



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1192683  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

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

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

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

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

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

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

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

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

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1192683

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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	SONJA PHILLIPS TRUST 1-22
Doc ID	1192683

All Electric Logs Run

DIL
CDL/CNL
CPI
BHCS
Fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SONJA PHILLIPS TRUST 1-22
Doc ID	1192683

Tops

Name	Top	Datum
Anhydrite	823	+1072
Herrington	1764	+131
Winfield	1819	+76
Towanda	1884	+11
Fort Riley	1930	-35
B/Florence	2028	-133
Kinney Ls	2041	-146
Wrefold	2072	-177
Council Grove	2091	-196
Crouse	2130	-235
Neva	2265	-370
Red Eagle	2326	-431
Onaga Shale	2482	-587
Wabaunsee	2506	-611
Root Shale	2570	-675
Stotler	2626	-731
Tarkio	2686	-791
Howard	2826	-931
Severy Shale	2878	-983
Topeka	2896	-1001
Heebner	3165	-1270
Toronto	3178	-1283
Douglas Shale	3197	-1302
Brown Lime	3268	-1373

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SONJA PHILLIPS TRUST 1-22
Doc ID	1192683

Tops

Name	Top	Datum
LKC	3278	-1383
Drum	3401	-1506
BKC	3503	-1608
Arbuckle	3644	-1749
RTD	3750	1855



# Mud-Co / Service Mud Inc.

Operator **FG HOLL** County **Barton** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8** " @ **830** ft.  
 Well **Sonja Phillips Trust #1-22** Location \_\_\_\_\_ GPM **7.75** BPM \_\_\_\_\_ " @ \_\_\_\_\_ ft.  
 Contractor **Duke #2** Sec **22** TWP **20S** RNG **14W** D.P. **4.5** in. **191** FT/MIN R.A. \_\_\_\_\_ " @ \_\_\_\_\_ ft.  
 Stockpoint **Pratt, Ks.** Date **2/1/2014** Engineer **Rick Hughes** Collar **6.25** in. **495** ft. **348** FT/MIN R.A. Total Depth **3750** ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Strip_ Meter_	FILTRATION/ILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT		
			Sec API @__F	PV @__F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ca ppm		Solids %	Oil %	Water %						
2/1	0																				RURT	
2/3	932	8.5	27	1	1	0/0	12.0	N/C	-			3,000	N/C		1.3		98.7				Drlg.	
2/4	1988	9.2	38	12	10	6/23	7.0	6.4	1			27m	2,240		4.8		95.2				Drlg. Displaced Starch @ 1670'	
2/5	2379	8.6	74	18	17	13/44	10.5	6.4	1			5,400	20		1.9		98.1				Drlg. Displaced chem @ 2379'	
2/6	2954	9.4	43	11	13	8/28	9.5	9.2	1			6,200	20		7.5		92.5				Drlg.	
2/7	3280	9.8	44	10	17	28/68	8.5	12.8	2			6,500	80		10.2		89.8				CCH DST #1 @ 3335	
2/8	3355	9.5	45	12	10	16/29	11.0	8.8	1			5,200	0		8.1		91.9				TO w/DST #2 DST #2 @ 3355	
2/9	3426	9.3	45	11	11	12/34	11.5	8.0	1			5,100	0		6.8		93.2				CCH f/DST #4 DST #3 @ 3412	
2/10	3462	9.3	40	9	9	12/24	10.5	9.2	1			6,500	40		6.4		93.6				Drlg. DST #4 @ 3426	
2/11	3585	9.3	46	12	10	16/32	11.0	8.4	1			4,300	0		6.9		93.1				TI w/Bit DST #5 @ 3448	
2/12	3750	9.4	48	14	12	13/38	10.5	9.2	1			5,200	0		7.5		92.5	1/2			Logging DST #6 @ 3585	
2/12	3750																				Final: LTD - 3750'. 6 DST's. Run casing.	
																						Reserve Pit, Chl content ppm: 45,000
																						Estimated Volume: 400 bbls
																						Offsite reserve pit with centrifugal transfer pump to steel pits

**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	50		SUPER LIG	11	314.60		
CAUSTIC SODA	19						
DESCO	2						
DRILL PAK	8						
LIME	2						
MIL-GUARD	1						
PREMIUM GEL	340						
SALT CLAY	30						
SODA ASH	22						
STARCH	58						
						Total Mud Cost	
						Trucking Cost	
						Trucking Surcharge	
						Taxes	
						<b>TOTAL COST</b>	



## DRILL STEM TEST REPORT

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

9431 East Central Suit 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

**Sonja Phillips 1-22**

**22-20s-14w-Barton**

Start Date: 2014.02.07 @ 03:19:00

End Date: 2014.02.07 @ 08:39:30

Job Ticket #: 19252                      DST #: 1

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

Printed: 2014.02.07 @ 21:57:49





# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19252

**DST#: 1**

ATTN: Ryan Greenbaum

Test Start: 2014.02.07 @ 03:19:00

## GENERAL INFORMATION:

Formation: **Lansing A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:59:30

Time Test Ended: 08:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

**Interval: 3275.00 ft (KB) To 3335.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 6651

Press@RunDepth: 77.94 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.07 End Date: 2014.02.07

Last Calib.: 2014.02.07

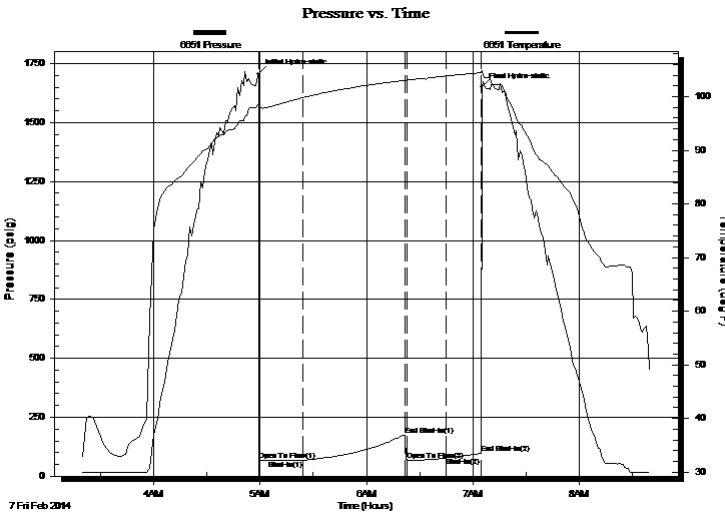
Start Time: 03:19:00 End Time: 08:39:30

Time On Btm: 2014.02.07 @ 04:59:00

Time Off Btm: 2014.02.07 @ 07:05:00

**TEST COMMENT:** 1st Open 30 minutes Weak surface blow built to 1 inch.  
1st Shut in 60 minutes No blow back  
2nd Open 15 minutes Dead flushed tool no help.  
2nd Shut in 30 minutes No blow back

## PRESSURE SUMMARY



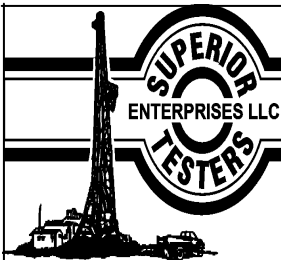
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.61	98.36	Initial Hydro-static
1	65.52	97.70	Open To Flow (1)
25	65.56	99.80	Shut-In(1)
83	175.53	103.05	End Shut-In(1)
84	69.14	103.06	Open To Flow (2)
106	77.94	103.86	Shut-In(2)
126	96.48	104.46	End Shut-In(2)
126	1650.72	104.89	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
15.00	Very lightly oil spotted mud 100%	0.21

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



# DRILL STEM TEST REPORT

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

**22-20s-14w-Barton**  
**Sonja Phillips 1-22**  
 Job Ticket: 19252 **DST#: 1**  
 Test Start: 2014.02.07 @ 03:19:00

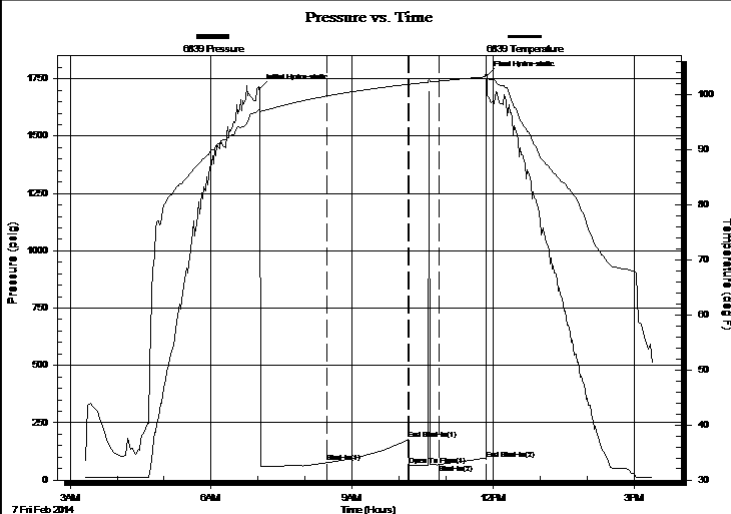
## GENERAL INFORMATION:

Formation: **Lansing A-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:59:30  
 Time Test Ended: 08:39:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-20  
 Interval: **3275.00 ft (KB) To 3335.00 ft (KB) (TVD)**  
 Reference Elevations: 1895.00 ft (KB)  
 Total Depth: 3335.00 ft (KB) (TVD) 1887.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 6839

Press@RunDepth: 91.99 psig @ ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.07 End Date: 2014.02.07 Last Calib.: 2014.02.07  
 Start Time: 03:19:00 End Time: 15:25:00 Time On Btm: 2014.02.07 @ 07:02:00  
 Time Off Btm: 2014.02.07 @ 11:51:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow built to 1 inch.  
 1st Shut in 60 minutes No blow back  
 2nd Open 15 minutes Dead flushed tool no help.  
 2nd Shut in 30 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.76	97.40	Initial Hydro-static
86	75.86	99.82	Shut-In(1)
190	176.40	101.95	End Shut-In(1)
190	65.21	101.92	Open To Flow (1)
228	67.94	102.50	Shut-In(2)
288	91.99	103.30	End Shut-In(2)
290	1765.49	103.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very lightly oil spotted mud 100%	0.21

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19252

**DST#: 1**

ATTN: Ryan Greenbaum

Test Start: 2014.02.07 @ 03:19:00

## Tool Information

Drill Pipe:	Length: 3267.00 ft	Diameter: 3.80 inches	Volume: 45.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3275.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.81 ft			
Tool Length:	88.81 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			3252.00	
Hydraulic tool	5.00			3257.00	
Jars	6.00			3263.00	
Safety Joint	2.00			3265.00	
Top Packer	5.00			3270.00	
Packer	5.00			3275.00	28.00 Bottom Of Top Packer
Anchor	7.00			3282.00	
Change Over Sub	0.75			3282.75	
Drill Pipe	31.31			3314.06	
Change Over Sub	0.75			3314.81	
Anchor	16.00			3330.81	
Recorder	0.00	6839	Inside	3330.81	
Recorder	0.00	6651	Outside	3330.81	
Bull Plug	5.00			3335.81	60.81 Anchor Tool

**Total Tool Length: 88.81**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19252

**DST#: 1**

ATTN: Ryan Greenbaum

Test Start: 2014.02.07 @ 03:19:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 44.00 sec/qt  
Water Loss: 12.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6500.00 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

