



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1158040
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: _____



1158040

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	JOST 1-29
Doc ID	1158040

All Electric Logs Run

DIL
CDL/CNL
BHCS
CPI
Microresistivity
Fracfinder
Sonic Cement bond log

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	JOST 1-29
Doc ID	1158040

Tops

Name	Top	Datum
Herrington	1916	+59
Winfield	1972	+3
Towanda	2042	-67
Ft. Riley	2084	-109
B/Florence	2180	-205
Kinney Ls	2196	-221
Wrefold	2228	-253
Council Grove	2249	-274
Crouse	2285	-310
Neva	2424	-449
Red Eagle	2482	-507
Onaga Shale	2639	-664
Wabaunsee	2659	-684
Root Shale	2732	-757
Stotler	2789	-814
Tarkio	2847	-872
Howard	2990	-1015
Severy Shale	3040	-1065
Topeka	3062	-1087
Heebner	3352	-1377
Toronto	3369	-1394
Douglas Shale	3386	-1411
Brown Lime	3460	-1485
LKC	3469	-1494

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	JOST 1-29
Doc ID	1158040

Tops

Name	Top	Datum
Drum	3592	-1617
BKC	3700	-1725
Conglomerate	3717	-1742
Chert	3770	-1795
Viola	3801	-1826
Arbuckle	3877	-1902
RTD	4050	-2075

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

September 11, 2013

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

Re: ACO1
API 15-145-21729-00-00
JOST 1-29
SE/4 Sec.29-21S-15W
Pawnee 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 LLC.**

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.17 @ 07:55:00

End Date: 2013.08.17 @ 11:49:30

Job Ticket #: 18424 DST #: 1

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

Printed: 2013.08.17 @ 12:03:06



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18424

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2013.08.17 @ 07:55:00

GENERAL INFORMATION:

Formation: **Herrington/Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:13:00

Time Test Ended: 11:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 1890.00 ft (KB) To 1985.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 1985.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 84.49 psia @ 1980.88 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.17

End Date: 2013.08.17

Last Calib.: 2013.08.17

Start Time: 07:55:00

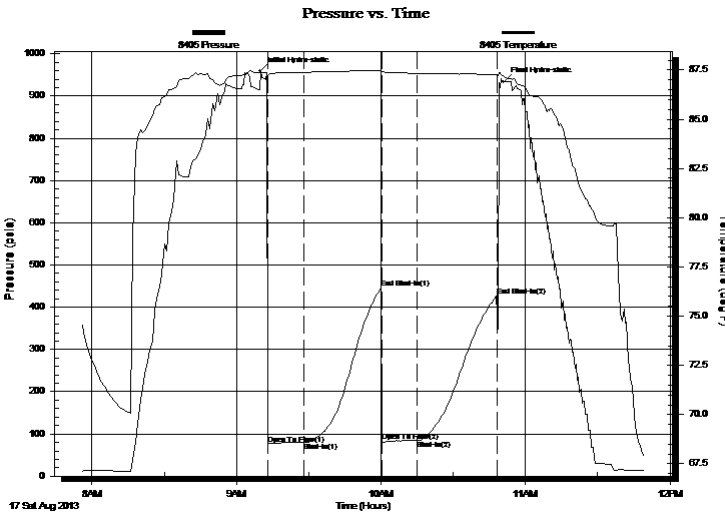
End Time: 11:49:30

Time On Btm: 2013.08.17 @ 09:10:00

Time Off Btm: 2013.08.17 @ 10:51:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 2 1/2 inches in a 5 gallon bucket.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 15 Minutes. Weak blow built to 2 inches in a 5 gallon bucket.
2nd Shut In/ 30 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	959.13	87.37	Initial Hydro-static
3	76.26	87.15	Open To Flow (1)
18	80.84	87.38	Shut-In(1)
50	445.43	87.48	End Shut-In(1)
51	81.93	87.40	Open To Flow (2)
65	84.49	87.33	Shut-In(2)
98	425.58	87.27	End Shut-In(2)
101	933.31	87.15	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
31.00	100% Mud.	0.43

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18424

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2013.08.17 @ 07:55:00

GENERAL INFORMATION:

Formation: **Herrington/Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:13:00

Time Test Ended: 11:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 1890.00 ft (KB) To 1985.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 1985.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 429.25 psia @ 1981.88 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.17

End Date: 2013.08.17

Last Calib.: 2013.08.17

Start Time: 07:55:00

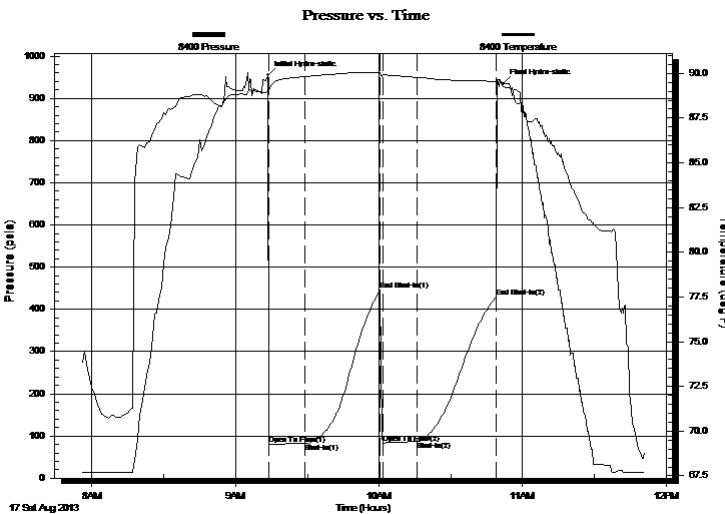
End Time: 11:51:00

Time On Btm: 2013.08.17 @ 09:13:30

Time Off Btm: 2013.08.17 @ 10:52:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 2 1/2 inches in a 5 gallon bucket.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 15 Minutes. Weak blow built to 2 inches in a 5 gallon bucket.
2nd Shut In/ 30 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	955.01	88.92	Initial Hydro-static
1	79.21	89.02	Open To Flow (1)
16	82.95	89.82	Shut-In(1)
47	445.34	90.05	End Shut-In(1)
48	82.36	89.93	Open To Flow (2)
63	86.79	89.77	Shut-In(2)
96	429.25	89.53	End Shut-In(2)
99	934.17	89.25	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
31.00	100% Mud.	0.43

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18424

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2013.08.17 @ 07:55:00

Tool Information

Drill Pipe:	Length: 1892.00 ft	Diameter: 3.80 inches	Volume: 26.54 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: 50000.00 lb
			<u>Total Volume: 26.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	1890.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.88 ft			
Tool Length:	123.88 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			1862.00	
Shut-In Tool	5.00			1867.00	
Hydroic Tool	5.00			1872.00	
Jars	6.00			1878.00	
Safety Joint	2.00			1880.00	
Packer	5.00			1885.00	29.00 Bottom Of Top Packer
Packer	5.00			1890.00	
Perforations	0.00			1890.00	
Change Over Sub	0.75			1890.75	
Drill Pipe	63.38			1954.13	
Change Over Sub	0.75			1954.88	
Perforations	25.00			1979.88	
Recorder	1.00	8405	Inside	1980.88	
Recorder	1.00	8400	Outside	1981.88	
Bullnose	3.00			1984.88	94.88 Bottom Packers & Anchor

Total Tool Length: 123.88



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18424

DST#: 1

ATTN: Frank Greenbaum

Test Start: 2013.08.17 @ 07:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 42.00 sec/qt
Water Loss: 10.80 in³
Resistivity: ohm.m
Salinity: 22000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
31.00	100% Mud.	0.435

Total Length: 31.00 ft Total Volume: 0.435 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

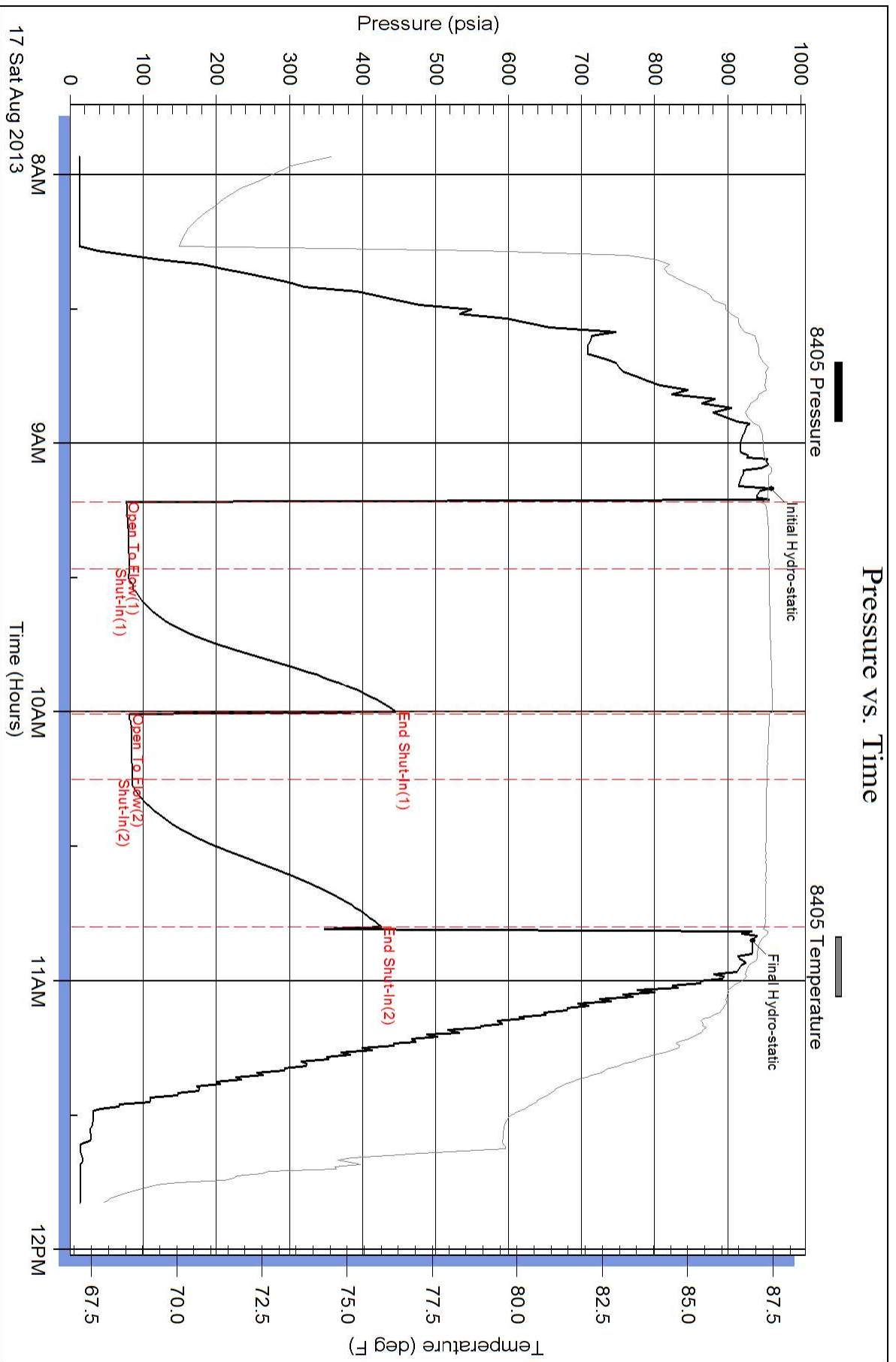
Serial #:

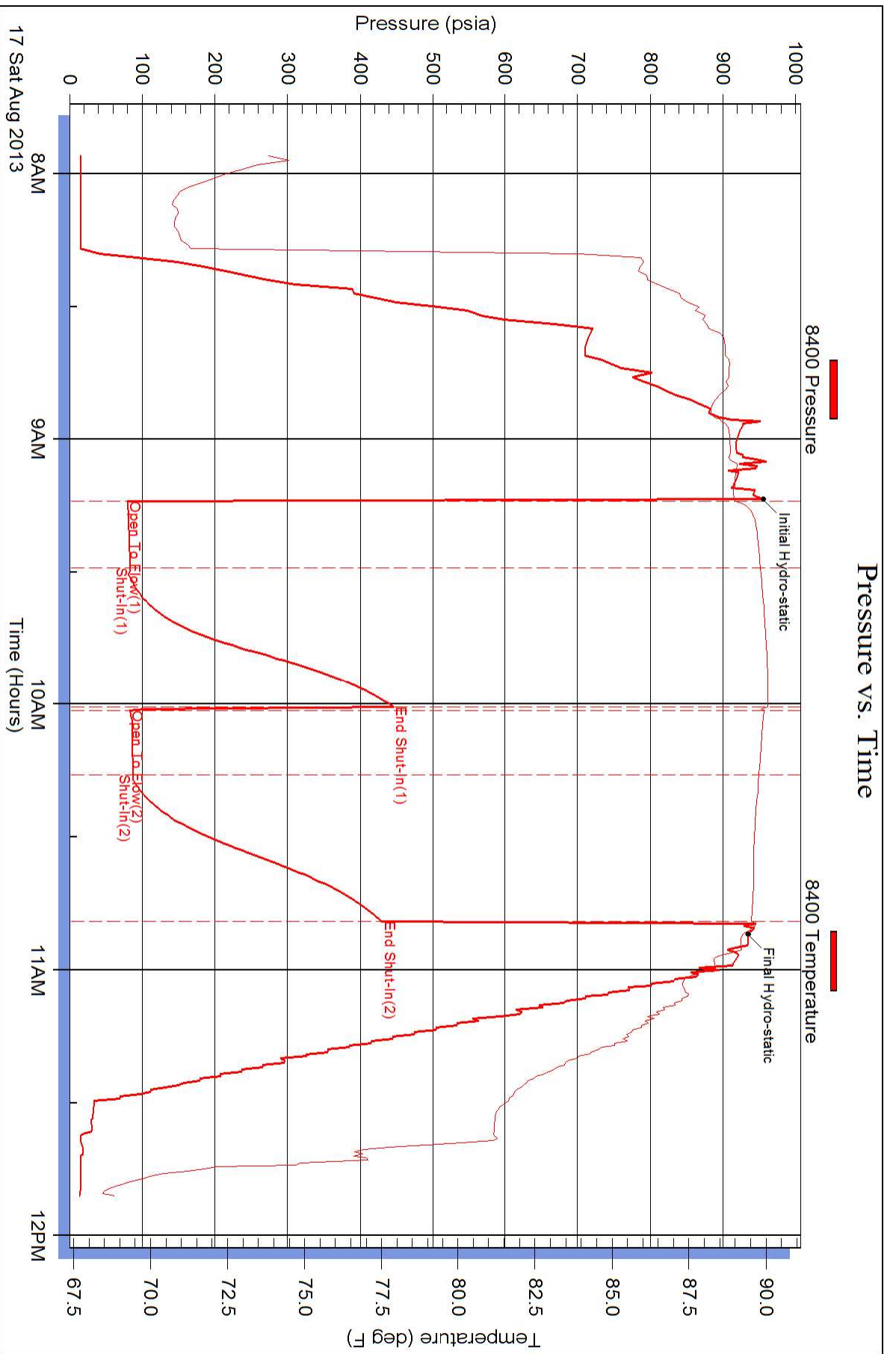
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.18 @ 02:27:00

