



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1133161  
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: \_\_\_\_\_



1133161

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SCHMITT FAMILY TRUST 1-15
Doc ID	1133161

All Electric Logs Run

Sector bond
CPI
BHCS
Microresistivity
Fracfinder

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SCHMITT FAMILY TRUST 1-15
Doc ID	1133161

Tops

Name	Top	Datum
Anhydrite	964	+1028
Herrington	1909	+83
Winfield	1959	+33
Towanda	2022	-30
Fort Riley	2063	-71
B/Florence	2159	-167
Kinney ls	2173	-181
Wrefold	2207	-215
Council Grove	2226	-234
Crouse	2265	-234
Neva	2400	-408
Red Eagle	2460	-468
Wabaunsee	2642	-650
Root Shale	2708	-716
Stotler	2767	-775
Tarkio	2826	-834
Howard	2968	-976
Topeka	3044	-1052
Heebner	3300	-1308
Toronto	3316	-1324
Douglas Shale	3333	-1341
Brown Lime	3393	-1401
LKC	3402	-1410
Drum	3520	-1528

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	SCHMITT FAMILY TRUST 1-15
Doc ID	1133161

Tops

Name	Top	Datum
BKC	3636	-1644
Conglomerate	3650	-1658
Arbuckle	3704	-1712
RTD	3900	-1908





**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 07650 A

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

DATE OF JOB <u>1-25-2013</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>FG HOLL CO., INC.</u>		LEASE <u>SCHMITT FAMILY TRUST</u>		WELL NO. <u>1-15</u>					
ADDRESS _____		COUNTY <u>BARTON</u>		STATE <u>Ks.</u>					
CITY _____ STATE _____		SERVICE CREW <u>LESLEY, MARQUEZ, PAGE</u>							
AUTHORIZED BY _____		JOB TYPE: <u>CNW-8.5" S.P.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>375P16</u>	<u>5.5</u>						<u>1-25-13</u>		<u>8:00</u>
<u>19903-19905</u>	<u>5.5</u>								<u>11:00</u>
<u>70959-19918</u>	<u>5.5</u>								<u>11:15</u>
									<u>3:30</u>
									<u>4:30</u>
						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
CP 101	A-CON BLEND	SK	200		
CP 100C	COMMON CMT.	SK	175		
CC 102	CELL FLAKE	lb	94		
CC 109	CALCIUM CHLORIDE	lb	894		
CF 105	TOP RUBBER CMT. PLUG, 8.5" "	EA	1		
CF 1753	CENTRALIZER, 8.5" "	EA	3		
E 100	PICKUP MILEAGE	MI	60		
E 101	HEAVY EQUIPMENT MILEAGE	MI	120		
E 113	BULK DELIVERY	TM	1059		
CE 201	DEPTH CHARGE, 50'-1000'	AR	1-4		
CE 240	BLENDING SERVICE	SK	375		
CE 504	PLUG CONTAINER CHARGE	VOB	1		
S 003	SERVICE SUPERVISOR	EA	1		

SUB T

DLS

CHEMICAL / ACID DATA:			

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

T

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
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(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

Customer <b>FG HALL CO. INC.</b>	Lease No.	Date <b>1-25-2013</b>
Lease <b>SCHMITT FAMILY TRUST</b>	Well # <b>1-15</b>	
Field Order # <b>07650</b>	Station <b>PRATT, KS.</b>	Casing <b>5 1/2"</b>
Type Job <b>CNW - 8 5/8" S.P.</b>	Depth	County <b>BARTON</b>
	Formation <b>TD = 995'</b>	State <b>Ks.</b>
		Legal Description <b>15-20-15</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>8 5/8"</b>	Tubing Size <b>2 3/4"</b>	Shots/Ft <b>CMT -</b>	Acid <b>200SKS. A-CON!</b>	RATE	PRESS	ISIP	
Depth <b>979.6'</b>	Depth	From	To	Pre Pad <b>@ 2.47 CUFT</b>	Max <b>L.J. = 16'</b>	5 Min.	
Volume <b>63.32 BBL</b>	Volume	From	To	Pad <b>175SKS. COMMON</b>	Min	10 Min.	
Max Press <b>500</b>	Max Press	From	To	Frac <b>@ 1.20 CUFT</b>	Avg	15 Min.	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used	Annulus Pressure	
Plug Depth <b>475'</b>	Packer Depth	From	To	Flush <b>62 BBL</b>	Gas Volume	Total Load	

Customer Representative <b>R. LONG</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY</b>
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Service Units	<b>37586</b>	<b>19903</b>	<b>19905</b>	<b>70959</b>	<b>19918</b>				
Driver Names	<b>LESLEY</b>	<b>MARQUEZ</b>	<b>PIKE</b>						

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
11:00 AM					ON LOCATION - SAFETY MEETING
1:00 PM					RUN 23 STS. 8 5/8" x 2 3/4" CSA.
<del>1:30 PM</del>					CENT. - 900', 450', 40'
2:30 PM					CSG. ON BOTTOM
2:35 PM					HOOK UP TO CSA. / BREAK CIRC. W/ ZIG
2:50 PM	450		5	6	H2O AHEAD
2:53 PM	300		88	6	MIX 200SKS. A-CON! @ 12 PPG
3:07 PM	250		37.5	6	MIX 175SKS. COMMON! @ 15.6 PPG
3:13 PM					SHOT DOWN - DROP T.R. PLUG
3:16 PM	0		0	5	START DISPLACEMENT
3:27 PM	425		55	3	SLOW RATE
3:30 PM	450		62	2	PLUG @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 10 BBL TO PIT
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY





**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 07605 A

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

DATE OF JOB <u>2-4-2013</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>FG HOLL CO. LLC</u>		LEASE <u>SCHMITT FAMILY TRUST</u>		WELL NO. <u>1-15</u>					
ADDRESS _____		COUNTY <u>BARTON</u>		STATE <u>Ks.</u>					
CITY _____ STATE _____		SERVICE CREW <u>LESCEY, MARQUEZ, LAWRENCE</u>							
AUTHORIZED BY _____		JOB TYPE: <u>CNW - 5 1/2" C.S.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>37586</u>	<u>10</u>						<u>2-4-13</u>		<u>7:00</u>
<u>19889-19843</u>	<u>10</u>					ARRIVED AT JOB		AM	<u>10:00</u>
<u>19826-19860</u>	<u>10</u>					START OPERATION		AM	<u>11:00</u>
						FINISH OPERATION		AM	<u>4:00</u>
						RELEASED		PM	<u>5:00</u>
						MILES FROM STATION TO WELL			<u>60</u>

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 CMT.	SK	125		
CP 103	60/40 P02	SK	75		
CC 102	CELL FLAKE	lb	32		
CC 125	C-411P DEFOAMER	lb	30		
CC 111	SALT	lb	520		
CC 129	FLA-322 LOW FLUID LOSS	lb	118		
CC 201	GILSONITE	lb	1625		
CF 1007	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		
CF 1251	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1		
CF 1651	TURBOLIZER, 5 1/2"	EA	8		
CF 2002	CMT. SCRATCHERS ROT. TYPE	EA	50		
CC 154	SUPER FLUSH	GAL	500		
E 100	PICKUP MILEAGE	MI	60		
E 101	HEAVY EQUIPMENT MILEAGE	MI	120		
E 113	BULK DELIVERY CHARGE	TM	549		
CE 204	DEPTH CHARGE: 3001'-4000'	HR	1-4		
CE 240	BLENDING SERVICE	SK	200		
CE 501	CSG. SWIVEL RENTAL	EA	1		
CE 504	PLUG CONTAINER CHARGE	JOB	1		
S 003	SERVICE SUPERVISOR	EA	1		
CF 1901	CHEMICAL / ACID DATA: _____	EA	1		
CF 1901	DISCRET, 5 1/2"	EA	1		
					\$175.00 SUB TOTAL
					\$290.00
SERVICE & EQUIPMENT				%TAX ON \$	
MATERIALS				%TAX ON \$	
					TOTAL

SERVICE REPRESENTATIVE: \_\_\_\_\_  
FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>FG HOLL CO. LLC</b>	Lease No.	Date <b>2-4-2013</b>
Lease <b>SCHMITT FAMILY TRUST</b>	Well # <b>1-15</b>	
Field Order # <b>07605</b>	Station <b>PRATT, KS.</b>	Casing <b>5 1/2"</b>
Type Job <b>CNW - 5 1/2" L.S.</b>	Formation <b>TD - 3900'</b>	Depth <b>15-20-15</b>
	County <b>BARTON</b>	State <b>KS.</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2"</b>	Tubing Size <b>1 1/4"</b>	Shots/Ft <b>CNTT -</b>	From <b>CNTT -</b>	Acid <b>25 SK. SCAVENGER</b>	Rate <b>SJ = 13.92</b>	Press <b>13.92</b>	ISIP <b>5 Min.</b>	
Depth <b>3875.5</b>	Depth <b>1255x AA-2</b>	From <b>@ 1.43 CCF</b>	To <b>947</b>	Pre Pad <b>BBL</b>	Max		<b>10 Min.</b>	
Volume <b>1500</b>	Volume <b>1500</b>	From	To	Frac	Avg		<b>15 Min.</b>	
Max Press <b>1500</b>	Max Press	From	To		HHP Used		<b>Annulus Pressure</b>	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	Flush <b>BBL</b>	Gas Volume		<b>Total Load</b>	
Plug Depth <b>3881.48</b>	Packer Depth	From	To					

Customer Representative <b>R. LONG</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY</b>
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Service Units	<b>37506</b>	<b>19889</b>	<b>19843</b>	<b>19826</b>	<b>19860</b>				
Driver Names	<b>LESLEY</b>	<b>MARQUEZ</b>	<b>LAURENCE</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 AM					ON LOCATION - SAFETY MEETING
11:00 AM					RUN 98 JTS. 5 1/2" x 1 1/4"
					TURBO - 1, 2, 3, 4, 5, 6, 7, 8
					BASKET - #6
1:00 PM					CSG. ON BOTTOM
1:15 PM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
3:10 PM	275		5	6	H2O AHEAD
3:14 PM	275		12	6	SUPERFLUSH
3:16 PM	250		5	6	H2O SPACER
3:17 PM	250		6	6	MIX 25 SKS. SCAVENGER @ 14 PPG
3:18 PM	200		32	6	MIX 125 SKS. AA2 @ 15 PPG
3:23 PM					CLEAR PUMP & LINE / DROP L.D. PLUG
3:25 PM	0		0	6	START DISPLACEMENT
3:36 PM	500		65	5	LIFT PRESSURE
3:39 PM	500		80	3	SLOW RATE
3:45 PM	1500		407	3	PLUG DOWN! - HELD
					CIRC. THRU JOB
			64		PLUG R.H. = 11.4.
					JOB COMPLETE,
					THANKS -
					KEVIN LESLEY

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



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

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

Sam Brownback, Governor

April 16, 2013

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

Re: ACO1  
API 15-009-25804-00-00  
SCHMITT FAMILY TRUST 1-15  
SW/4 Sec.15-20S-15W  
Barton County, Kansas

Dear Production Department:

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

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

Respectfully,  
Franklin R. Greenbaum



## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family Trust**

#### **15-20s-15w Barton**

Start Date: 2013.01.30 @ 00:00:00

End Date: 2013.01.30 @ 00:00:00

Job Ticket #: DST #: 1

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

Printed: 2013.01.31 @ 05:37:43



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

ATTN: Ryan Greenbaum

Job Ticket: **DST#: 1**

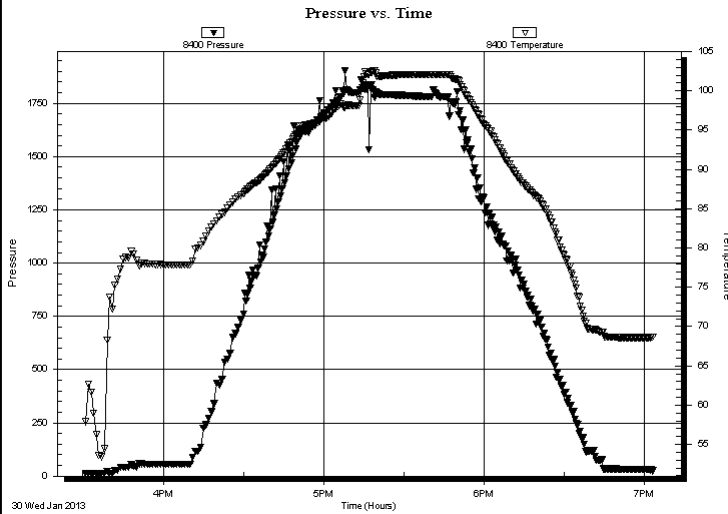
Test Start: 2013.01.30 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Shane Konzem  
 Time Test Ended: 00:00:00 Unit No: 3330  
 Interval: **3635.00 ft (KB) To 3710.00 ft (KB) (TVD)** Reference Elevations: 1996.00 ft (KB)  
 Total Depth: 3710.00 ft (KB) (TVD) 1988.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8400 Below**  
 Press @ Run Depth: psia @ 3705.74 ft (KB) Capacity: psia  
 Start Date: 2013.01.30 End Date: 2013.01.31 Last Calib.: 1899.12.30  
 Start Time: 15:30:00 End Time: 02:47:30 Time On Btm:  
 Time Off Btm:

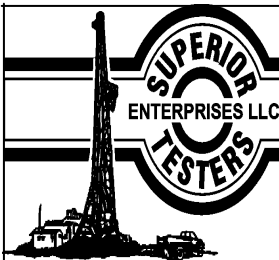
TEST COMMENT: 1st Opening  
MISS-Run Packer Failure



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	Drilling Mud PACKER FAILURE	1.68

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



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

15-20s-15w Barton

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

Schmitt Family Trust

ATTN: Ryan Greenbaum

Job Ticket: **DST#: 1**

Test Start: 2013.01.30 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 00:00:00 Tester: Shane Konzem

Time Test Ended: 00:00:00 Unit No: 3330

Interval: **3635.00 ft (KB) To 3710.00 ft (KB) (TVD)** Reference Elevations: 1996.00 ft (KB)

Total Depth: 3710.00 ft (KB) (TVD) 1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