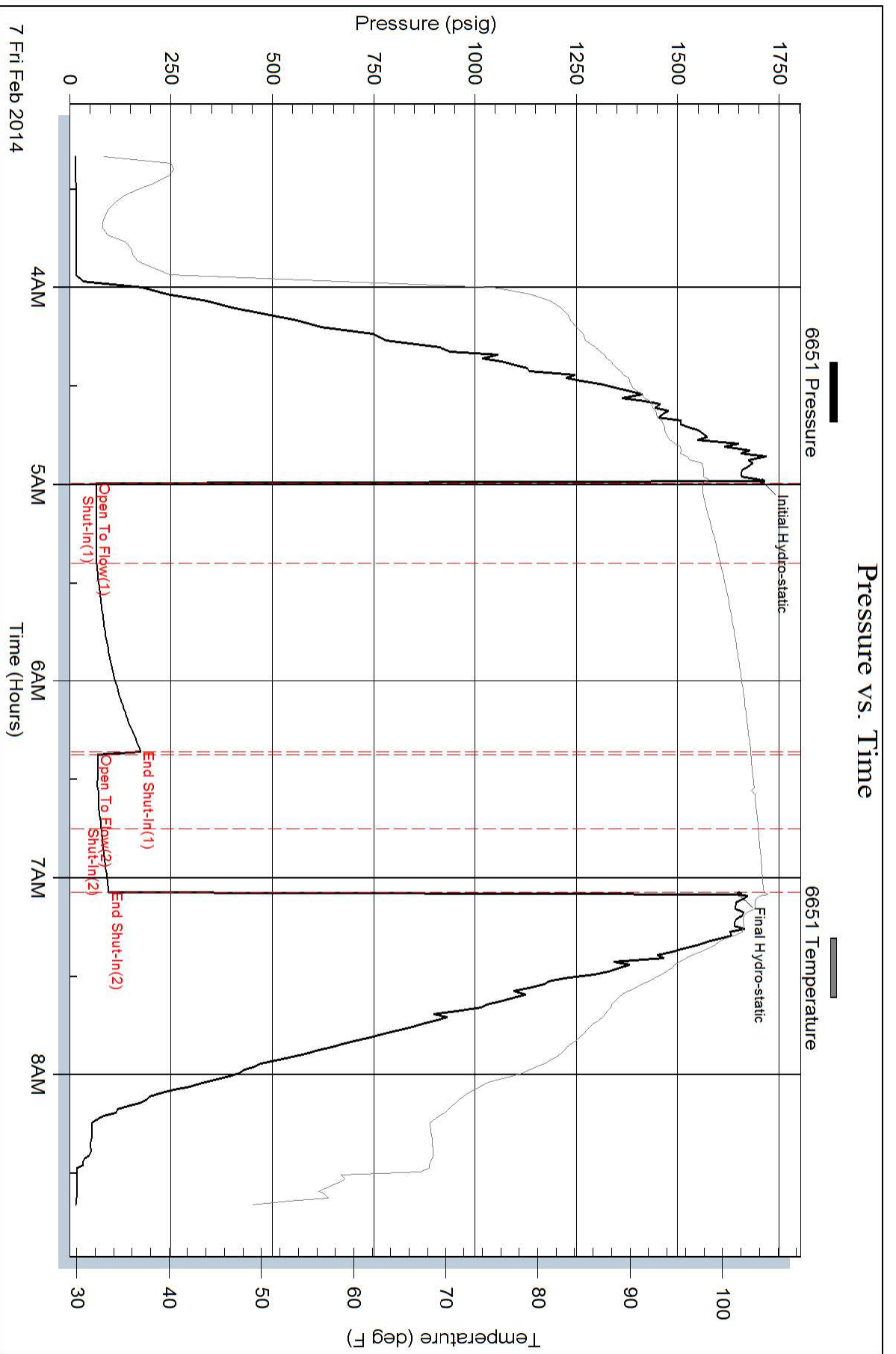
Length ft	Description	Volume bbl
15.00	Very lightly oil spotted mud 100%	0.210

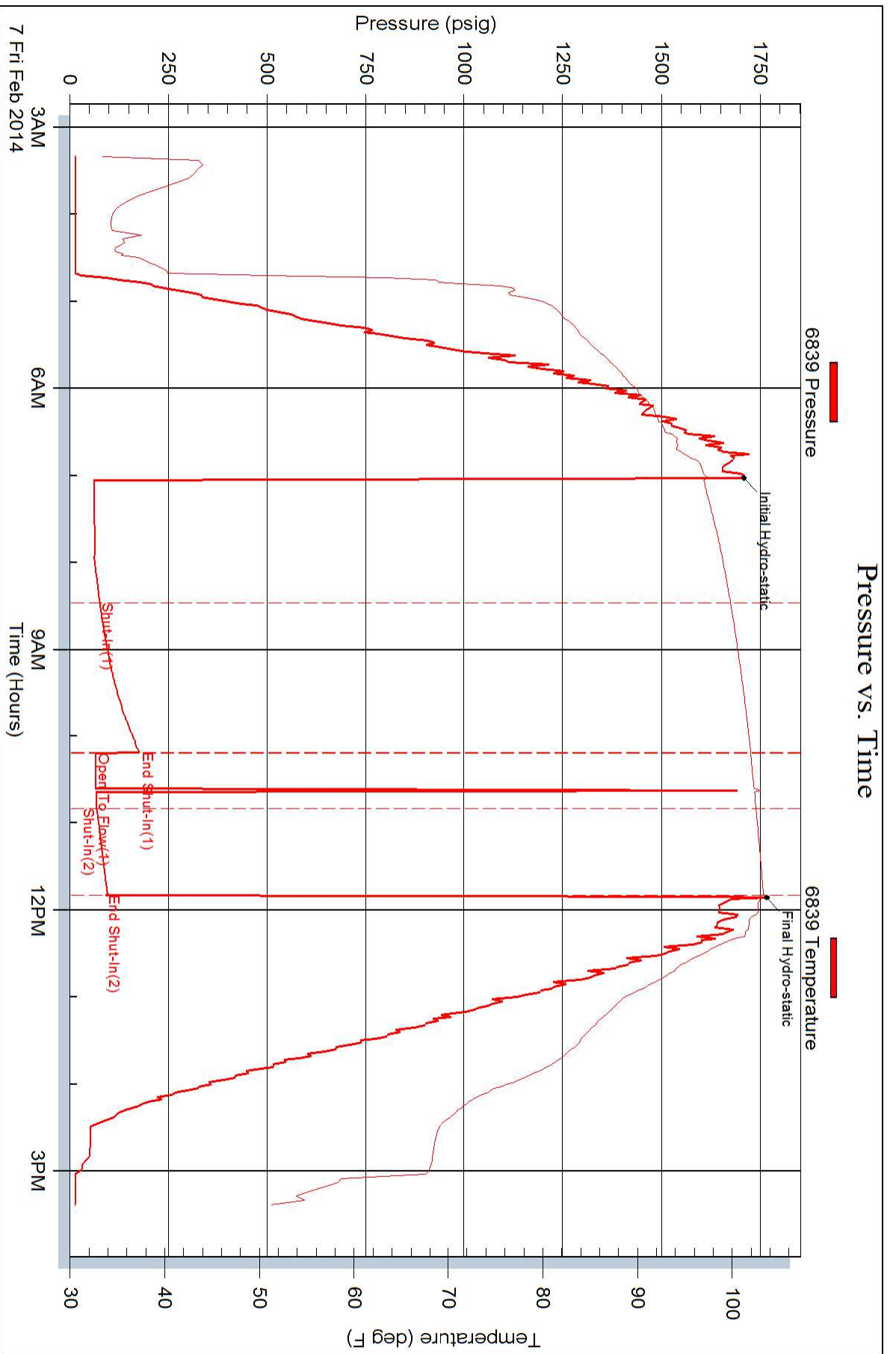
Total Length: 15.00 ft      Total Volume: 0.210 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

9431 East Central Suit 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

**Sonja Phillips 1-22**

**22-20s-14w-Barton**

Start Date: 2014.02.08 @ 04:20:00

End Date: 2014.02.08 @ 11:08:30

Job Ticket #: 19253                      DST #: 2

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

Printed: 2014.02.08 @ 12:24:08



# DRILL STEM TEST REPORT

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

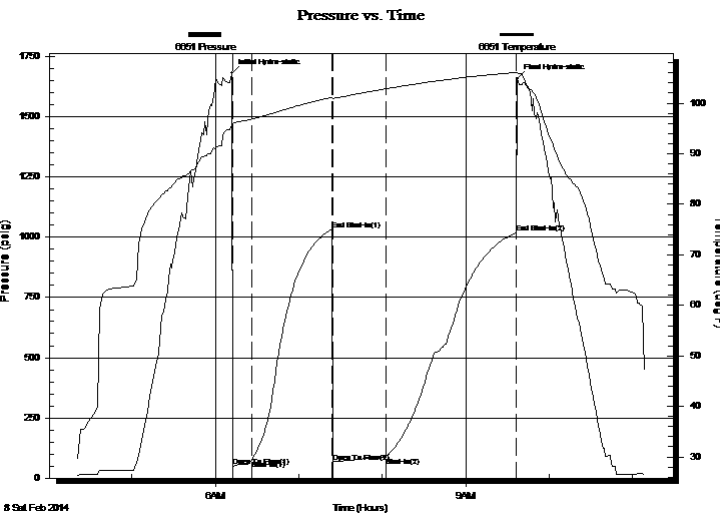
**22-20s-14w-Barton**  
**Sonja Phillips 1-22**  
 Job Ticket: 19253 **DST#: 2**  
 Test Start: 2014.02.08 @ 04:20:00

## GENERAL INFORMATION:

Formation: **Lansing E-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:12:30  
 Time Test Ended: 11:08:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-20  
 Interval: **3335.00 ft (KB) To 3355.00 ft (KB) (TVD)**  
 Reference Elevations: 1895.00 ft (KB)  
 Total Depth: 3355.00 ft (KB) (TVD) 1887.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6651 Outside**  
 Press@RunDepth: 87.58 psig @ 3350.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.08 End Date: 2014.02.08 Last Calib.: 2014.02.08  
 Start Time: 04:20:00 End Time: 11:08:30 Time On Btm: 2014.02.08 @ 06:12:00  
 Time Off Btm: 2014.02.08 @ 09:37:00

**TEST COMMENT:** 1st Open 10 minutes Good building blow blew off bottom bucket 7 minutes.  
 1st Shut in 60 minutes Yes blow back  
 2nd Open 45 minutes Strong building blow m built to the bottom of a 5 gallon bucket of water in 2 minutes  
 2nd Open 90 minutes Yes blow back, Bottom bucket.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.16	96.13	Initial Hydro-static
1	49.81	95.81	Open To Flow (1)
14	75.35	96.86	Shut-In(1)
72	1031.90	101.16	End Shut-In(1)
73	66.92	100.95	Open To Flow (2)
111	87.58	102.85	Shut-In(2)
205	1019.88	106.09	End Shut-In(2)
205	1657.86	106.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	Gassy oil cut mud	0.87
0.00	Oil 60% Gas 10% Mud 30%	0.00
62.00	Gassy oil cut mud	0.87
0.00	Oil 40% Gas 5% Mud 55%	0.00
0.00	540 Gas in pipe	0.00

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





# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19253

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 04:20:00

## GENERAL INFORMATION:

Formation: **Lansing E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:12:30

Time Test Ended: 11:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

**Interval: 3335.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3355.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6839 Inside**

Press@RunDepth: 1017.87 psig @ 3350.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.08

End Date: 2014.02.08

Last Calib.: 2014.02.08

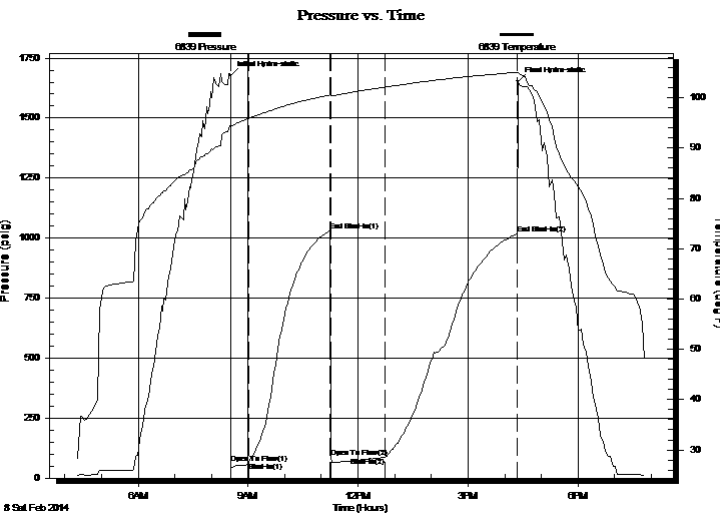
Start Time: 04:20:00

End Time: 19:49:00

Time On Btm: 2014.02.08 @ 08:31:00

Time Off Btm: 2014.02.08 @ 16:22:00

**TEST COMMENT:** 1st Open 10 minutes Good building blow blew off bottom bucket 7 minutes.  
1st Shut in 60 minutes Yes blow back  
2nd Open 45 minutes Strong building blow m built to the bottom of a 5 gallon bucket of water in 2 minutes  
2nd Open 90 minutes Yes blow back, Bottom bucket.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.78	94.48	Initial Hydro-static
1	63.21	93.53	Open To Flow (1)
30	65.12	95.92	Shut-In(1)
164	1030.74	100.58	End Shut-In(1)
165	84.74	100.38	Open To Flow (2)
253	84.96	102.14	Shut-In(2)
470	1017.87	105.06	End Shut-In(2)
471	1652.62	105.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	Gassy oil cut mud	0.87
0.00	Oil 60% Gas 10% Mud 30%	0.00
62.00	Gassy oil cut mud	0.87
0.00	Oil 40% Gas 5% Mud 55%	0.00
0.00	540 Gas in pipe	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19253

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 04:20:00

## Tool Information

Drill Pipe:	Length: 3336.00 ft	Diameter: 3.80 inches	Volume: 46.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 46.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3335.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3312.00	
Hydraulic tool	5.00			3317.00	
Jars	6.00			3323.00	
Safety Joint	2.00			3325.00	
Top Packer	5.00			3330.00	
Packer	5.00			3335.00	28.00 Bottom Of Top Packer
Perforations	15.00			3350.00	
Recorder	0.00	6839	Inside	3350.00	
Recorder	0.00	6651	Outside	3350.00	
Bull Plug	5.00			3355.00	20.00 Anchor Tool
<b>Total Tool Length:</b>	<b>48.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company LLC.

