ticket: 17124 **DST#: 3**  
 Test Start: 2014.02.20 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3334  
 Interval: **3752.00 ft (KB) To 3762.00 ft (KB) (TVD)**  
 Reference Elevations: 1968.00 ft (KB)  
 Total Depth: 3762.00 ft (KB) (TVD) 1960.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8525 Inside**  
 Press@RunDepth: 1218.68 psig @ 3758.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.20 End Date: 2014.02.20 Last Calib.: 2014.02.21  
 Start Time: 05:00:00 End Time: 12:49:00 Time On Btm: 2014.02.20 @ 06:27:00  
 Time Off Btm: 2014.02.20 @ 10:02:00

**TEST COMMENT:** 1st Opening 3 minutes-Strong blow built to the bottom of a 5 gallon bucket in 30 seconds  
 1st Shut-In 60 Minutes-Fair blow back  
 2nd Open 60 Minutes-Strong blow gas to surface as soon as the tool was opened  
 2nd Shut-In 90 Minutes-Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.50	102.22	Initial Hydro-static
1	151.81	102.35	Open To Flow (1)
3	154.25	108.34	Shut-In(1)
63	1257.17	111.04	End Shut-In(1)
63	273.13	110.66	Open To Flow (2)
124	432.44	117.29	Shut-In(2)
214	1218.68	117.40	End Shut-In(2)
215	1893.73	115.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	slightly muddy w water 5% mud 95% Water	1.26
0.00	Chlorides 22,000	0.00
1600.00	Clean gassy oil 40% Gas 60% Oil	22.44
0.00	Gravity 34 Corrected	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	12.75	183.15
Last Gas Rate	0.50	1.40	106.58
Max. Gas Rate	0.50	12.75	183.15







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17124

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.02.20 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3744.00 ft	Diameter: 3.80 inches	Volume: 52.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 52.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3752.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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			3729.00	
Hydraulic Tool	5.00			3734.00	
Jars	6.00			3740.00	
Safety Joint	2.00			3742.00	
Top Packer	5.00			3747.00	
Packer	5.00			3752.00	28.00 Bottom Of Top Packer
Anchor	5.00			3757.00	
Recorder	1.00	8525	Inside	3758.00	
Recorder	1.00	6748	Outside	3759.00	
Bull Plug	3.00			3762.00	10.00 Anchor Tool
<b>Total Tool Length:</b>	<b>38.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G.Holl Company LLC

**6-21s-15w**

9431 East Central Suite 100  
Wichita, Kansas 67206

**Smith "F" #1-6**

Job Ticket: 17124

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2014.02.20 @ 00:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 66.00 sec/qt  
Water Loss: 6.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	slightly muddy water 5% mud 95% Water	1.262
0.00	Chlorides 22,000	0.000
1600.00	Clean gassy oil 40% Gas 60% Oil	22.444
0.00	Gravity 34 Corrected	0.000

Total Length: 1690.00 ft      Total Volume: 23.706 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company LLC

**6-21s-15w**

9431 East Central Suite 100  
Wichita, Kansas 67206

**Smith "F" #1-6**

Job Ticket: 17124

**DST#: 3**

ATTN: Ryan Greenbaum

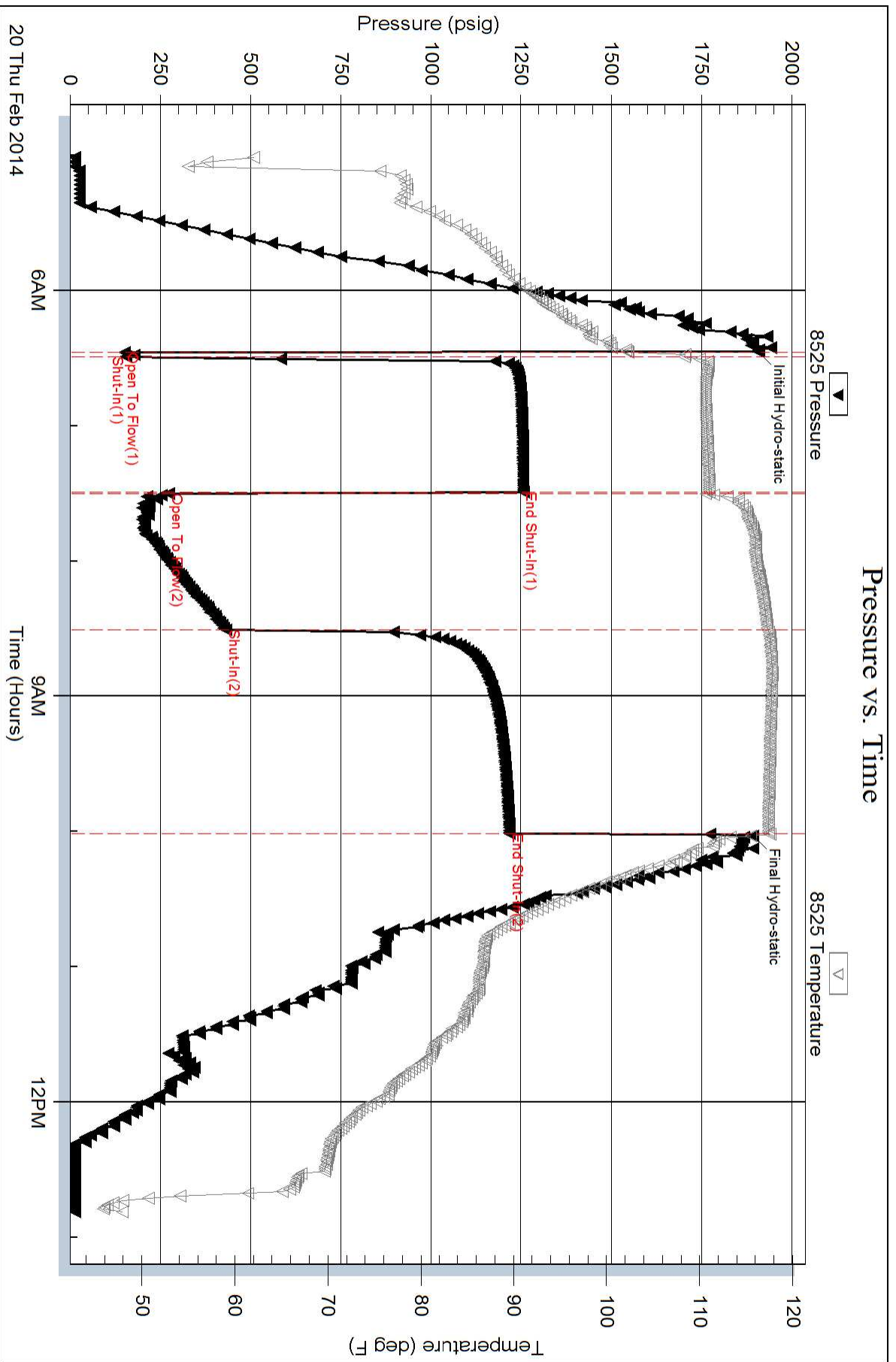
Test Start: 2014.02.20 @ 00:00:00

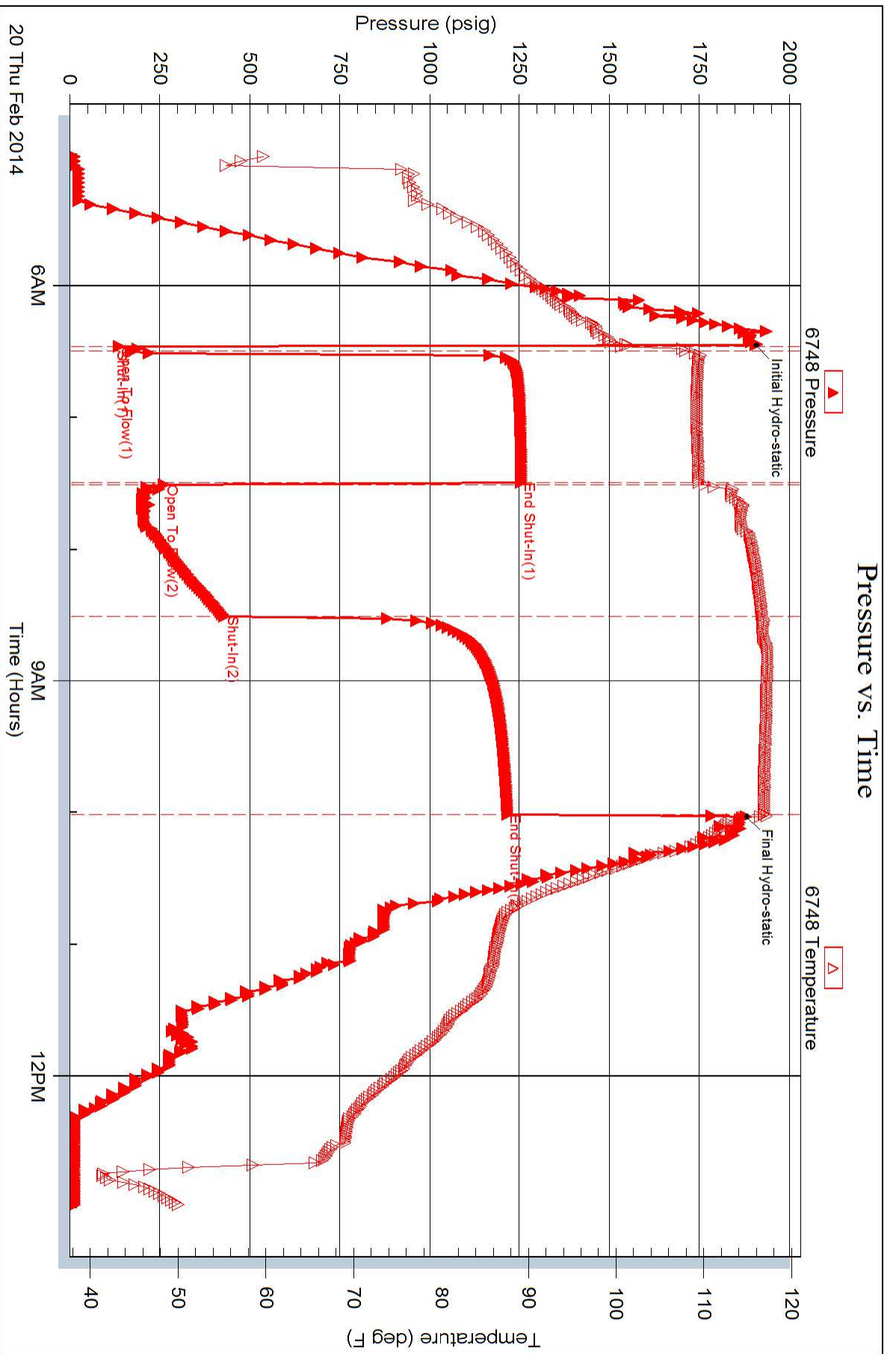
## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	0.50	12.75	183.15
2	15	0.50	1.75	108.94
2	25	0.50	1.75	108.94
2	35	0.50	1.75	108.94
2	45	0.50	1.60	107.93
2	55	0.50	1.50	107.26
2	60	0.50	1.40	106.58







## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.21 @ 09:20:00

End Date: 2014.02.21 @ 00:00:00

Job Ticket #: 17125                      DST #: 4

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

Printed: 2014.02.21 @ 15:38:58







# DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17125

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.02.21 @ 09:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3762.00 ft (KB) To 3772.00 ft (KB) (TVD)**

Reference Elevations: 1968.00 ft (KB)

Total Depth: 3772.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8525** Inside

Press@RunDepth: 1232.08 psig @ 3768.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.21

End Date:

2014.02.21

Last Calib.:

2014.02.21

Start Time: 05:15:00

End Time:

10:17:00

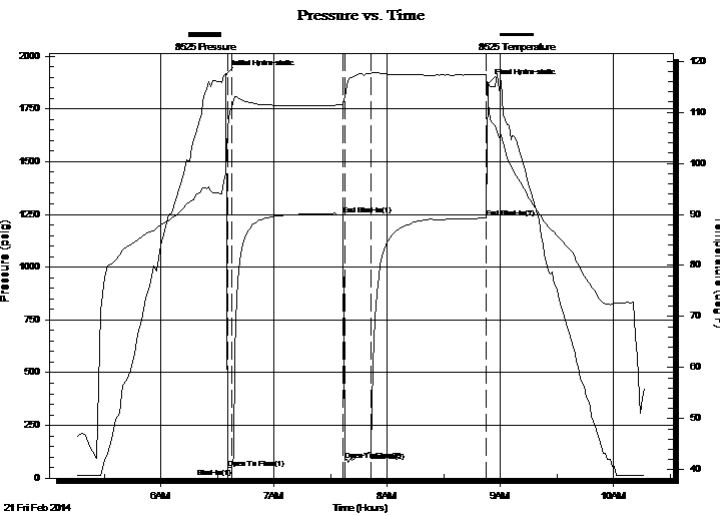
Time On Btm:

2014.02.21 @ 06:34:30

Time Off Btm:

2014.02.21 @ 08:53:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built to the bottom of a 5 gallon bucket in 30 seconds  
 1st Shut-In 60 Minutes -Fair blow back  
 2nd Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 1 minute  
 2nd Shut-In 60 Minutes Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.37	98.15	Initial Hydro-static
1	46.81	107.28	Open To Flow (1)
3	46.32	110.89	Shut-In(1)
62	1246.59	111.45	End Shut-In(1)
63	85.04	113.06	Open To Flow (2)
77	123.74	117.55	Shut-In(2)
138	1232.08	117.36	End Shut-In(2)
139	1870.32	111.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	slightly muddy w ater chlorides 26,000	2.52
40.00	drilling mud	0.56
600.00	gas in the pipe	8.42

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17125

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.02.21 @ 09:20:00

## Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 52.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3762.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3744.00	
Hydraulic Tool	5.00			3749.00	
Jars	6.00			3755.00	
Safety Joint	2.00			3757.00	
Packer	5.00			3762.00	23.00 Bottom Of Top Packer
Anchor	5.00			3767.00	
Recorder	1.00	8525	Inside	3768.00	
Recorder	1.00	6748	Outside	3769.00	
Bull Plug	3.00			3772.00	10.00 Anchor Tool
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 17125

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.02.21 @ 09:20:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 6.00 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: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	slightly muddy water chlorides 26,000	2.525
40.00	drilling mud	0.561
600.00	gas in the pipe	8.416

Total Length: 820.00 ft      Total Volume: 11.502 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

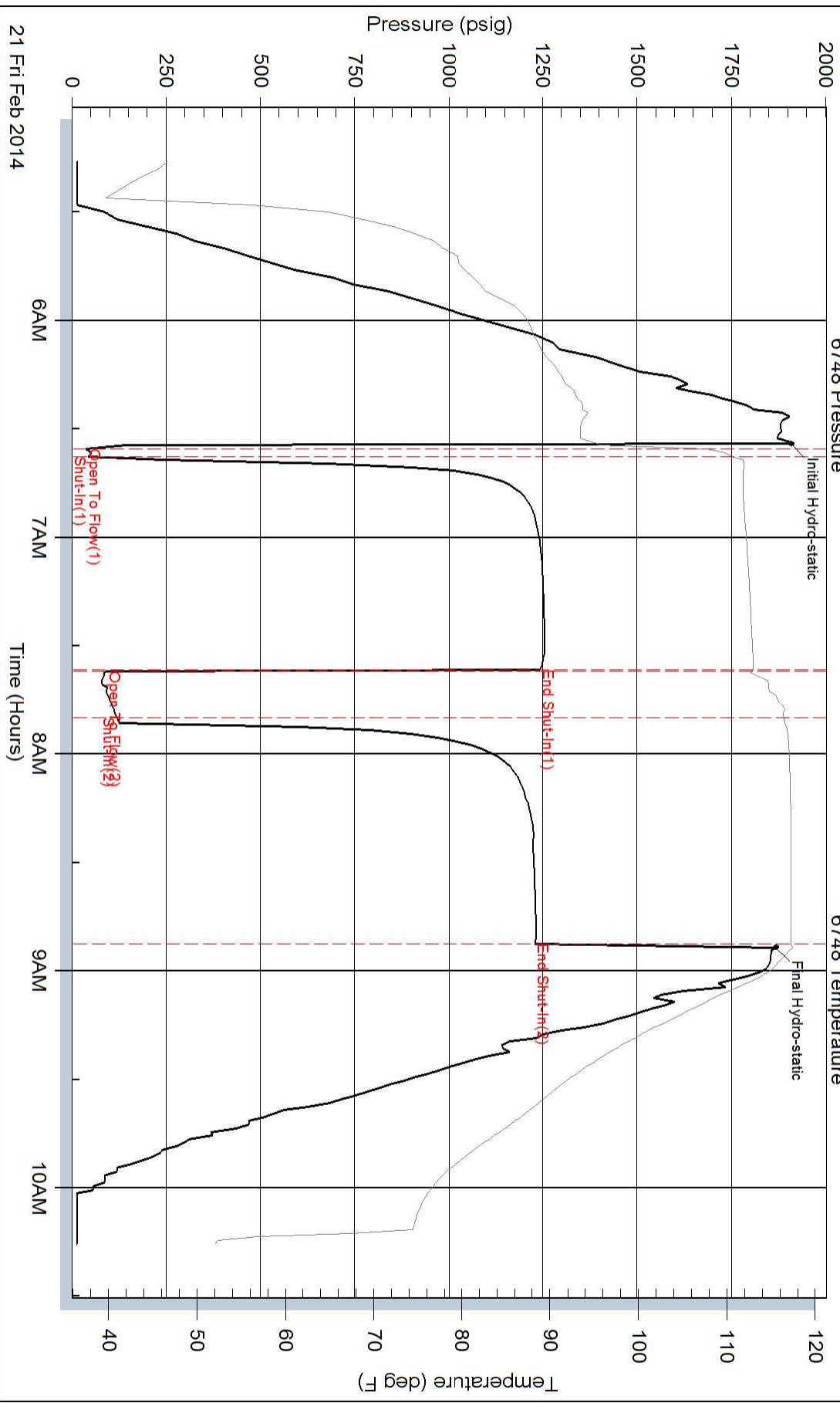
Serial #:

Laboratory Name:

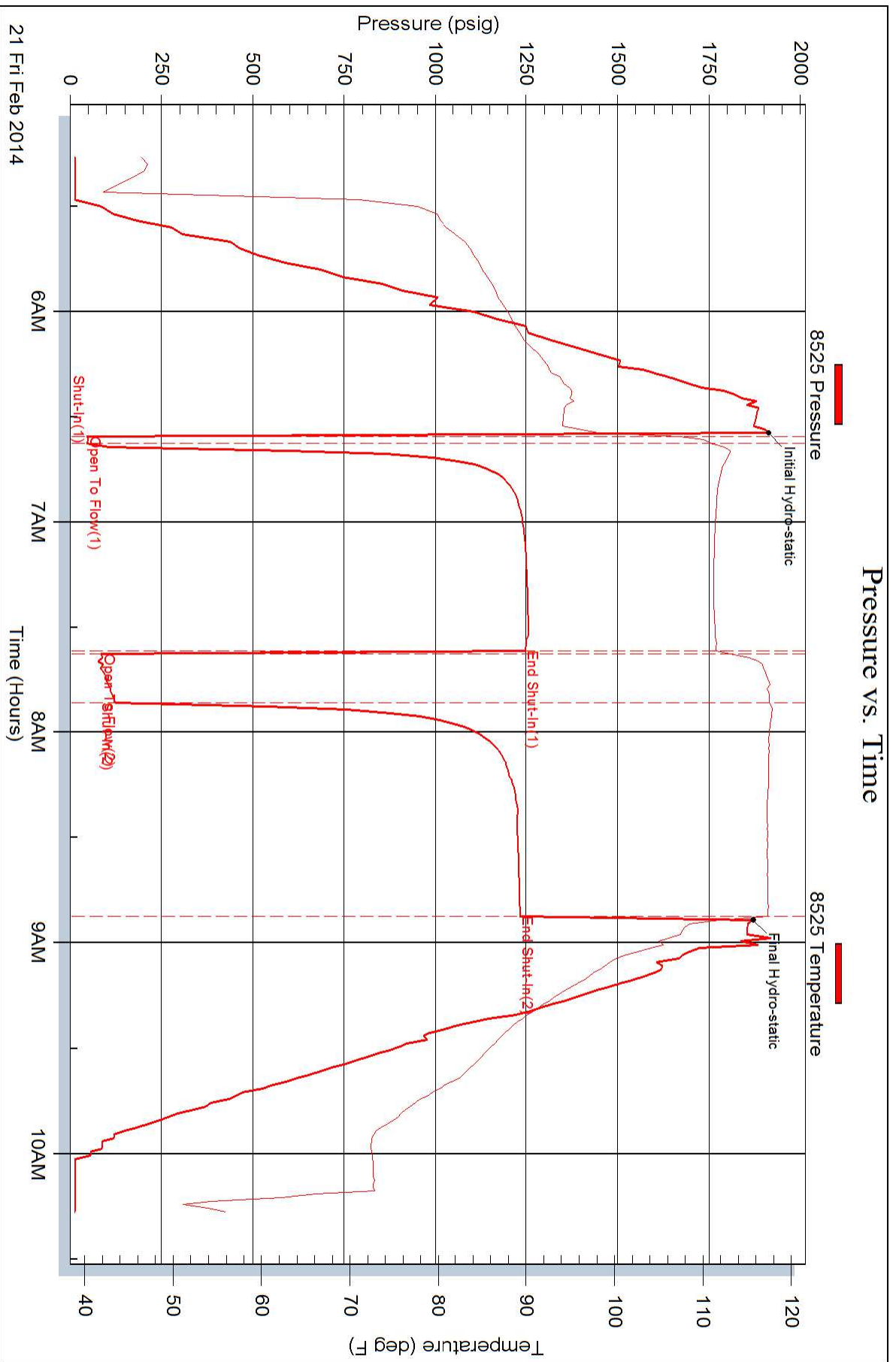
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.22 @ 12:55:00

End Date: 2014.02.22 @ 00:00:00

Job Ticket #: DST #: 5

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

Printed: 2014.02.22 @ 08:30:03



# DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: **DST#: 5**

ATTN: Ryan Greenbaum

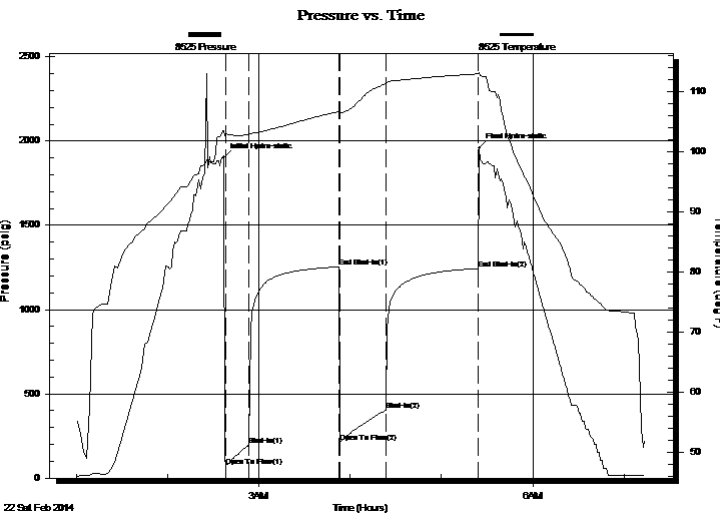
Test Start: 2014.02.22 @ 12:55:00

## GENERAL INFORMATION:

Formation: **3794**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335  
 Interval: **3781.00 ft (KB) To 3794.00 ft (KB) (TVD)**  
 Reference Elevations: 1968.00 ft (KB)  
 Total Depth: 3794.00 ft (KB) (TVD) 1960.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8525 Inside**  
 Press@RunDepth: 1244.30 psig @ 3790.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.22 End Date: 2014.02.22 Last Calib.: 2014.02.22  
 Start Time: 01:00:00 End Time: 07:13:30 Time On Btm: 2014.02.22 @ 02:37:00  
 Time Off Btm: 2014.02.22 @ 05:25:00

**TEST COMMENT:** 1st Opening 15 Minutes fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 1st Shut-In 60 Minutes No blow back  
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes  
 2nd Shut-In 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.36	103.55	Initial Hydro-static
1	72.70	103.16	Open To Flow (1)
17	198.28	102.82	Shut-In(1)
76	1253.11	106.69	End Shut-In(1)
77	215.52	106.47	Open To Flow (2)
107	404.44	111.29	Shut-In(2)
167	1244.30	112.97	End Shut-In(2)
168	1958.23	113.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
875.00	WATER CHLORIDES 29,000	12.27
0.00	THERE WAS A SLIGHT SHOW OF OIL ON 0.00'	

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G.Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, Kansas 67206  
 ATTN: Ryan Greenbaum

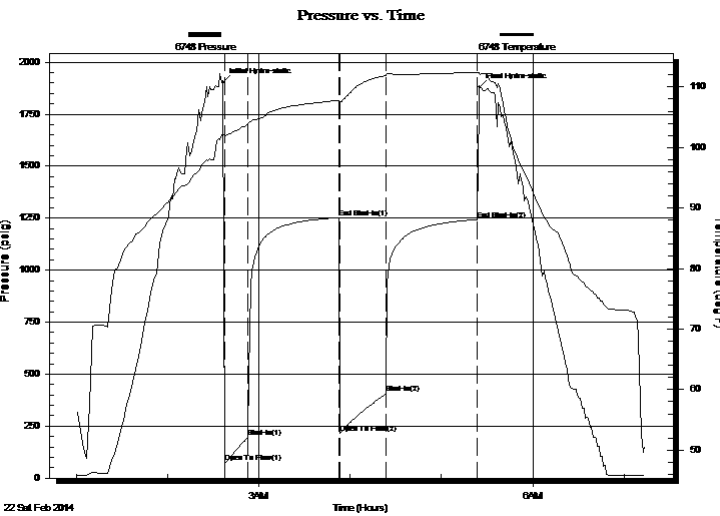
**6-21s-15w**  
**Smith "F" #1-6**  
 Job Ticket: **DST#: 5**  
 Test Start: 2014.02.22 @ 12:55:00

## GENERAL INFORMATION:

Formation: **3794**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335  
 Interval: **3781.00 ft (KB) To 3794.00 ft (KB) (TVD)**  
 Reference Elevations: 1968.00 ft (KB)  
 Total Depth: 3794.00 ft (KB) (TVD) 1960.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6748 Outside**  
 Press@RunDepth: 1243.51 psig @ 3791.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.22 End Date: 2014.02.22 Last Calib.: 2014.02.22  
 Start Time: 01:00:00 End Time: 07:14:00 Time On Btm: 2014.02.22 @ 02:36:30  
 Time Off Btm: 2014.02.22 @ 05:25:00

**TEST COMMENT:** 1st Opening 15 Minutes fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 1st Shut-In 60 Minutes No blow back  
 2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes  
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.23	102.30	Initial Hydro-static
1	75.55	101.91	Open To Flow (1)
17	195.51	103.83	Shut-In(1)
76	1252.67	107.81	End Shut-In(1)
77	215.77	107.48	Open To Flow (2)
107	407.63	111.95	Shut-In(2)
167	1243.51	112.41	End Shut-In(2)
169	1878.53	112.17	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
875.00	WATER CHLORIDES 29,000	12.27
0.00	THERE WAS A SLIGHT SHOW OF OIL ON 0.00'	