End Date: 2013.08.18 @ 08:13:30

Job Ticket #: 18425 DST #: 2

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

Printed: 2013.08.18 @ 08:27:05



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18425

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.08.18 @ 02:27:00

GENERAL INFORMATION:

Formation: **Crause**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:37:30

Time Test Ended: 08:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2244.00 ft (KB) To 2300.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2300.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ RunDepth: 90.24 psia @ 2296.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.18

End Date: 2013.08.18

Last Calib.: 2013.08.18

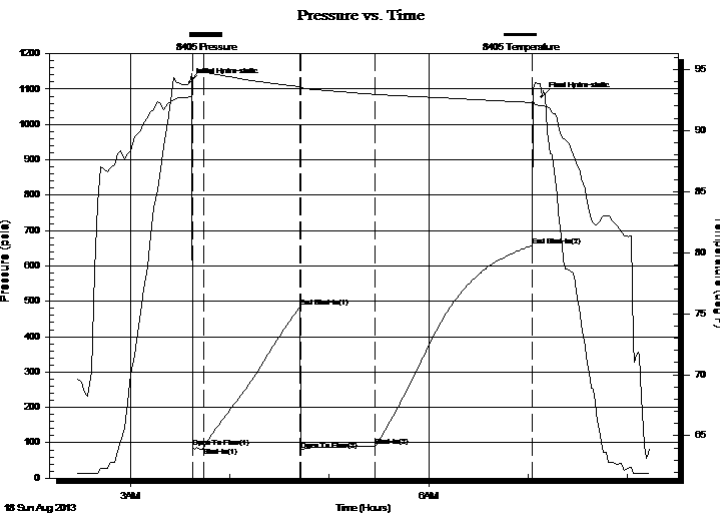
Start Time: 02:27:00

End Time: 08:13:30

Time On Btm: 2013.08.18 @ 03:35:30

Time Off Btm: 2013.08.18 @ 07:08:30

TEST COMMENT: 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
2nd SHut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

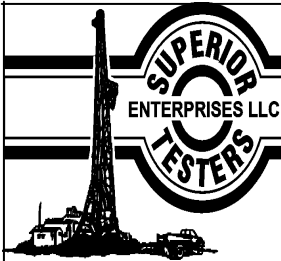
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1118.13	92.73	Initial Hydro-static
2	85.92	94.05	Open To Flow (1)
9	87.13	94.75	Shut-In(1)
67	482.79	93.59	End Shut-In(1)
67	79.15	93.48	Open To Flow (2)
112	90.24	92.95	Shut-In(2)
207	657.79	92.30	End Shut-In(2)
213	1078.52	92.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
80.00	100% mud.	1.12

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18425

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.08.18 @ 02:27:00

GENERAL INFORMATION:

Formation: **Crause**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:37:30

Time Test Ended: 08:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2244.00 ft (KB) To 2300.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2300.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 658.85 psia @ 2297.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.18

End Date: 2013.08.18

Last Calib.: 2013.08.18

Start Time: 02:27:00

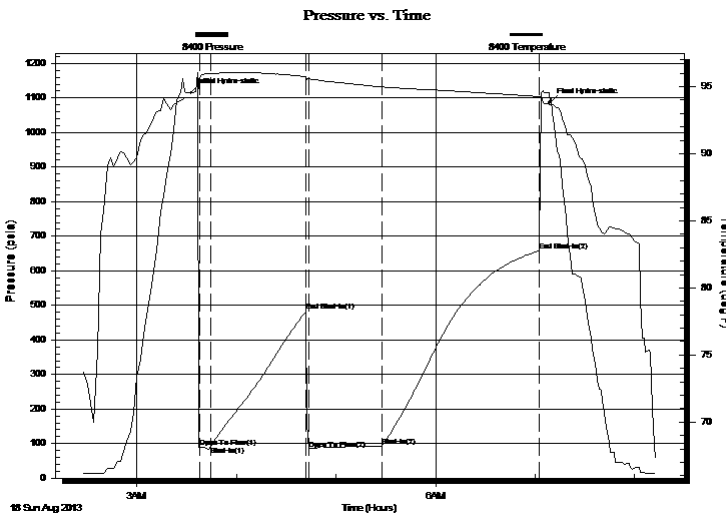
End Time: 08:13:00

Time On Btm: 2013.08.18 @ 03:32:30

Time Off Btm: 2013.08.18 @ 07:09:00

TEST COMMENT: 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
2nd SHut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1114.19	94.21	Initial Hydro-static
5	88.87	95.48	Open To Flow (1)
12	92.39	95.97	Shut-In(1)
70	483.66	95.74	End Shut-In(1)
71	82.65	95.57	Open To Flow (2)
115	92.57	94.97	Shut-In(2)
210	658.85	94.26	End Shut-In(2)
217	1086.58	93.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
80.00	100% mud.	1.12

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18425

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.08.18 @ 02:27:00

Tool Information

Drill Pipe:	Length: 2235.00 ft	Diameter: 3.80 inches	Volume: 31.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 31.35 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2244.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.50 ft			
Tool Length:	85.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2216.00	
Shut-In Tool	5.00			2221.00	
Hydroic Tool	5.00			2226.00	
Jars	6.00			2232.00	
Safety Joint	2.00			2234.00	
Packer	5.00			2239.00	29.00 Bottom Of Top Packer
Packer	5.00			2244.00	
Perforations	5.00			2249.00	
Change Over Sub	0.75			2249.75	
Drill Pipe	31.00			2280.75	
Change Over Sub	0.75			2281.50	
Perforations	14.00			2295.50	
Recorder	1.00	8405	Inside	2296.50	
Recorder	1.00	8400	Outside	2297.50	
Bullnose	3.00			2300.50	56.50 Bottom Packers & Anchor

Total Tool Length: 85.50



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18425

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.08.18 @ 02:27:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 42.00 sec/qt
Water Loss: 10.80 in³
Resistivity: ohm.m
Salinity: 22000.00 ppm
Filter Cake: 4.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
80.00	100% mud.	1.122

Total Length: 80.00 ft Total Volume: 1.122 bbl

Num Fluid Samples: 0

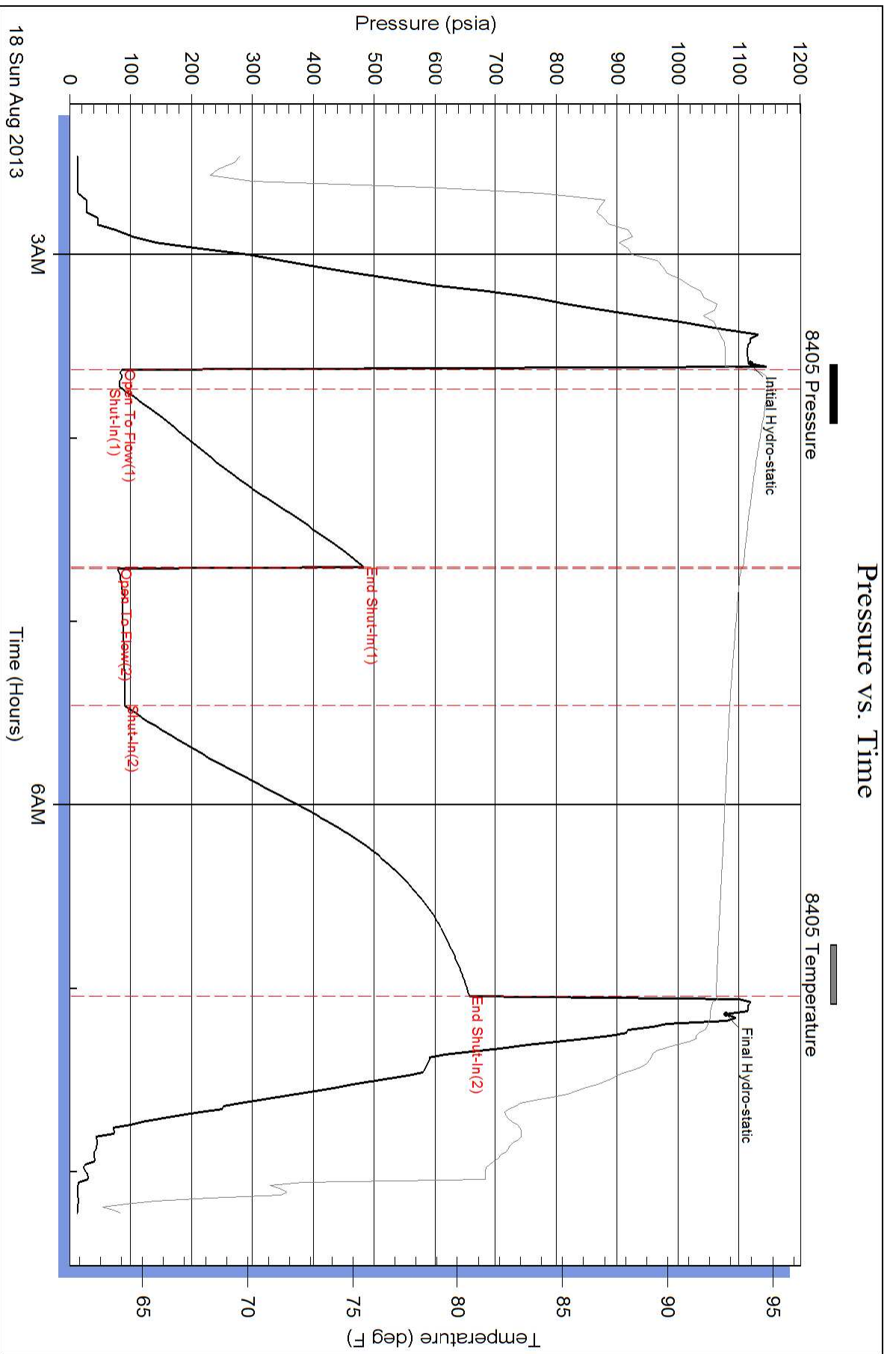
Num Gas Bombs: 0

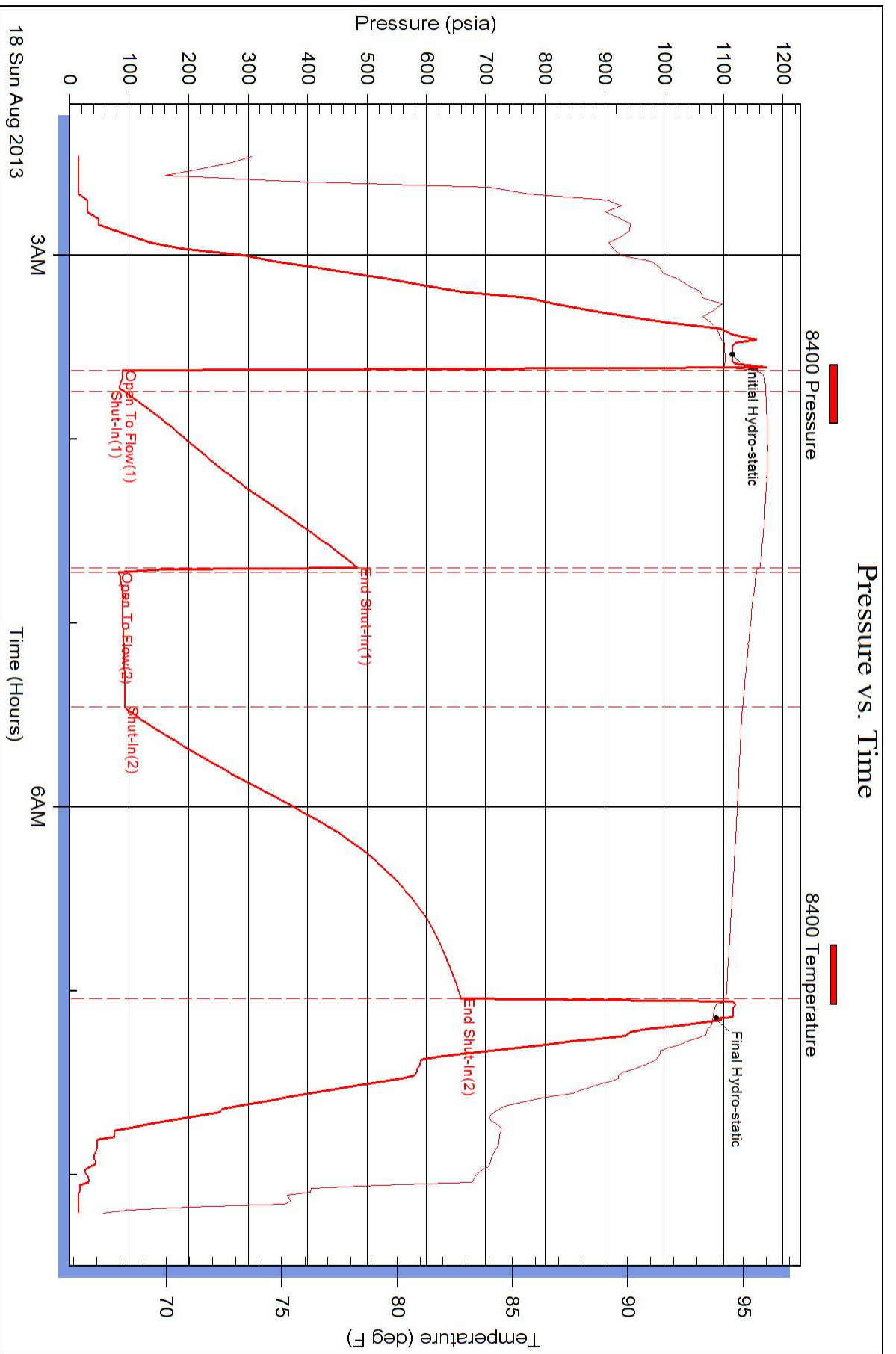
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.19 @ 21:35:00

End Date: 2013.08.20 @ 03:26:00

Job Ticket #: 18476 DST #: 3

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

Printed: 2013.08.19 @ 01:48:07



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18476

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.08.19 @ 21:35:00

GENERAL INFORMATION:

Formation: **Neva/ Red Eagle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:03:30

Time Test Ended: 03:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2432.00 ft (KB) To 2532.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2532.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 832.83 psia @ 2518.13 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.19