22-20s-14w-Barton

9431 East Central Suit 100  
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19253

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 04:20:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 44.00 sec/qt  
Water Loss: 12.80 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: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Gassy oil cut mud	0.870
0.00	Oil 60% Gas 10% Mud 30%	0.000
62.00	Gassy oil cut mud	0.870
0.00	Oil 40% Gas 5% Mud 55%	0.000
0.00	540 Gas in pipe	0.000

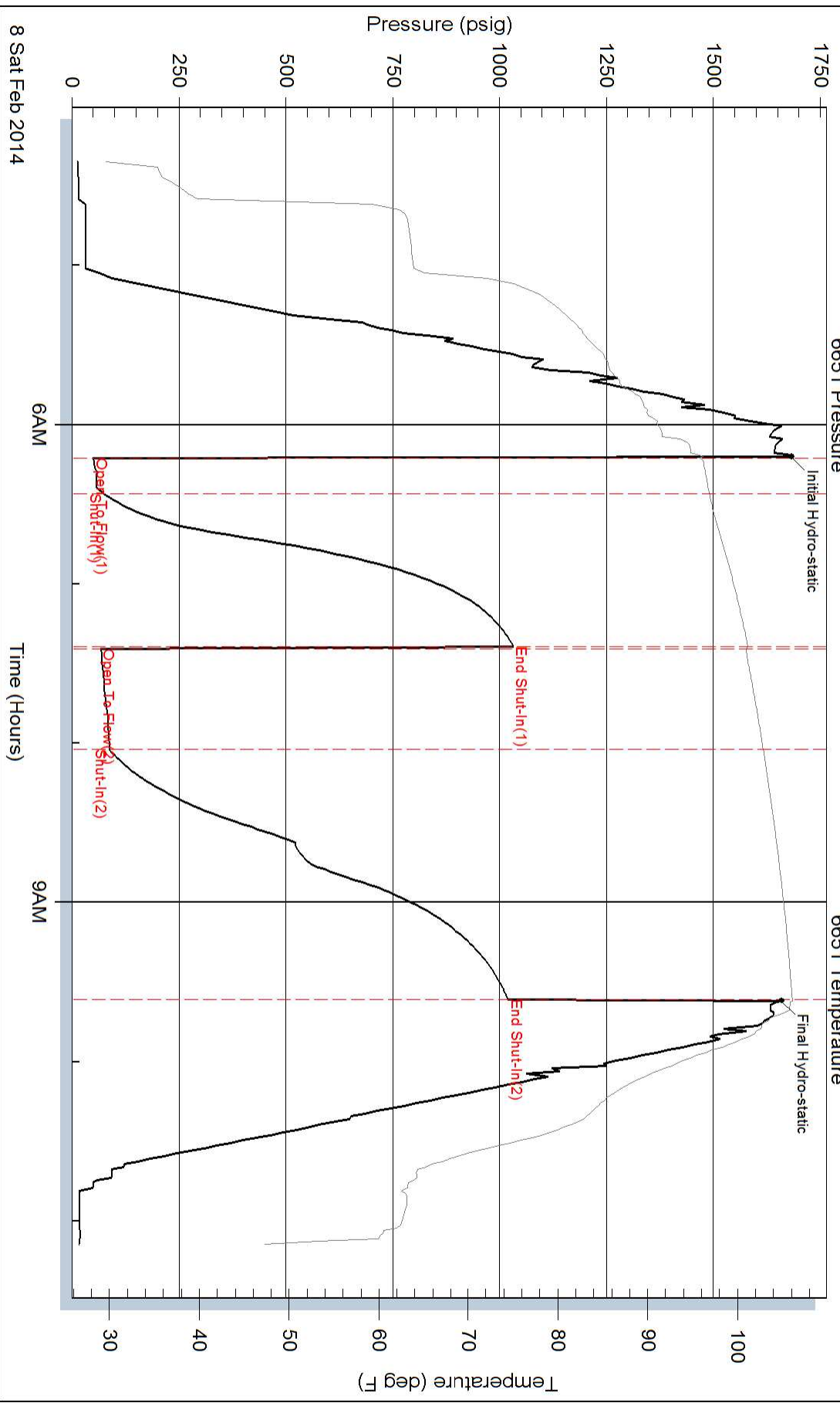
Total Length: 124.00 ft      Total Volume: 1.740 bbl

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

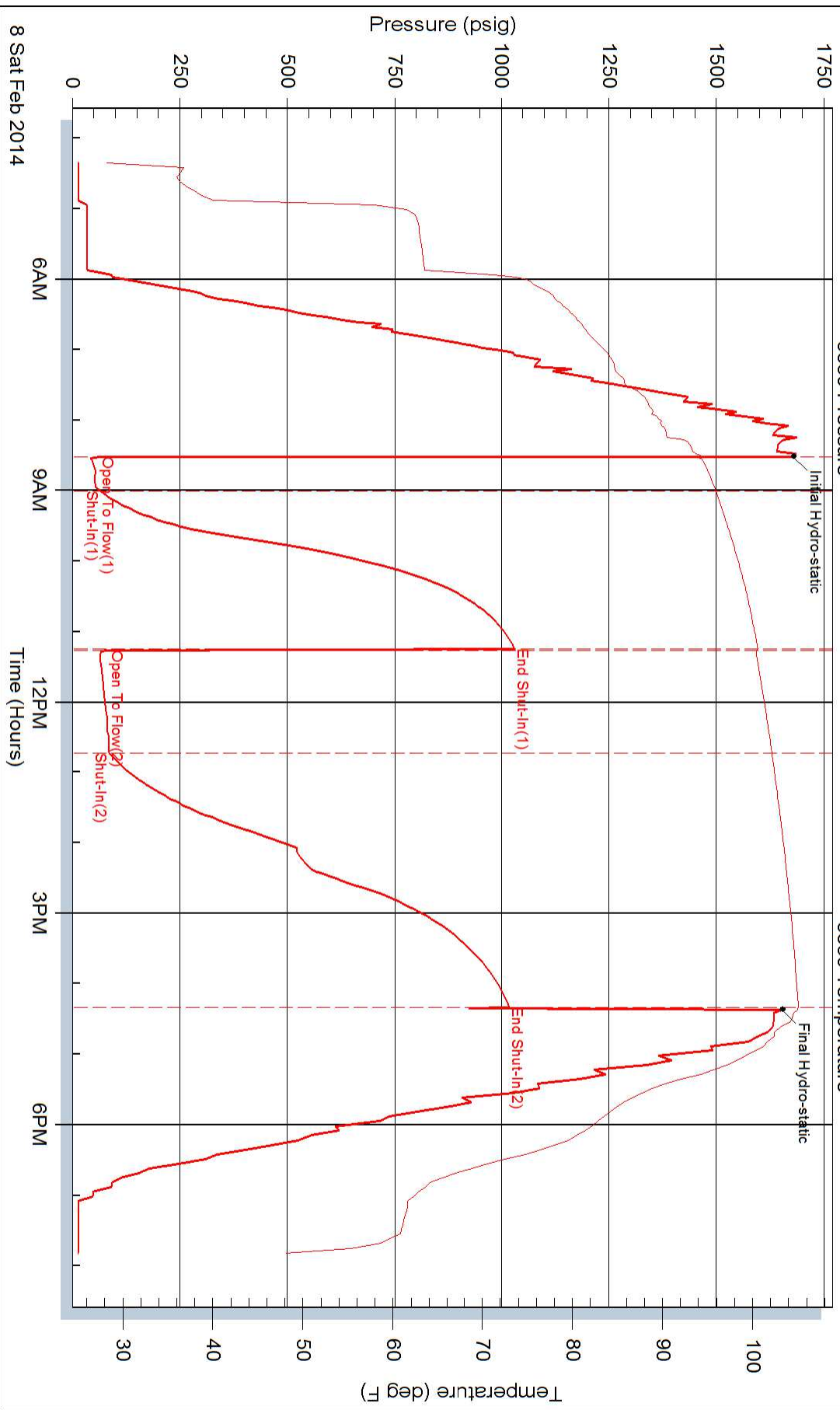
Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



# Pressure vs. Time





## DRILL STEM TEST REPORT

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

9431 East Central Suit 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

**Sonja Phillips 1-22**

**22-20s-14w-Barton**

Start Date: 2014.02.08 @ 09:48:00

End Date: 2014.02.08 @ 16:24:00

Job Ticket #: 19254                      DST #: 3

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

Printed: 2014.02.09 @ 05:40:35



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19254

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 09:48:00

## GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:30

Time Test Ended: 16:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

**Interval: 3392.00 ft (KB) To 3412.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3412.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651 Outside**

Press@RunDepth: 112.48 psig @ 3407.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.08

End Date: 2014.02.08

Last Calib.: 2014.02.09

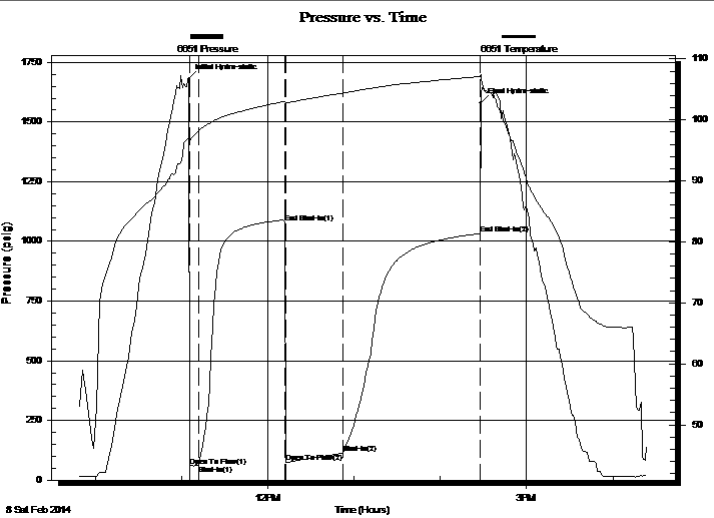
Start Time: 09:48:00

End Time: 16:24:00

Time On Btm: 2014.02.08 @ 11:05:00

Time Off Btm: 2014.02.08 @ 14:28:00

**TEST COMMENT:** 1st Open 5 minutes Strong blow blew off the bottom of a 5 gallon bucket of water in 2 minutes.  
1st Shut in 60 minutes No blow back  
2nd Open 45 minutes Strong building blow blew off bottom bucket in 45 seconds.  
2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

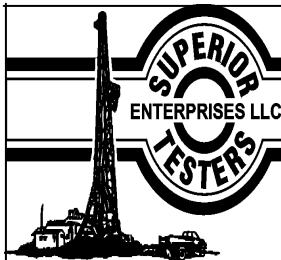
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.05	96.99	Initial Hydro-static
1	59.19	96.47	Open To Flow (1)
7	63.62	98.11	Shut-In(1)
67	1080.00	103.01	End Shut-In(1)
68	73.49	102.78	Open To Flow (2)
107	112.48	104.38	Shut-In(2)
203	1032.40	107.11	End Shut-In(2)
203	1580.07	107.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	Clean gassy oil 100%	1.19
163.00	Gassy oil cut mud	2.29
0.00	Oil 90% Mud 10%	0.00
0.00	Gravity of oil 41 corrected	0.00
0.00	244 gas in pipe.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

22-20s-14w-Barton

9431 East Central Suit 100  
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19254

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 09:48:00

## GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:30

Time Test Ended: 16:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

Interval: **3392.00 ft (KB) To 3412.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3412.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8931** **Inside**

Press@RunDepth: 1030.06 psig @ 3407.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.08

End Date:

2014.02.08

Last Calib.:

2014.02.09

Start Time: 09:48:00

End Time:

16:23:30

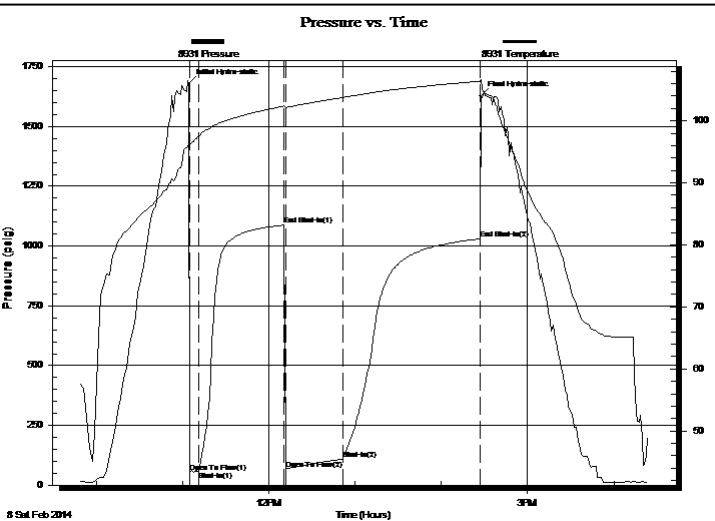
Time On Btm:

2014.02.08 @ 11:04:30

Time Off Btm:

2014.02.08 @ 14:27:30

**TEST COMMENT:** 1st Open 5 minutes Strong blow blew off the bottom of a 5 gallon bucket of water in 2 minutes.  
1st Shut in 60 minutes No blow back  
2nd Open 45 minutes Strong building blow blew off bottom bucket in 45 seconds.  
2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.05	96.28	Initial Hydro-static
1	53.49	95.97	Open To Flow (1)
7	59.47	97.52	Shut-In(1)
66	1087.12	102.36	End Shut-In(1)
68	67.72	102.17	Open To Flow (2)
107	109.23	103.75	Shut-In(2)
203	1030.06	106.39	End Shut-In(2)
203	1627.82	106.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	Clean gassy oil 100%	1.19
163.00	Gassy oil cut mud	2.29
0.00	Oil 90% Mud 10%	0.00
0.00	Gravity of oil 41 corrected	0.00
0.00	244 gas in pipe.	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19254

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 09:48:00

## Tool Information

Drill Pipe:	Length: 3373.00 ft	Diameter: 3.80 inches	Volume: 47.31 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: 47.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3392.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3369.00	
Hydraulic tool	5.00			3374.00	
Jars	6.00			3380.00	
Safety Joint	2.00			3382.00	
Top Packer	5.00			3387.00	
Packer	5.00			3392.00	28.00 Bottom Of Top Packer
Perforations	15.00			3407.00	
Recorder	0.00	8931	Inside	3407.00	
Recorder	0.00	6651	Outside	3407.00	
Bull Plug	5.00			3412.00	20.00 Anchor Tool
<b>Total Tool Length:</b>	<b>48.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19254

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2014.02.08 @ 09:48:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5200.00 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

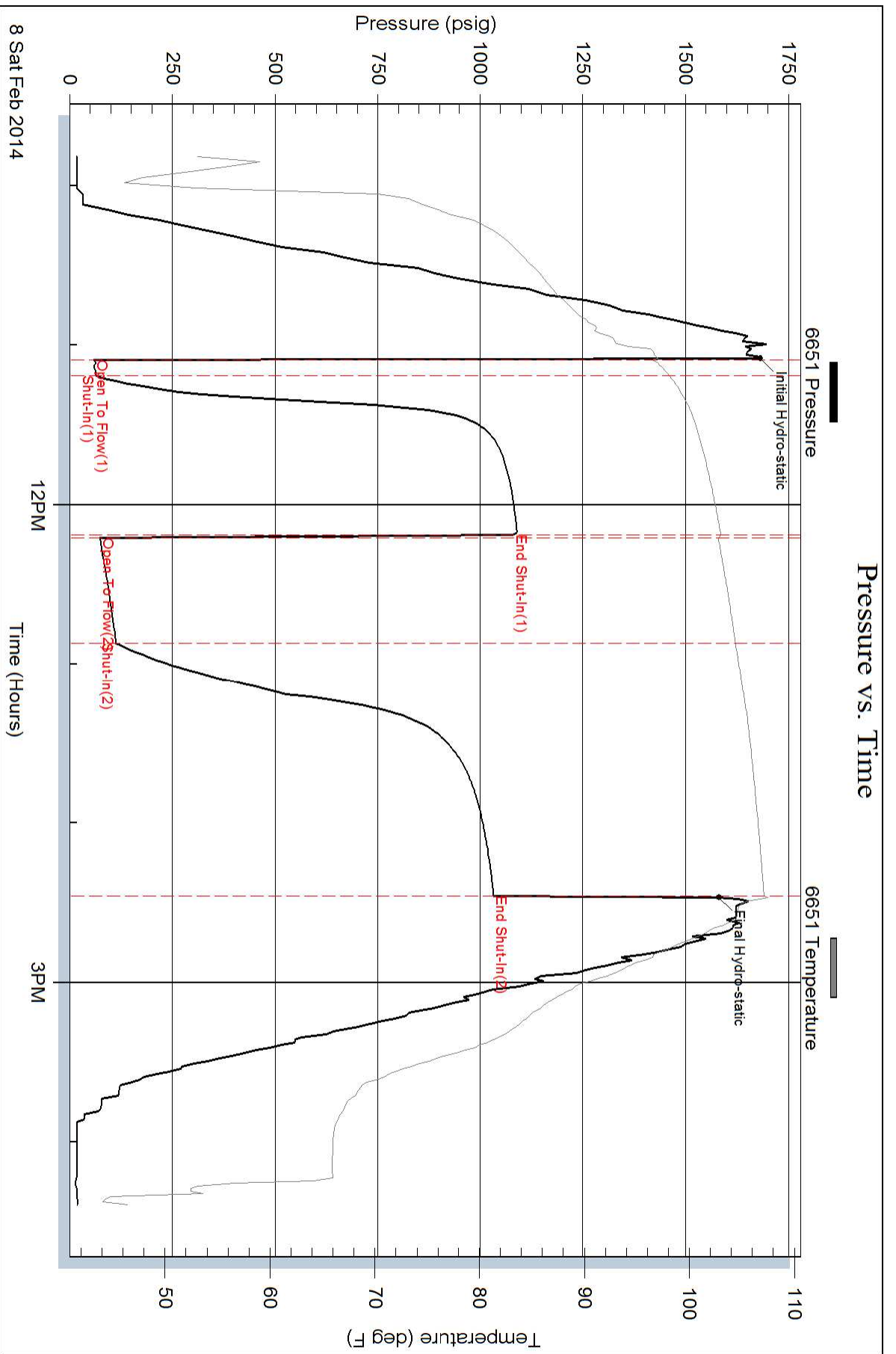
Length ft	Description	Volume bbl
85.00	Clean gassy oil 100%	1.192
163.00	Gassy oil cut mud	2.286
0.00	Oil 90% Mud 10%	0.000
0.00	Gravity of oil 41 corrected	0.000
0.00	244 gas in pipe.	0.000

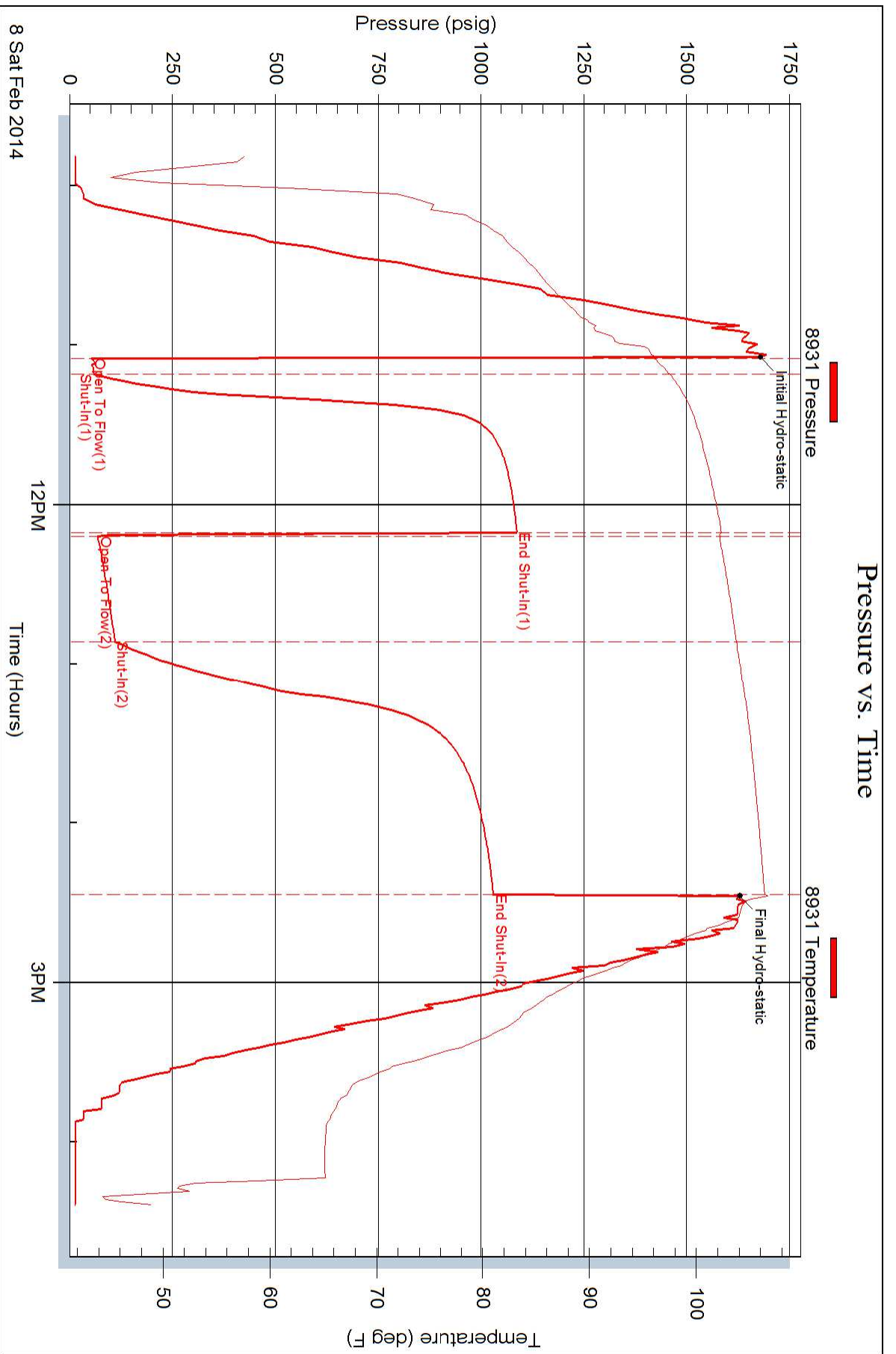
Total Length: 248.00 ft      Total Volume: 3.478 bbl

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 Suit 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

**Sonja Phillips 1-22**

**22-20s-14w-Barton**

Start Date: 2014.02.09 @ 11:06:00

End Date: 2014.02.09 @ 15:09:30

Job Ticket #: 19255                      DST #: 4

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

Printed: 2014.02.09 @ 16:21:21

F.G Holl Company LLC.