### Serial #: 8405

Outside

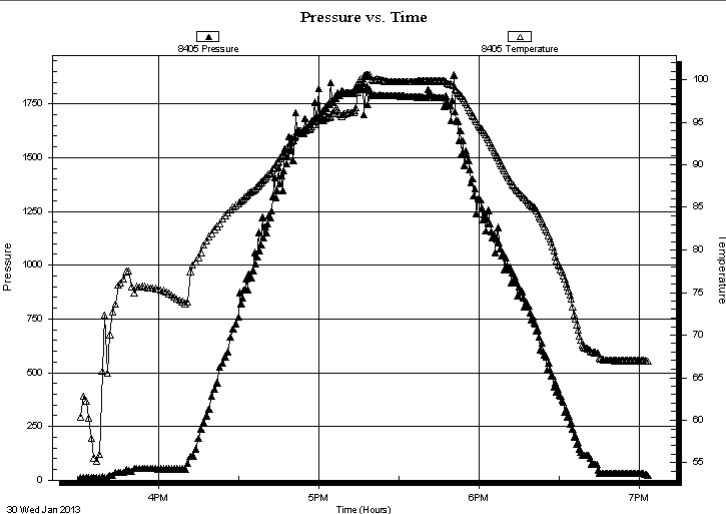
Press @ Run Depth: psia @ 3706.74 ft (KB) Capacity: 5000.00 psia

Start Date: 2013.01.30 End Date: 2013.01.31 Last Calib.: 2013.01.31

Start Time: 15:30:00 End Time: 02:48:00 Time On Btm:

Time Off Btm:

TEST COMMENT: 1st Opening  
MISS-Run Packer Failure



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Drilling Mud PACKER FAILURE	1.68

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

ATTN: Ryan Greenbaum

Job Ticket: **DST#: 1**

Test Start: 2013.01.30 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 50.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3635.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.74 ft			
Tool Length:	102.74 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

SHut-InTool	5.00		Inside	3612.00	
Hydraulic Tool	5.00			3617.00	
Jars	6.00			3623.00	
Safety Joint	2.00			3625.00	
Packer	5.00			3630.00	28.00 Bottom Of Top Packer
Packer	5.00			3635.00	
Anchor	5.00			3640.00	
Change Over Sub	0.75			3640.75	
Drill Pipe	30.24		Outside	3670.99	
Change Over Sub	0.75		Outside	3671.74	
Anchor	33.00			3704.74	
Recorder	1.00	8400	Below	3705.74	
Recorder	1.00	8405	Outside	3706.74	
Bullnose	3.00			3709.74	74.74 Bottom Packers & Anchor

**Total Tool Length: 102.74**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: **DST#: 1**

ATTN: Ryan Greenbaum

Test Start: 2013.01.30 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Drilling Mud PACKER FAILURE	1.683

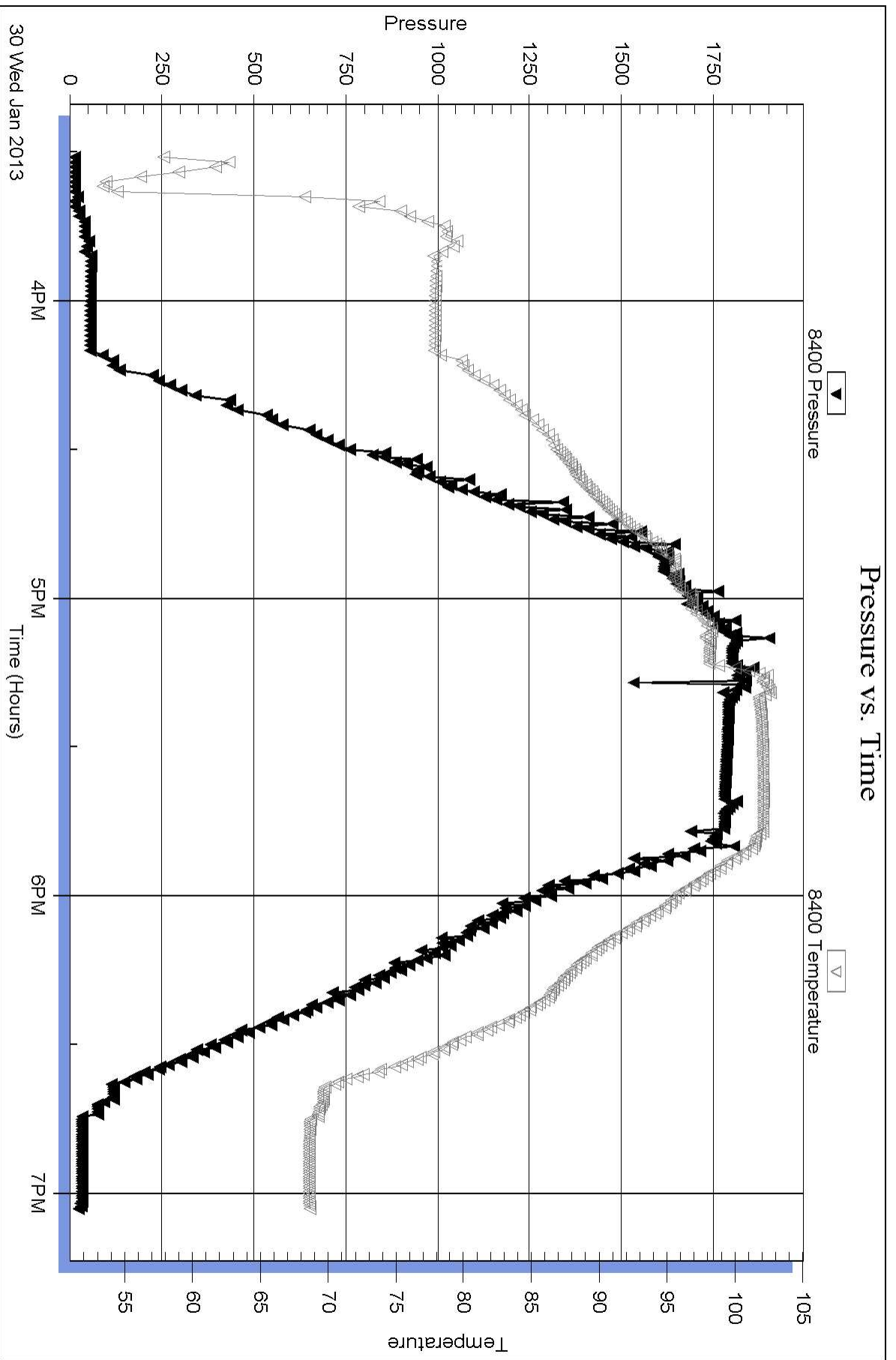
Total Length: 120.00 ft      Total Volume: 1.683 bbl

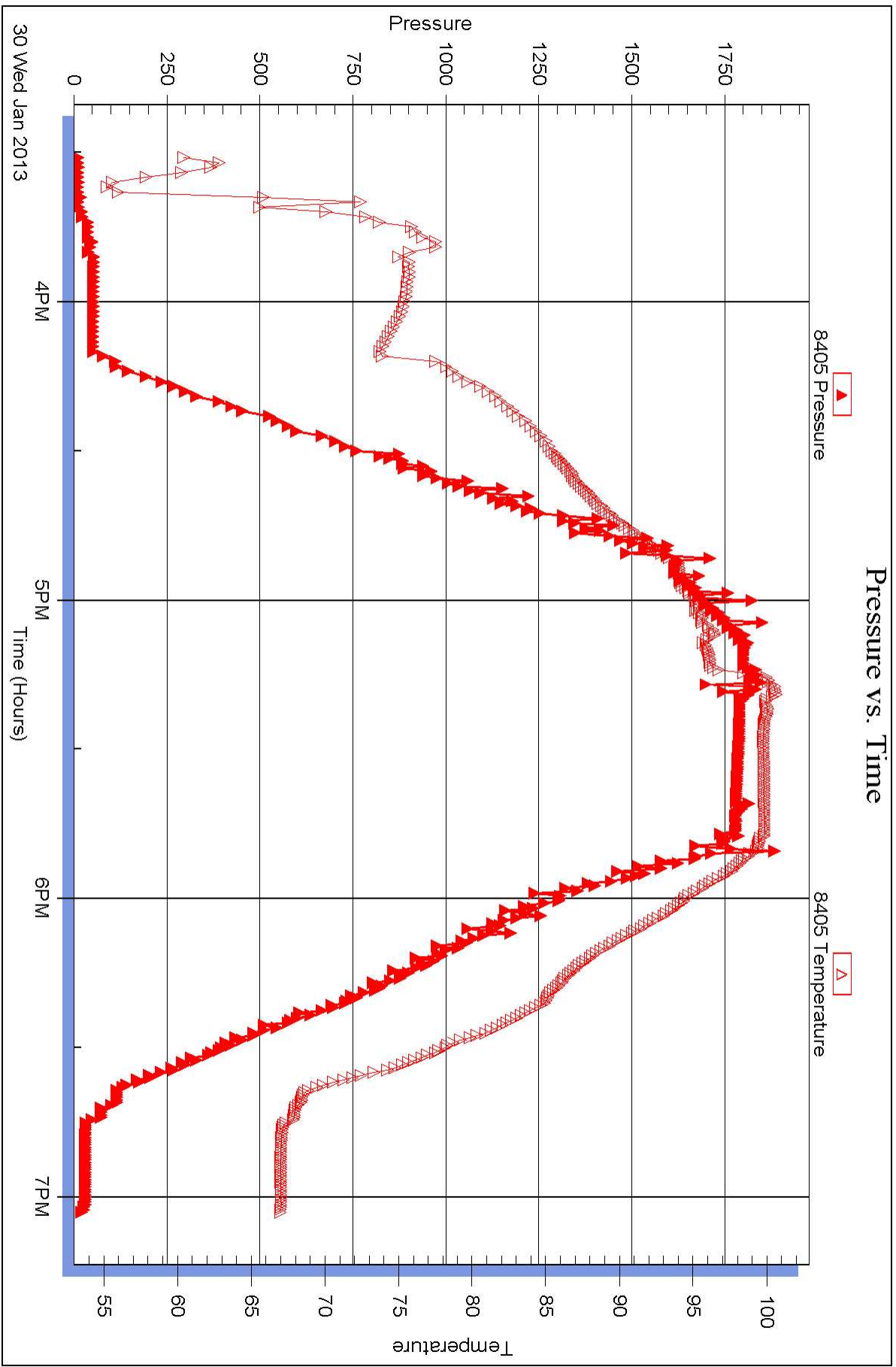
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family Trust**

#### **15-20s-15w Barton**

Start Date: 2013.01.30 @ 00:00:00

End Date:

Job Ticket #: 16955

DST #: 2

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

Printed: 2013.01.31 @ 05:39:02







# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: 16955

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2013.01.30 @ 00:00:00

**Tool Information**

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 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: 48000.00 lb
			<u>Total Volume: 50.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3628.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.74 ft			
Tool Length:	109.74 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3605.00	
Hydraulic Tool	5.00			3610.00	
Jars	6.00			3616.00	
Safety Joint	2.00			3618.00	
Packer	5.00			3623.00	28.00 Bottom Of Top Packer
Packer	5.00			3628.00	
Anchor	10.00			3638.00	
Change Over Sub	0.75			3638.75	
Drill Pipe	30.24		Outside	3668.99	
Change Over Sub	0.75		Outside	3669.74	
Anchor	35.00			3704.74	
Recorder	1.00	8400	Inside	3705.74	
Recorder	1.00	8405	Outside	3706.74	
Bullnose	3.00			3709.74	81.74 Bottom Packers & Anchor

**Total Tool Length: 109.74**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: 16955

**DST#: 2**

ATTN: Ryan Greenbaum

Test Start: 2013.01.30 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Drilling mud PACKER FAILURE	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

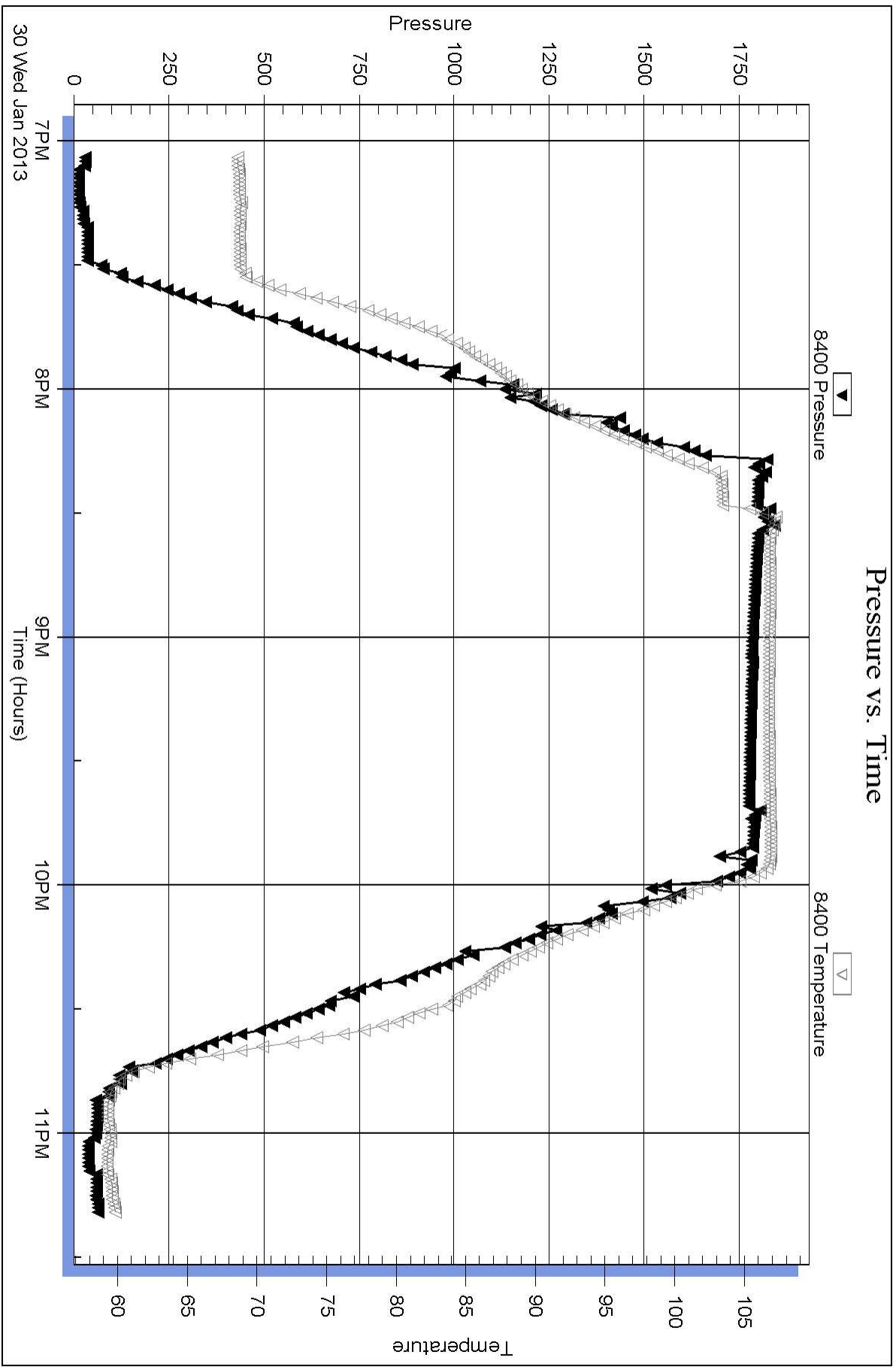
Serial #: 8400

Inside

F.G.Holl Company L.L.C.