End Date: 2013.08.20

Last Calib.: 2013.08.19

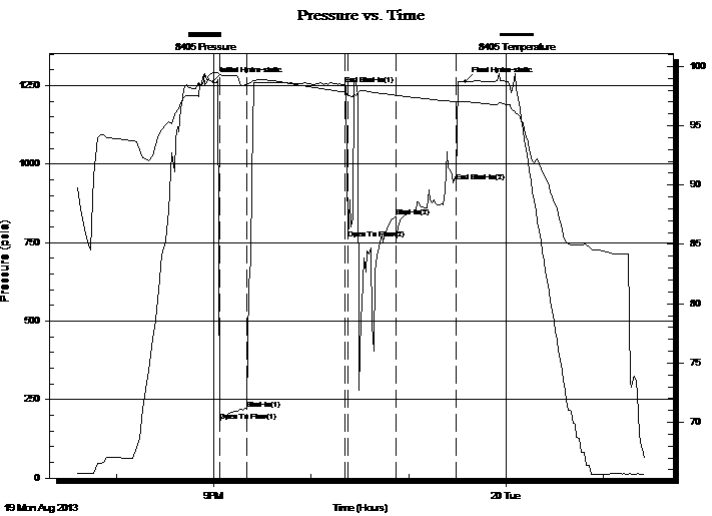
Start Time: 19:35:00

End Time: 01:26:00

Time On Btm: 2013.08.19 @ 20:59:30

Time Off Btm: 2013.08.19 @ 23:35:00

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to bottom of 5 gallon bucket in 11 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow, flushed tool and gained a blow that built to 3 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1261.14	99.44	Initial Hydro-static
4	181.37	99.29	Open To Flow (1)
21	219.20	98.49	Shut-In(1)
82	1253.99	97.82	End Shut-In(1)
83	761.26	97.56	Open To Flow (2)
113	832.83	97.56	Shut-In(2)
150	942.55	97.02	End Shut-In(2)
156	1262.81	97.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
315.00	2.5% gas, 97.5% mud	4.42

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18476

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.08.19 @ 21:35:00

GENERAL INFORMATION:

Formation: **Neva/ Red Eagle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:03:30

Time Test Ended: 03:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2432.00 ft (KB) To 2532.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2532.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 949.22 psia @ 2519.13 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.19

End Date:

2013.08.20

Last Calib.:

2013.08.19

Start Time: 19:35:00

End Time:

01:26:30

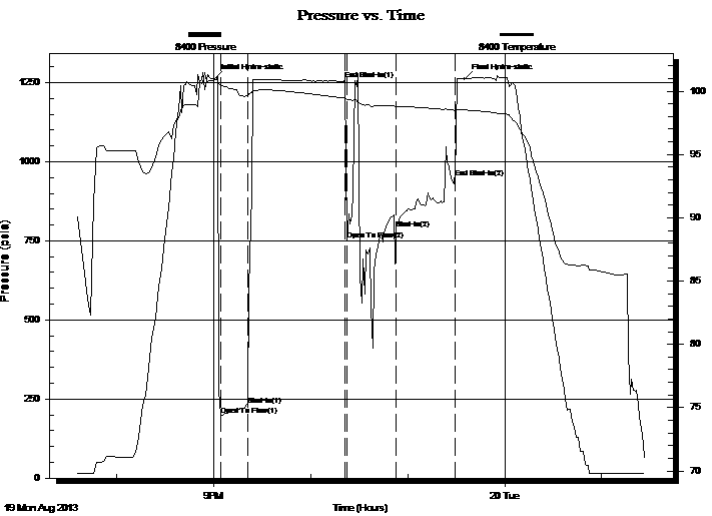
Time On Btm:

2013.08.19 @ 21:00:30

Time Off Btm:

2013.08.19 @ 23:35:30

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to bottom of 5 gallon bucket in 11 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow, flushed tool and gained a blow that built to 3 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1261.39	100.88	Initial Hydro-static
4	197.83	100.48	Open To Flow (1)
21	230.27	99.59	Shut-In(1)
81	1258.42	99.44	End Shut-In(1)
82	752.60	99.31	Open To Flow (2)
113	788.95	98.81	Shut-In(2)
149	949.22	98.49	End Shut-In(2)
155	1262.42	98.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
315.00	2.5% gas, 97.5% mud	4.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18476

DST#: 3

ATTN: Frank Greenbaum

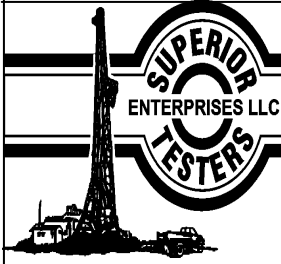
Test Start: 2013.08.19 @ 21:35:00

Tool Information

Drill Pipe:	Length: 2428.00 ft	Diameter: 3.80 inches	Volume: 34.06 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:	50000.00 lb
			<u>Total Volume: 34.06 bbl</u>	Tool Chased	11.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	2432.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.13 ft				
Tool Length:	119.13 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2404.00	
Shut-In Tool	5.00			2409.00	
Hydroic Tool	5.00			2414.00	
Jars	6.00			2420.00	
Safety Joint	2.00			2422.00	
Packer	5.00			2427.00	29.00 Bottom Of Top Packer
Packer	5.00			2432.00	
Perforations	5.00			2437.00	
Change Over Sub	0.75			2437.75	
Drill Pipe	62.63			2500.38	
Change Over Sub	0.75			2501.13	
Perforations	16.00			2517.13	
Recorder	1.00	8405	Inside	2518.13	
Recorder	1.00	8400	Outside	2519.13	
Bullnose	3.00			2522.13	90.13 Bottom Packers & Anchor

Total Tool Length: 119.13



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18476

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.08.19 @ 21:35:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 43.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 26000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
315.00	2.5% gas, 97.5% mud	4.419

Total Length: 315.00 ft Total Volume: 4.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

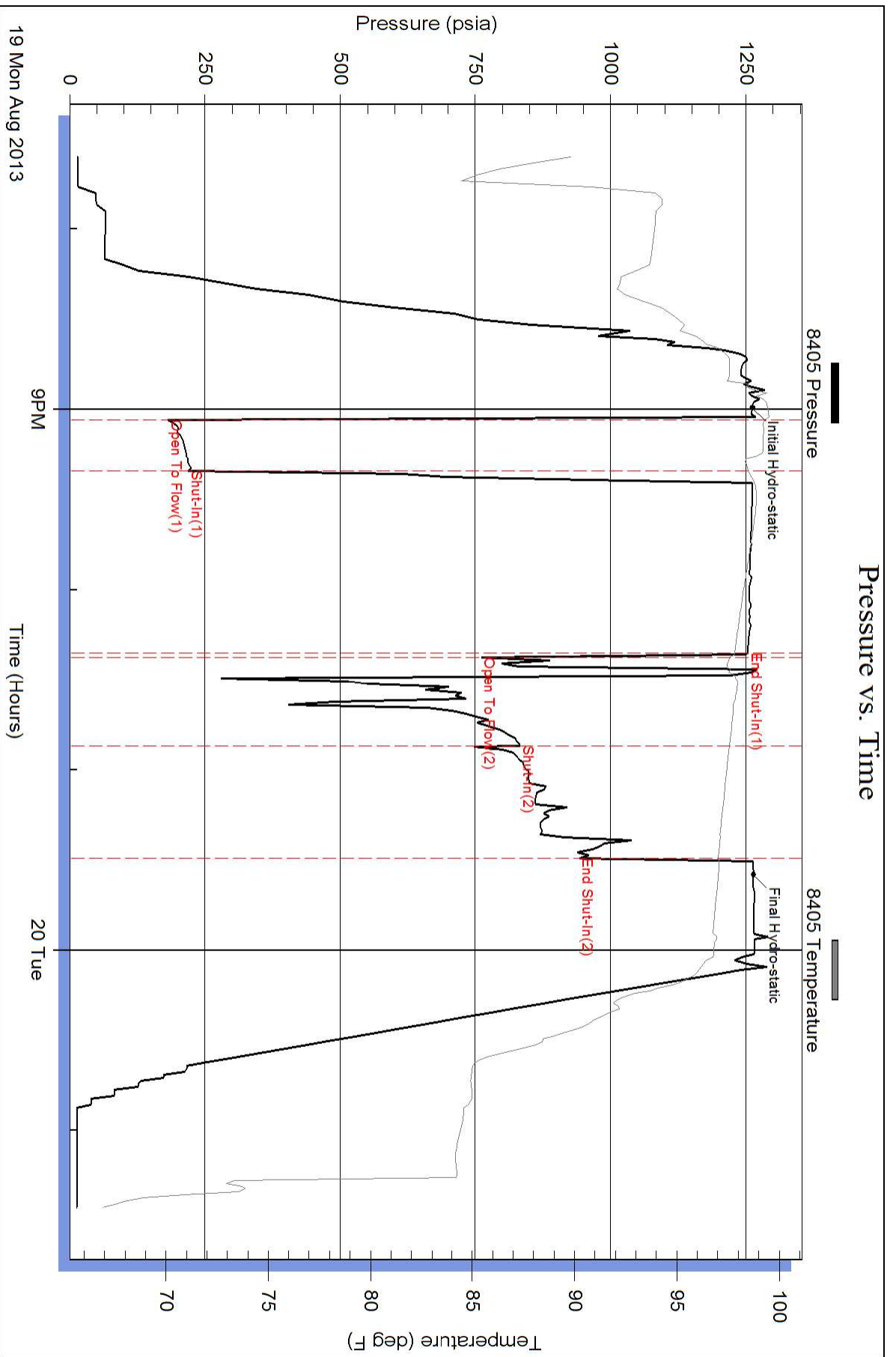
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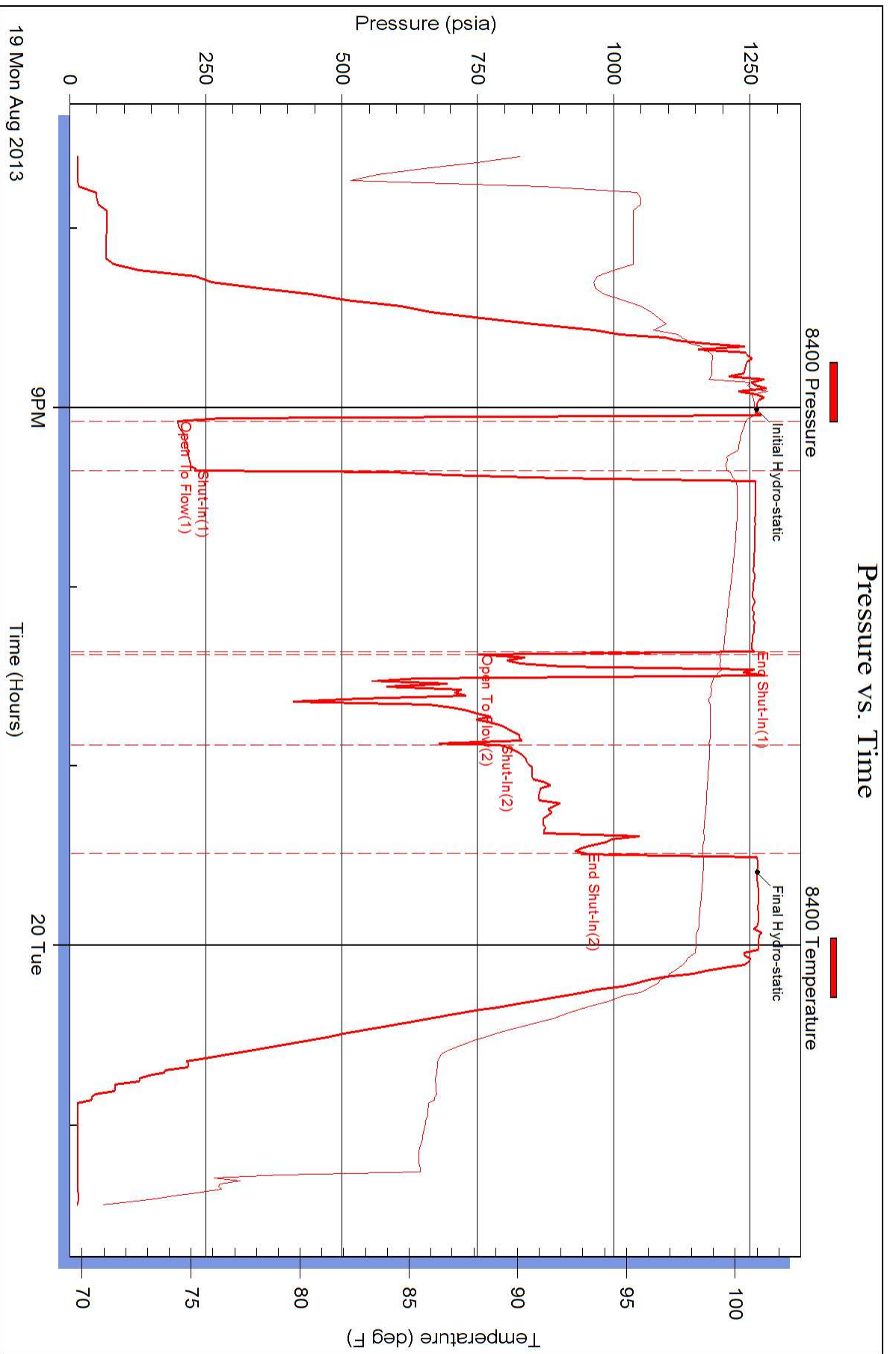
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.20 @ 03:49:00

End Date: 2013.08.20 @ 09:50:30

Job Ticket #: 18477 DST #: 4

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

Printed: 2013.08.20 @ 10:09:08



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18477

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.08.20 @ 03:49:00

GENERAL INFORMATION:

Formation: **Tarkio/Howard**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:21:30

Time Test Ended: 09:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2800.00 ft (KB) To 2994.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2994.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 1394.99 psia @ 2990.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.20

End Date: 2013.08.20

Last Calib.: 2013.08.20

Start Time: 03:49:00

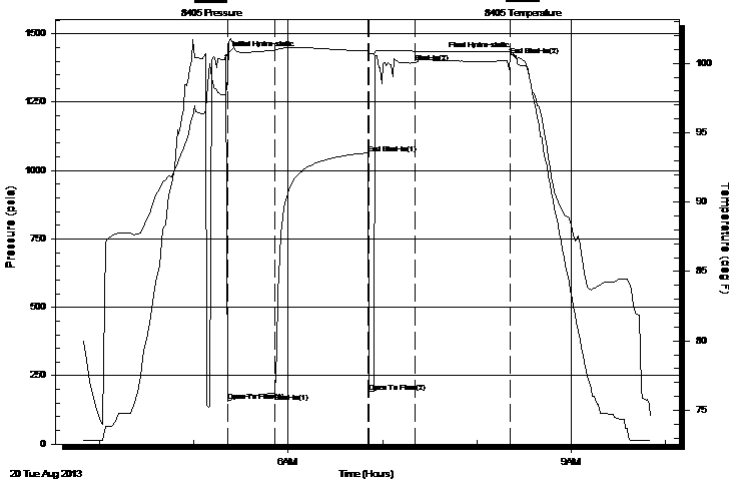
End Time: 09:50:30

Time On Btm: 2013.08.20 @ 05:20:30

Time Off Btm: 2013.08.20 @ 08:25:00

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to 10 Inches in 5 gallon bucket.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow, flushed tool and gained a 2 inche blow in a 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1420.08	97.73	Initial Hydro-static
1	155.85	98.94	Open To Flow (1)
31	187.89	100.93	Shut-In(1)
90	1062.52	100.88	End Shut-In(1)
91	190.76	100.72	Open To Flow (2)
121	1394.99	100.88	Shut-In(2)
181	1421.43	100.82	End Shut-In(2)
185	1414.74	100.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
140.00	100% Mud.	1.96