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket:

DST#: 5

ATTN: Ryan Greenbaum

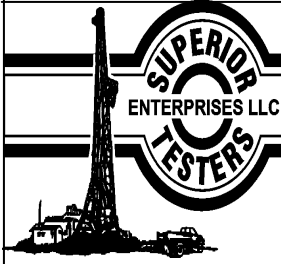
Test Start: 2014.02.22 @ 12:55:00

## Tool Information

Drill Pipe:	Length: 3767.00 ft	Diameter: 3.80 inches	Volume: 52.84 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:	74000.00 lb
			<u>Total Volume: 52.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	3781.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3758.00	
Hydraulic Tool	5.00			3763.00	
Jars	6.00			3769.00	
Safety Joint	2.00			3771.00	
Top Packer	5.00			3776.00	
Packer	5.00			3781.00	28.00 Bottom Of Top Packer
Anchor	8.00			3789.00	
Recorder	1.00	8525	Inside	3790.00	
Recorder	1.00	6748	Outside	3791.00	
Bull Plug	3.00			3794.00	13.00 Anchor Tool
<b>Total Tool Length:</b>	<b>41.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G.Holl Company LLC

**6-21s-15w**

9431 East Central Suite 100  
Wichita, Kansas 67206

**Smith "F" #1-6**

Job Ticket:

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2014.02.22 @ 12:55:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 6.00 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: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
875.00	WATER CHLORIDES 29,000	12.274
0.00	THERE WAS A SLIGHT SHOW OF OIL ON TOI	0.000

Total Length: 875.00 ft      Total Volume: 12.274 bbl

Num Fluid Samples: 0

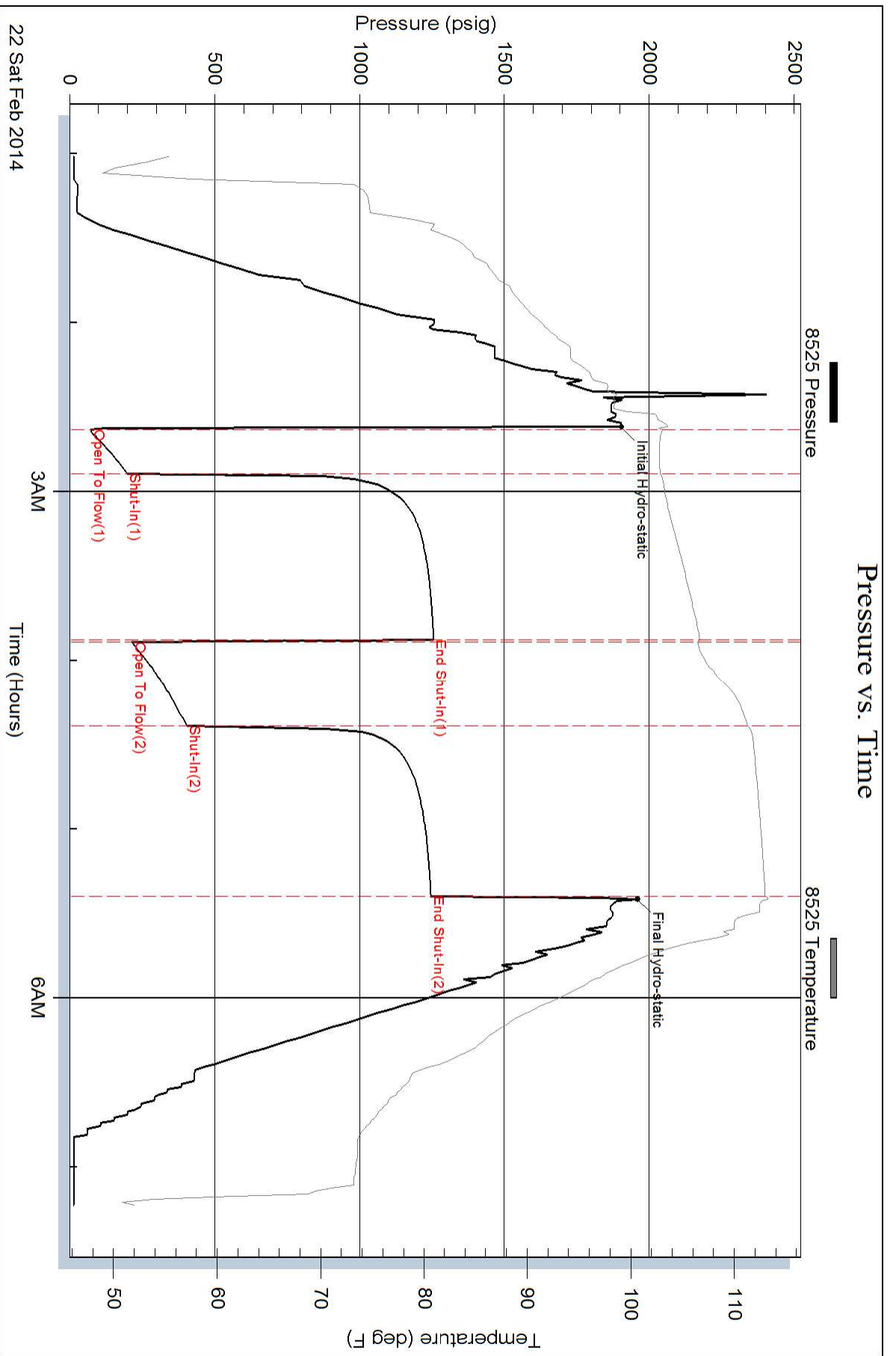
Num Gas Bombs: 0

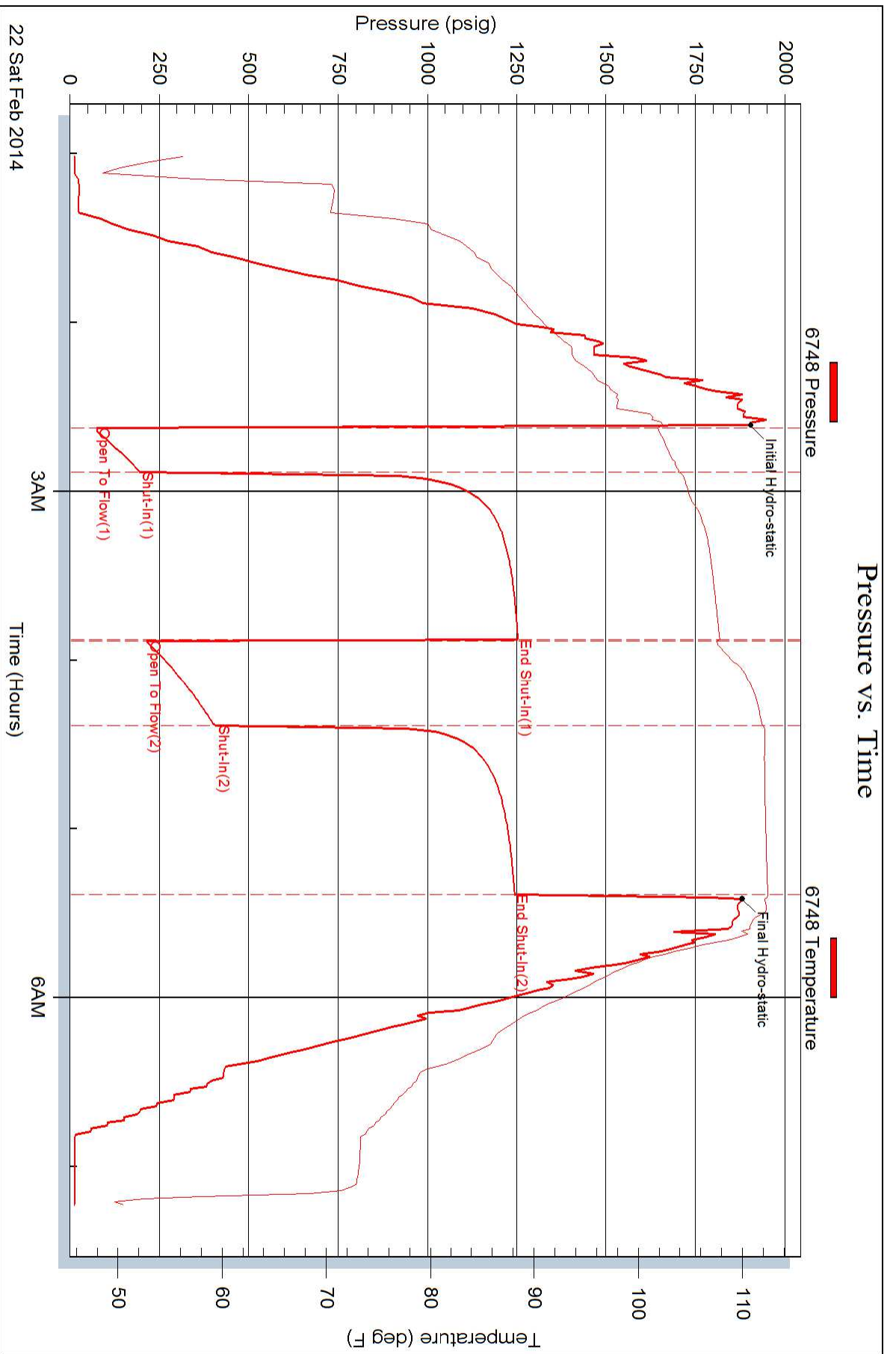
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.22 @ 00:00:00