22-20s-14w-Barton

Sonja Phillips 1-22

DST # 4

Lansing KC-1

2014.02.09



# DRILL STEM TEST REPORT

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

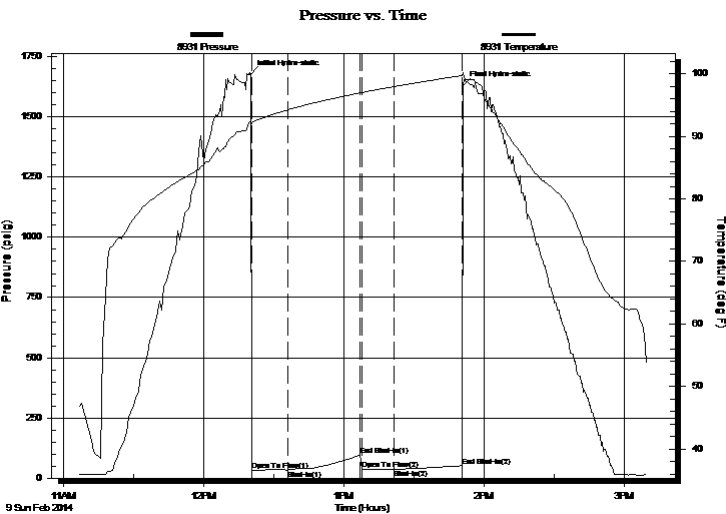
**22-20s-14w-Barton**  
**Sonja Phillips 1-22**  
 Job Ticket: 19255 **DST#: 4**  
 Test Start: 2014.02.09 @ 11:06:00

## GENERAL INFORMATION:

Formation: **Lansing KC-I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:20:30  
 Time Test Ended: 15:09:30  
 Interval: **3412.00 ft (KB) To 3426.00 ft (KB) (TVD)**  
 Total Depth: 3426.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-20  
 Reference Elevations: 1895.00 ft (KB)  
 1887.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8931 Inside**  
 Press@RunDepth: 35.22 psig @ 3421.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.09 End Date: 2014.02.09 Last Calib.: 2014.02.09  
 Start Time: 11:06:00 End Time: 15:09:30 Time On Btm: 2014.02.09 @ 12:20:00  
 Time Off Btm: 2014.02.09 @ 13:51:00

**TEST COMMENT:** 1st Open 15 minutes Weak surface blow through out open.  
 1st Shut in 30 minutes No blow back  
 2nd Open 15 minutes Weak surface blow through out .  
 2nd Shut in 30 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.20	92.38	Initial Hydro-static
1	33.06	92.05	Open To Flow (1)
16	34.03	94.24	Shut-In(1)
47	96.78	96.96	End Shut-In(1)
48	34.85	96.98	Open To Flow (2)
62	35.22	97.95	Shut-In(2)
91	51.15	99.69	End Shut-In(2)
91	1629.00	100.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Oil cut mud 10% Oil 90%Mud	0.03

## Gas Rates

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



# DRILL STEM TEST REPORT

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

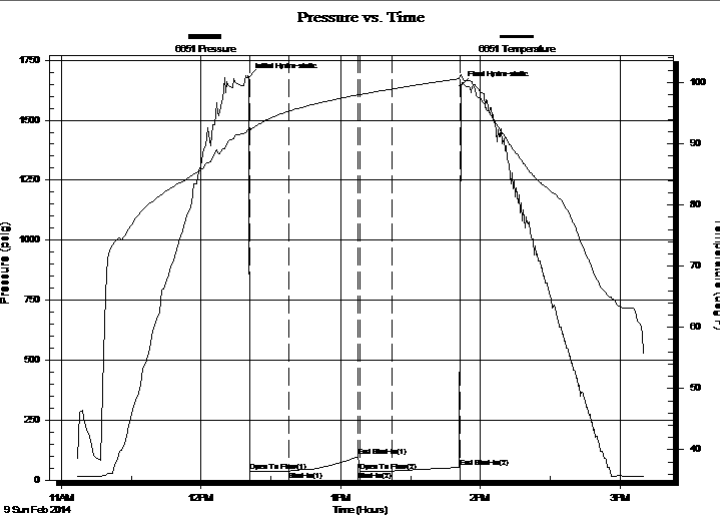
**22-20s-14w-Barton**  
**Sonja Phillips 1-22**  
 Job Ticket: 19255 **DST#: 4**  
 Test Start: 2014.02.09 @ 11:06:00

## GENERAL INFORMATION:

Formation: **Lansing KC-I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:20:30  
 Time Test Ended: 15:09:30  
 Interval: **3412.00 ft (KB) To 3426.00 ft (KB) (TVD)**  
 Total Depth: 3426.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-20  
 Reference Elevations: 1895.00 ft (KB)  
 1887.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6651 Outside**  
 Press@RunDepth: 53.63 psig @ 3421.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.09 End Date: 2014.02.09 Last Calib.: 2014.02.09  
 Start Time: 11:06:00 End Time: 15:10:30 Time On Btm: 2014.02.09 @ 12:20:30  
 Time Off Btm: 2014.02.09 @ 13:51:30

**TEST COMMENT:** 1st Open 15 minutes Weak surface blow through out open.  
 1st Shut in 30 minutes No blow back  
 2nd Open 15 minutes Weak surface blow through out .  
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.65	92.45	Initial Hydro-static
1	36.02	91.99	Open To Flow (1)
17	37.89	95.30	Shut-In(1)
47	98.64	97.99	End Shut-In(1)
48	38.00	98.01	Open To Flow (2)
62	37.90	98.94	Shut-In(2)
91	53.63	100.62	End Shut-In(2)
91	1643.20	101.33	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Oil cut mud 10% Oil 90%Mud	0.03

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19255

**DST#: 4**

ATTN: Ryan Greenbaum

Test Start: 2014.02.09 @ 11:06:00

## Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 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: 52000.00 lb
			<u>Total Volume: 47.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3412.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 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			3389.00	
Hydraulic tool	5.00			3394.00	
Jars	6.00			3400.00	
Safety Joint	2.00			3402.00	
Top Packer	5.00			3407.00	
Packer	5.00			3412.00	28.00 Bottom Of Top Packer
Perforations	9.00			3421.00	
Recorder	0.00	8931	Inside	3421.00	
Recorder	0.00	6651	Outside	3421.00	
Bull Plug	5.00			3426.00	14.00 Anchor Tool
<b>Total Tool Length:</b>	<b>42.00</b>				





# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company LLC.

22-20s-14w-Barton

9431 East Central Suit 100  
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19255

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.02.09 @ 11:06:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5100.00 ppm  
Filter Cake: 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
2.00	Oil cut mud 10% Oil 90%Mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

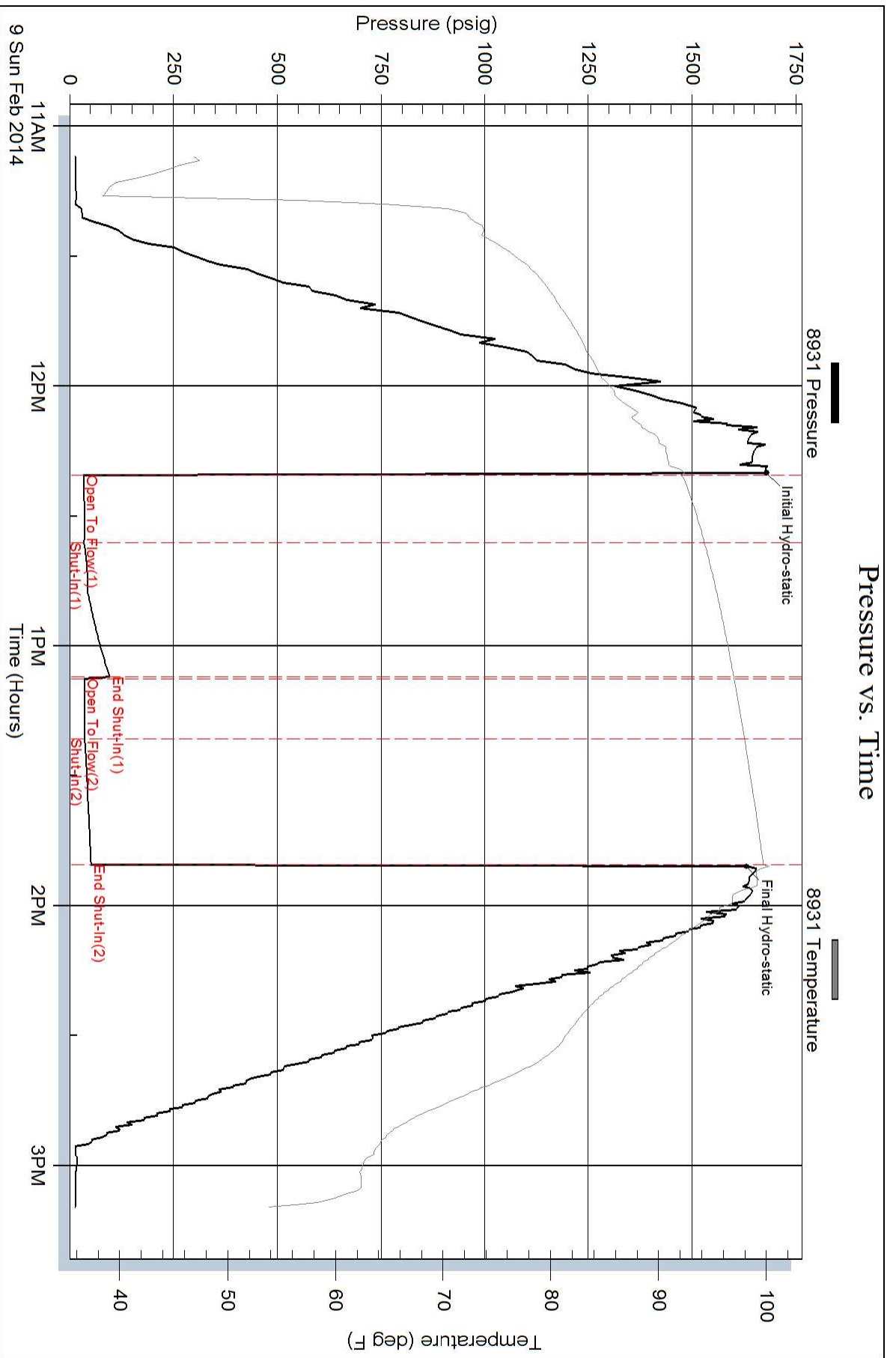
Serial #:

Laboratory Name:

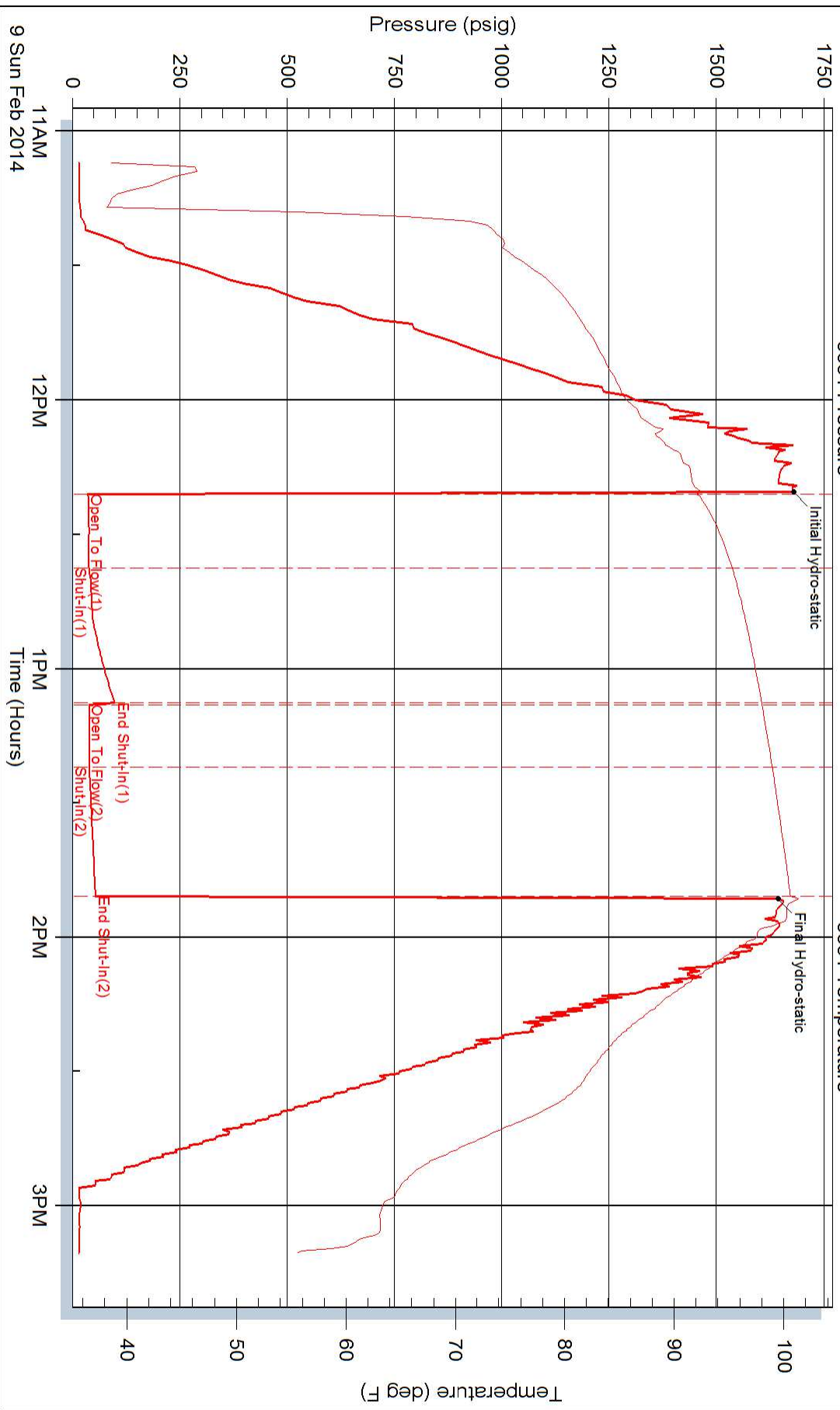
Laboratory Location:

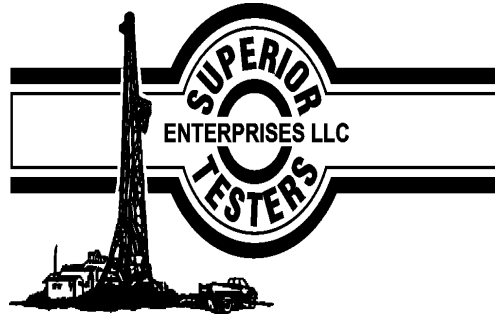
Recovery Comments:

# Pressure vs. Time



# Pressure vs. Time





## DRILL STEM TEST REPORT

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

9431 East Central Suit 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

**Sonja Phillips 1-22**

**22-20s-14w-Barton**

Start Date: 2014.02.09 @ 11:39:00

End Date: 2014.02.09 @ 18:46:00

Job Ticket #: 19256                      DST #: 5

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

Printed: 2014.02.10 @ 08:54:01



# DRILL STEM TEST REPORT

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

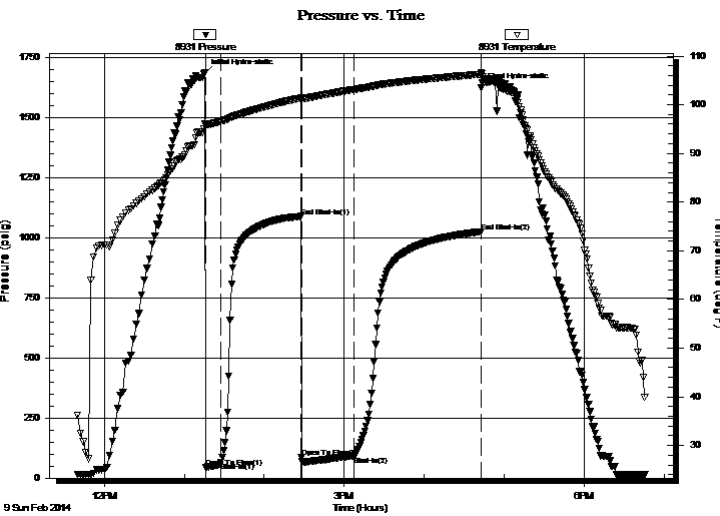
**22-20s-14w-Barton**  
**Sonja Phillips 1-22**  
 Job Ticket: 19256 **DST#: 5**  
 Test Start: 2014.02.09 @ 11:39:00

## GENERAL INFORMATION:

Formation: **Lansing J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:16:00  
 Time Test Ended: 18:46:00  
 Interval: **3426.00 ft (KB) To 3448.00 ft (KB) (TVD)**  
 Total Depth: 3448.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-20  
 Reference Elevations: 1895.00 ft (KB)  
 1887.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8931 Inside**  
 Press@RunDepth: 92.45 psig @ 3433.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.09 End Date: 2014.02.09 Last Calib.: 2014.02.10  
 Start Time: 11:40:00 End Time: 18:46:00 Time On Btm: 2014.02.09 @ 13:15:30  
 Time Off Btm: 2014.02.09 @ 16:43:00

**TEST COMMENT:** 1st Open 10 minutes Good building blow built to bottom bucket in 7 minutes.  
 1st Shut in 60 minutes No blow back.  
 2nd Open 45 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 7 minutes.  
 2nd Shut in 90 minutes No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.85	96.17	Initial Hydro-static
1	43.19	95.85	Open To Flow (1)
13	66.84	96.59	Shut-In(1)
72	1089.94	101.39	End Shut-In(1)
73	86.13	101.09	Open To Flow (2)
112	92.45	103.12	Shut-In(2)
207	1025.88	106.25	End Shut-In(2)
208	1623.85	106.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
81.00	Mud cut oil Oil 90% Mud 10%	1.14
111.00	Oil cut mud	1.56
0.00	Oil 30% Mud 60% Water 10%	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19256

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2014.02.09 @ 11:39:00

## GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:16:00

Time Test Ended: 18:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

**Interval: 3426.00 ft (KB) To 3448.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3448.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651 Outside**

Press@RunDepth: 1028.20 psig @ 3433.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.09

End Date:

2014.02.09

Last Calib.:

2014.02.10

Start Time: 11:40:00

End Time:

18:46:30

Time On Btm:

2014.02.09 @ 13:16:00

Time Off Btm:

2014.02.09 @ 16:44:00

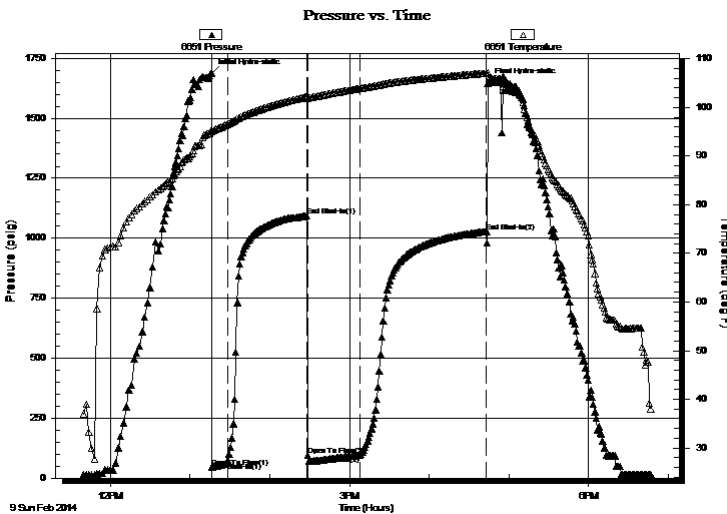
**TEST COMMENT:** 1st Open 10 minutes Good building blow built to bottom bucket in 7 minutes.

1st Shut in 60 minutes No blow back.

2nd Open 45 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 7 minutes.

2nd Shut in 90 minutes No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.83	95.32	Initial Hydro-static
1	46.45	95.04	Open To Flow (1)
12	67.65	96.53	Shut-In(1)
72	1092.37	102.20	End Shut-In(1)
73	94.63	101.83	Open To Flow (2)
112	94.85	103.88	Shut-In(2)
207	1028.20	107.03	End Shut-In(2)
208	1646.72	107.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
81.00	Mud cut oil Oil 90% Mud 10%	1.14
111.00	Oil cut mud	1.56
0.00	Oil 30% Mud 60% Water 10%	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19256

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2014.02.09 @ 11:39:00

## Tool Information

Drill Pipe:	Length: 3427.00 ft	Diameter: 3.80 inches	Volume: 48.07 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: 59000.00 lb
			<u>Total Volume: 48.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3426.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			3403.00	
Hydraulic tool	5.00			3408.00	
Jars	6.00			3414.00	
Safety Joint	2.00			3416.00	
Top Packer	5.00			3421.00	
Packer	5.00			3426.00	28.00 Bottom Of Top Packer
Perforations	7.00			3433.00	
Recorder	0.00	8931	Inside	3433.00	
Recorder	0.00	6651	Outside	3433.00	
Bull Plug	5.00			3438.00	12.00 Anchor Tool
<b>Total Tool Length:</b>	<b>40.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19256

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2014.02.09 @ 11:39:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 7.98 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5100.00 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
81.00	Mud cut oil Oil 90% Mud 10%	1.136
111.00	Oil cut mud	1.557
0.00	Oil 30% Mud 60% Water 10%	0.000

Total Length: 192.00 ft      Total Volume: 2.693 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



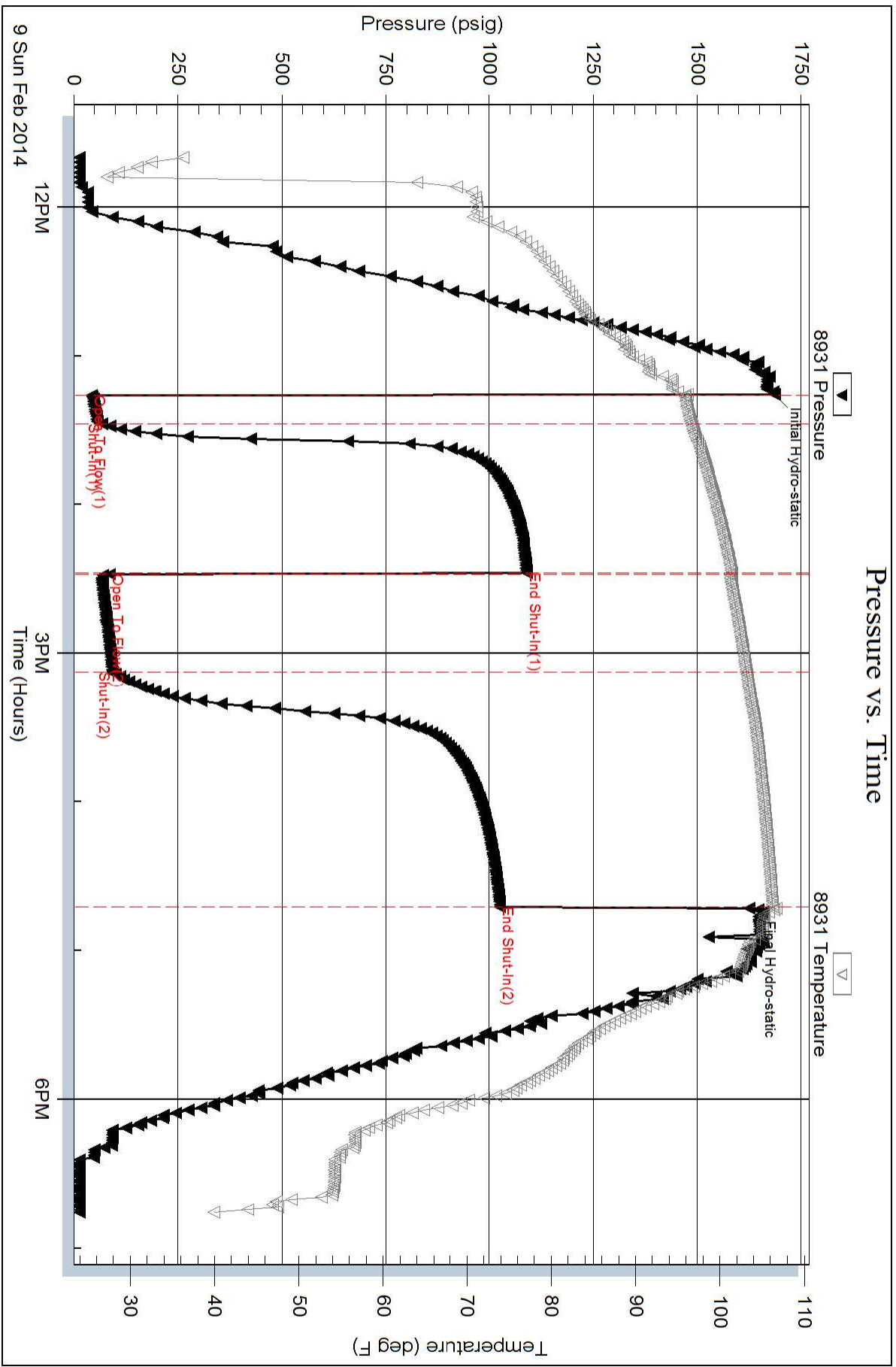
Serial #: 8931

Inside

F.G Holl Company LLC.