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18477

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.08.20 @ 03:49:00

GENERAL INFORMATION:

Formation: **Tarkio/Howard**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:21:30

Time Test Ended: 09:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2800.00 ft (KB) To 2994.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2994.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1393.81 psia @ 2991.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.20

End Date: 2013.08.20

Last Calib.: 2013.08.20

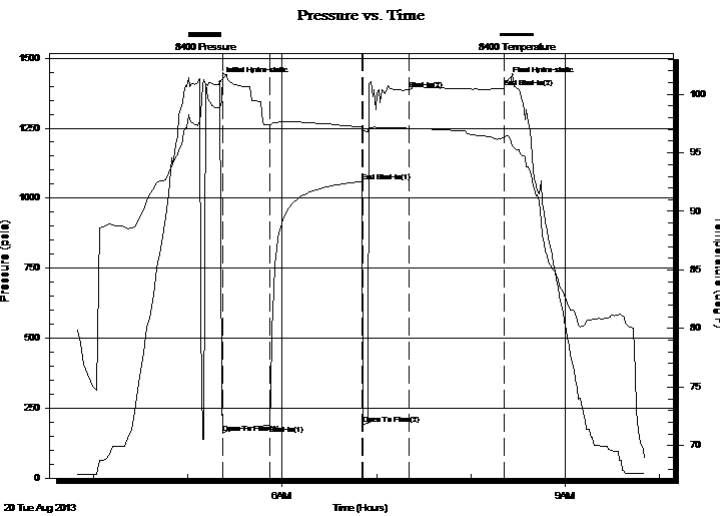
Start Time: 03:49:00

End Time: 09:51:00

Time On Btm: 2013.08.20 @ 05:20:30

Time Off Btm: 2013.08.20 @ 08:22:30

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to 10 Inches in 5 gallon bucket.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow, flushed tool and gained a 2 inche blow in a 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1416.08	98.82	Initial Hydro-static
2	161.31	101.87	Open To Flow (1)
32	190.39	97.37	Shut-In(1)
90	1059.38	97.18	End Shut-In(1)
91	192.33	96.90	Open To Flow (2)
121	1387.34	97.09	Shut-In(2)
181	1393.81	96.28	End Shut-In(2)
182	1414.85	96.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
140.00	100% Mud.	1.96

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18477

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.08.20 @ 03:49:00

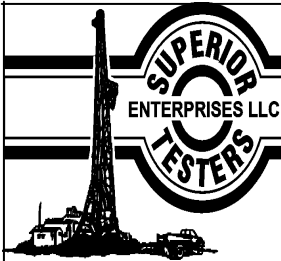
Tool Information

Drill Pipe:	Length: 2801.00 ft	Diameter: 3.80 inches	Volume: 39.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 39.29 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2800.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	194.50 ft			
Tool Length:	223.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2772.00	
Shut-In Tool	5.00			2777.00	
Hydroic Tool	5.00			2782.00	
Jars	6.00			2788.00	
Safety Joint	2.00			2790.00	
Packer	5.00			2795.00	29.00 Bottom Of Top Packer
Packer	5.00			2800.00	
Perforations	5.00			2805.00	
Change Over Sub	0.75			2805.75	
Drill Pipe	155.00			2960.75	
Change Over Sub	0.75			2961.50	
Perforations	28.00			2989.50	
Recorder	1.00	8405	Inside	2990.50	
Recorder	1.00	8400	Outside	2991.50	
Bullnose	3.00			2994.50	194.50 Bottom Packers & Anchor

Total Tool Length: 223.50



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18477

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2013.08.20 @ 03:49:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 8.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 19000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
140.00	100% Mud.	1.964

Total Length: 140.00 ft Total Volume: 1.964 bbl

Num Fluid Samples: 0

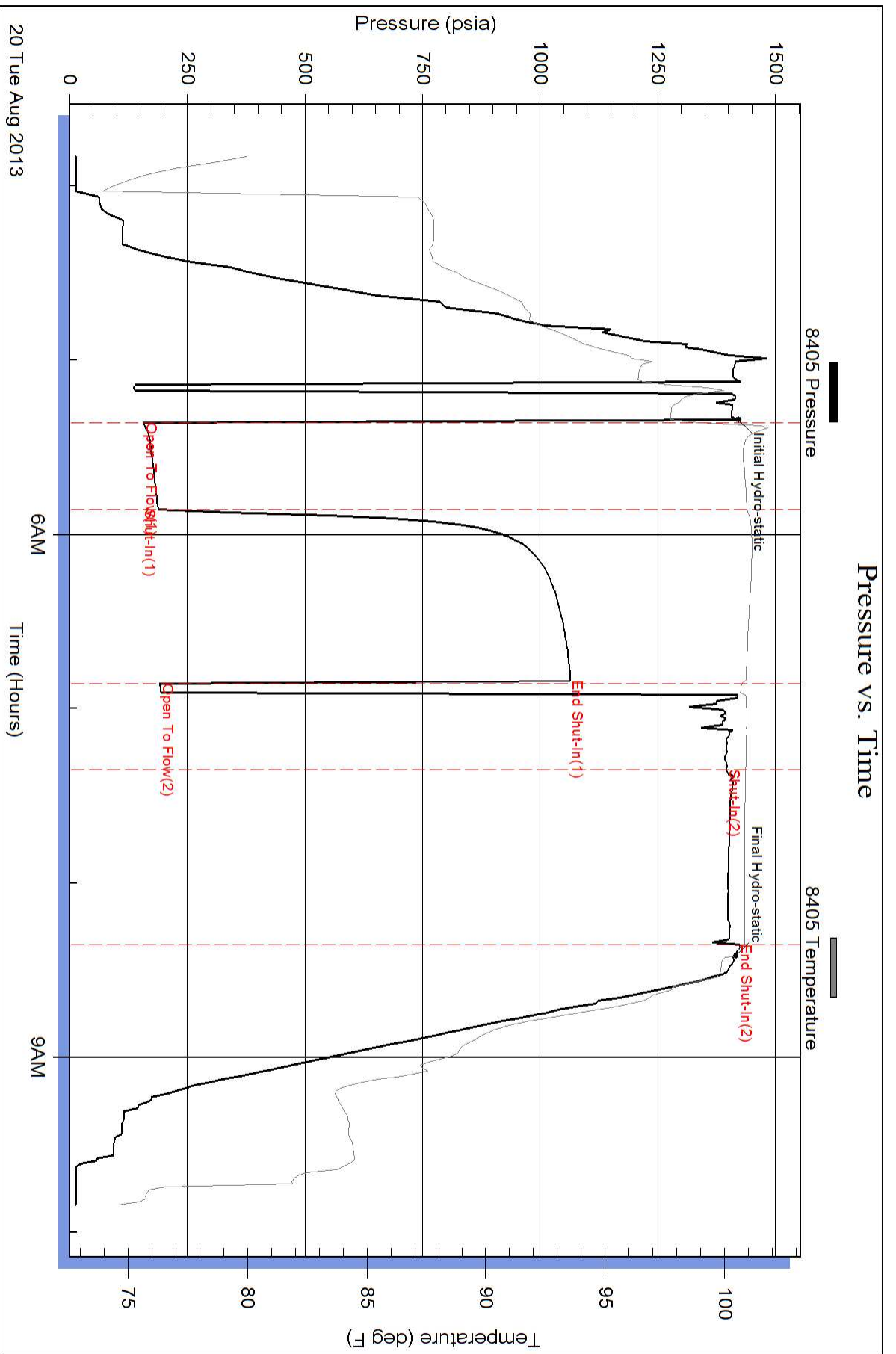
Num Gas Bombs: 0

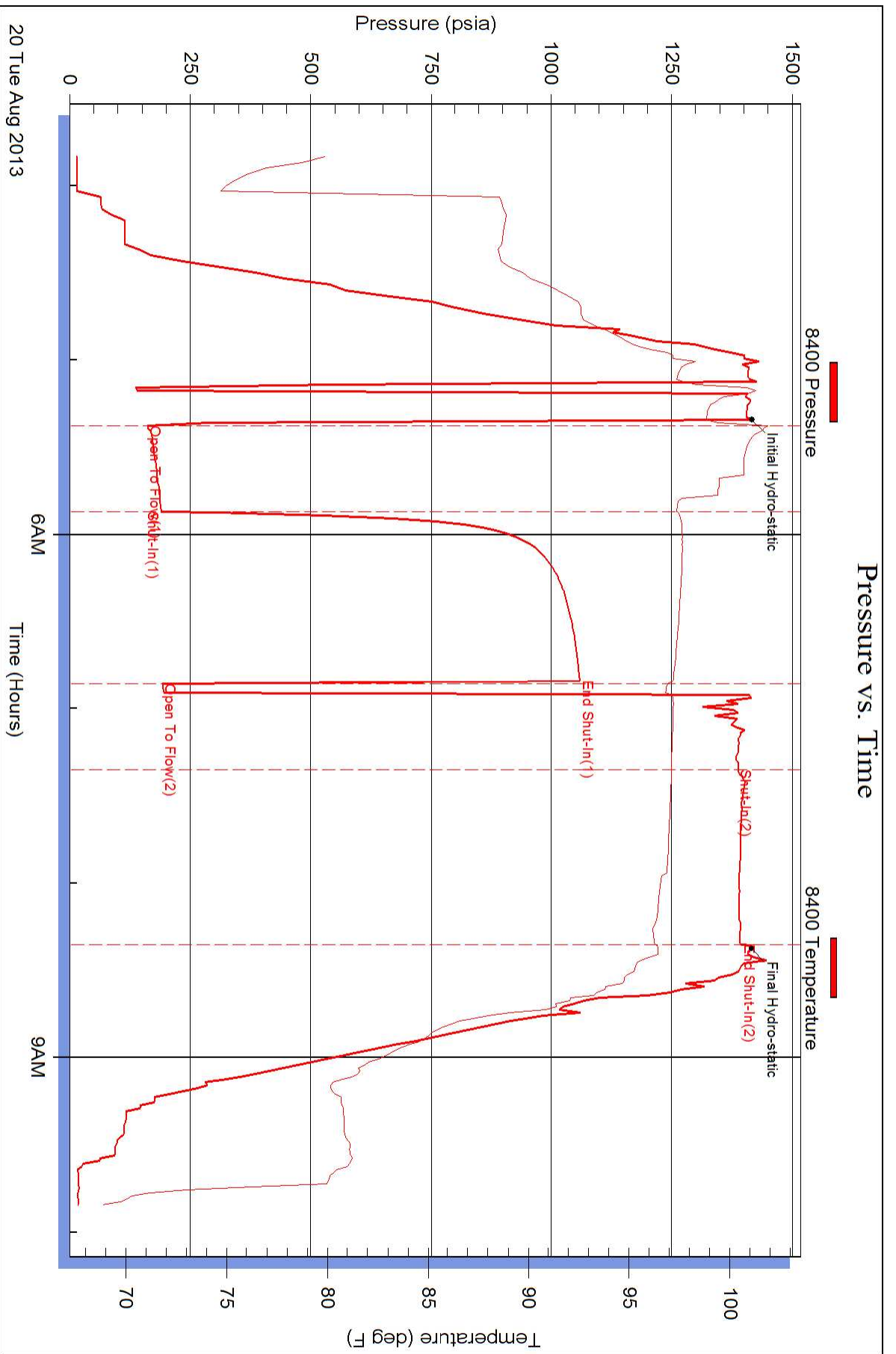
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

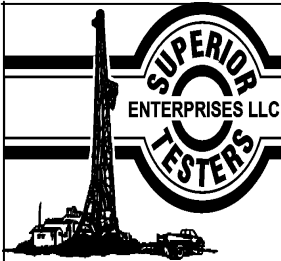
Start Date: 2013.08.21 @ 14:03:00

End Date: 2013.08.21 @ 18:37:23

Job Ticket #: 18478 DST #: 5

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

Printed: 2013.08.21 @ 18:54:49



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18478

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.08.21 @ 14:03:00

GENERAL INFORMATION:

Formation: **Douglas Shale**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:23

Time Test Ended: 18:37:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 330/66/Great Bend

Interval: 3384.00 ft (KB) To 3461.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3461.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 88.29 psia @ 3457.09 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.21

End Date: 2013.08.21

Last Calib.: 2013.08.21

Start Time: 14:03:00

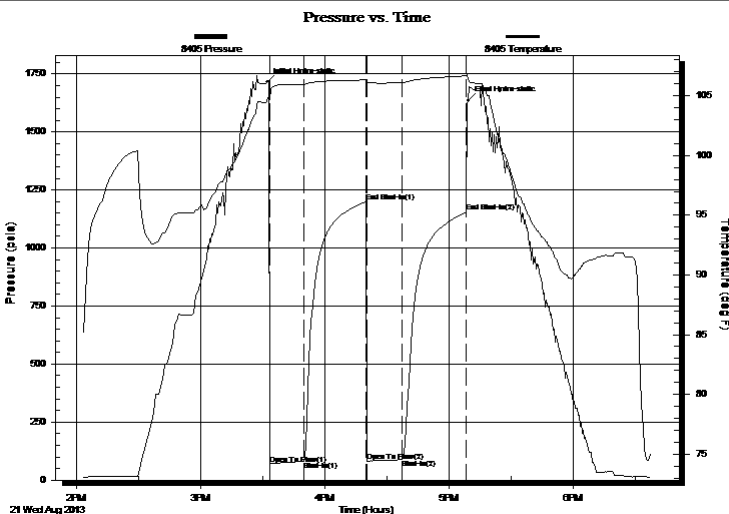
End Time: 18:37:23

Time On Btm: 2013.08.21 @ 15:31:53

Time Off Btm: 2013.08.21 @ 17:09:23

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1 inch in 5 gallon bucket.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 15 Minutes. Weak blow built to 1/2 inch in 5 gallon bucket.
2nd Shut In/ 30 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1713.88	104.50	Initial Hydro-static
2	69.61	104.73	Open To Flow (1)
18	80.73	105.98	Shut-In(1)
48	1199.38	106.33	End Shut-In(1)
49	81.46	106.04	Open To Flow (2)
66	88.29	106.12	Shut-In(2)
97	1154.18	106.69	End Shut-In(2)
98	1634.90	106.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
55.00	100% mud	0.77

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18478

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.08.21 @ 14:03:00

GENERAL INFORMATION:

Formation: **Douglas Shale**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:23

Time Test Ended: 18:37:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 330/66/Great Bend