End Date: 2014.02.22 @ 00:00:00

Job Ticket #: 19227                      DST #: 6

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

Printed: 2014.02.22 @ 21:16:09







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 19227

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.02.22 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3779.00 ft	Diameter: 3.80 inches	Volume: 53.01 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: 53.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3797.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3779.00	
Hydraulic Tool	5.00			3784.00	
Jars	6.00			3790.00	
Safety Joint	2.00			3792.00	
Packer	5.00			3797.00	23.00 Bottom Of Top Packer
Anchor	3.00			3800.00	
Recorder	1.00	8525	Inside	3801.00	
Recorder	1.00	6748	Outside	3802.00	
Bull Plug	3.00			3805.00	8.00 Anchor Tool
<b>Total Tool Length:</b>	<b>31.00</b>				





# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 19227

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.02.22 @ 00:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 6.00 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: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	oil cut muddy water	0.772
0.00	10% oil 35%mkud 55%water	0.000
400.00	gas in the pipe	5.611
0.00	chlorides 28,000	0.000

Total Length: 455.00 ft      Total Volume: 6.383 bbl

Num Fluid Samples: 0

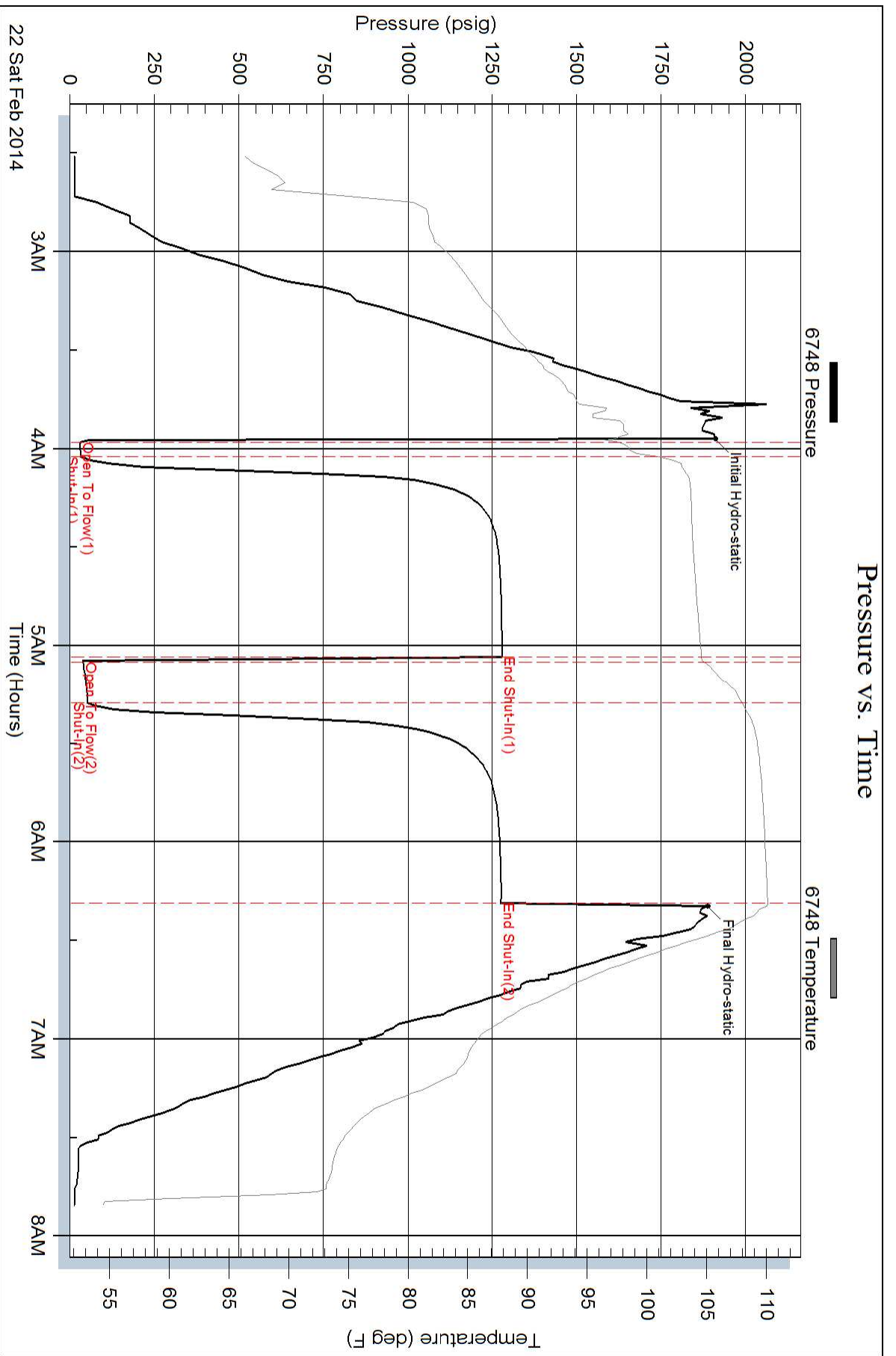
Num Gas Bombs: 0

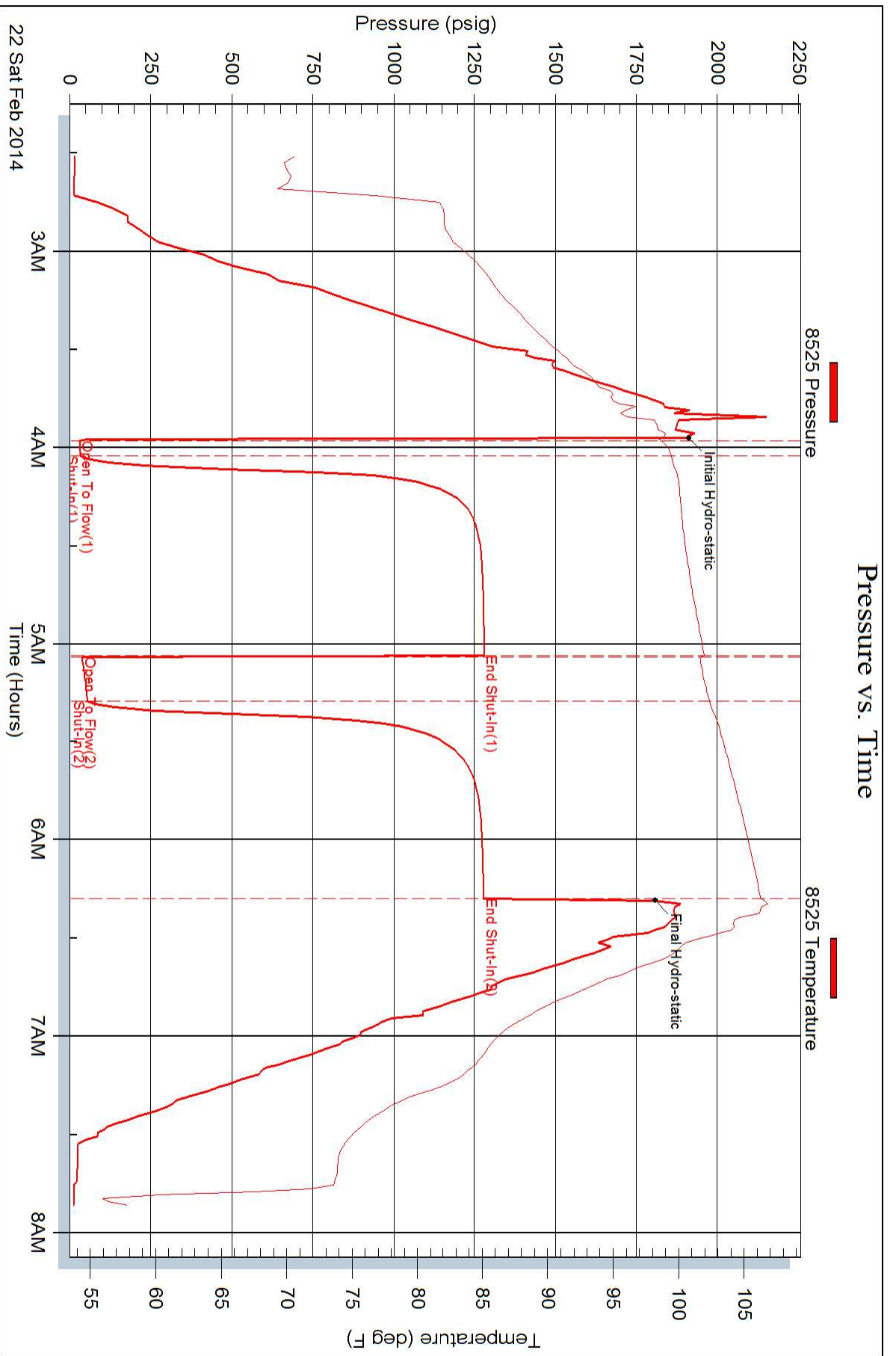
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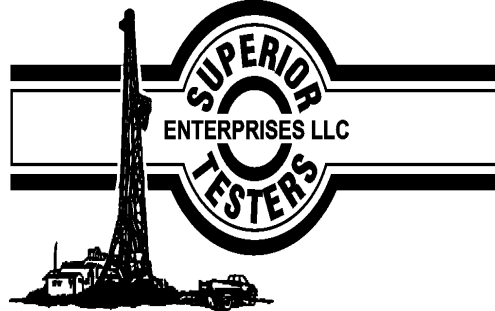
Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206