Schmitt Family Trust

DST Test Number: 2

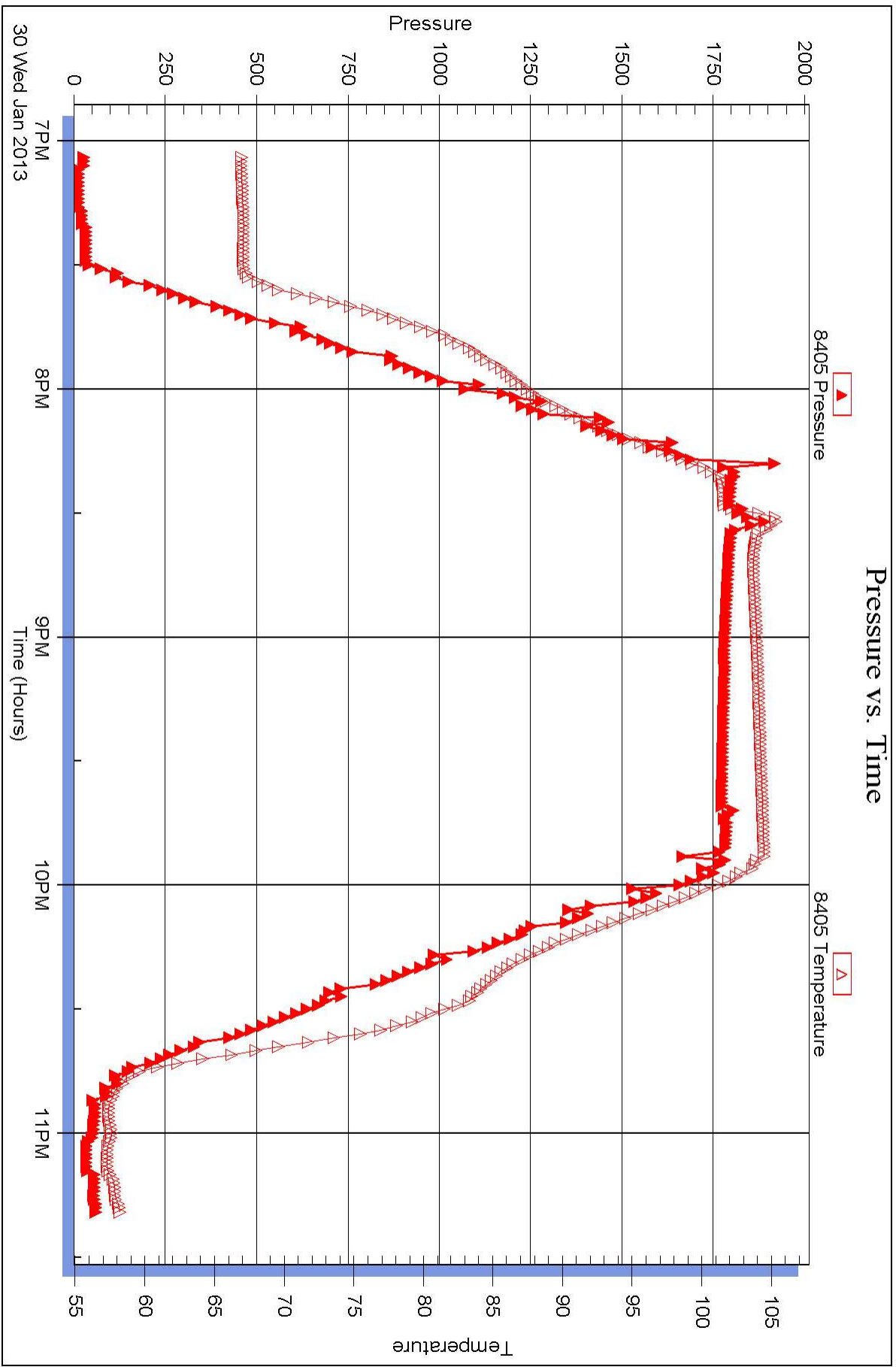


Superior Testers Enterprises LLC

Ref. No: 16955

Printed: 2013.01.31 @ 05:39:03







## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family Trust**

#### **15-20s-15w Barton**

Start Date: 2013.01.31 @ 00:00:00

End Date: 2013.01.31 @ 00:00:00

Job Ticket #: 16956                      DST #: 3

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

Printed: 2013.01.31 @ 05:39:49







# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: 16956

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 50.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3621.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.74 ft			
Tool Length:	116.74 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

SHut-InTool	5.00		Inside	3598.00	
Hydraulic Tool	5.00			3603.00	
Jars	6.00			3609.00	
Safety Joint	2.00			3611.00	
Packer	5.00			3616.00	28.00 Bottom Of Top Packer
Packer	5.00			3621.00	
Anchor	19.00			3640.00	
Change Over Sub	0.75			3640.75	
Drill Pipe	30.24		Outside	3670.99	
Change Over Sub	0.75		Outside	3671.74	
Anchor	33.00			3704.74	
Recorder	1.00	8400	Inside	3705.74	
Recorder	1.00	8504	Outside	3706.74	
Bullnose	3.00			3709.74	88.74 Bottom Packers & Anchor

**Total Tool Length: 116.74**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: 16956

**DST#: 3**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Drilling Mud PACKER FAILURE	2.104

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

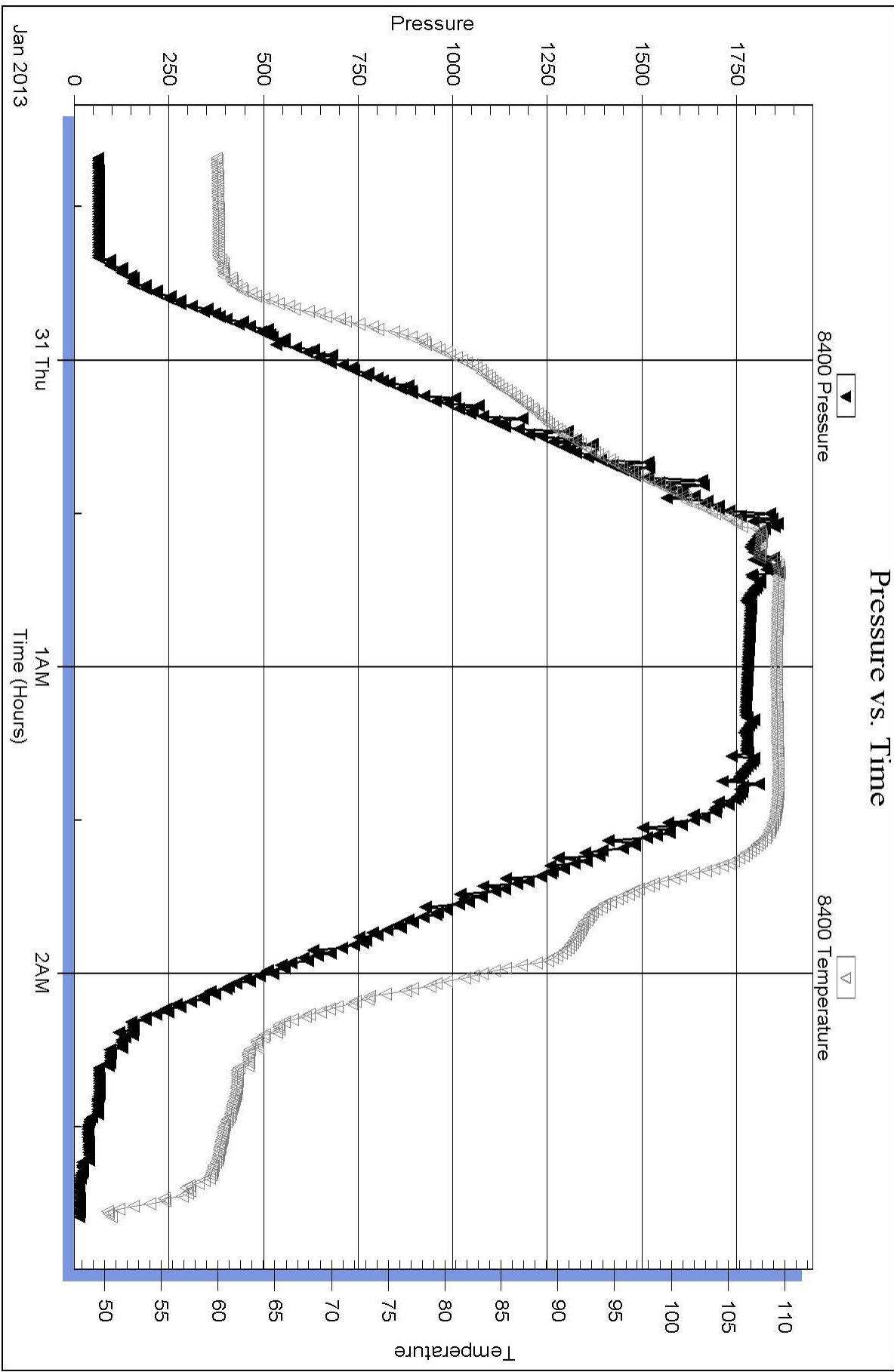
Serial #: 8400

Inside

F.G.Holl Company L.L.C.

Schmitt Family Trust

DST Test Number: 3



Superior Testers Enterprises LLC

Ref. No: 16956

Printed: 2013.01.31 @ 05:39:49

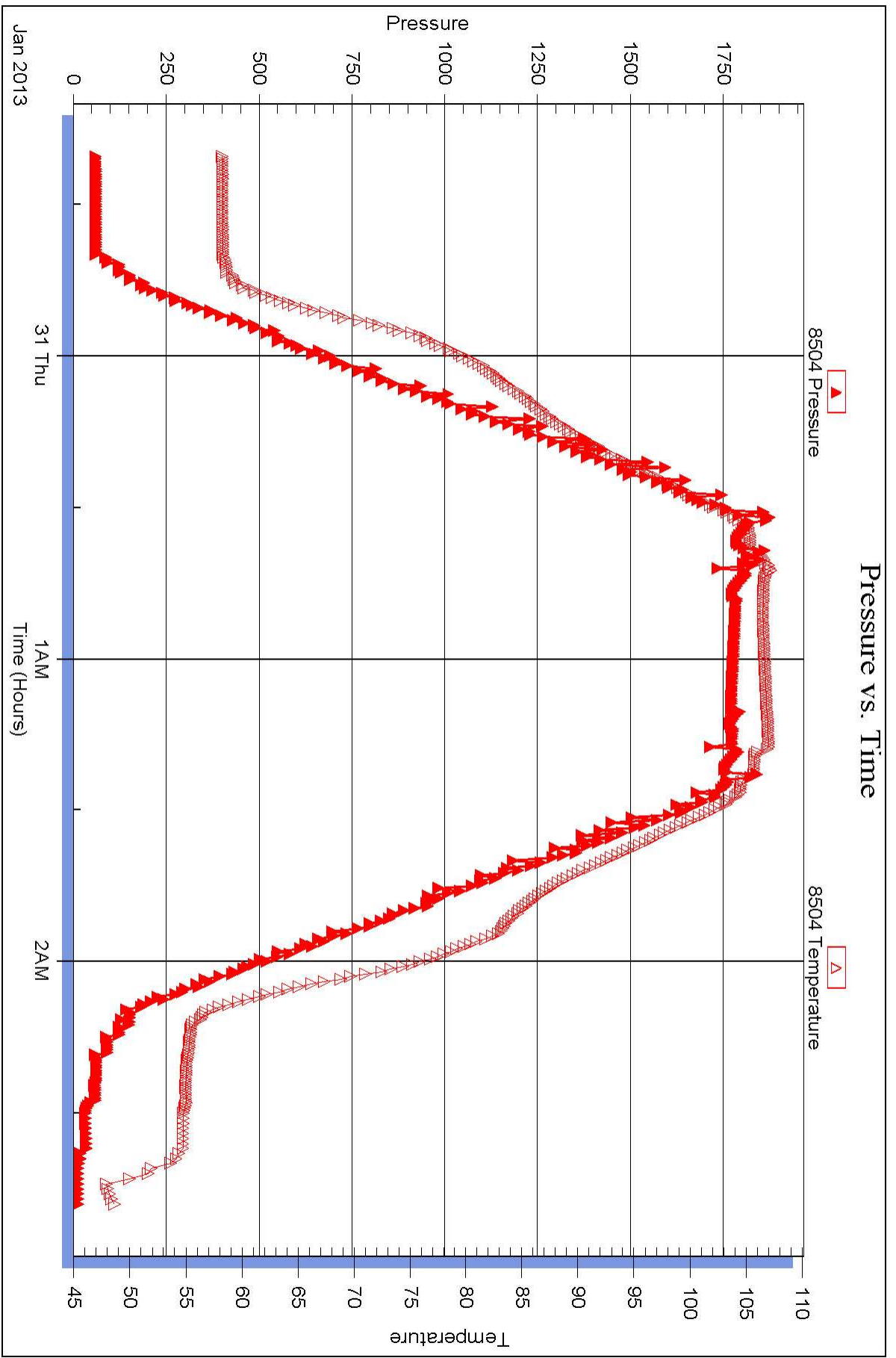
Serial #: 8504

Outside

F.G.Holl Company L.L.C.