Interval: 3384.00 ft (KB) To 3461.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3461.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1142.60 psia @ 3458.09 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.21

End Date:

2013.08.21

Last Calib.:

2013.08.21

Start Time:

14:03:00

End Time:

18:39:30

Time On Btm:

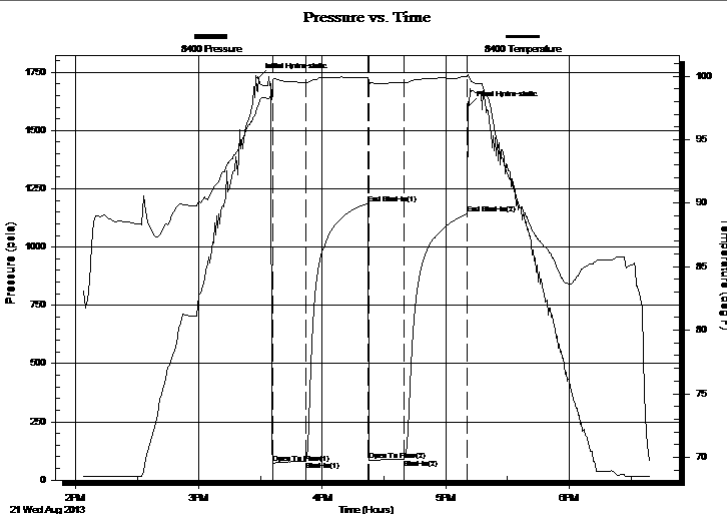
2013.08.21 @ 15:29:00

Time Off Btm:

2013.08.21 @ 17:11:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 1 inch in 5 gallon bucket.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 15 Minutes. Weak blow built to 1/2 inch in 5 gallon bucket.
2nd Shut In/ 30 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1726.73	97.76	Initial Hydro-static
7	72.99	99.70	Open To Flow (1)
23	82.67	99.45	Shut-In(1)
53	1187.71	99.86	End Shut-In(1)
54	86.21	99.26	Open To Flow (2)
71	90.26	99.45	Shut-In(2)
102	1142.60	99.93	End Shut-In(2)
103	1608.40	99.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
55.00	100% mud	0.77

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18478

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.08.21 @ 14:03:00

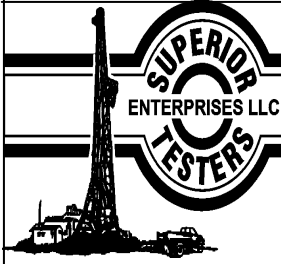
Tool Information

Drill Pipe:	Length: 3370.00 ft	Diameter: 3.80 inches	Volume: 47.27 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3384.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.09 ft				
Tool Length:	106.09 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3356.00	
Shut-In Tool	5.00			3361.00	
Hydroic Tool	5.00			3366.00	
Jars	6.00			3372.00	
Safety Joint	2.00			3374.00	
Packer	5.00			3379.00	29.00 Bottom Of Top Packer
Packer	5.00			3384.00	
Perforations	5.00			3389.00	
Change Over Sub	0.75			3389.75	
Drill Pipe	31.59			3421.34	
Change Over Sub	0.75			3422.09	
Perforations	34.00			3456.09	
Recorder	1.00	8405	Inside	3457.09	
Recorder	1.00	8400	Outside	3458.09	
Bullnose	3.00			3461.09	77.09 Bottom Packers & Anchor

Total Tool Length: 106.09



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18478

DST#: 5

ATTN: Frank Greenbaum

Test Start: 2013.08.21 @ 14:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.60 in³

Resistivity: ohm.m

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
55.00	100% mud	0.772

Total Length: 55.00 ft Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

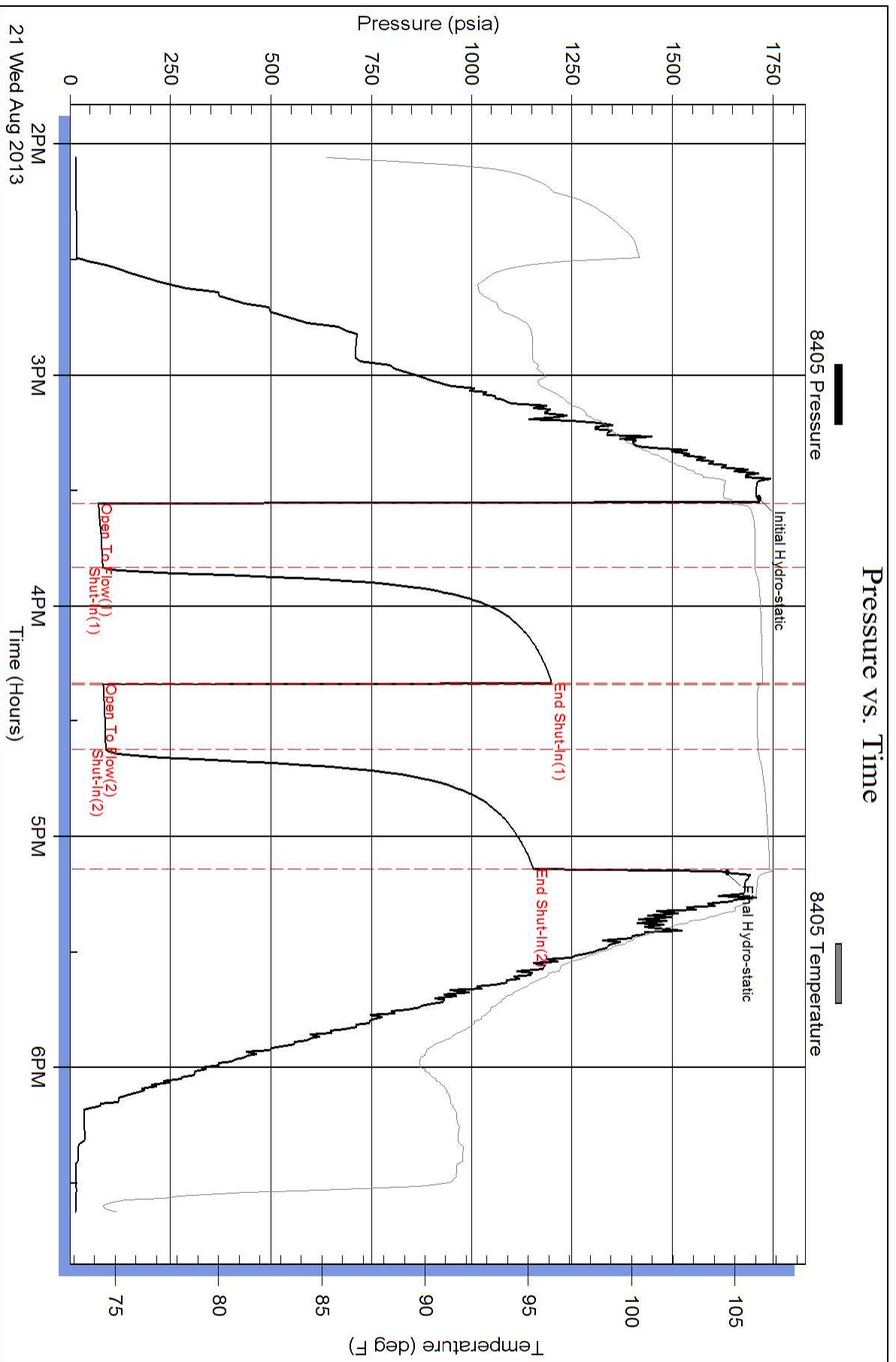
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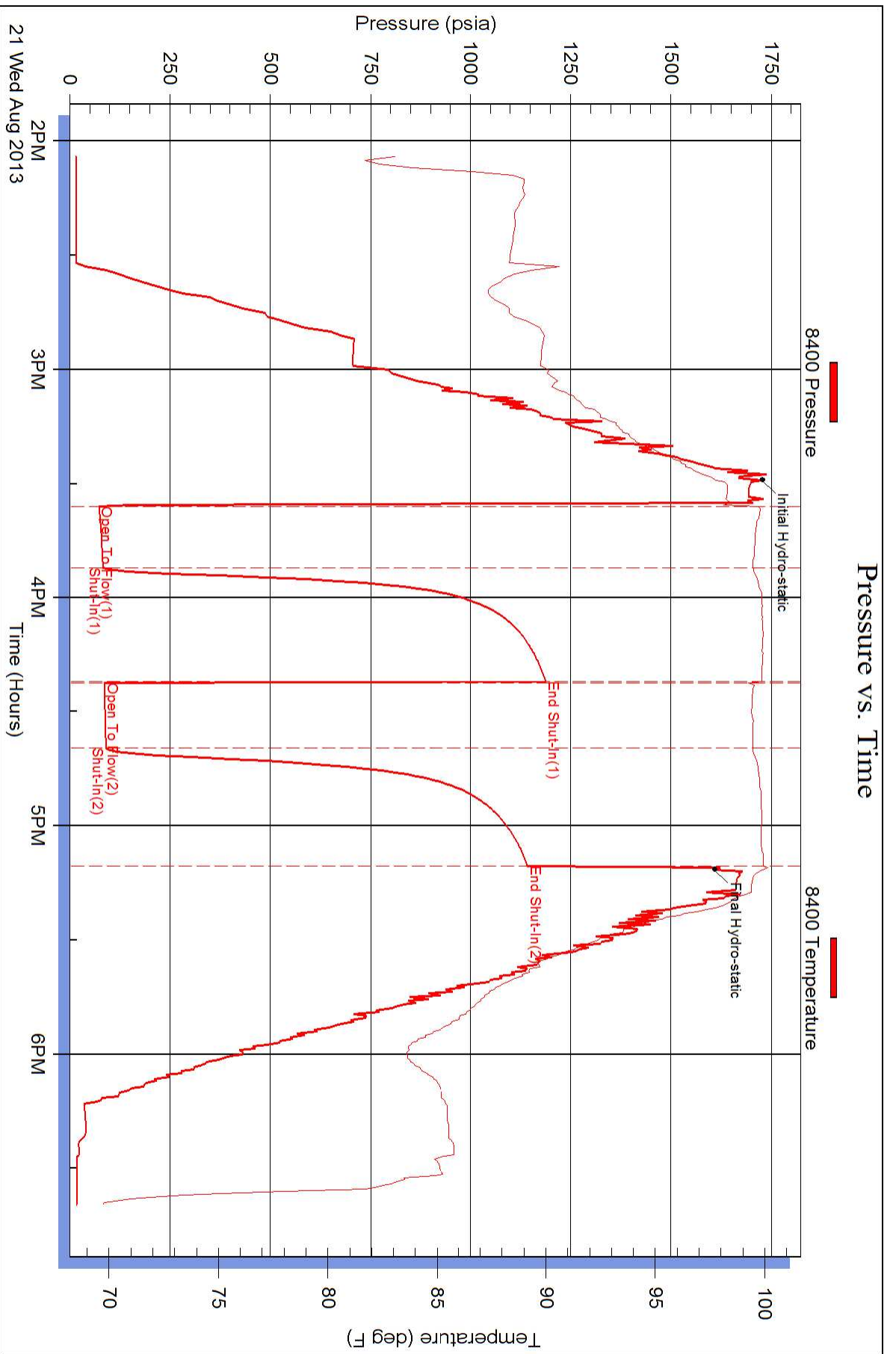
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.22 @ 04:15:00

End Date: 2013.08.22 @ 11:05:30

Job Ticket #: 18479 DST #: 6

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

Printed: 2013.08.22 @ 11:23:37



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18479

DST#: 6

ATTN: Frank Greenbaum

Test Start: 2013.08.22 @ 04:15:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:48:30

Time Test Ended: 11:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3486.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 78.15 psia @ 3506.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.22

End Date: 2013.08.22

Last Calib.: 2013.08.22

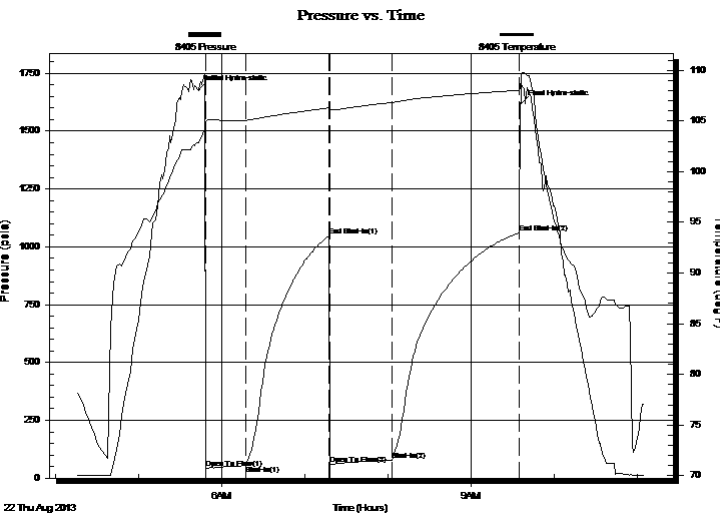
Start Time: 04:15:00

End Time: 11:05:30

Time On Btm: 2013.08.22 @ 05:43:30

Time Off Btm: 2013.08.22 @ 09:36:00

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of a 5 gallon bucket in 2 minutes and 20 seconds.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 12 minutes and 10 seconds.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1677.99	102.87	Initial Hydro-static
5	42.84	104.86	Open To Flow (1)
34	55.06	105.06	Shut-In(1)
94	1046.90	106.28	End Shut-In(1)
95	58.41	106.12	Open To Flow (2)
140	78.15	106.82	Shut-In(2)
232	1060.80	108.03	End Shut-In(2)
233	1616.81	109.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 feet 100% gas	0.00
31.00	60% Oil, 25% water, cut 15% mud.	0.43
62.00	5% Oil, 25% mud, cut 70% water.	0.87
0.00	Chloride recov. 27000 ppm	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18479

DST#: 6

ATTN: Frank Greenbaum

Test Start: 2013.08.22 @ 04:15:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:48:30

Time Test Ended: 11:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3486.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1024.33 psia @ 3507.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.22