ATTN: Ryan Greenbaum

**Smith "F" #1-6**

**6-21s-15w**

Start Date: 2014.02.23 @ 00:00:00

End Date: 2014.02.23 @ 00:00:00

Job Ticket #: 7                                  DST #: 7

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

Printed: 2014.02.23 @ 14:49:44



# DRILL STEM TEST REPORT

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 7

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.02.23 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3805.00 ft (KB) To 3835.00 ft (KB) (TVD)**

Reference Elevations: 1968.00 ft (KB)

Total Depth: 3835.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8525**

Inside

Press@RunDepth: 1295.50 psig @ 3831.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.23

End Date: 2014.02.23

Last Calib.: 2014.02.23

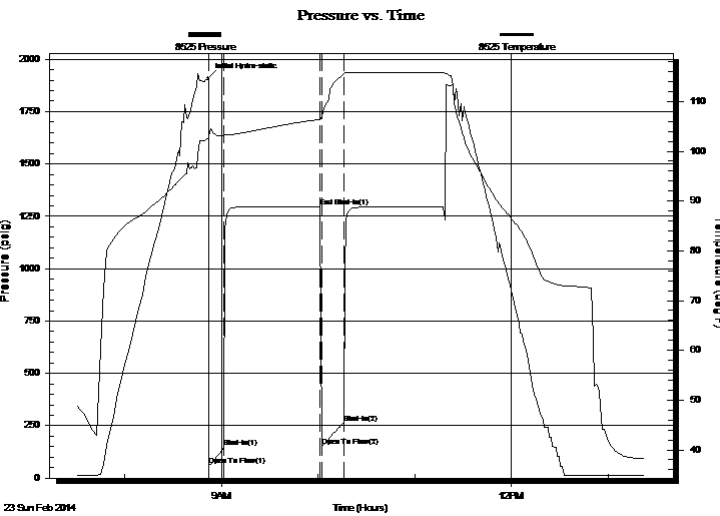
Start Time: 07:30:00

End Time: 13:23:00

Time On Btm: 2014.02.23 @ 08:52:00

Time Off Btm:

TEST COMMENT: 1st Opening 10 Minutes Fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 1st Shut-In 60 Minutes-no blow back  
 2nd Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 2nd Shu-In 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.78	102.67	Initial Hydro-static
1	63.41	103.22	Open To Flow (1)
10	148.21	103.00	Shut-In(1)
70	1295.50	106.42	End Shut-In(1)
71	151.82	106.95	Open To Flow (2)
84	263.95	115.55	Shut-In(2)

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water with a trace of oil	3.37
0.00	Chlorides 24,0009	0.00
120.00	oil cut muddy w ater15%oil35%Mud50%	1.68
160.00	oil cut watery mud 25%oil 55%Mud20%	2.24

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G.Holl Company LLC  
 9431 East Central Suite 100  
 Wichita, Kansas 67206  
 ATTN: Ryan Greenbaum

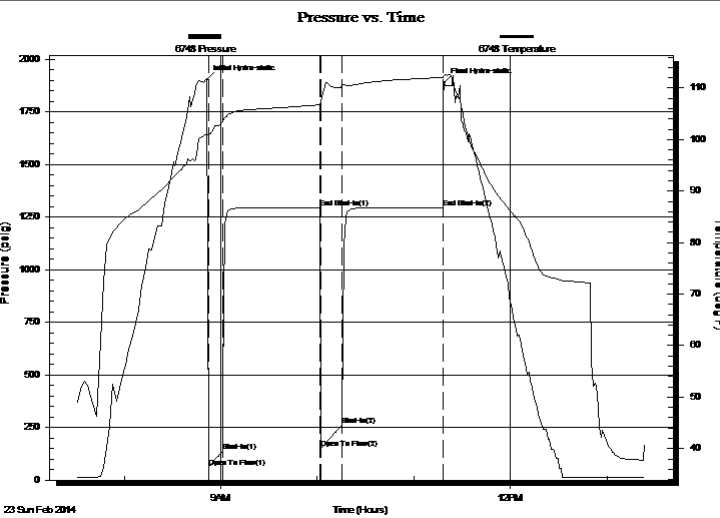
**6-21s-15w**  
**Smith "F" #1-6**  
 Job Ticket: 7 **DST#: 7**  
 Test Start: 2014.02.23 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3805.00 ft (KB) To 3835.00 ft (KB) (TVD)**  
 Total Depth: 3835.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335  
 Reference Elevations: 1968.00 ft (KB)  
 1960.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6748 Outside**  
 Press@RunDepth: 1294.64 psig @ 3832.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.23 End Date: 2014.02.23 Last Calib.: 2014.02.23  
 Start Time: 07:30:00 End Time: 13:23:30 Time On Btm: 2014.02.23 @ 08:51:30  
 Time Off Btm: 2014.02.23 @ 11:19:00

**TEST COMMENT:** 1st Opening 10 Minutes Fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 1st Shut-In 60 Minutes-no blow back  
 2nd Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 2nd Shu-In 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.01	101.00	Initial Hydro-static
1	63.32	101.01	Open To Flow (1)
10	136.62	103.45	Shut-In(1)
71	1294.94	106.74	End Shut-In(1)
71	151.41	106.52	Open To Flow (2)
84	260.88	110.48	Shut-In(2)
147	1294.64	112.04	End Shut-In(2)
148	1889.53	112.50	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
240.00	Water with a trace of oil	3.37
0.00	Chlorides 24,0009	0.00
120.00	oil cut muddy w ater15%oil35%Mud50%	1.68
160.00	oil cut watery mud 25%oil 55%Mud20%	2.24

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company LLC

6-21s-15w

9431 East Central Suite 100  
Wichita, Kansas 67206

Smith "F" #1-6

Job Ticket: 7

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.02.23 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3803.00 ft	Diameter: 3.80 inches	Volume: 53.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3805.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3782.00	
Hydraulic Tool	5.00			3787.00	
Jars	6.00			3793.00	
Safety Joint	2.00			3795.00	
Top Packer	5.00			3800.00	
Packer	5.00			3805.00	28.00 Bottom Of Top Packer
Anchor	25.00			3830.00	
Recorder	1.00	8525	Inside	3831.00	
Recorder	1.00	6748	Outside	3832.00	
Bull Plug	3.00			3835.00	30.00 Anchor Tool
<b>Total Tool Length:</b>	<b>58.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G.Holl Company LLC

**6-21s-15w**

9431 East Central Suite 100  
Wichita, Kansas 67206

**Smith "F" #1-6**

Job Ticket: 7

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2014.02.23 @ 00:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 5997.48 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3800.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Water with a trace of oil	3.367
0.00	Chlorides 24,0009	0.000
120.00	oil cut muddy w ater15%oil35%Mud50%Water	1.683
160.00	oil cut w atery mud 25%oil 55%Mud20%w ater	2.244

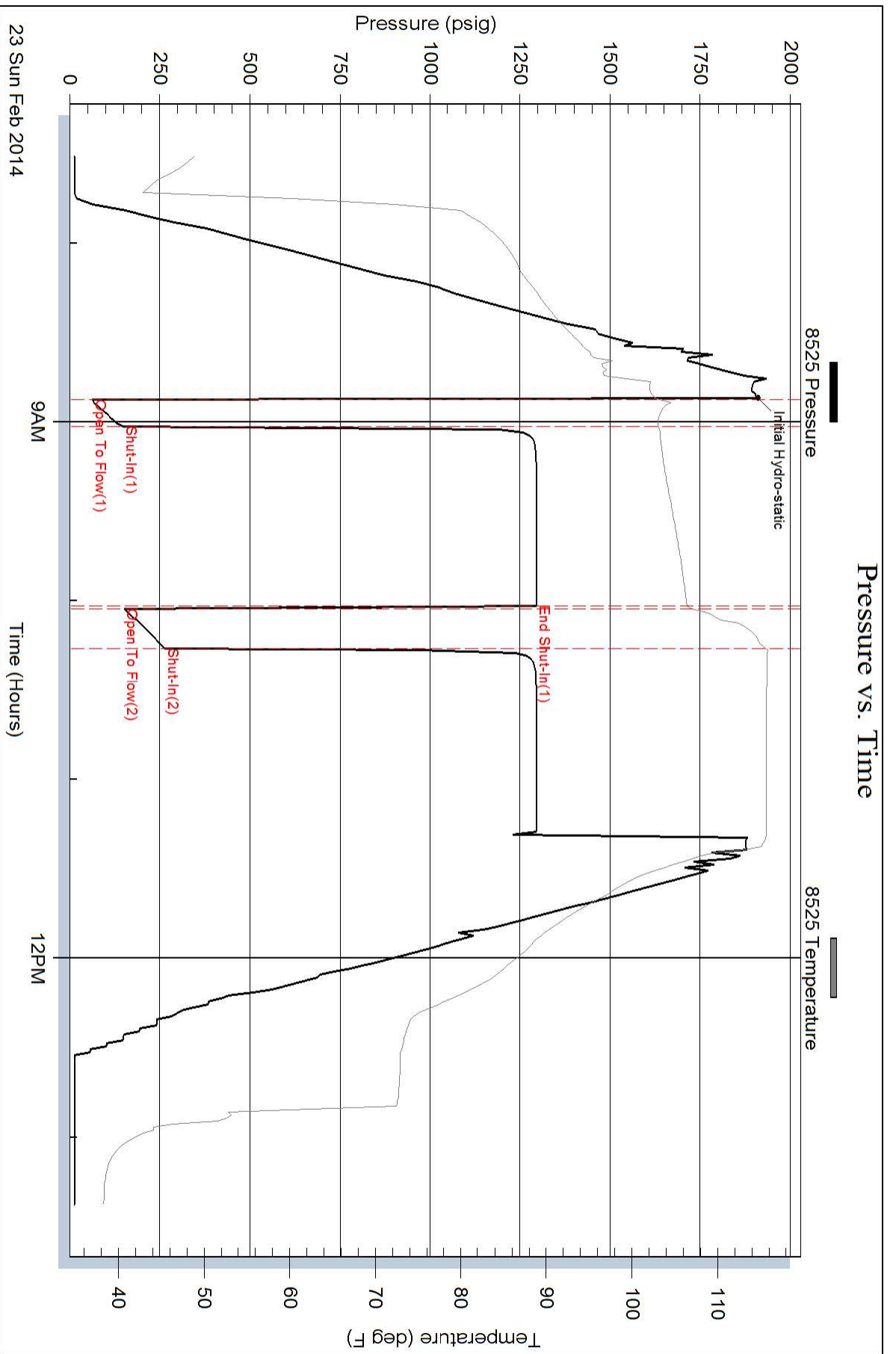
Total Length: 520.00 ft      Total Volume: 7.294 bbl