Schmitt Family Trust

DST Test Number: 3



Superior Testers Enterprises LLC

Ref. No: 16956

Printed: 2013.01.31 @ 05:39:50





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family Trust**

#### **15-20s-15w Barton**

Start Date: 2013.01.31 @ 00:00:00

End Date: 2013.01.31 @ 00:00:00

Job Ticket #: 16957                      DST #: 4

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

Printed: 2013.01.31 @ 09:25:08



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

ATTN: Ryan Greenbaum

Job Ticket: 16957

**DST#: 4**

Test Start: 2013.01.31 @ 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: Shane Konzem

Unit No: 3330 Great Bend/ 40

**Interval: 3702.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3710.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**

Press @ RunDepth: 1660.36 psia @ 3707.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.31

End Date: 2013.01.31

Last Calib.: 2013.01.31

Start Time: 05:30:00

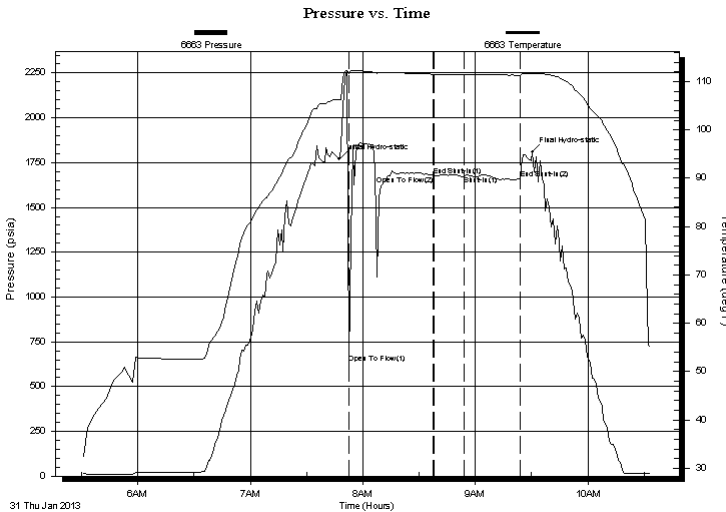
End Time: 10:33:30

Time On Btm: 2013.01.31 @ 07:47:30

Time Off Btm: 2013.01.31 @ 09:30:30

**TEST COMMENT:** 1st Open/ 15 Minutes weak blow for 9 minutes and died  
1st Shut In/30 Minutes-No blow back  
2nd Open/ 15 Minutes No blow  
2nd Shut in/30 Minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1768.98	106.33	Initial Hydro-static
5	630.53	111.63	Open To Flow (1)
50	1679.26	111.54	End Shut-In(1)
51	1677.99	111.53	Open To Flow (2)
67	1675.75	111.41	Shut-In(1)
97	1660.36	111.34	End Shut-In(2)
103	1809.03	111.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: 16957

**DST#: 4**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3681.00 ft	Diameter: 3.80 inches	Volume: 51.63 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:	lb
			<u>Total Volume: 51.63 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3702.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Hydrolic Tool	5.00			3684.00	
Jars	6.00			3690.00	
Safety Joint	2.00			3692.00	
Packer	5.00			3697.00	23.00 Bottom Of Top Packer
Packer	5.00			3702.00	
Anchor	3.00			3705.00	
Recorder	1.00	6748	Inside	3706.00	
Recorder	1.00	6663	Outside	3707.00	
Bullnose	3.00			3710.00	
SHut-InTool	5.00		Inside	3715.00	13.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family Trust**

Job Ticket: 16957

**DST#: 4**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

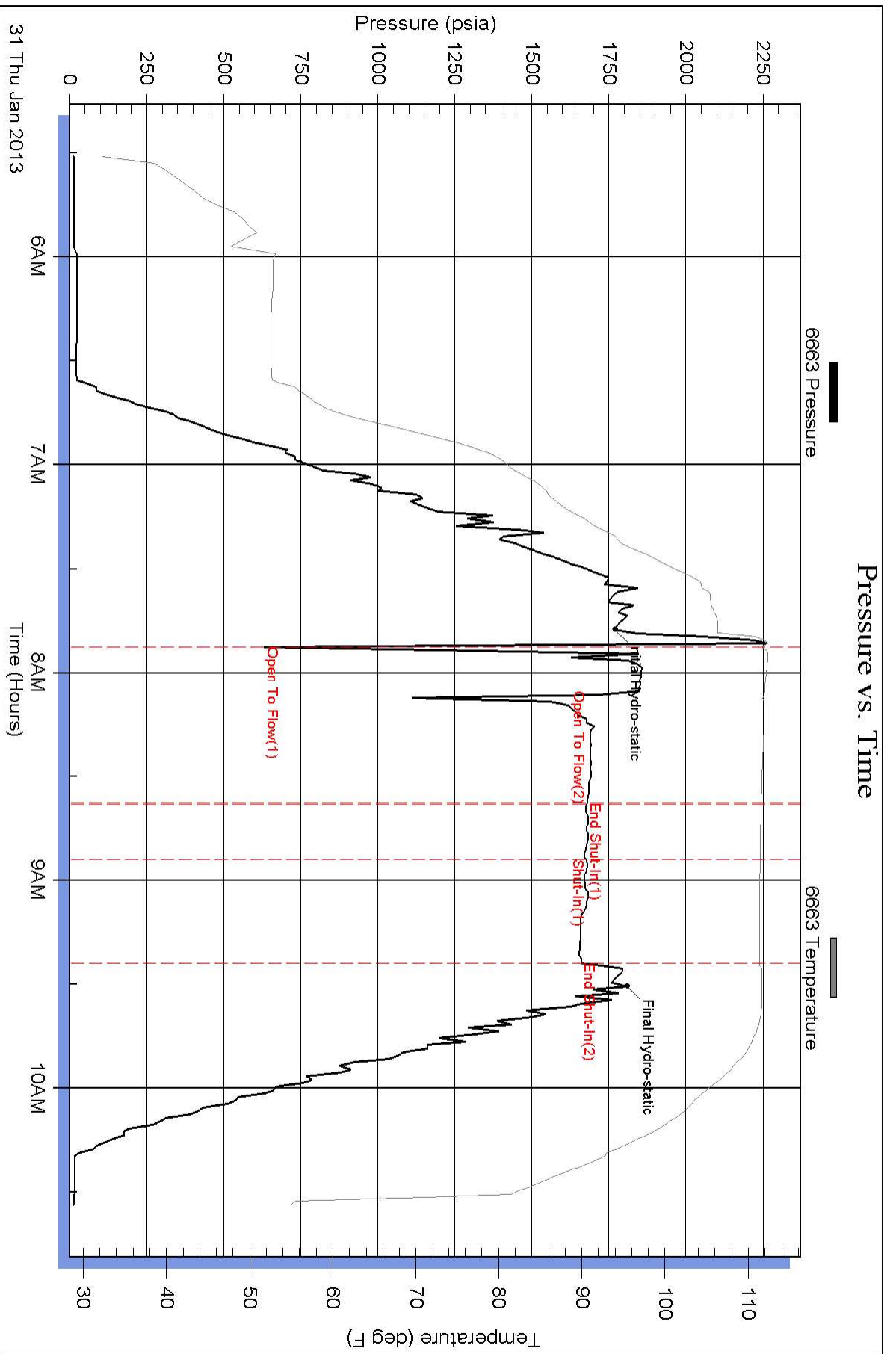
Length ft	Description	Volume bbl

Total Length: ft      Total Volume: 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 L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family #1-15**

#### **15-20s-15w Barton**

Start Date: 2013.01.31 @ 00:00:00

End Date:

Job Ticket #: 16958

DST #: 5

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

Printed: 2013.02.01 @ 08:30:01



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

ATTN: Ryan Greenbaum

Job Ticket: 16958

**DST#: 5**

Test Start: 2013.01.31 @ 00:00:00

## GENERAL INFORMATION:

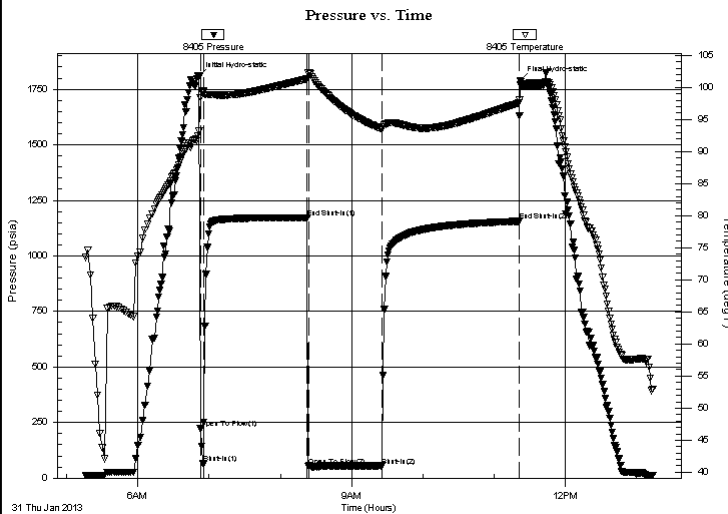
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened:  
 Tester: Shane Konzem  
 Time Test Ended:  
 Unit No: 3330 Great Bend/ 25  
 Interval: **3698.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Reference Elevations: 1996.00 ft (KB)  
 Total Depth: 3720.00 ft (KB) (TVD) 1988.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8405

**Outside**

Press @ Run Depth: 1155.96 psia @ 3712.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.01.31 End Date: 2013.01.31 Last Calib.: 2013.02.01  
 Start Time: 05:16:00 End Time: 13:13:30 Time On Btm: 2013.01.31 @ 06:51:30  
 Time Off Btm: 2013.01.31 @ 11:22:00

**TEST COMMENT:** 1st Open/ 2 Minutes/ Strong blow built to the bottom of a 5 gallon bucket in 30 seconds  
 1st Shut In/ 90 Minutes/ No blow back  
 2nd Open/ 60 Minutes/ Strong Blow built to the bottom of a 5 gallon bucket in 30 seconds. Gas to surface in 2  
 2nd Shut In/ 120 Minutes/ fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1807.78	93.27	Initial Hydro-static
1	222.89	98.43	Open To Flow (1)
4	65.04	99.52	Shut-In(1)
91	1172.59	101.33	End Shut-In(1)
92	54.31	102.26	Open To Flow (2)
154	55.13	93.44	Shut-In(2)
270	1155.96	97.57	End Shut-In(2)
271	1788.49	100.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drilling Mud No show s of oil	0.63

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.63	110.62
Last Gas Rate	1.00	3.63	110.62
Max. Gas Rate	1.00	3.63	110.62



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

ATTN: Ryan Greenbaum

Job Ticket: 16958

**DST#: 5**

Test Start: 2013.01.31 @ 00:00:00

## GENERAL INFORMATION:

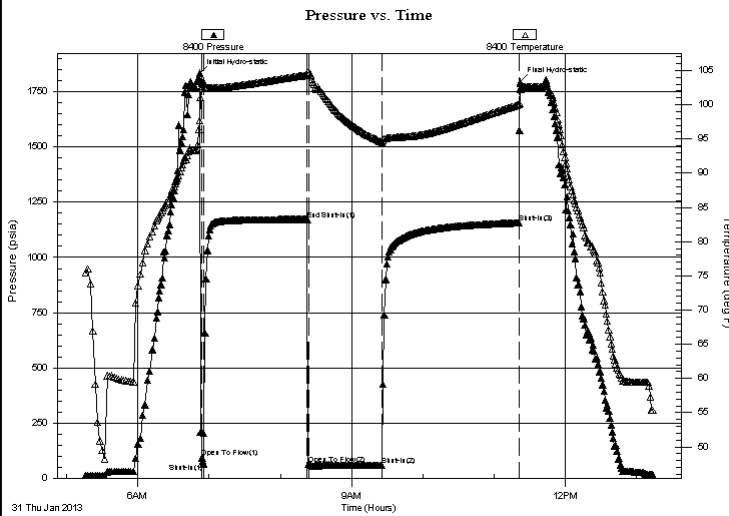
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened:  
 Tester: Shane Konzem  
 Time Test Ended:  
 Unit No: 3330 Great Bend/ 25  
 Interval: **3698.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Reference Elevations: 1996.00 ft (KB)  
 Total Depth: 3720.00 ft (KB) (TVD)  
 1988.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

## Serial #: 8400

**Inside**

Press @ Run Depth: 1172.78 psia @ 3711.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.01.31 End Date: 2013.01.31 Last Calib.: 2013.02.01  
 Start Time: 05:16:00 End Time: 13:14:00 Time On Btm: 2013.01.31 @ 06:52:00  
 Time Off Btm: 2013.01.31 @ 11:22:00

**TEST COMMENT:** 1st Open/ 2 Minutes/ Strong blow built to the bottom of a 5 gallon bucket in 30 seconds  
 1st Shut In/ 90 Minutes/ No blow back  
 2nd Open/ 60 Minutes/ Strong Blow built to the bottom of a 5 gallon bucket in 30 seconds. Gas to surface in 2  
 2nd Shut In/ 120 Minutes/ fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1834.55	97.62	Initial Hydro-static
2	92.25	103.13	Open To Flow (1)
3	65.58	103.37	Shut-In(1)
91	1172.78	104.34	End Shut-In(1)
92	61.72	104.71	Open To Flow (2)
154	59.25	94.51	Shut-In(2)
269	1156.62	100.00	Shut-In(3)
270	1794.14	102.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drilling Mud No show s of oil	0.63

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.63	110.62
Last Gas Rate	1.00	3.63	110.62
Max. Gas Rate	1.00	3.63	110.62





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16958

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 51.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3698.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3675.00	
Hydraulic Tool	5.00			3680.00	
Jars	6.00			3686.00	
Safety Joint	2.00			3688.00	
Packer	5.00			3693.00	28.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Anchor	12.00			3710.00	
Recorder	1.00	8400	Inside	3711.00	
Recorder	1.00	8405	Outside	3712.00	
Bullnose	3.00			3715.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16958

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3500.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Drilling Mud No shows of oil	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

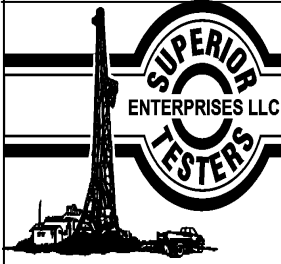
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16958