Sonia Phillips 1-22

DST Test Number: 5

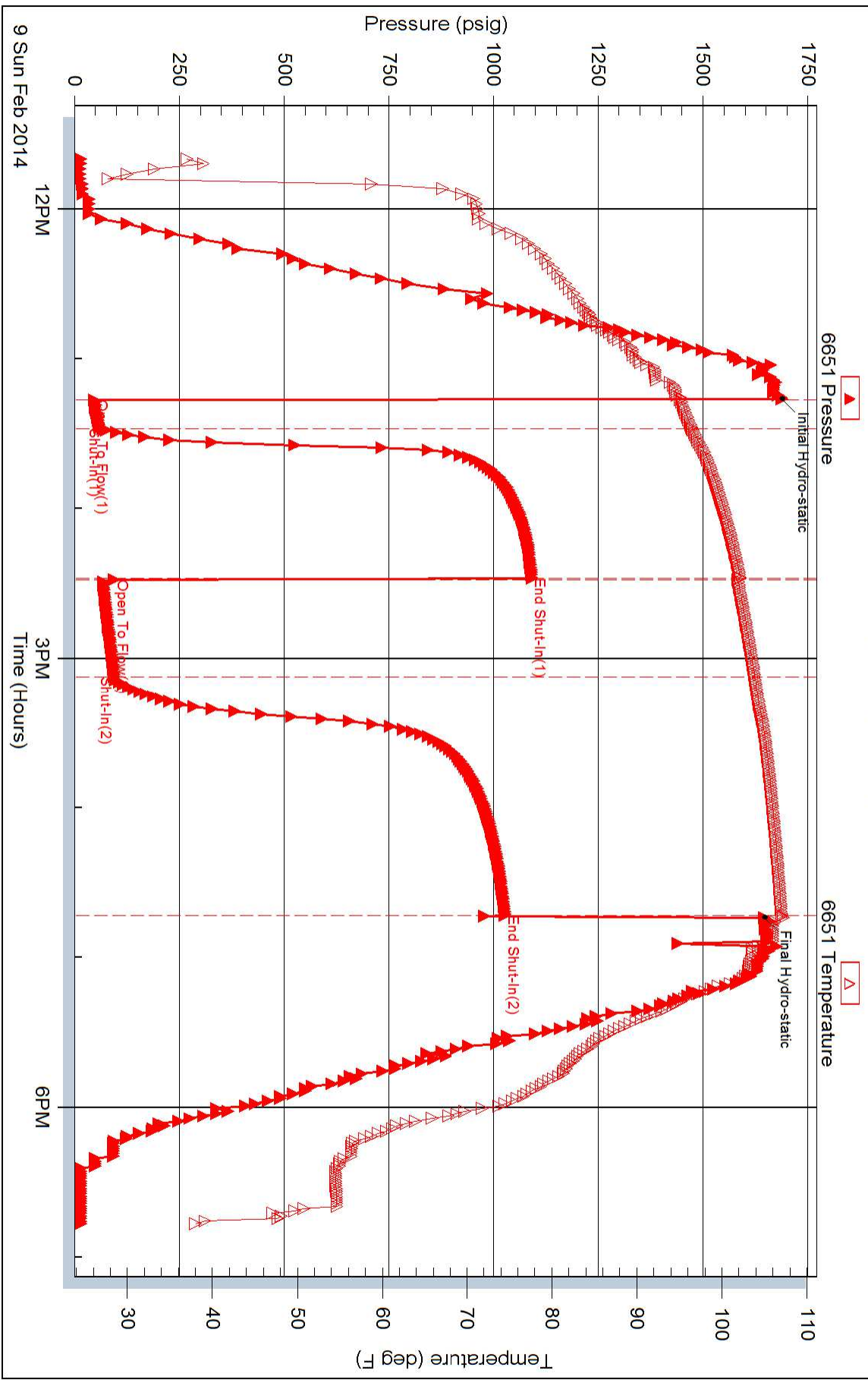


Superior Testers Enterprises LLC

Ref. No: 19256

Printed: 2014.02.10 @ 08:54:02

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

9431 East Central Suit 100  
Wichita Kansas 67206

ATTN: Ryan Greenbaum

**Sonja Phillips 1-22**

**22-20s-14w-Barton**

Start Date: 2014.02.11 @ 12:36:00

End Date: 2014.02.11 @ 19:48:00

Job Ticket #: 19257                      DST #: 6

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

Printed: 2014.02.11 @ 08:51:54



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19257

**DST#: 6**

ATTN: Ryan Greenbaum

Test Start: 2014.02.11 @ 12:36:00

## GENERAL INFORMATION:

Formation: **Lansing K-L&Conglome**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:30

Time Test Ended: 19:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

**Interval: 3450.00 ft (KB) To 385.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 102.61 psig @ 3580.77 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.11

End Date:

2014.02.11

Last Calib.:

2014.02.11

Start Time: 12:36:00

End Time:

19:48:00

Time On Btm:

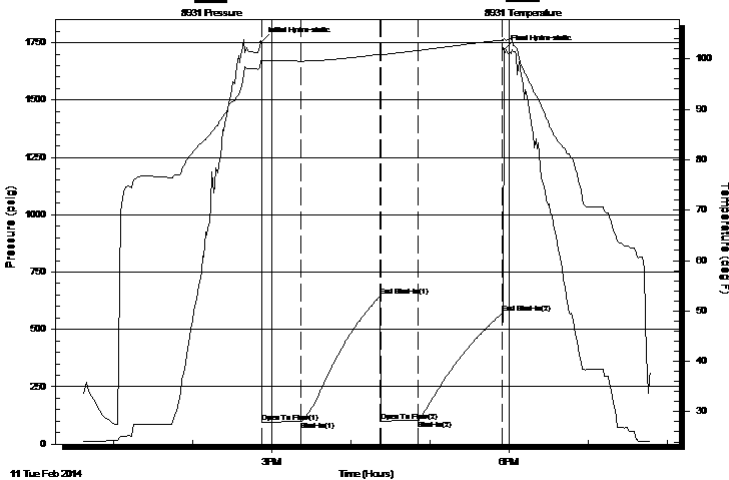
2014.02.11 @ 14:52:00

Time Off Btm:

2014.02.11 @ 17:56:00

**TEST COMMENT:** 1st Open 30 minutes Weak blow buit to 2 inches into a 5 gallon bucket of water.  
1st Shut int 60 minutes No blow back  
2nd Open 30 minutes Dead Flushed tool, weak surface blow through out.  
2nd Shut in 60 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.14	99.82	Initial Hydro-static
1	94.65	99.42	Open To Flow (1)
30	97.63	99.56	Shut-In(1)
90	644.86	100.93	End Shut-In(1)
91	98.34	100.72	Open To Flow (2)
119	102.61	101.68	Shut-In(2)
183	570.29	103.76	End Shut-In(2)
184	1721.33	104.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	very lightly oil spotted mud 100% Mud	0.42

Gas Rates

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



# DRILL STEM TEST REPORT

F.G Holl Company LLC.

**22-20s-14w-Barton**

9431 East Central Suit 100  
Wichita Kansas 67206

**Sonja Phillips 1-22**

Job Ticket: 19257

**DST#: 6**

ATTN: Ryan Greenbaum

Test Start: 2014.02.11 @ 12:36:00

## GENERAL INFORMATION:

Formation: **Lansing K-L&Conglome**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:30

Time Test Ended: 19:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

**Interval: 3450.00 ft (KB) To 385.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651 Outside**

Press@RunDepth: 573.74 psig @ 3580.77 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.11

End Date:

2014.02.11

Last Calib.:

1899.12.30

Start Time:

12:36:00

End Time:

19:48:00

Time On Btm:

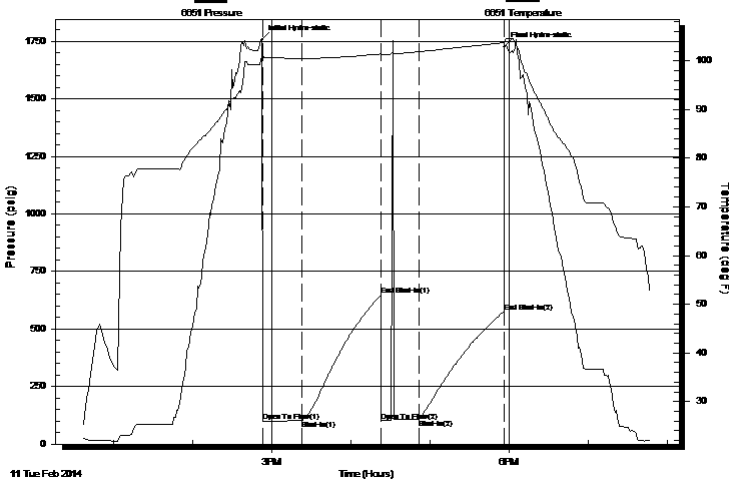
2014.02.11 @ 14:52:30

Time Off Btm:

2014.02.11 @ 17:56:30

**TEST COMMENT:** 1st Open 30 minutes Weak blow buit to 2 inches into a 5 gallon bucket of w ater.  
1st Shut int 60 minutes No blow back  
2nd Open 30 minutes Dead Flushed tool, weak surface blow through out.  
2nd Shut in 60 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.61	101.11	Initial Hydro-static
1	99.27	100.30	Open To Flow (1)
31	101.93	100.48	Shut-In(1)
90	646.94	101.39	End Shut-In(1)
91	101.32	101.00	Open To Flow (2)
119	107.00	101.87	Shut-In(2)
184	573.74	103.70	End Shut-In(2)
184	1725.76	104.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	very lightly oil spotted mud 100% Mud	0.42

Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

22-20s-14w-Barton

9431 East Central Suit 100  
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19257

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.02.11 @ 12:36:00

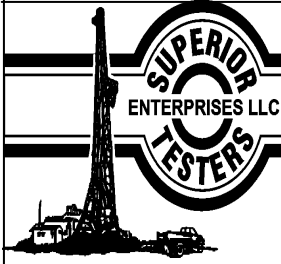
## Tool Information

Drill Pipe:	Length: 3429.00 ft	Diameter: 3.80 inches	Volume: 48.10 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3450.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	135.77 ft			
Tool Length:	163.77 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			3427.00	
Hydraulic tool	5.00			3432.00	
Jars	6.00			3438.00	
Safety Joint	2.00			3440.00	
Top Packer	5.00			3445.00	
Packer	5.00			3450.00	28.00 Bottom Of Top Packer
Anchor	7.00			3457.00	
Change Over Sub	0.00			3457.00	
Drill Pipe	96.77			3553.77	
Change Over Sub	0.00			3553.77	
Anchor	27.00			3580.77	
Recorder	0.00	8931	Inside	3580.77	
Recorder	0.00	6651	Outside	3580.77	
Bull Plug	5.00			3585.77	135.77 Anchor Tool

**Total Tool Length: 163.77**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company LLC.

22-20s-14w-Barton

9431 East Central Suit 100  
Wichita Kansas 67206

Sonja Phillips 1-22

Job Ticket: 19257

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.02.11 @ 12:36:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 40.00 sec/qt  
Water Loss: 9.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6500.00 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	very lightly oil spotted mud 100% Mud	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

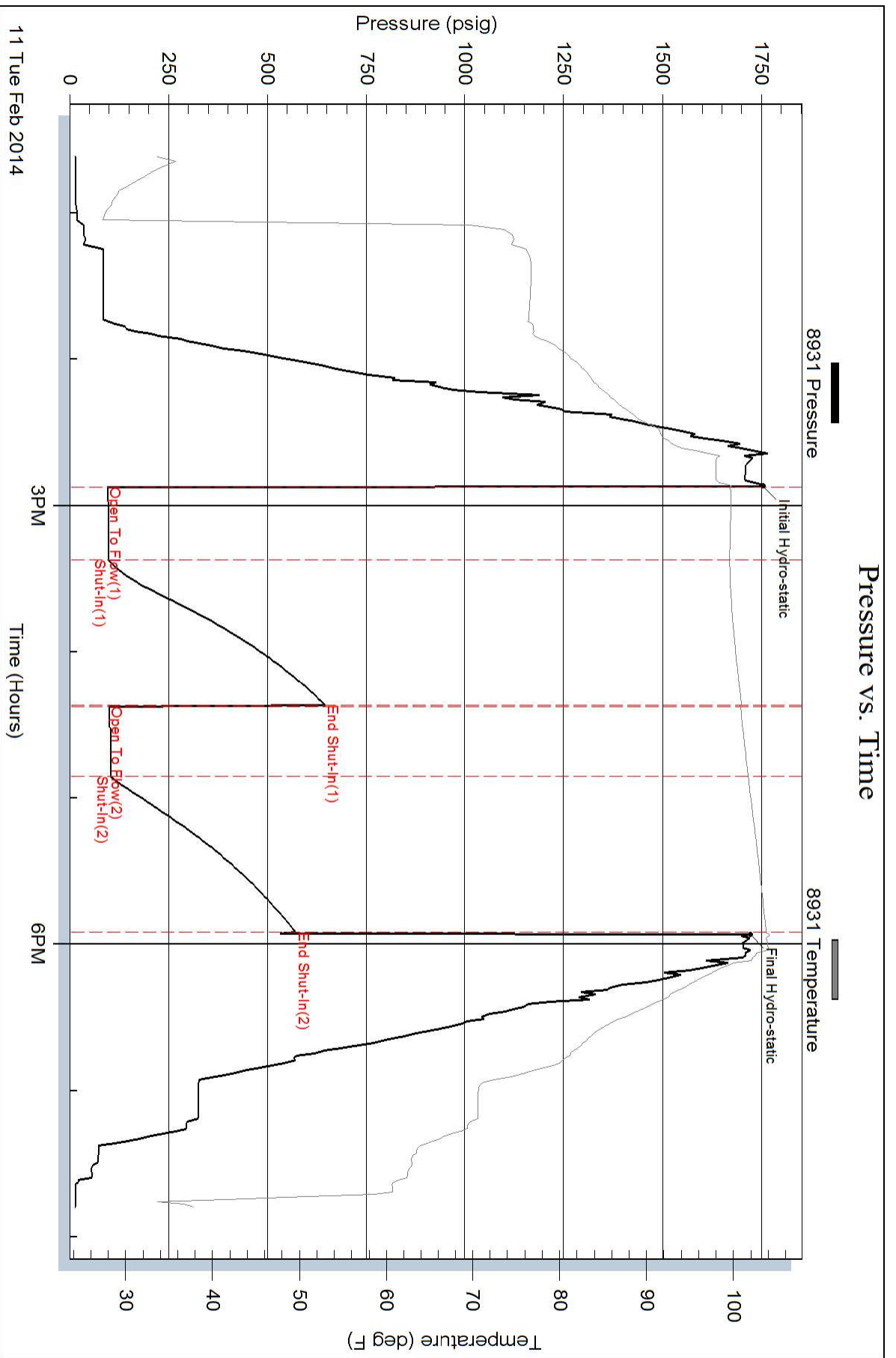
Serial #:

Laboratory Name:

Laboratory Location:

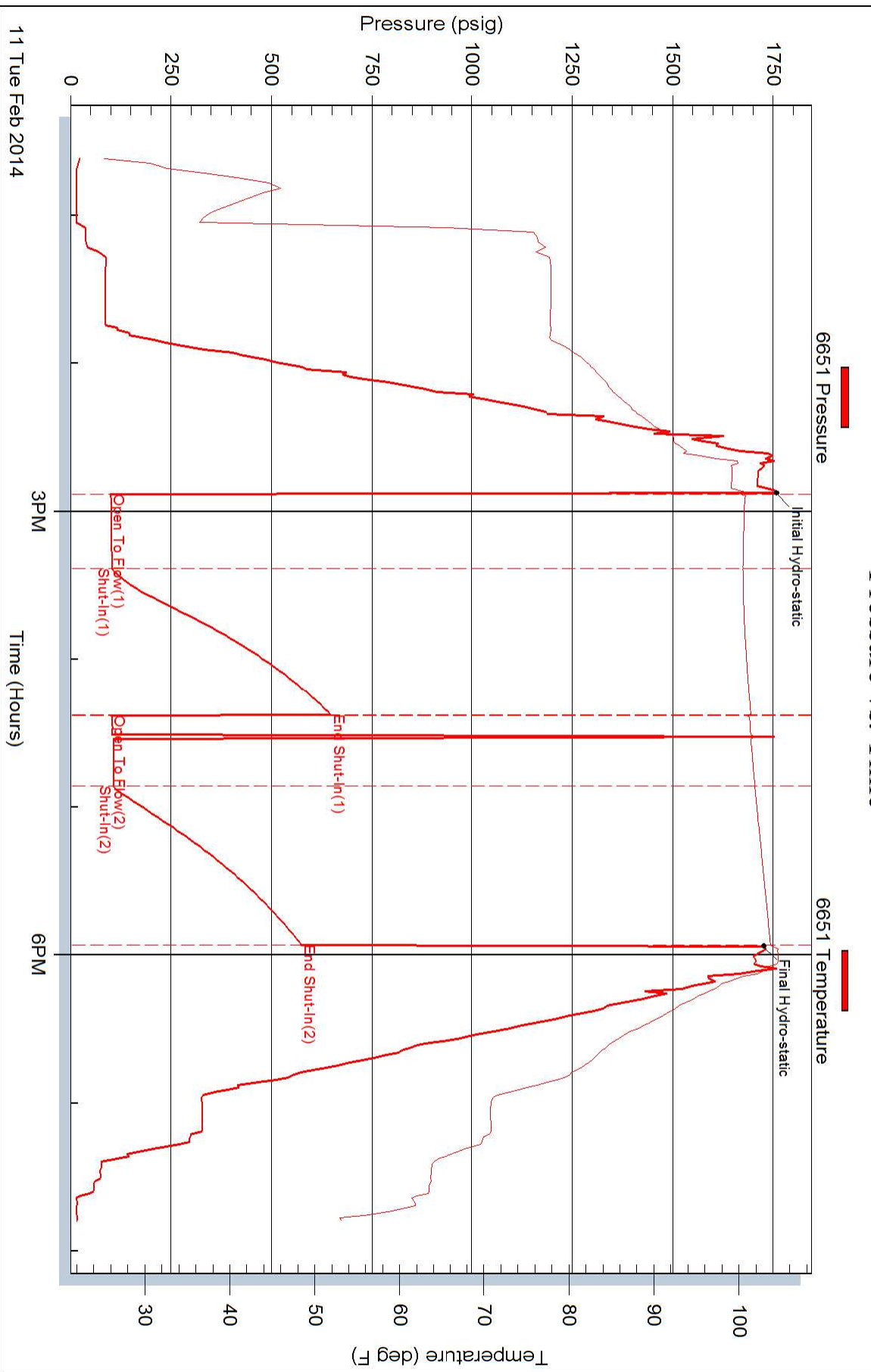
Recovery Comments:

### Pressure vs. Time





# Pressure vs. Time





**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 09797 A

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

DATE OF JOB: 12-12-14	DISTRICT: P-17 K	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: P & Hill	LEASE: SUNSEA PHILLIPS TRACT 1	WELL NO.:								
ADDRESS:	COUNTY: GARDNER	STATE: KS								
CITY:	STATE:	SERVICE CREW: Sullivan, George, Phyllis								
AUTHORIZED BY:	JOB TYPE: new 4" log string									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
3708-2090	45									
708107-57	45									
3700										
						ARRIVED AT JOB				
						START OPERATION				6:00
						FINISH OPERATION				6:45
						RELEASED				7:30
						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
P 105	AA-1 cut	SK	175		
P 103	60/40 cut	L	75		
P 102	21/80	lb	44		
P 105	21/80	lb	42		
P 111	SALT	lb	786		
P 115	C-44	lb	165		
P 129	Third loss	lb	165		
P 201	Subsides	lb	312		
P 606	Latex based Heavy-Base 4"	SA	1		
P 1250	White All-Flow 4"	SA	1		
P 1030	21/80	SA	10		
P 1200	EMK-1	SA	1		
P 5012	Latex Sealant	SA	50		
P 154	Super Flow	1A1	500		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE: Robert J. Hill

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

DATE OF JOB <u>02-12-14</u> 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 <u>F.G. Hall</u>	LEASE <u>Sonza Phillips Tent 1-22</u> WELL NO.								
ADDRESS	COUNTY <u>Barton</u>	STATE <u>KS</u>							
CITY STATE	SERVICE CREW <u>William Grace, Phys</u>								
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: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Subp in	mi	50		
E 101	Heavy Seat	no	100		
E 113	Balk Debris	TM	575		
PE 204	Depth Charge 3000-4000'	SA	1		
PE 240	Blender m/c	SK	250		
PE 301	PASID Swirl Pistol	SA	1		
CE 304	Slur Blower Unit	SA	1		
S 003	Form Superline	SA	1		

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>KG</u>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

*THANK YOU*

SERVICE REPRESENTATIVE Robert Sullivan 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. HOLL Lease No. \_\_\_\_\_ Date: \_\_\_\_\_  
 Lease: SONJA Phillips Well #: 1-22  
 Field Order #: 9797 Station: PRATT KS Casing: 4 1/2 Depth: 3746 County: BARTON State: KS  
 Type Job: (New) 4 1/2 completion Formation: \_\_\_\_\_ Legal Description: 22-20-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<u>4 1/2</u>								
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
<u>3746</u>								
Volume	Volume	From	To	Pad	Min		10 Min.	
<u>37.5</u>								
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
<u>1500</u>								
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
<u>P.C.</u>								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
<u>4714</u>								

Customer Representative: \_\_\_\_\_ Station Manager: DAVE Scott Treater: Robert Johnson

Service Units	<u>37900</u>	<u>33708</u>	<u>20920</u>	<u>70290</u>	<u>19918</u>				
Driver Names	<u>Sullivan</u>	<u>GRAMS</u>	<u>Phyllis</u>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>12:45</u>					<u>on loc</u>
					<u>Trucks on loc safety meeting</u>
					<u>Ran 4 1/2 11.6 # esp.</u>
<u>3:50</u>					<u>CASING on Bottom</u>
<u>4:00</u>					<u>Hook by circ esp.</u>
<u>6:00</u>			<u>5</u>	<u>2</u>	<u>14 SPACER</u>
			<u>12</u>		<u>14 Super Flush</u>
			<u>5</u>		<u>SPACER</u>
			<u>8</u>	<u>4.5</u>	<u>MIX 25 sk Scavenger cont</u>
			<u>48</u>		<u>MIX 175 sk AA-2 cont</u>
					<u>cont mix A shut down wash pump. Line</u>
					<u>Release Plug</u>
				<u>6</u>	<u>14 Drop</u>
	<u>250</u>				<u>1st PSI</u>
	<u>500</u>			<u>4</u>	<u>Spur Rate</u>
<u>6:40</u>	<u>1500</u>		<u>57 1/2</u>		<u>Plug down</u>
			<u>7</u>		<u>plug RH w/30 sk</u>
			<u>9</u>		<u>plug on H w/20 sk</u>
					<u>SOB complete</u>



**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 09792 A

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

DATE OF JOB: 2-2-14		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.O. Hill				LEASE: SINJA P. 115 Tract 1-22				WELL NO.:							
ADDRESS:				COUNTY: Pratt				STATE: KS							
CITY:				STATE:				SERVICE CREW: [unclear]							
AUTHORIZED BY:				JOB TYPE: [unclear]											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
8320X-20921	50						2-2-14								
70929-19918	21														
37900															
						ARRIVED AT JOB									
						START OPERATION				4:00					
						FINISH OPERATION				5:00					
						RELEASED				6:00					
						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
CP 101	H coil coat	sk	200		
CP 100-C	Coverage coat	sk	200		
CC 102	collar	lb	100		
CC 107	collar	lb	940		
CP 105	Top Rubber Plug 8 7/8	SA	1		
CP 1753	Coat	SA	3		
S 100	rod	mi	50		
E 101	Wire	mi	100		
E 113	Ball	mi	940		
PE 201	Orbit (bit) 500-1000	SA	1		
PE 240	Plumb	sk	400		
PE 504	Plumb	SA	1		
5003	Sch	SA	1		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: [Signature]	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
FIELD SERVICE ORDER NO.:	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <b>F. G. HOLL</b>	Lease No.	Date
Lease <b>Sonsa-Phillips Tract</b>	Well # <b>1-22</b>	
Field Order #	Station <b>PP1 T KC</b>	Casing <b>8 5/8</b>
Type Job <b>cnw 8 5/8 surface</b>	Depth <b>430'</b>	County <b>Carton</b>
	Formation	State <b>KS</b>
		Legal Description <b>22-20-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8</b>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <b>430'</b>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <b>51</b>	Volume	From	To	Pad	Min			10 Min.
Max Press <b>450</b>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <b>P.C</b>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <b>810'</b>	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <b>Robert J. Hill</b>	Treater <b>Robert J. Hill</b>
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Service Units	<b>37900</b>	<b>23708</b>	<b>29720</b>	<b>70959</b>	<b>19918</b>				
Driver Names	<b>Sullivan</b>	<b>Graves</b>	<b>Phye</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>1:40</b>					<b>on the safety meeting</b>
					<b>run 8 5/8 csg.</b>
<b>3:50</b>					<b>Casing on Bottom</b>
<b>4:00</b>					<b>Hook by circ csg.</b>
<b>4:09</b>			<b>3</b>	<b>3.5</b>	<b>At spacer</b>
			<b>87</b>	<b>4.5</b>	<b>mix 200 sk A-cm cut 20% cc 1/4 CF</b>
			<b>42</b>		<b>mix 200 sk cement w/ 2% cc 1/4 CF</b>
					<b>cut mixed shut down</b>
					<b>Release Plug</b>
				<b>4</b>	<b>1st Disp</b>
<b>5:00</b>	<b>300</b>		<b>51</b>		<b>Plug down</b>
					<b>3BB cut not good circ.</b>
					<b>Job complete</b>
					<b>Thank you</b>