End Date: 2013.08.22

Last Calib.: 2013.08.22

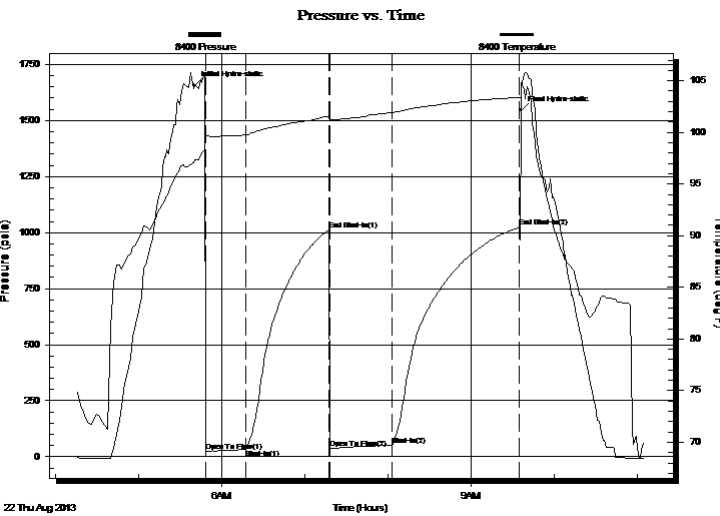
Start Time: 04:15:00

End Time: 11:06:00

Time On Btm: 2013.08.22 @ 05:40:30

Time Off Btm: 2013.08.22 @ 09:36:00

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of a 5 gallon bucket in 2 minutes and 20 seconds.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 12 minutes and 10 seconds.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1657.62	97.36	Initial Hydro-static
8	26.59	99.65	Open To Flow (1)
37	32.83	99.77	Shut-In(1)
97	1012.73	101.55	End Shut-In(1)
98	36.52	101.26	Open To Flow (2)
143	52.17	101.92	Shut-In(2)
235	1024.33	103.39	End Shut-In(2)
236	1544.92	103.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 feet 100% gas	0.00
31.00	60% Oil, 25% water, cut 15% mud.	0.43
62.00	5% Oil, 25% mud, cut 70% water.	0.87
0.00	Chloride recov. 27000 ppm	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18479

DST#: 6

ATTN: Frank Greenbaum

Test Start: 2013.08.22 @ 04:15:00

Tool Information

Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3486.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3458.00	
Shut-In Tool	5.00			3463.00	
Hydroic Tool	5.00			3468.00	
Jars	6.00			3474.00	
Safety Joint	2.00			3476.00	
Packer	5.00			3481.00	29.00 Bottom Of Top Packer
Packer	5.00			3486.00	
Perforations	19.00			3505.00	
Recorder	1.00	8405	Inside	3506.00	
Recorder	1.00	8400	Outside	3507.00	
Bullnose	3.00			3510.00	24.00 Bottom Packers & Anchor

Total Tool Length: 53.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18479

DST#: 6

ATTN: Frank Greenbaum

Test Start: 2013.08.22 @ 04:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 4900.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

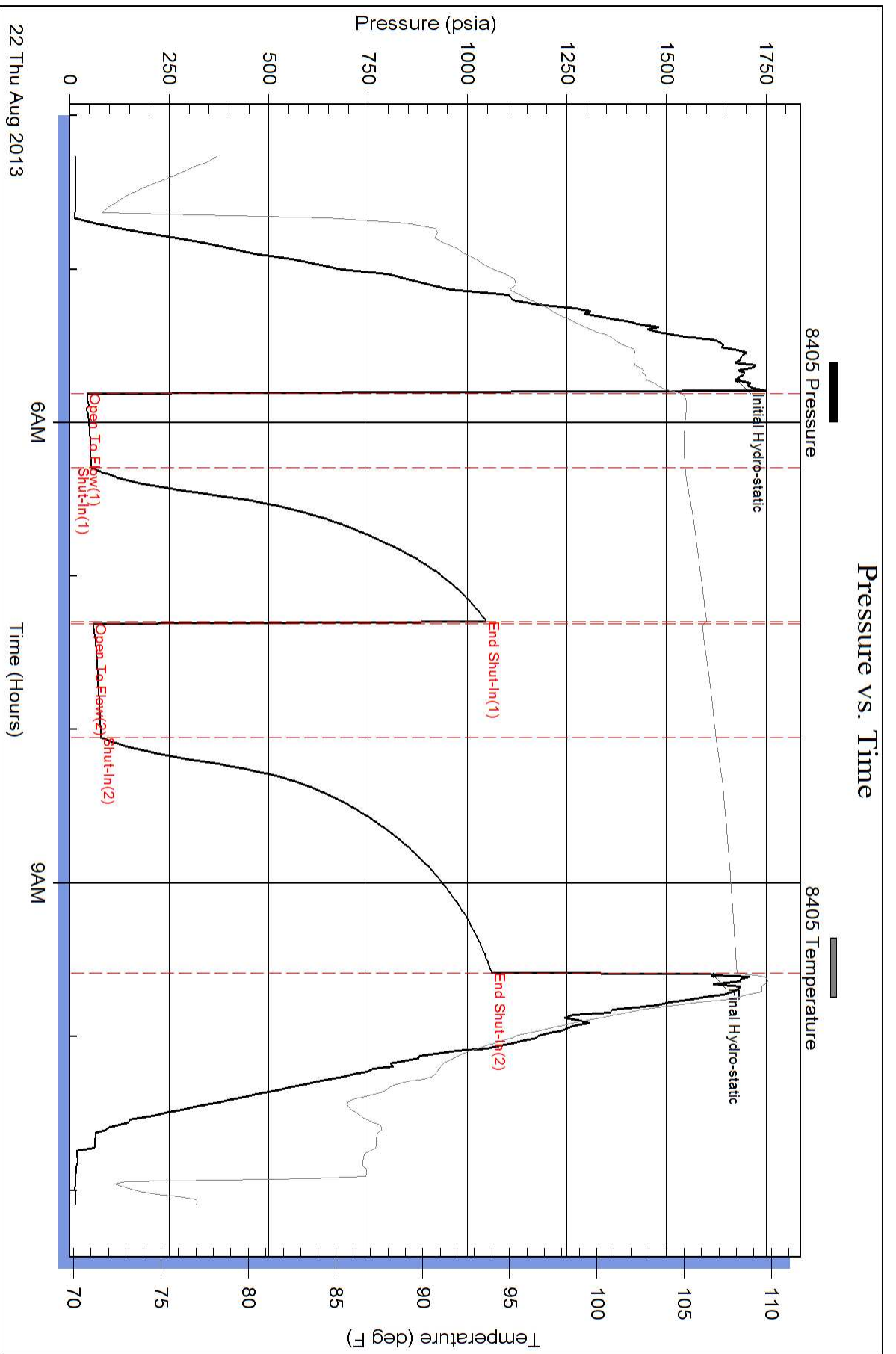
Length ft	Description	Volume bbl
0.00	120 feet 100% gas	0.000
31.00	60% Oil, 25% water, cut 15% mud.	0.435
62.00	5% Oil, 25% mud, cut 70% water.	0.870
0.00	Chloride recov. 27000 ppm	0.000

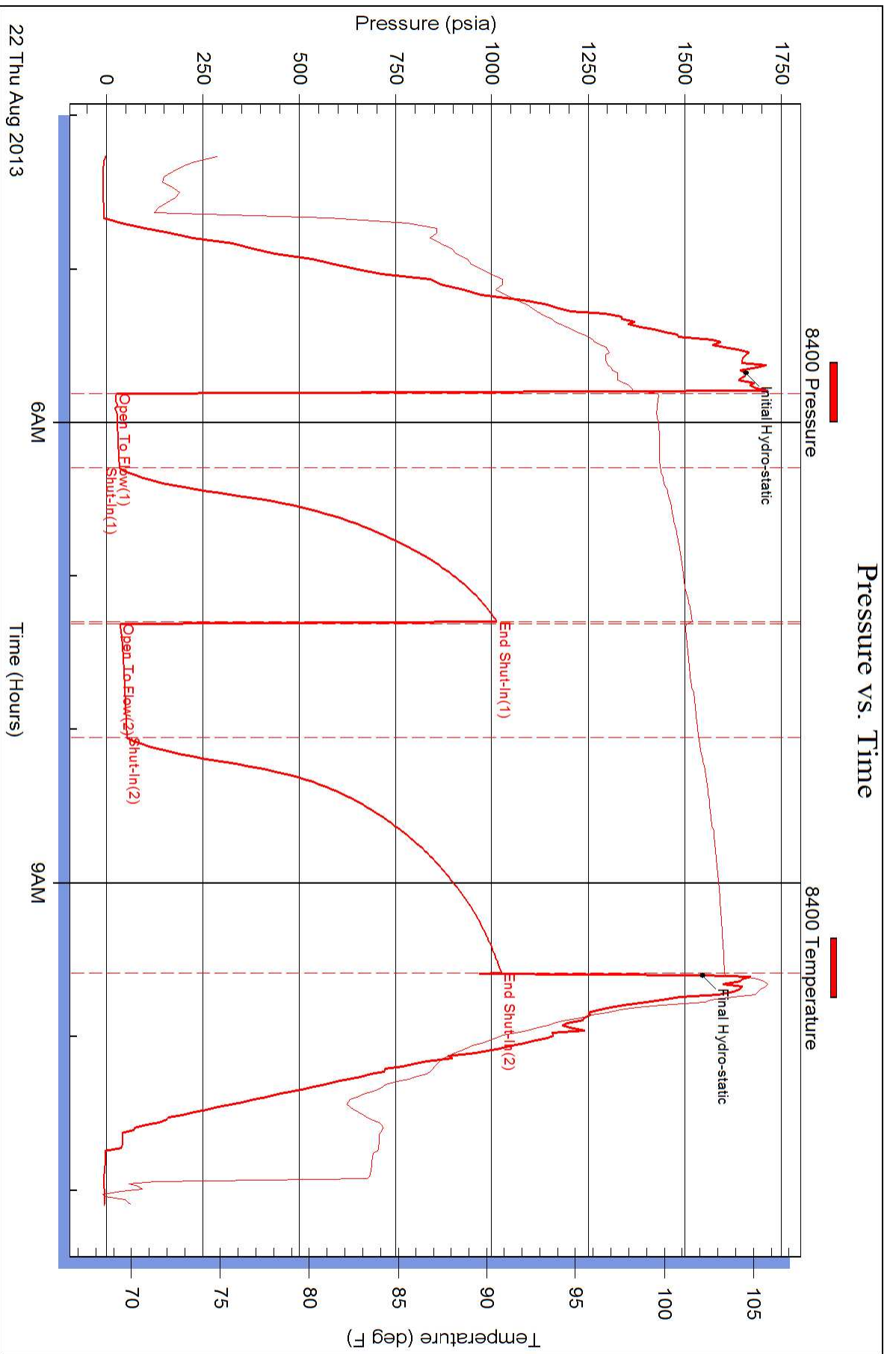
Total Length: 93.00 ft Total Volume: 1.305 bbl

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 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.23 @ 01:37:00

End Date: 2013.08.23 @ 08:20:30

Job Ticket #: 18480 DST #: 7

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

Printed: 2013.08.23 @ 08:38:06



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18480

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 01:37:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:01:30
 Tester: Shane Konzem
 Time Test Ended: 08:20:30
 Unit No: 3330/66/Great Bend
 Interval: **3585.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Reference Elevations: 1978.00 ft (KB)
 Total Depth: 3600.00 ft (KB) (TVD)
 1970.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 8.00 ft

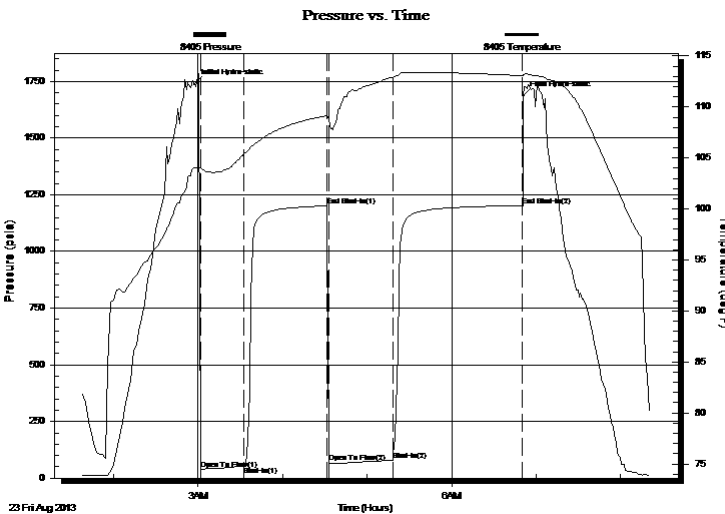
Serial #: 8405

Inside

Press @ Run Depth: 79.24 psia @ 3596.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.23 End Date: 2013.08.23 Last Calib.: 2013.08.23
 Start Time: 01:37:00 End Time: 08:20:30 Time On Btm: 2013.08.23 @ 02:57:30
 Time Off Btm: 2013.08.23 @ 06:51:00

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2 inches in 5 gallon bucket.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 45 Minutes. Weakblow built to 1.5 inches in 5 gallon bucket.
 2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1740.07	103.99	Initial Hydro-static
4	37.63	104.00	Open To Flow (1)
35	52.32	105.37	Shut-In(1)
94	1200.89	109.13	End Shut-In(1)
95	71.14	108.83	Open To Flow (2)
141	79.24	112.90	Shut-In(2)
233	1201.88	113.08	End Shut-In(2)
234	1686.15	113.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
63.00	70% w ater, 30% mud, oil spots.	0.88
63.00	55% mud, 45% w ater, oil spots.	0.88
0.00	Chloride recov 26000 ppm.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18480

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 01:37:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:01:30
 Tester: Shane Konzem
 Time Test Ended: 08:20:30
 Unit No: 3330/66/Great Bend
 Interval: **3585.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Reference Elevations: 1978.00 ft (KB)
 Total Depth: 3600.00 ft (KB) (TVD)
 1970.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 8.00 ft

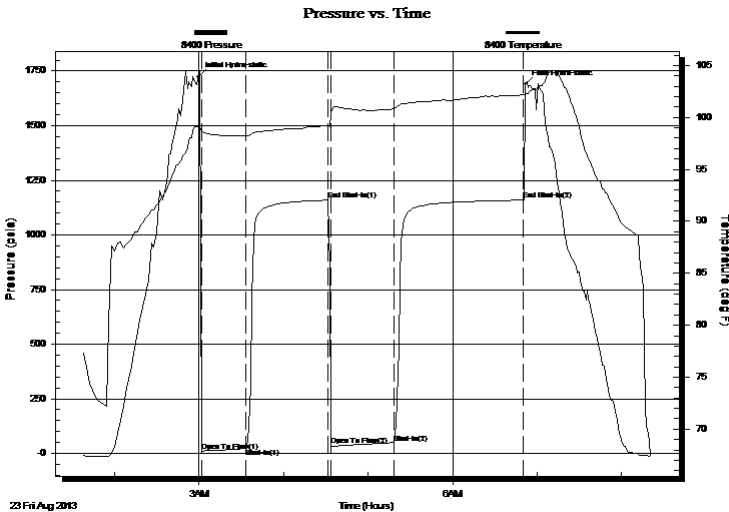
Serial #: 8400

Outside

Press @ Run Depth: 1159.17 psia @ 3597.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.23 End Date: 2013.08.23 Last Calib.: 2013.08.23
 Start Time: 01:37:00 End Time: 08:20:30 Time On Btm: 2013.08.23 @ 02:59:30
 Time Off Btm: 2013.08.23 @ 06:51:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2 inches in 5 gallon bucket.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 45 Minutes. Weakblow built to 1.5 inches in 5 gallon bucket.
 2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1724.26	99.13	Initial Hydro-static
2	10.86	98.72	Open To Flow (1)
34	23.62	98.20	Shut-In(1)
93	1158.85	99.25	End Shut-In(1)
94	35.54	100.34	Open To Flow (2)
139	48.61	100.89	Shut-In(2)
231	1159.17	102.20	End Shut-In(2)
232	1690.13	102.31	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
63.00	70% w ater, 30% mud, oil spots.	0.88
63.00	55% mud, 45% w ater, oil spots.	0.88
0.00	Chloride recov 26000 ppm.	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18480