**DST#: 5**

ATTN: Ryan Greenbaum

Test Start: 2013.01.31 @ 00:00:00

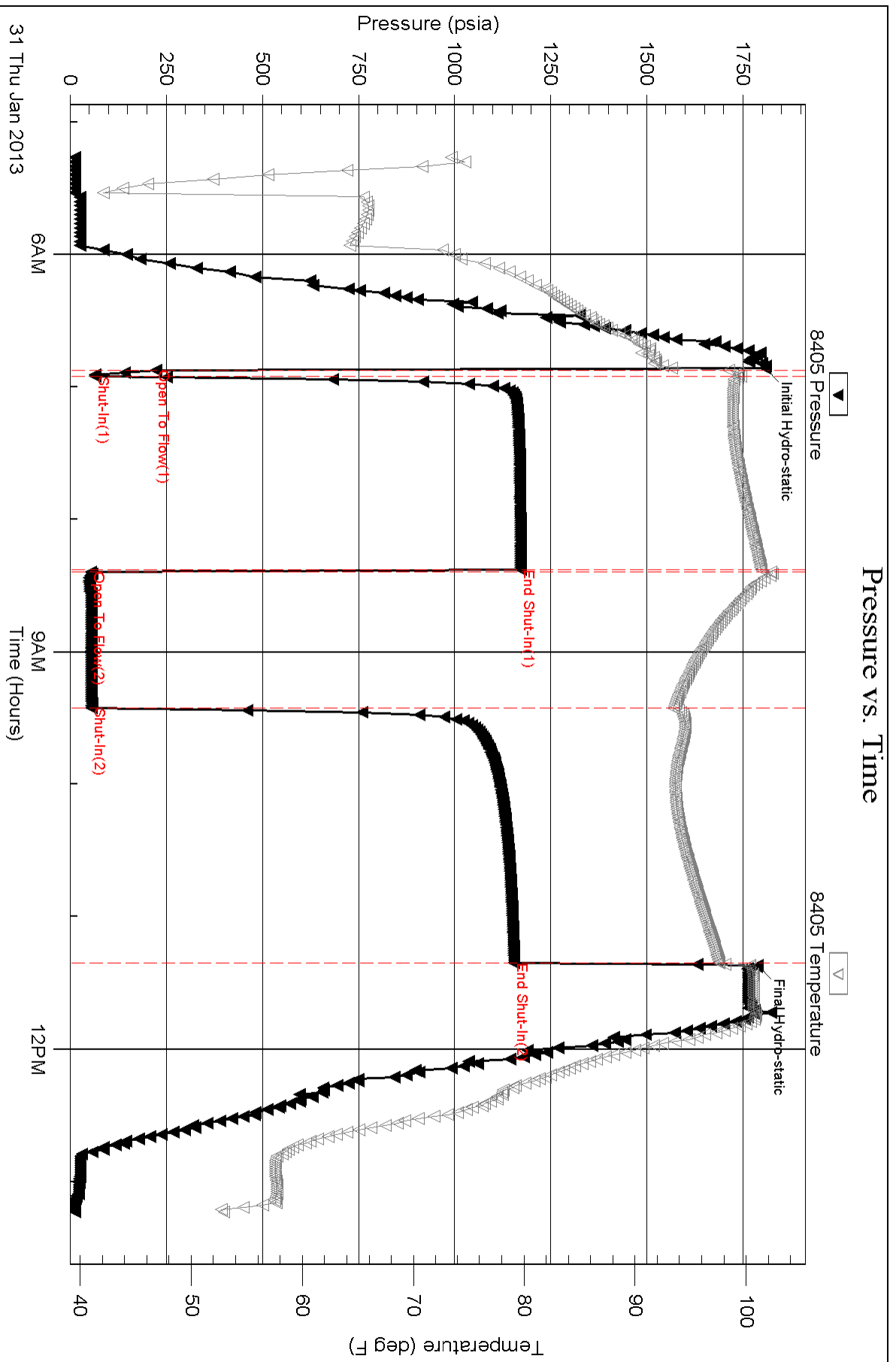
## Gas Rates Information

Temperature: 2 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

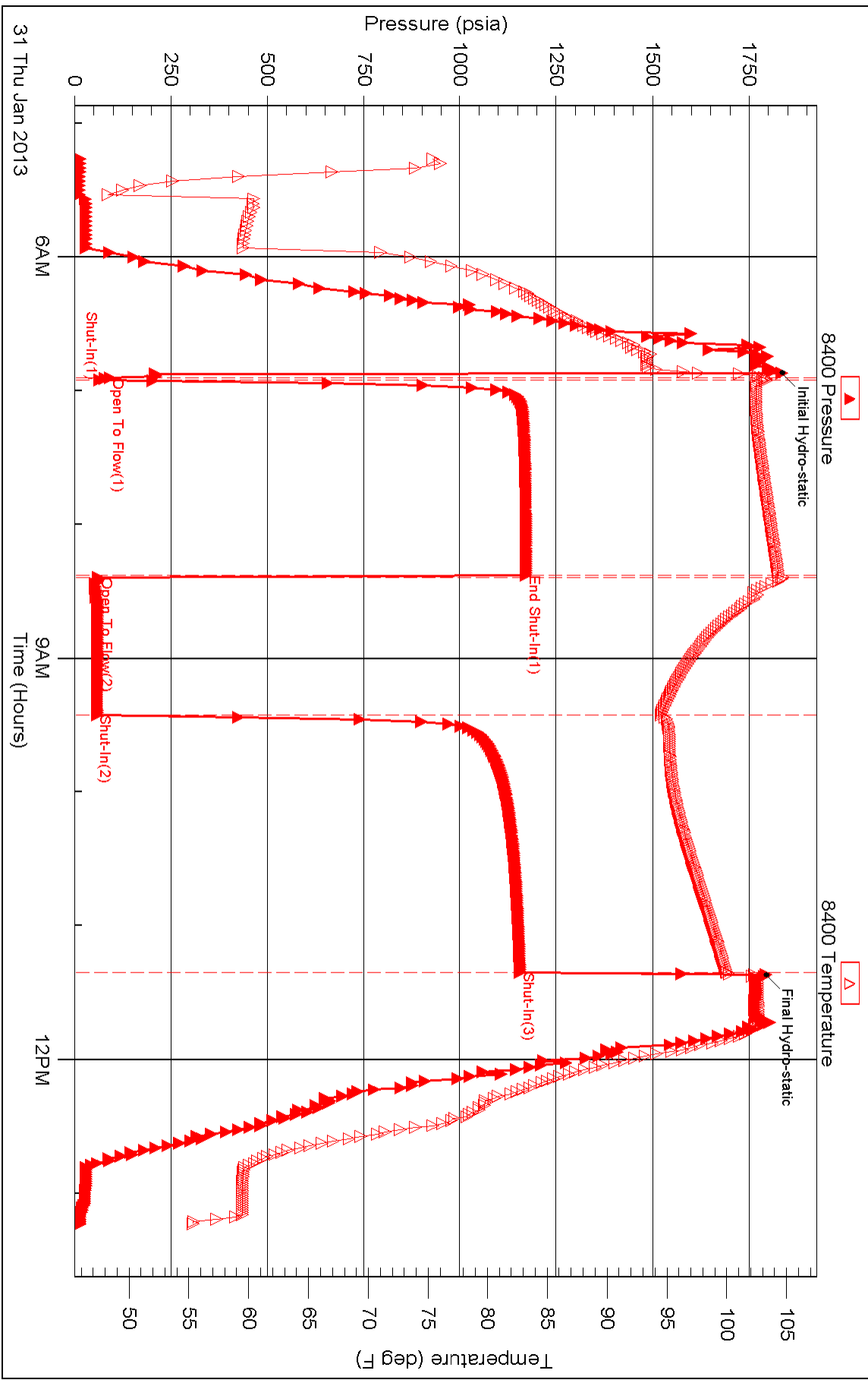
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	1.00	3.63	110.62
2	15	1.00	3.63	110.62
2	25	1.00	3.63	110.62
2	35	1.00	3.63	110.62
2	45	1.00	3.63	110.62
2	55	1.00	3.63	110.62
2	55	1.00	3.63	110.62

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family #1-15**

#### **15-20s-15w Barton**

Start Date: 2013.02.01 @ 00:00:00

End Date:

Job Ticket #: 16959

DST #: 6

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

Printed: 2013.02.01 @ 16:16:04



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

ATTN: Ryan Greenbaum

Job Ticket: 16959

**DST#: 6**

Test Start: 2013.02.01 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 40

**Interval: 3720.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400 Outside**

Press @ Run Depth: 1167.76 psia @ 3727.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.01

End Date: 2013.02.01

Last Calib.: 2013.02.01

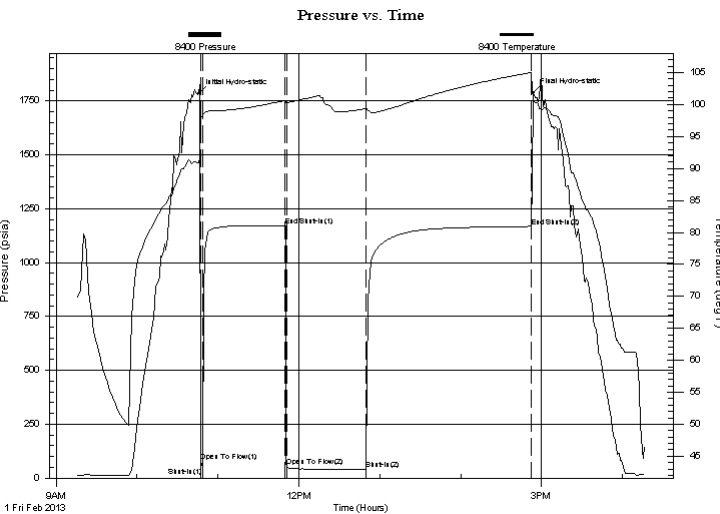
Start Time: 09:15:00

End Time: 16:16:30

Time On Btm: 2013.02.01 @ 10:45:30

Time Off Btm: 2013.02.01 @ 14:54:00

**TEST COMMENT:** 1st Open/ 2 minutes/ Strong blow built to the bottom of bucket of a 5 gallon bucket in 30 seconds!  
1st Shut In/ 60 Minutes/ No Blow  
2nd Open/ 60 Minutes/ Strong blow built to the bottom of a 5 gallon bucket in less than 30 seconds  
2nd Shut In/ 120 Minutes/ weak blow back .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1783.10	90.94	Initial Hydro-static
2	76.73	97.95	Open To Flow (1)
3	50.24	98.18	Shut-In(1)
64	1172.26	100.62	End Shut-In(1)
66	54.35	100.32	Open To Flow (2)
125	41.31	99.40	Shut-In(2)
247	1167.76	105.02	End Shut-In(2)
249	1786.14	100.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.56

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	5.70	163.87
Last Gas Rate	1.00	4.92	141.44
Max. Gas Rate	1.00	5.70	163.87



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16959

**DST#: 6**

ATTN: Ryan Greenbaum

Test Start: 2013.02.01 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 40

**Interval: 3720.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8405**

**Inside**

Press @ Run Depth: 1167.67 psia @ 3726.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.01

End Date:

2013.02.01

Last Calib.:

2013.02.01

Start Time: 09:15:00

End Time:

16:25:30

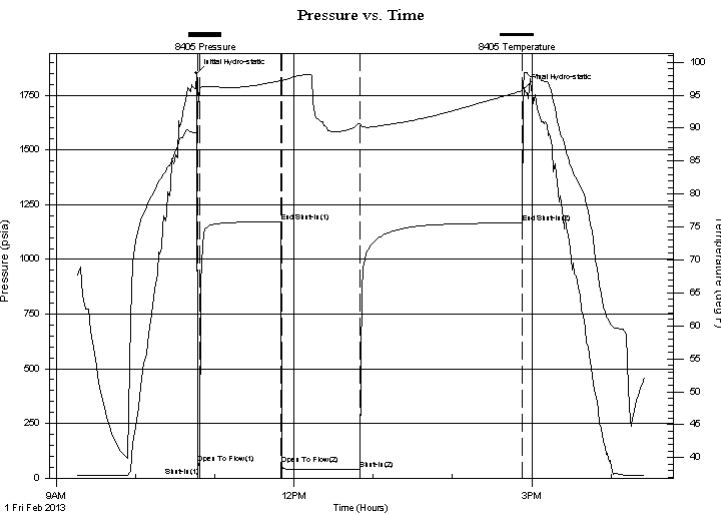
Time On Btm:

2013.02.01 @ 10:46:00

Time Off Btm:

2013.02.01 @ 14:54:00

**TEST COMMENT:** 1st Open/ 2 minutes/ Strong blow built to the bottom of bucket of a 5 gallon bucket in 30 seconds!  
1st Shut In/ 60 Minutes/ No Blow  
2nd Open/ 60 Minutes/ Strong blow built to the bottom of a 5 gallon bucket in less than 30 seconds  
2nd Shut In/ 120 Minutes/ weak blow back .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1851.16	89.41	Initial Hydro-static
1	65.42	92.96	Open To Flow (1)
3	50.38	95.89	Shut-In(1)
64	1172.01	97.23	End Shut-In(1)
65	62.78	97.15	Open To Flow (2)
124	39.12	90.72	Shut-In(2)
247	1167.67	95.64	End Shut-In(2)
248	1782.33	98.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.56

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	5.70	163.87
Last Gas Rate	1.00	4.92	141.44
Max. Gas Rate	1.00	5.70	163.87





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16959

**DST#: 6**

ATTN: Ryan Greenbaum

Test Start: 2013.02.01 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 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: lb
			<u>Total Volume: 52.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial lb
Depth to Top Packer:	3720.00 ft			Final 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-InTool	5.00		Inside	3702.00	
Hydraulic Tool	5.00			3707.00	
Jars	6.00			3713.00	
Safety Joint	2.00			3715.00	
Packer	5.00			3720.00	23.00 Bottom Of Top Packer
Packer	0.00			3720.00	
Anchor	5.00			3725.00	
Recorder	1.00	8405	Inside	3726.00	
Recorder	1.00	8400	Outside	3727.00	
Bullnose	3.00			3730.00	10.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16959

**DST#: 6**

ATTN: Ryan Greenbaum

Test Start: 2013.02.01 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 7.98 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4200.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling Mud	0.561

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

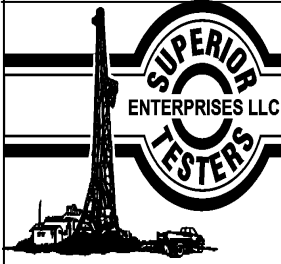
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16959