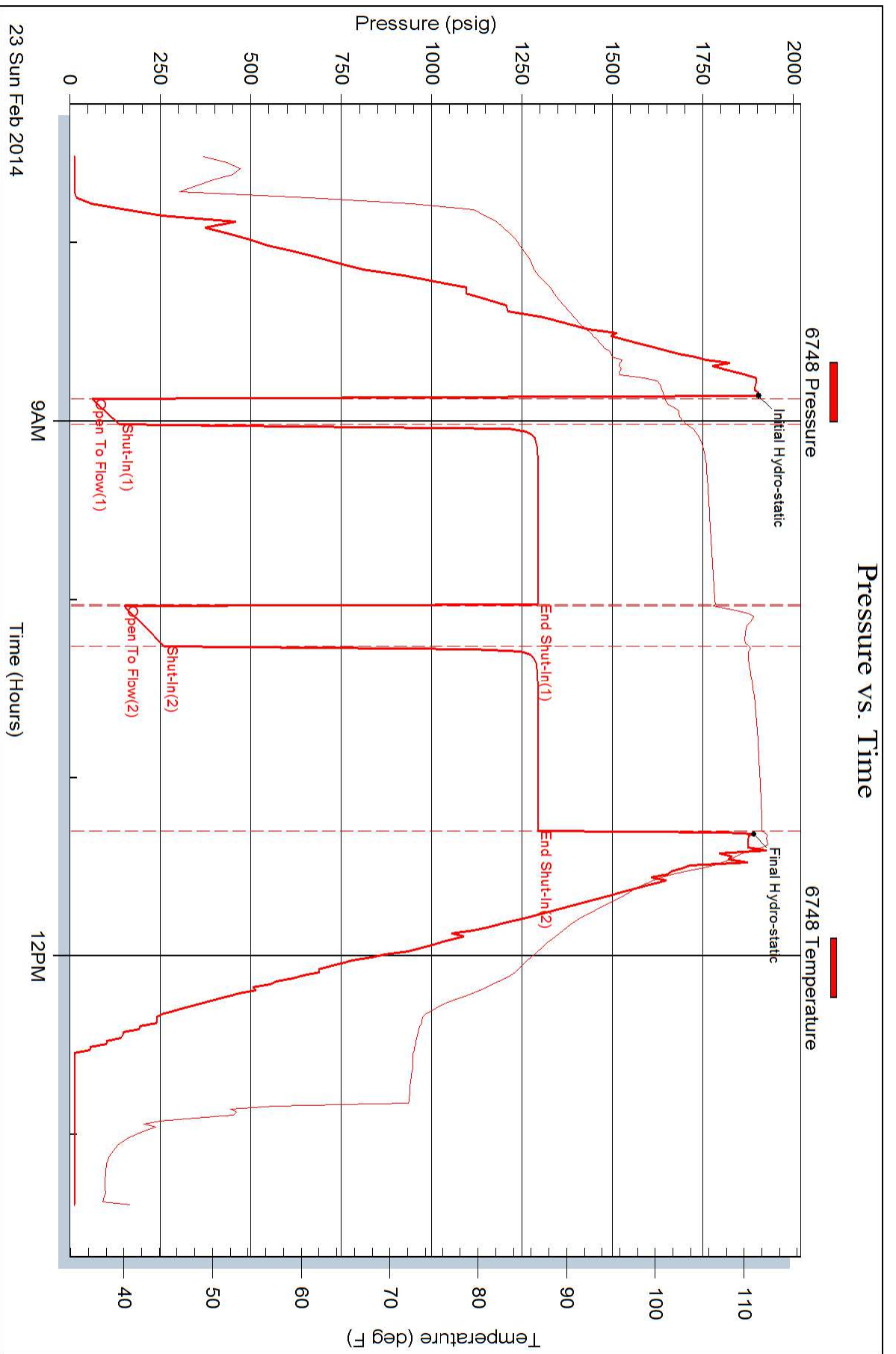
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









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

FIELD SERVICE TICKET

1718 10356 A

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

DATE OF JOB		DISTRICT		NEW WELL <input checked="" type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER				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		AM PM	
												START OPERATION		AM PM	
												FINISH OPERATION		AM PM	
												RELEASED		AM PM	
												MILES FROM STATION TO WELL			

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
AK 300	...	...	25		
AK 322	...	...	5		
AK 325	...	...	150		
AK 341	...	...	150		
AK 342	...	...	150		
C-24	...	...	1		
E-100	...	...	1		
E-101	...	...	150		
E-113	...	...	75		
E-204	...	...	1		
E-240	...	...	25		
S-003	...	...	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.

Lease No. \_\_\_\_\_ Date \_\_\_\_\_  
 Lease 7 G. HULL Well # 1-6  
 Field Order # 10356 Station PRATT Ks Casing \_\_\_\_\_ Depth \_\_\_\_\_ County BARTON State KS  
 Type Job - OILW - Formation \_\_\_\_\_ Legal Description 6-21-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>5 1/2</u>	Tubing Size <u>3 1/2</u>	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From <u>3754</u>	To <u>3762</u>	Pre Pad		Max		5 Min.
Volume	Volume <u>31.5</u>	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative \_\_\_\_\_ Station Manager DAVE SCOTT Treater Robert Jullian

Service Units	Driver Names	Driver Names	Driver Names	Driver Names	Driver Names
<u>27900</u>	<u>Callie</u>	<u>GRAVES</u>	<u>HANSON</u>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>1:20</u>					<u>see log sheet notes</u>
<u>1:50</u>		<u>0</u>	<u>39</u>	<u>3</u>	<u>load hole</u>
<u>2:04</u>			<u>3</u>	<u>2.5</u>	<u>loaded</u>
<u>2:15</u>			<u>23</u>		<u>5% Acid</u>
					<u>5% flush</u>
					<u>acid spotted SHUT down</u>
					<u>pull 3 STS AND SET PACKER</u>
		<u>450</u>	<u>26</u>		<u>at PSI</u>
		<u>250</u>		<u>1</u>	<u>dump into</u>
<u>2:30</u>		<u>0</u>	<u>32</u>		<u>shut down well 15 min</u>
					<u>SWAB Test</u>
<u>4:20</u>			<u>1 1/2</u>		<u>LOAD Annulus</u>
	<u>500</u>				<u>PSI Annulus</u>
<u>4:30</u>		<u>350</u>	<u>22</u>	<u>2</u>	<u>2% Injection RATE</u>
<u>4:43</u>			<u>5</u>		<u>2% acid spacer</u>
			<u>5 1/2</u>		<u>mix amt w/acid</u>
			<u>5</u>		<u>SPACER acid</u>
<u>4:50</u>		<u>700</u>			<u>Dump</u>
<u>5:00</u>		<u>800</u>	<u>21</u>		<u>Shut down well</u>
		<u>0</u>			

PAGE 2 of 2

Lease: **F. G. HOLL** Lease No.: \_\_\_\_\_ Date: \_\_\_\_\_  
 Well #: **SMITH 7** Well # **1-10**  
 Field Order #: **10356** Station: **PAN-H** Casing: \_\_\_\_\_ Depth: \_\_\_\_\_ County: \_\_\_\_\_ State: **KS**  
 Type Job: **(N-2)** Formation: \_\_\_\_\_ Legal Description: **6-21-15**

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

Customer Representative: \_\_\_\_\_ Station Manager: **PAUL SCOTT** Treater: **Robert L...**

Service Units	Driver Names

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
5:20	0	0	1/2	1/4	made 1/2 BBL
6:05	0	0	1/2		pump shut down Total 23 BBL out Release back side
6:20	250			2	Ran Tube Bottom Reverse out
6:35			35		shut down close valve Job Complete