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 01:37:00

Tool Information

Drill Pipe:	Length: 3563.00 ft	Diameter: 3.80 inches	Volume: 49.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 49.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3585.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3557.00	
Shut-In Tool	5.00			3562.00	
Hydroic Tool	5.00			3567.00	
Jars	6.00			3573.00	
Safety Joint	2.00			3575.00	
Packer	5.00			3580.00	29.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Perforations	10.00			3595.00	
Recorder	1.00	8405	Inside	3596.00	
Recorder	1.00	8400	Outside	3597.00	
Bullnose	3.00			3600.00	15.00 Bottom Packers & Anchor

Total Tool Length: 44.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18480

DST#: 7

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 01:37:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 3900.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
63.00	70% water, 30% mud, oil spots.	0.884
63.00	55% mud, 45% water, oil spots.	0.884
0.00	Chloride recov 26000 ppm.	0.000

Total Length: 126.00 ft Total Volume: 1.768 bbl

Num Fluid Samples: 0

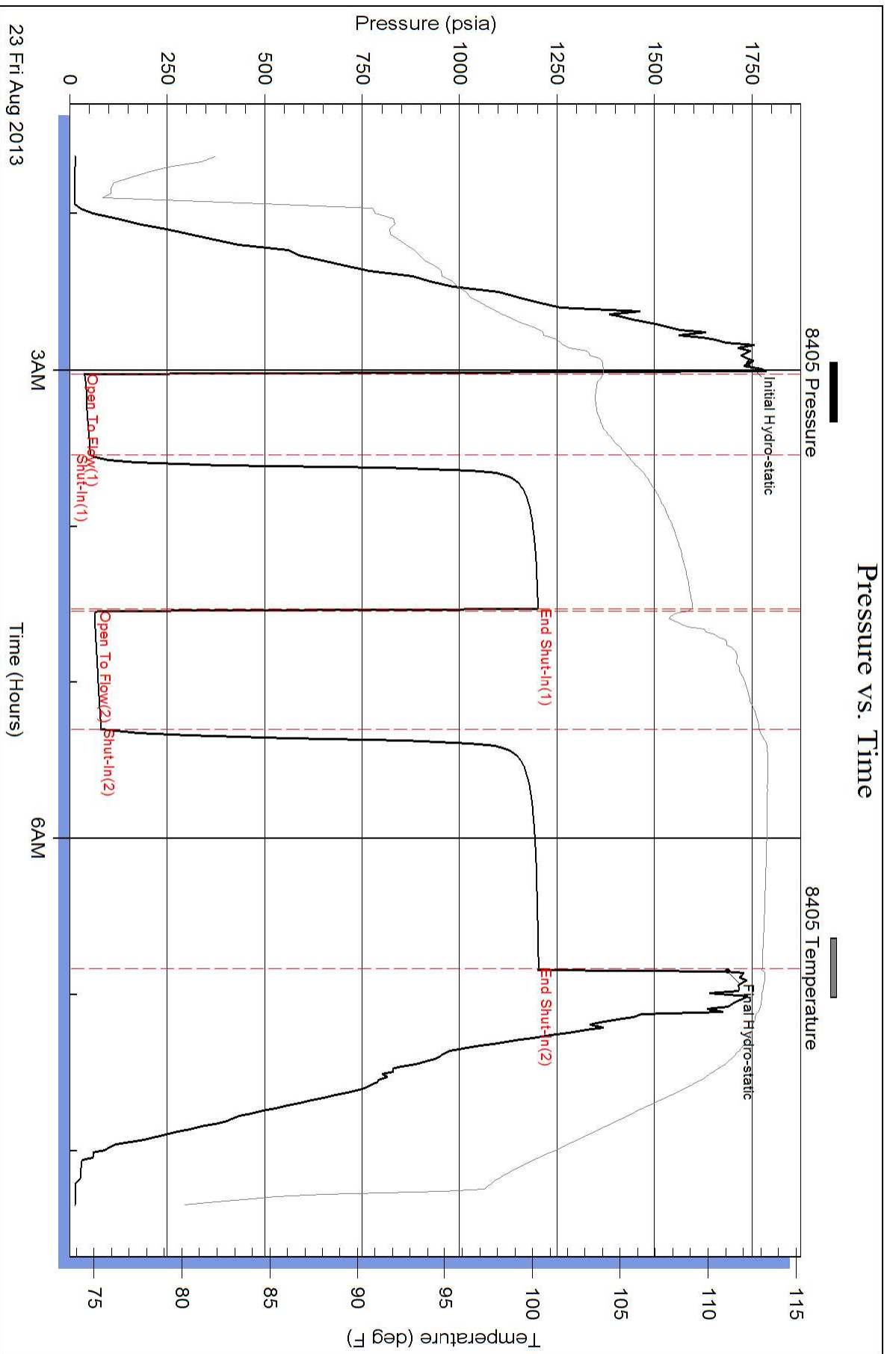
Num Gas Bombs: 0

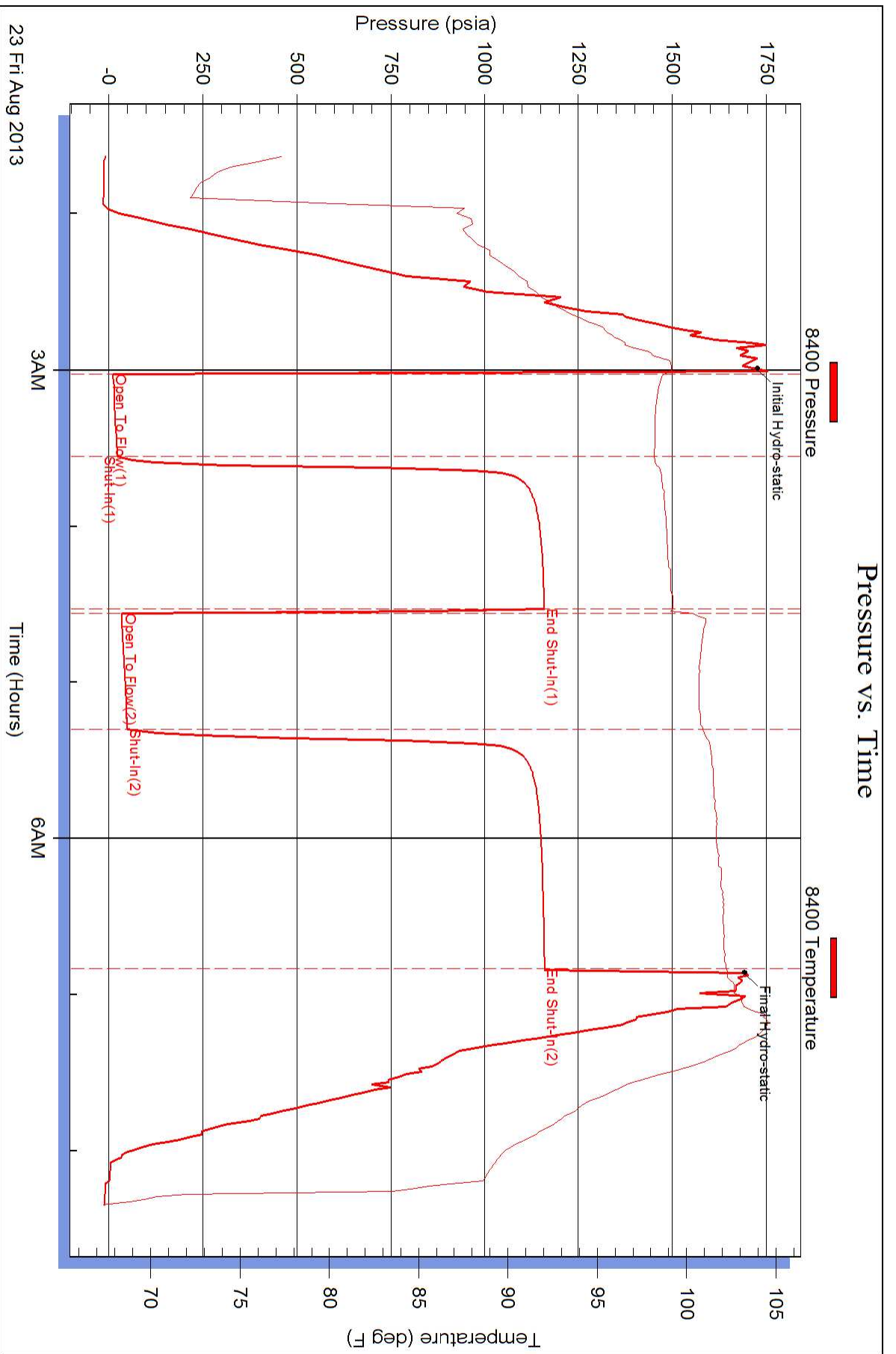
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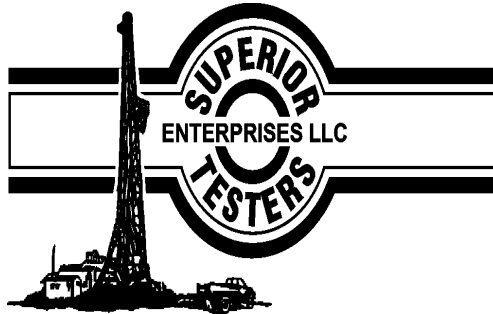
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.23 @ 16:00:00

End Date: 2013.08.23 @ 22:52:30

Job Ticket #: 18481 DST #: 8

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

Printed: 2013.08.23 @ 22:29:02



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:30

Time Test Ended: 22:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3606.00 ft (KB) To 3632.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3632.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ RunDepth: 65.78 psia @ 3628.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.23

End Date: 2013.08.23

Last Calib.: 2013.08.23

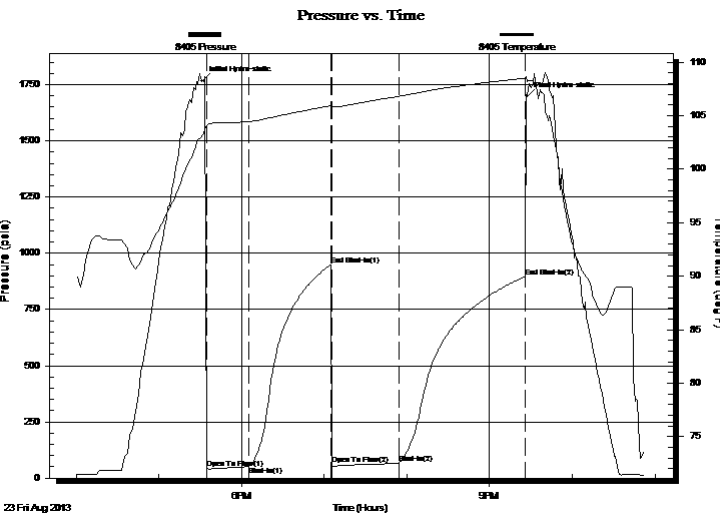
Start Time: 16:00:00

End Time: 22:52:30

Time On Btm: 2013.08.23 @ 17:31:30

Time Off Btm: 2013.08.23 @ 21:27:00

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to inches 6 in 5 gallon bucket.
1st Shut In/ 60 Minutes No blow back.
2nd Open/ 45 Minutes Fair blow built to 10 inches in 5 gallon bucket.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1767.16	103.23	Initial Hydro-static
3	43.83	104.05	Open To Flow (1)
34	50.74	104.47	Shut-In(1)
94	949.29	105.94	End Shut-In(1)
94	59.86	105.78	Open To Flow (2)
143	65.78	106.81	Shut-In(2)
234	895.81	108.51	End Shut-In(2)
236	1697.16	108.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 feet gas	0.00
31.00	20% mud, 80% oil	0.43
31.00	40% mud, 50% water, 10% oil.	0.43
0.00	Chloride recovery 25000 ppm.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:30

Time Test Ended: 22:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3606.00 ft (KB) To 3632.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3632.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 820.42 psia @ 3629.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.23

End Date: 2013.08.23

Last Calib.: 2013.08.23

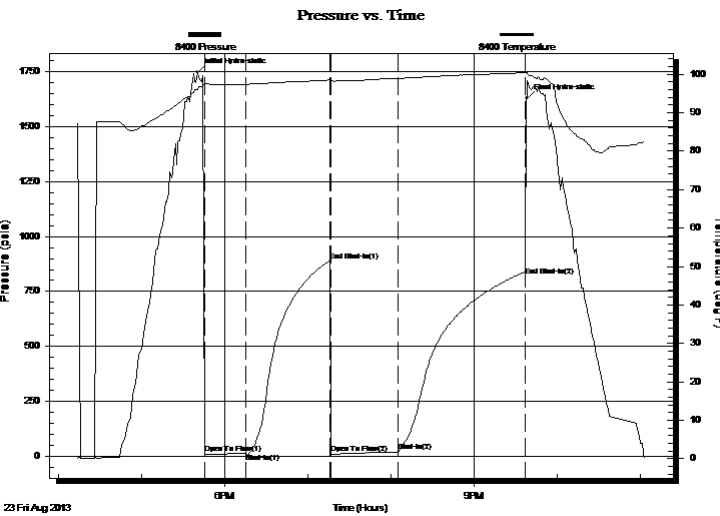
Start Time: 16:00:00

End Time: 23:03:00

Time On Btm: 2013.08.23 @ 17:40:30

Time Off Btm: 2013.08.23 @ 21:38:00

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to inches 6 in 5 gallon bucket.
1st Shut In/ 60 Minutes No blow back.
2nd Open/ 45 Minutes Fair blow built to 10 inches in 5 gallon bucket.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1748.09	96.09	Initial Hydro-static
5	11.21	97.44	Open To Flow (1)
35	13.07	97.36	Shut-In(1)
96	888.79	98.49	End Shut-In(1)
96	12.58	98.25	Open To Flow (2)
145	19.22	98.89	Shut-In(2)
237	820.42	100.34	End Shut-In(2)
238	1630.57	100.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 feet gas	0.00
31.00	20% mud, 80% oil	0.43
31.00	40% mud, 50% water, 10% oil.	0.43
0.00	Chloride recovery 25000 ppm.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

Tool Information

Drill Pipe:	Length: 3589.00 ft	Diameter: 3.80 inches	Volume: 50.34 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 50.34 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3606.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3578.00	
Shut-In Tool	5.00			3583.00	
Hydroic Tool	5.00			3588.00	
Jars	6.00			3594.00	
Safety Joint	2.00			3596.00	
Packer	5.00			3601.00	29.00 Bottom Of Top Packer
Packer	5.00			3606.00	
Perforations	21.00			3627.00	
Recorder	1.00	8405	Inside	3628.00	
Recorder	1.00	8400	Outside	3629.00	
Bullnose	3.00			3632.00	26.00 Bottom Packers & Anchor