**DST#: 6**

ATTN: Ryan Greenbaum

Test Start: 2013.02.01 @ 00:00:00

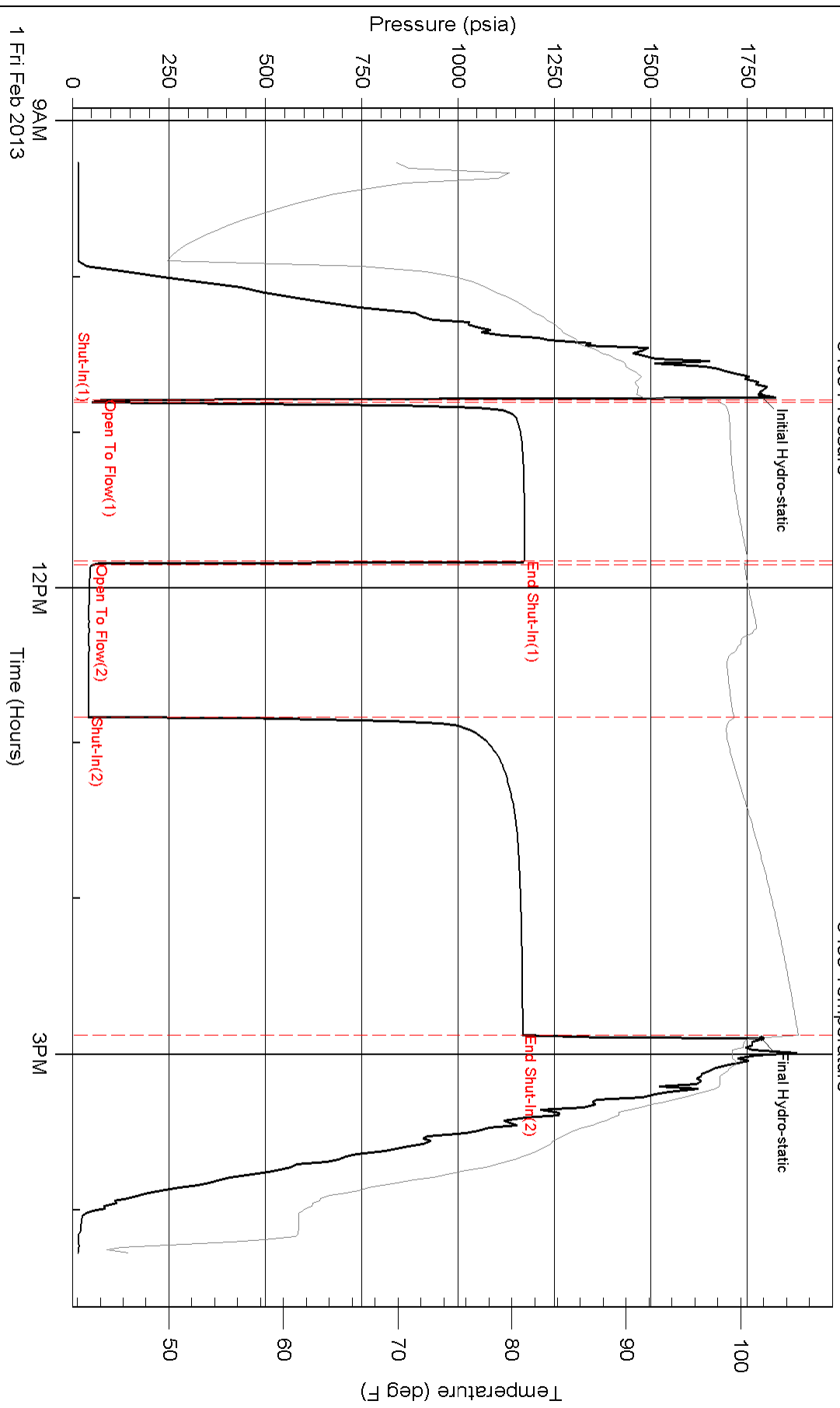
## Gas Rates Information

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

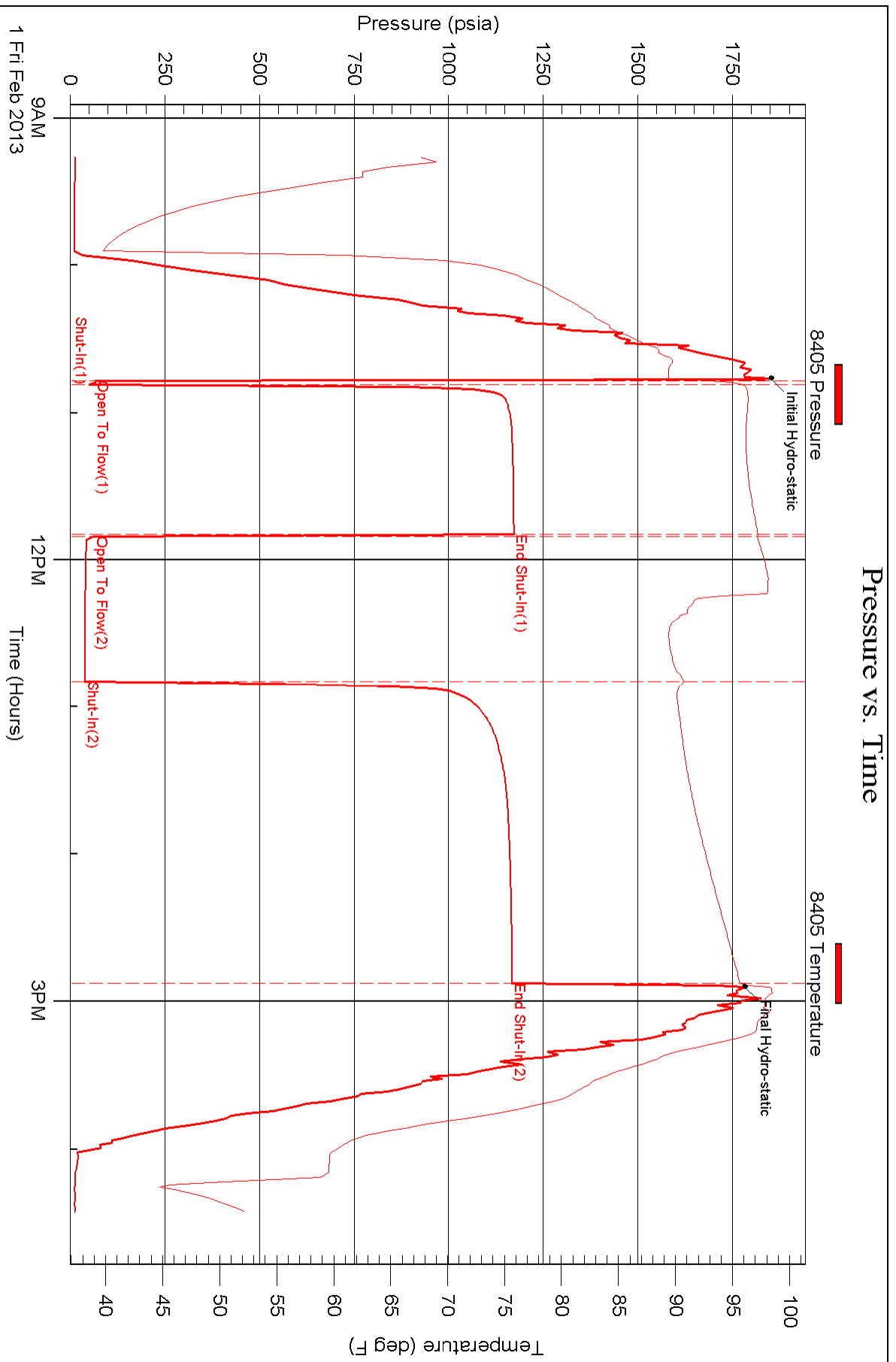
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	1.00	5.70	163.87
2	5	1.00	5.70	163.87
2	10	1.00	5.10	146.62
2	20	1.00	4.92	141.44
2	30	1.00	4.92	141.44
2	50	1.00	4.92	141.44
2	55	1.00	4.92	141.44

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family #1-15**

#### **15-20s-15w Barton**

Start Date: 2013.02.02 @ 00:00:00

End Date:

Job Ticket #: 16960

DST #: 7

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

Printed: 2013.02.02 @ 06:59:14



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16960

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 40

**Interval: 3730.00 ft (KB) To 3741.00 ft (KB) (TVD)**

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3741.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8405 Outside**

Press @ Run Depth: 1170.38 psia @ 3738.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.01

End Date:

2013.02.01

Last Calib.:

2013.02.02

Start Time: 11:00:00

End Time:

18:53:30

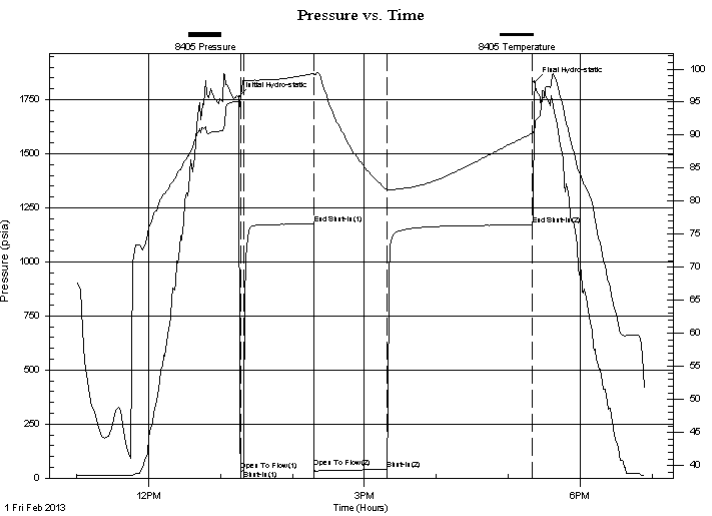
Time On Btm:

2013.02.01 @ 13:15:30

Time Off Btm:

2013.02.01 @ 17:22:00

**TEST COMMENT:** 1st Open/ 2 minutes. Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute  
 1st Shut In/ 60 minutes. No blow back  
 2nd Open/ 60 minutes. Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute. Gas in 4  
 2nd Shut In/ 120 Minutes. weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1763.88	95.14	Initial Hydro-static
2	38.33	96.08	Open To Flow (1)
4	35.52	98.30	Shut-In(1)
62	1176.25	99.34	End Shut-In(1)
63	48.37	99.10	Open To Flow (2)
124	39.11	81.72	Shut-In(2)
245	1170.38	90.29	End Shut-In(2)
247	1832.76	91.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.56

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	2.15	61.81
Last Gas Rate	1.00	3.83	110.11
Max. Gas Rate	1.00	3.83	110.11



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

ATTN: Ryan Greenbaum

Job Ticket: 16960

**DST#: 7**

Test Start: 2013.02.02 @ 00:00:00

## GENERAL INFORMATION:

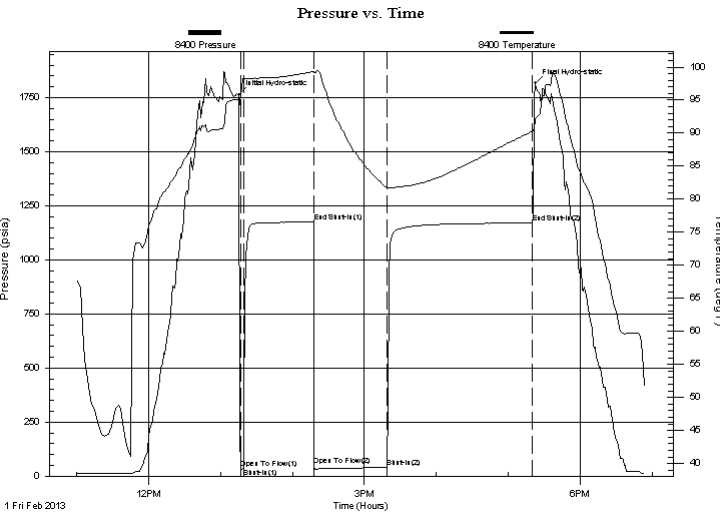
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened:  
 Tester: Shane Konzem  
 Time Test Ended:  
 Unit No: 3330 Great Bend/ 40  
 Interval: **3730.00 ft (KB) To 3741.00 ft (KB) (TVD)**  
 Reference Elevations: 1996.00 ft (KB)  
 Total Depth: 3741.00 ft (KB) (TVD)  
 1988.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

## Serial #: 8400

Inside

Press @ Run Depth: 1170.38 psia @ 3737.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.02.01 End Date: 2013.02.01 Last Calib.: 2013.02.02  
 Start Time: 11:00:00 End Time: 18:53:30 Time On Btm: 2013.02.01 @ 13:15:30  
 Time Off Btm: 2013.02.01 @ 17:22:30

**TEST COMMENT:** 1st Open/ 2 minutes. Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute  
 1st Shut In/ 60 minutes. No blow back  
 2nd Open/ 60 minutes. Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute. Gas in 4  
 2nd Shut In/ 120 Minutes. weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1763.88	95.14	Initial Hydro-static
2	38.33	96.08	Open To Flow (1)
4	35.52	98.30	Shut-In(1)
62	1176.25	99.34	End Shut-In(1)
63	48.37	99.10	Open To Flow (2)
124	39.11	81.72	Shut-In(2)
245	1170.38	90.29	End Shut-In(2)
247	1816.26	91.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.56

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	2.15	61.81
Last Gas Rate	1.00	3.83	110.11
Max. Gas Rate	1.00	3.83	110.11





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16960

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3737.00 ft	Diameter: 3.80 inches	Volume: 52.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 52.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3730.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3712.00	
Hydraulic Tool	5.00			3717.00	
Jars	6.00			3723.00	
Safety Joint	2.00			3725.00	
Packer	0.00			3725.00	23.00 Bottom Of Top Packer
Packer	5.00			3730.00	
Anchor	6.00			3736.00	
Recorder	1.00	8400	Inside	3737.00	
Recorder	1.00	8405	Outside	3738.00	
Bullnose	3.00			3741.00	11.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>34.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16960

**DST#: 7**

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4200.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling Mud	0.561

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

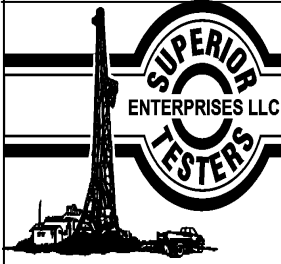
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16960