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FIELD SERVICE TICKET  
1718 09918 A

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

DATE OF JOB: 2-25-14		DISTRICT: Pratt		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: 9 Holl HC				LEASE: Smith				WELL NO. 16							
ADDRESS:				COUNTY: Barber				STATE: KS							
CITY:				STATE:				SERVICE CREW: Matty K... H... H...							
AUTHORIZED BY:				JOB TYPE: CDW 1017 51117											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
27586	1						2-25-14				ARRIVED AT JOB				
											START OPERATION				
27463	1										FINISH OPERATION				
											RELEASED				
110-119366	1										MILES FROM STATION TO WELL				

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
CC 101	AA...	2	10		
CC 102	60/10 P02	2	75		
CC 102	Call...	10	32		
CC 103	C-411 P...	10	30		
CC 111	Salt	10	562		
CC 115	C-44	10	115		
CC 121	Flu...	10	115		
CC 201	Sil...	10	1625		
CC 121	...	10	1		
CC 1051	...	10	8		
CC 101	...	10	1		
CC 2002	...	10	160		
CC 101	...	10	160		

SUB TOTAL 16

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: MIKE MATTHEW	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
--------------------------------------	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



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**FIELD SERVICE TICKET**

~~1718-09918~~ A

CONTINUATION OF 1718-09918

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

DATE OF JOB 2-25-14 DISTRICT Pratt	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:					
CUSTOMER F g Hull	LEASE Smith WELL NO. 1-6					
ADDRESS	COUNTY Barton STATE ks					
CITY STATE	SERVICE CREW					
AUTHORIZED BY	JOB TYPE:					
EQUIPMENT# HRS	EQUIPMENT# HRS	EQUIPMENT# HRS	TRUCK CALLED	DATE	AM PM	TIME
			ARRIVED AT JOB		AM PM	
			START OPERATION		AM PM	
			FINISH OPERATION		AM PM	
			RELEASED		AM PM	
			MILES FROM STATION TO WELL			

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	P.M. miles	MF	65		
E 101	Heavy eq. miles	MF	130		
E 113	PROP + Bulk Del	PR	595		
CE 204	DEPTH charge 3001-4000'	4hr	1		
CE 240	ISLAND + MIX CHARGE	SK	200		
CE 501	CASING SWITCH CONTAIN	EA	1		
CE 504	Plug CONTAINOR UTILIZATION	JOB	1		
S 003	Service Supervisor	EA	1		

SUB TOTAL 149

CHEMICAL / ACID DATA:			

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

TOTAL

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

FIELD SERVICE ORDER NO.



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Phone 620-672-1201

**FIELD SERVICE TICKET**

1718-09910 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			AM PM	
						START OPERATION			AM PM	
						FINISH OPERATION			AM PM	
						RELEASED			AM PM	
						MILES FROM STATION TO WELL				

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
100	...				
101	...				
113	...				
102	...				
103	...				
104	...				
105	...				
106	...				
107	...				
108	...				
109	...				
110	...				
111	...				
112	...				
113	...				
114	...				
115	...				
116	...				
117	...				
118	...				
119	...				
120	...				

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.



Customer <b>Fg Hall</b>	Lease No.	Date <b>2-25-14</b>
Lease <b>SMITH</b>	Well # <b>1-6</b>	
Field Order # <b>9918</b>	Station <b>PRATT</b>	Casing <b>5 1/2</b> Depth <b>3975</b>
Type Job <b>CNW Long string</b>	Formation <b>RTO 4000</b>	County <b>BARTON</b> State <b>KS</b>
		Legal Description <b>6-21-15</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2</b>	Tubing Size	Shots/Ft		Acid <b>125 SK AA-2</b>	FG RATE <b>270 gal</b>	PRESS <b>500</b>	ISIP	
Depth <b>3997</b>	Depth	From	To	Pro Pad <b>75 SK 60/L</b>	Max Pore <b>270 gal</b>	<b>500</b>	5 Min.	<b>500</b>
Volume <b>77.5</b>	Volume <b>99</b>	From	To	Pad	Min		10 Min.	
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3997</b>	Packer Depth <b>3925</b>	From	To	Flush	Gas Volume		Total Load	

Customer Representative <b>Rob Long</b>	Station Manager <b>Kevin Gordley</b>	Treater <b>Mike Matty</b>
---	--------------------------------------	---------------------------

Service Units <b>37586</b>	<b>27463</b>	<b>19826</b>	<b>19860</b>
Driver Names <b>MATTY</b>	<b>Kuam</b>	<b>HAMBLY</b>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:50					ON LOCATION / SAFETY Meeting
9:15					run pipe, BASKET ON #7 5.5" 14"
					Turbos on 1, 2, 3, 4, 5, 7, 8, 9
11:30					CIRCULATE PIPE DOWN, DIDNT GO DOWN
12:15 <sup>A</sup>					CSNG ON BOTTOM
12:30					HOOK UP TO CSNG / BREAK CIRC W. RIG
2:45	150		5	4	PUMP 5 BBL H <sub>2</sub> O
2:55	150		12	4	PUMP 12 BBL SUPER FLUSH
2:57	150		5	4	PUMP 5 BBL H <sub>2</sub> O
2:58	150		6	4	MIX 25 SKS SCALING
3:00	150		31	4.5	MIX 125 SKS AA-2
3:11	-		4	3	WASH PUMP + LINE
3:13	-		-	-	RELEASE PLUG
3:14	150		-	4	START DISPLACEMENT
3:30	250		70	3.5	LIFT PRESSURE
3:36	600		85	4	STOP ROTATING
3:38	900/1400		96.5		PLUG DOWN. PSE TO 1400. RELEASE PLUG
					PLUG RAT + MOUSE HOLE
					JOB COMPLETE
					THANK YOU!
					MIKE MATTY



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

FIELD SERVICE TICKET  
1718 10076 A

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

DATE OF JOB: 02-14-14		DISTRICT: PRATT KS		NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER: F G HOLL				LEASE: SMITH		1-6		WELL NO.:		
ADDRESS:				COUNTY: PAWNEE		STATE: KS				
CITY:		STATE:		SERVICE CREW: Sullivan, Grant, Phyllis						
AUTHORIZED BY:				JOB TYPE: NEW 8 3/4" LUBRIC						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
33702-107										
70240-18414										
37900										
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				65

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

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SIGNED: *Don Wagner*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100	1/2" cut	SK	200		
CP 100	Compressor cut	SK	200		
CC 107	WHEAT	lb	100		
CC 109	Custom handle	lb	940		
E 105	TOP Rubber Plug 8 3/4"	SA	1		
CF 1753	Cont.	SA	3		
E 100	rubber pad	in	65		
E 101	Hydro Jet	in	130		
E 113	Bulk Wash	gal	120		
CE 202	Appl dump 500 1000	SA	1		
CE 240	Blow down pump	SK	400		
CE 504	Wash bucket 10 gal	SA	1		
5003	Schumers before	SA	1		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <i>Robert J. [Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Don Wagner</i>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



rgy services, L.P.

**TREATMENT REPORT**

Owner <i>7.5-4064</i>	Lease No.	Date <i>02-14-14</i>	
Lease <i>Smith</i>	Well # <i>1-6</i>		
Field Order # <i>10076</i>	Station <i>PRATT KS</i>	Casing <i>8 7/8</i>	Depth <i>765'</i>
Type Job <i>CON 8 7/8</i>	Formation	County <i>PAWNEE</i>	State <i>KS</i>
		Legal Description <i>6-21-15</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>8 7/8</i>				Pre Pad	Max			5 Min.
Depth <i>765'</i>	Depth	From	To	Pad	Min			10 Min.
Volume <i>60</i>	Volume	From	To	Frac	Avg			15 Min.
Max Press <i>300</i>	Max Press	From	To		HHP Used			Annulus Pressure
Well Connection <i>PC</i>	Annulus Vol.	From	To	Flush	Gas Volume			Total Load
Plug Depth <i>975'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SOTT</i>	Treater <i>Robert Sullivan</i>
-------------------------	-------------------------------------	-----------------------------------

Service Units	<i>37900</i>	<i>33208</i>	<i>20970</i>	<i>20890</i>	<i>9918</i>				
Driver Names	<i>Sullivan</i>	<i>GRAVES</i>	<i>Phyllis</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:00</i>					<i>on the Sotty meet</i>
					<i>Ran 8 7/8 csg.</i>
<i>12:50</i>					<i>CASING ON BOTTOM</i>
<i>1:00</i>					<i>Hook Up CIRC csg.</i>
<i>1:05</i>			<i>3</i>	<i>3</i>	<i>At SPACER</i>
			<i>87</i>	<i>5</i>	<i>mix A-con cont @ 12ppg 200sk 34cc 1/4 ct</i>
			<i>42</i>		<i>mix Tail cont 200sk (annulus) 2%acc 1/4 ct</i>
					<i>cont mix job shut down</i>
					<i>Release Plug</i>
					<i>At Plug</i>
<i>2:00</i>	<i>350</i>		<i>60</i>		<i>plug down</i>
					<i>CIRC 20 BBL cont Pit</i>
					<i>JOB COMPLETE</i>
					<i>Thank you</i>