**DST#: 7**

ATTN: Ryan Greenbaum

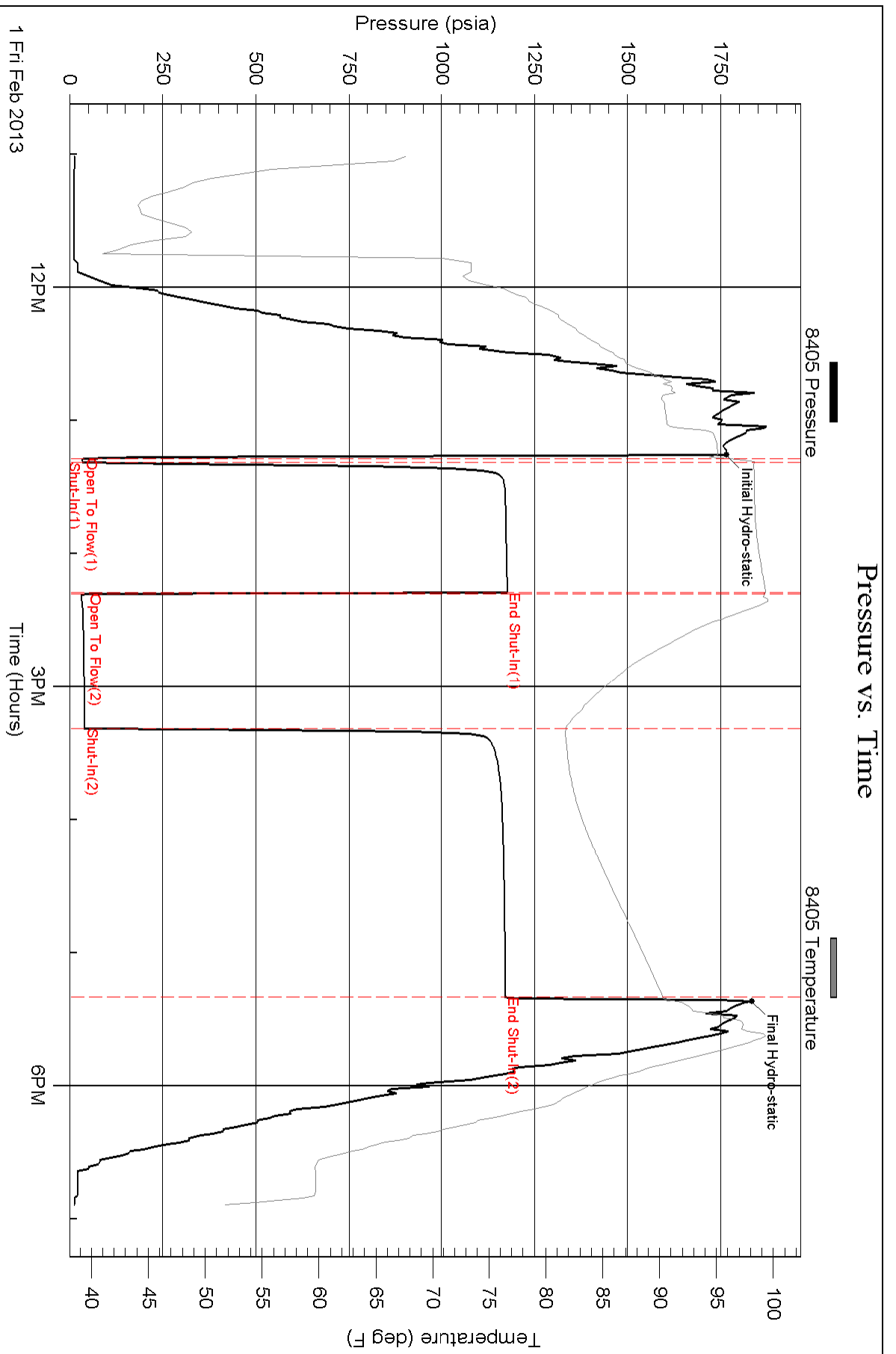
Test Start: 2013.02.02 @ 00:00:00

## Gas Rates Information

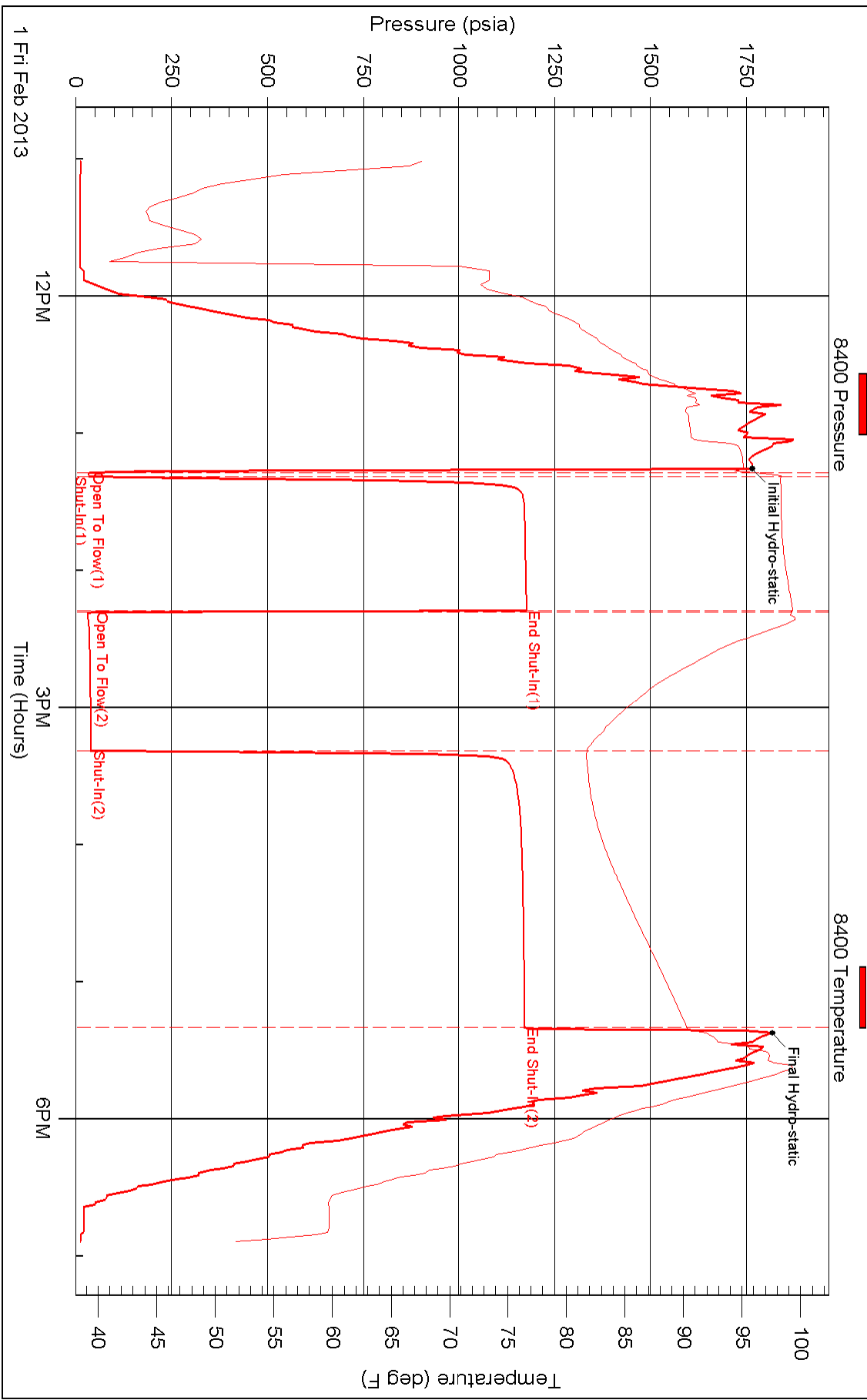
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	1.00	2.15	61.81
2	20	1.00	3.83	110.11
2	30	1.00	3.83	110.11
2	40	1.00	3.83	110.11
2	50	1.00	3.83	110.11
2	55	1.00	3.83	110.11



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family #1-15**

#### **15-20s-15w Barton**

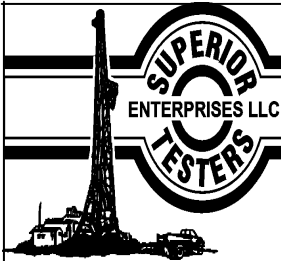
Start Date: 2013.02.02 @ 00:00:00

End Date: 2013.02.02 @ 00:00:00

Job Ticket #: 16961                      DST #: 8

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

Printed: 2013.02.02 @ 20:04:52



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16961

**DST#: 8**

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 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: Shane Konzem

Unit No: 3330 Great Bend/ 40

**Interval: 3739.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400**

**Inside**

Press @ Run Depth: 1089.99 psia @ 3751.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.02

End Date: 2013.02.02

Last Calib.: 2013.02.02

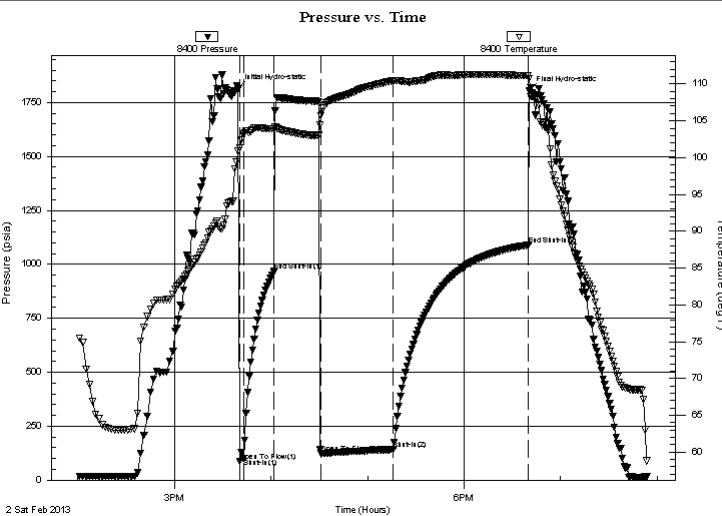
Start Time: 14:00:00

End Time: 19:54:00

Time On Btm: 2013.02.02 @ 15:39:30

Time Off Btm: 2013.02.02 @ 18:40:30

**TEST COMMENT:** 1st Open/ 2 Minutes. Good blow to the bottom of a 5 gallon bucket in less than 3 minute.  
1st Shut In/ 45 Minutes. No blow back  
2nd Open/ 45 Minutes. fair blow built to 6 inches into the water  
2nd Shut In/ 90 Minutes. Weak Blow back to 1/4 inch in bucket



## PRESSURE SUMMARY

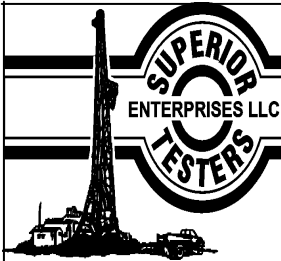
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1813.07	100.89	Initial Hydro-static
1	86.31	101.37	Open To Flow (1)
4	101.78	103.26	Shut-In(1)
23	969.23	103.92	End Shut-In(1)
52	124.32	105.73	Open To Flow (2)
97	142.51	110.45	Shut-In(2)
181	1089.99	111.15	End Shut-In(2)
181	1804.42	110.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
225.00	Drilling Mud	3.16
800.00	Gas in the pipe	11.22

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16961

**DST#: 8**

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 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: 3739.00 ft (KB) To 3750.00 ft (KB) (TVD)**

Total Depth: 3750.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 40

Reference Elevations: 1996.00 ft (KB)

1988.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8405 Outside**

Press @ Run Depth: 1089.45 psia @ 3752.00 ft (KB)

Start Date: 2013.02.02

End Date: 2013.02.02

Start Time: 15:00:00

End Time: 20:55:00

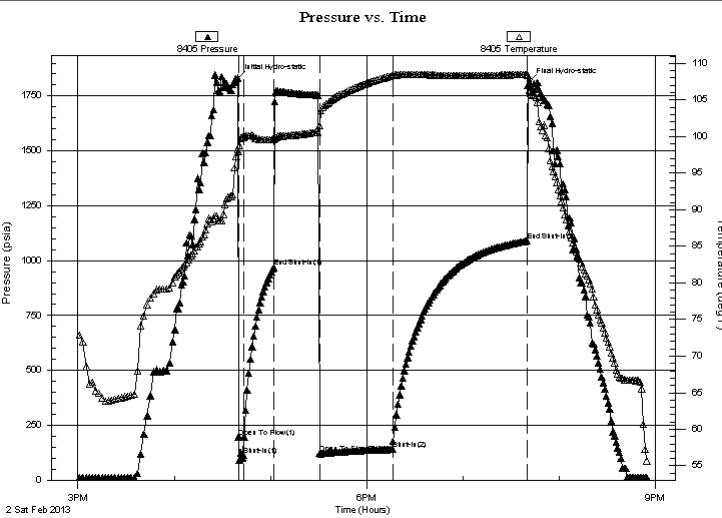
Capacity: 5000.00 psia

Last Calib.: 2013.02.02

Time On Btm: 2013.02.02 @ 16:39:30

Time Off Btm: 2013.02.02 @ 19:41:30

**TEST COMMENT:** 1st Open/ 2 Minutes. Good blow to the bottom of a 5 gallon bucket in less than 3 minute.  
1st Shut In/ 45 Minutes. No blow back  
2nd Open/ 45 Minutes. fair blow built to 6 inches into the water  
2nd Shut In/ 90 Minutes. Weak Blow back to 1/4 inch in bucket



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1831.39	98.22	Initial Hydro-static
1	197.69	97.89	Open To Flow (1)
4	112.93	99.86	Shut-In(1)
23	969.66	99.62	End Shut-In(1)
52	121.50	101.53	Open To Flow (2)
97	141.41	108.31	Shut-In(2)
181	1089.45	108.48	End Shut-In(2)
182	1813.17	106.28	Final Hydro-static

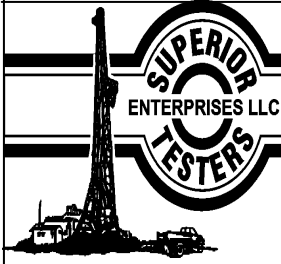
## Recovery

Length (ft)	Description	Volume (bbl)
225.00	Drilling Mud	3.16
800.00	Gas in the pipe	11.22

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.

15-20s-15w Barton

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

Schmitt Family #1-15

Job Ticket: 16961

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

## 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: 52000.00 lb
			<u>Total Volume: 52.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3739.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3721.00	
Hydraulic Tool	5.00			3726.00	
Jars	6.00			3732.00	
Safety Joint	2.00			3734.00	
Packer	0.00			3734.00	23.00 Bottom Of Top Packer
Packer	5.00			3739.00	
Anchor	11.00			3750.00	
Recorder	1.00	8400	Inside	3751.00	
Recorder	1.00	8405	Outside	3752.00	
Bullnose	3.00			3755.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>39.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16961

**DST#: 8**

ATTN: Ryan Greenbaum

Test Start: 2013.02.02 @ 00:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 65.00 sec/qt  
Water Loss: 8.00 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: psia

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
225.00	Drilling Mud	3.156
800.00	Gas in the pipe	11.222

Total Length: 1025.00 ft      Total Volume: 14.378 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

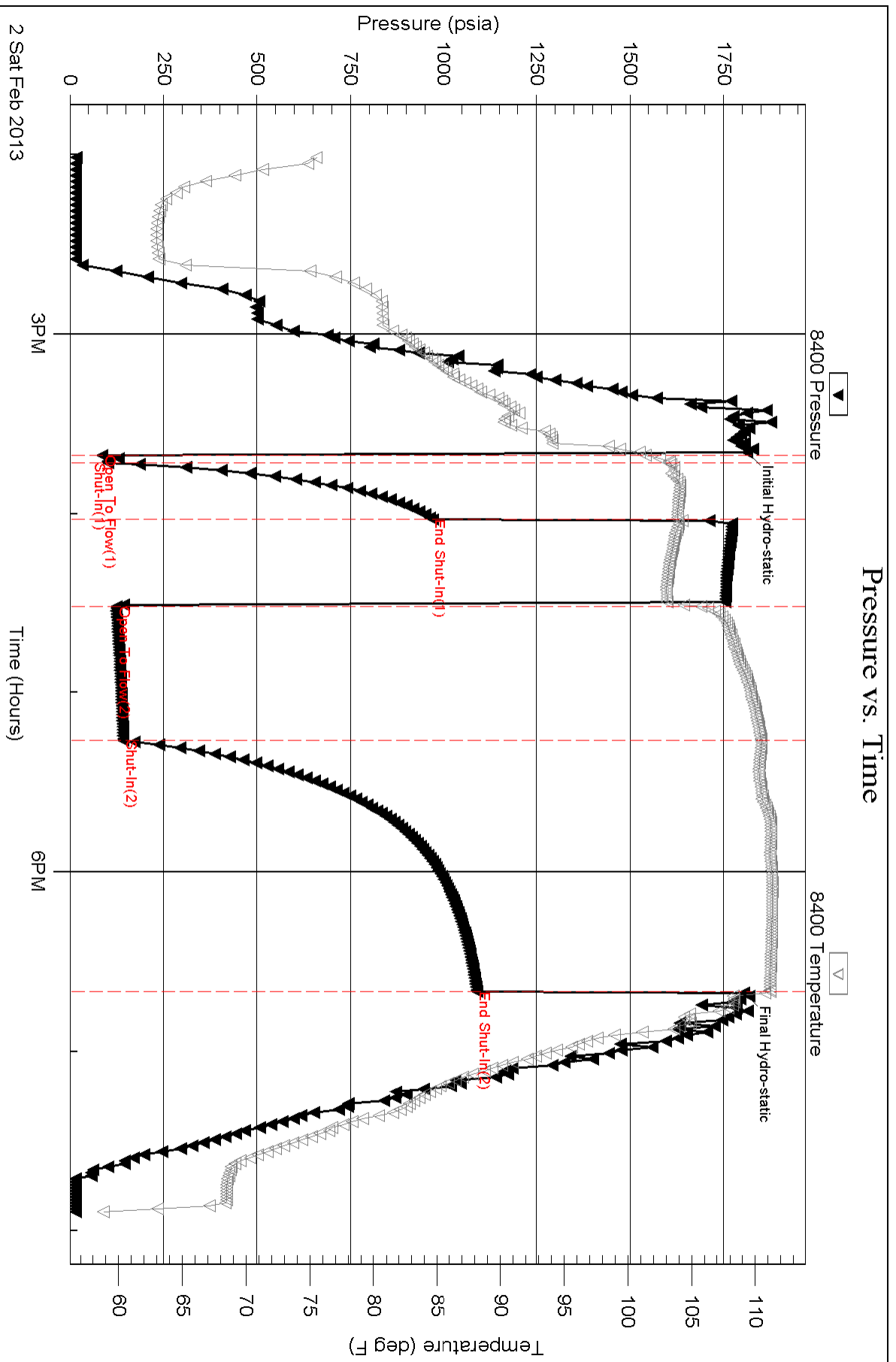
Serial #:

Laboratory Name:

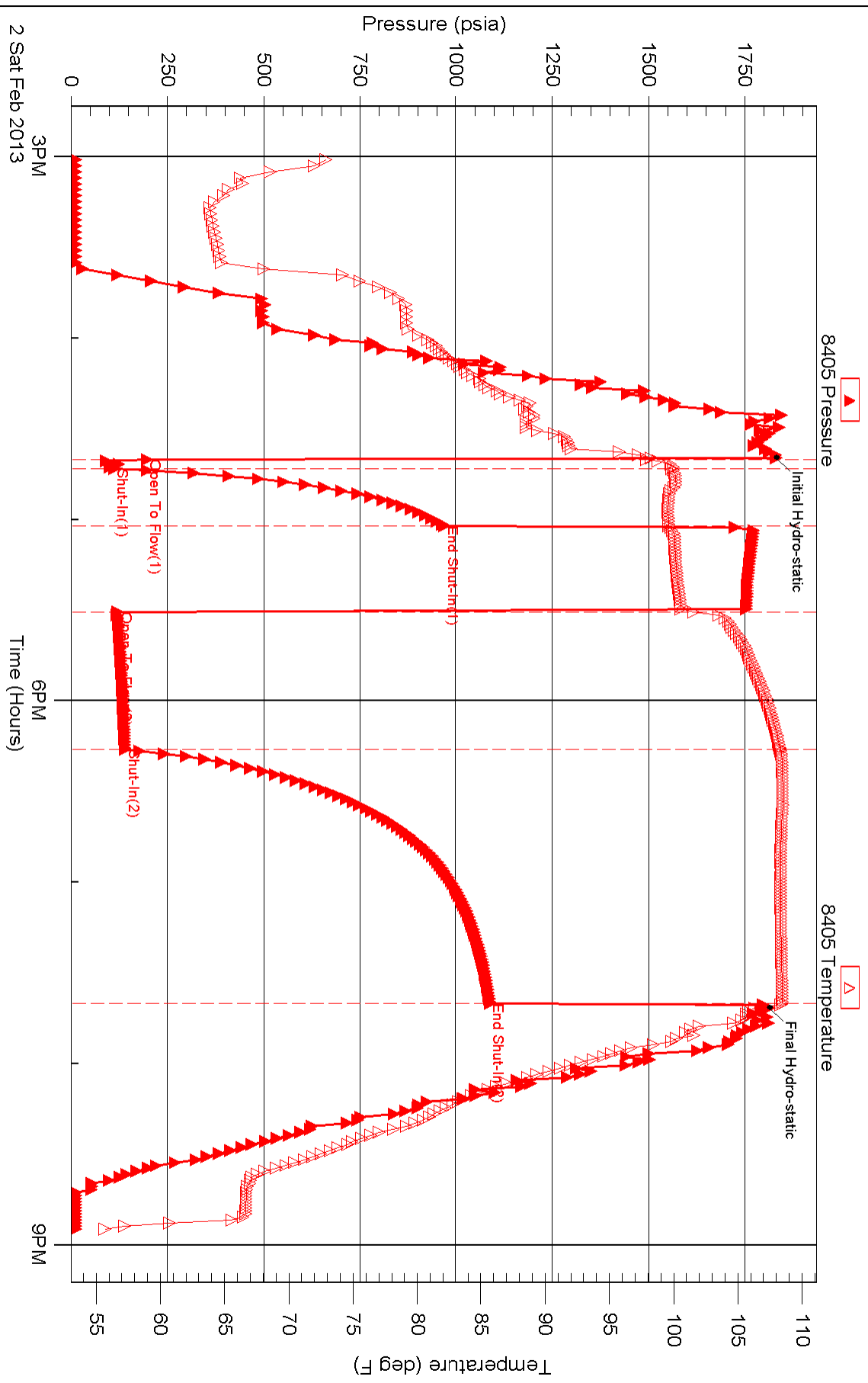
Laboratory Location:

Recovery Comments:

# Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

### **Schmitt Family #1-15**

#### **15-20s-15w Barton**

Start Date: 2013.02.03 @ 00:00:00

End Date:

Job Ticket #: 16962

DST #: 9

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

Printed: 2013.02.03 @ 11:06:49



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16962

**DST#: 9**

ATTN: Ryan Greenbaum

Test Start: 2013.02.03 @ 00:00:00

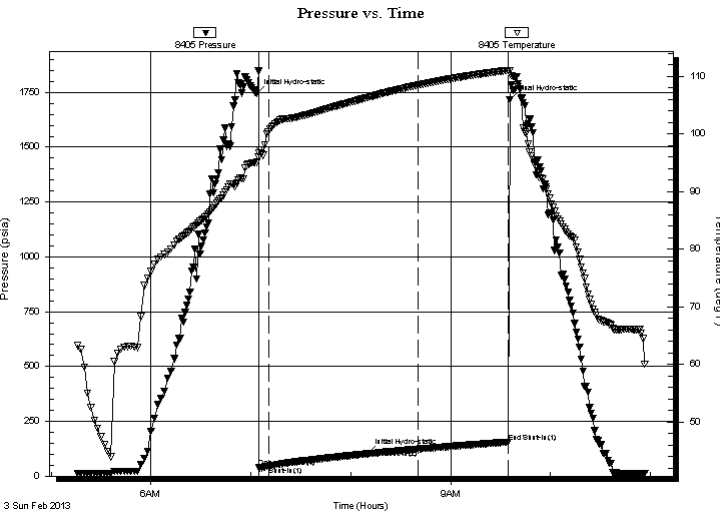
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened:  
 Tester: Shane Konzem  
 Time Test Ended:  
 Unit No: 3330 Great Bend/ 40  
 Interval: **3745.00 ft (KB) To 3760.00 ft (KB) (TVD)**  
 Reference Elevations: 1996.00 ft (KB)  
 Total Depth: 3760.00 ft (KB) (TVD) 1988.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8405 Outside

Press @ Run Depth: 155.39 psia @ 3757.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.02.03 End Date: 2013.02.03 Last Calib.: 2013.02.03  
 Start Time: 05:16:00 End Time: 10:56:30 Time On Btm: 2013.02.03 @ 07:03:30  
 Time Off Btm: 2013.02.03 @ 09:35:30

**TEST COMMENT:** 1st Open/ 5 Minutes. Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 1st Shut In/ 60 Minutes. fair blow back to 4 inches into the water  
 2nd Open/ 30 Minutes/ Fair blow built to the bottom of a 5 gallon bucket in 12 minutes.  
 2nd Shut In/ 60 Minutes/ Fair blow to 4 inches into the water



## PRESSURE SUMMARY

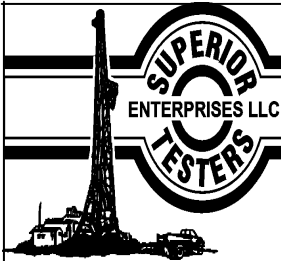
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1743.55	95.12	Initial Hydro-static
2	39.63	96.72	Open To Flow (1)
7	44.75	100.46	Shut-In(1)
67	102.07	106.38	Initial Hydro-static
97	123.42	108.51	Shut-In(2)
151	155.39	111.06	End Shut-In(1)
152	1717.17	110.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1000.00	Gas in the pipe	14.03
20.00	Oil and gas cut mud	0.28
0.00	5%Gas 5% Oil 80%Mud 10%Water	0.00
60.00	4%Gas 1%Oil 40%Mud 55%Water	0.84
120.00	Water w ith a trace of oil	1.68
0.00	chlorides 32000	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

ATTN: Ryan Greenbaum

Job Ticket: 16962

**DST#: 9**

Test Start: 2013.02.03 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330 Great Bend/ 40

**Interval: 3745.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Reference Elevations: 1996.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

1988.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400 Inside**

Press @ Run Depth: 157.16 psia @ 3756.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.02.03

End Date: 2013.02.03

Last Calib.: 2013.02.03

Start Time: 05:16:00

End Time: 10:57:30

Time On Btm: 2013.02.03 @ 07:03:30

Time Off Btm: 2013.02.03 @ 09:35:30

**TEST COMMENT:** 1st Open/ 5 Minutes. Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 1st Shut In/ 60 Minutes. fair blow back to 4 inches into the water  
 2nd Open/ 30 Minutes/ Fair blow built to the bottom of a 5 gallon bucket in 12 minutes.  
 2nd Shut In/ 60 Minutes/ Fair blow to 4 inches into the water



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1791.45	96.63	Initial Hydro-static
2	40.85	98.11	Open To Flow (1)
7	47.24	98.25	Shut-In(1)
67	103.74	103.75	End Shut-In(1)
67	104.11	103.81	Open To Flow (2)
107	130.95	107.75	Shut-In(2)
151	157.16	110.75	End Shut-In(2)
152	1796.99	111.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1000.00	Gas in the pipe	14.03
20.00	Oil and gas cut mud	0.28
0.00	5%Gas 5% Oil 80%Mud 10%Water	0.00
60.00	4%Gas 1%Oil 40%Mud 55%Water	0.84
120.00	Water w ith a trace of oil	1.68
0.00	chlorides 32000	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16962

**DST#: 9**

ATTN: Ryan Greenbaum

Test Start: 2013.02.03 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3737.00 ft	Diameter: 3.80 inches	Volume: 52.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 52.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3745.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

SHut-InTool	5.00		Inside	3727.00	
Hydraulic Tool	5.00			3732.00	
Jars	6.00			3738.00	
Safety Joint	2.00			3740.00	
Packer	0.00			3740.00	23.00 Bottom Of Top Packer
Packer	5.00			3745.00	
Anchor	10.00			3755.00	
Recorder	1.00	8400	Inside	3756.00	
Recorder	1.00	8405	Outside	3757.00	
Bullnose	3.00			3760.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				





# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G.Holl Company L.L.C.

**15-20s-15w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Schmitt Family #1-15**

Job Ticket: 16962

**DST#: 9**

ATTN: Ryan Greenbaum

Test Start: 2013.02.03 @ 00:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 65.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4700.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1000.00	Gas in the pipe	14.027
20.00	Oil and gas cut mud	0.281
0.00	5%Gas 5% Oil 80%Mud 10%Water	0.000
60.00	4%Gas 1%Oil 40%Mud 55%Water	0.842
120.00	Water with a trace of oil	1.683
0.00	chlorides 32000	0.000

Total Length: 1200.00 ft      Total Volume: 16.833 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