Total Tool Length: 55.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5700.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	252 feet gas	0.000
31.00	20% mud, 80% oil	0.435
31.00	40% mud, 50% water, 10% oil.	0.435
0.00	Chloride recovery 25000 ppm.	0.000

Total Length: 62.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

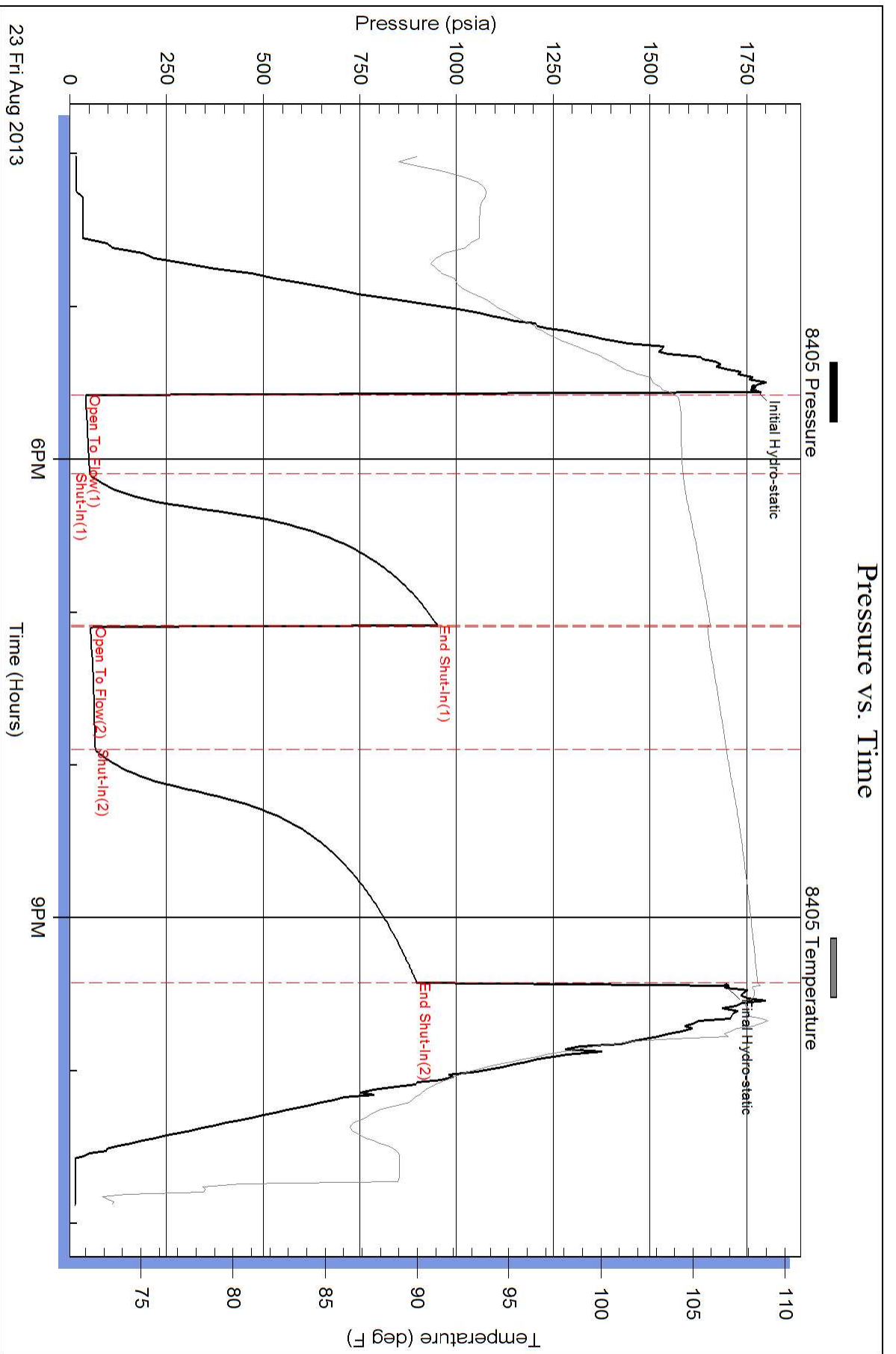
Num Gas Bombs: 0

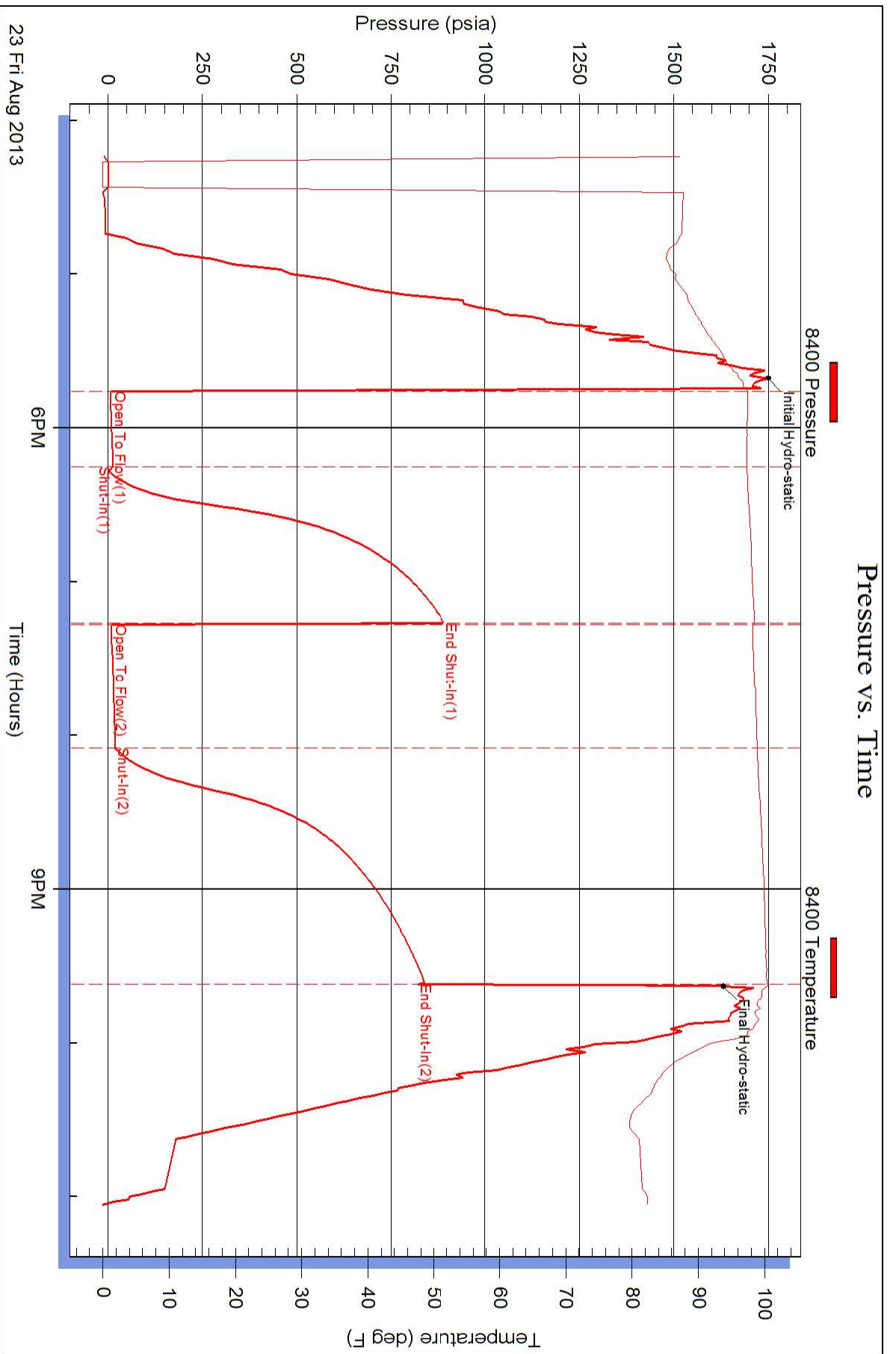
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.24 @ 15:15:00

End Date: 2013.08.24 @ 21:26:30

Job Ticket #: 18482 DST #: 9

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

Printed: 2013.08.24 @ 21:58:01



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18482

DST#: 9

ATTN: Frank Greenbaum

Test Start: 2013.08.24 @ 15:15:00

GENERAL INFORMATION:

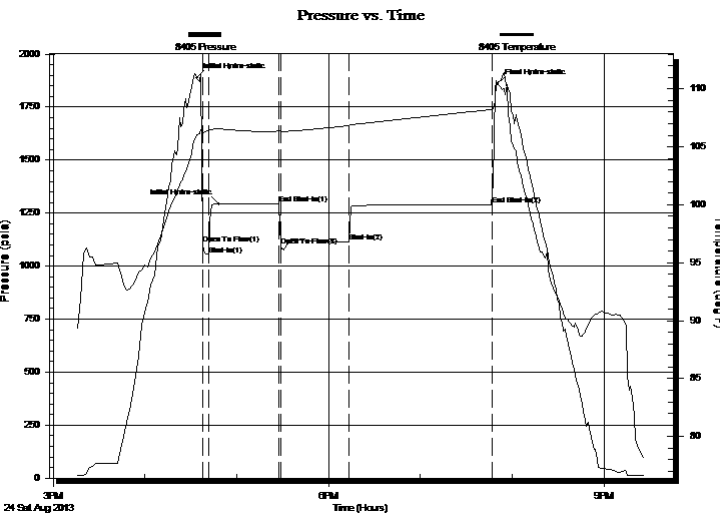
Formation: **Couglamorate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:37:30
 Time Test Ended: 21:26:30
 Interval: **3698.00 ft (KB) To 3800.00 ft (KB) (TVD)**
 Total Depth: 3800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/66/GreatBend
 Reference Elevations: 1978.00 ft (KB)
 1970.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 1114.14 psia @ 3796.50 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.24 End Date: 2013.08.24 Last Calib.: 2013.08.24
 Start Time: 15:15:00 End Time: 21:26:30 Time On Btm: 2013.08.24 @ 16:34:00
 Time Off Btm: 2013.08.24 @ 19:50:30

TEST COMMENT: 1st Open/ 5 Minutes. Strong blow built to bottom of five gallon bucket in 20 seconds.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds. Gas to surface in 1 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1888.03	106.04	Initial Hydro-static
4	1103.95	106.18	Open To Flow (1)
8	1054.60	106.40	Shut-In(1)
15	1292.34	106.52	Initial Hydro-static
54	1294.69	106.36	End Shut-In(1)
55	1095.54	106.30	Open To Flow (2)
100	1114.14	106.83	Shut-In(2)
193	1290.52	108.20	End Shut-In(2)
197	1860.64	110.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3681feet of gas	0.00
0.00	No fluid	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	90.00	2587.39
Last Gas Rate	1.00	115.00	3306.11
Max. Gas Rate	1.00	115.00	3306.11



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18482

DST#: 9

ATTN: Frank Greenbaum

Test Start: 2013.08.24 @ 15:15:00

GENERAL INFORMATION:

Formation: **Couglamorate**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:37:30

Time Test Ended: 21:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/GreatBend

Interval: 3698.00 ft (KB) To 3800.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3800.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 1232.34 psia @ 3797.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.24

End Date:

2013.08.24

Last Calib.:

2013.08.24

Start Time: 15:15:00

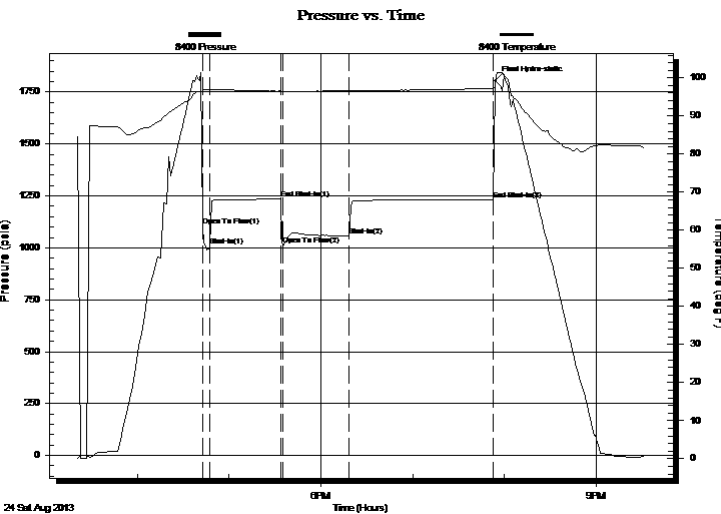
End Time:

21:31:30

Time On Btm:

Time Off Btm: 2013.08.24 @ 19:54:00

TEST COMMENT: 1st Open/ 5 Minutes. Strong blow built to bottom of five gallon bucket in 20 seconds.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds. Gas to surface in 1 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1104.16	96.28	Open To Flow (1)
5	1010.97	96.98	Shut-In(1)
51	1234.68	96.49	End Shut-In(1)
53	1015.72	96.50	Open To Flow (2)
96	1057.64	96.63	Shut-In(2)
191	1232.34	97.28	End Shut-In(2)
192	1803.24	98.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3681feet of gas	0.00
0.00	No fluid	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	90.00	2587.39
Last Gas Rate	1.00	115.00	3306.11
Max. Gas Rate	1.00	115.00	3306.11



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18482

DST#: 9

ATTN: Frank Greenbaum

Test Start: 2013.08.24 @ 15:15:00

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 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3698.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.50 ft			
Tool Length:	131.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3670.00	
Shut-In Tool	5.00			3675.00	
Hydroic Tool	5.00			3680.00	
Jars	6.00			3686.00	
Safety Joint	2.00			3688.00	
Packer	5.00			3693.00	29.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Perforations	5.00			3703.00	
Change Over Sub	0.75			3703.75	
Drill Pipe	64.00			3767.75	
Change Over Sub	0.75			3768.50	
Perforations	27.00			3795.50	
Recorder	1.00	8405	Inside	3796.50	
Recorder	1.00	8400	Outside	3797.50	
Bullnose	3.00			3800.50	102.50 Bottom Packers & Anchor

Total Tool Length: 131.50



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18482

DST#: 9

ATTN: Frank Greenbaum

Test Start: 2013.08.24 @ 15:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 9.59 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3681feet of gas	0.000
0.00	No fluid	0.000

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

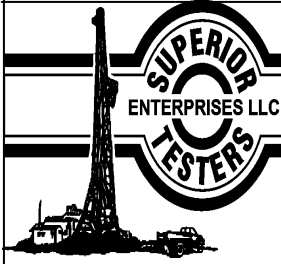
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18482

DST#: 9

ATTN: Frank Greenbaum

Test Start: 2013.08.24 @ 15:15:00

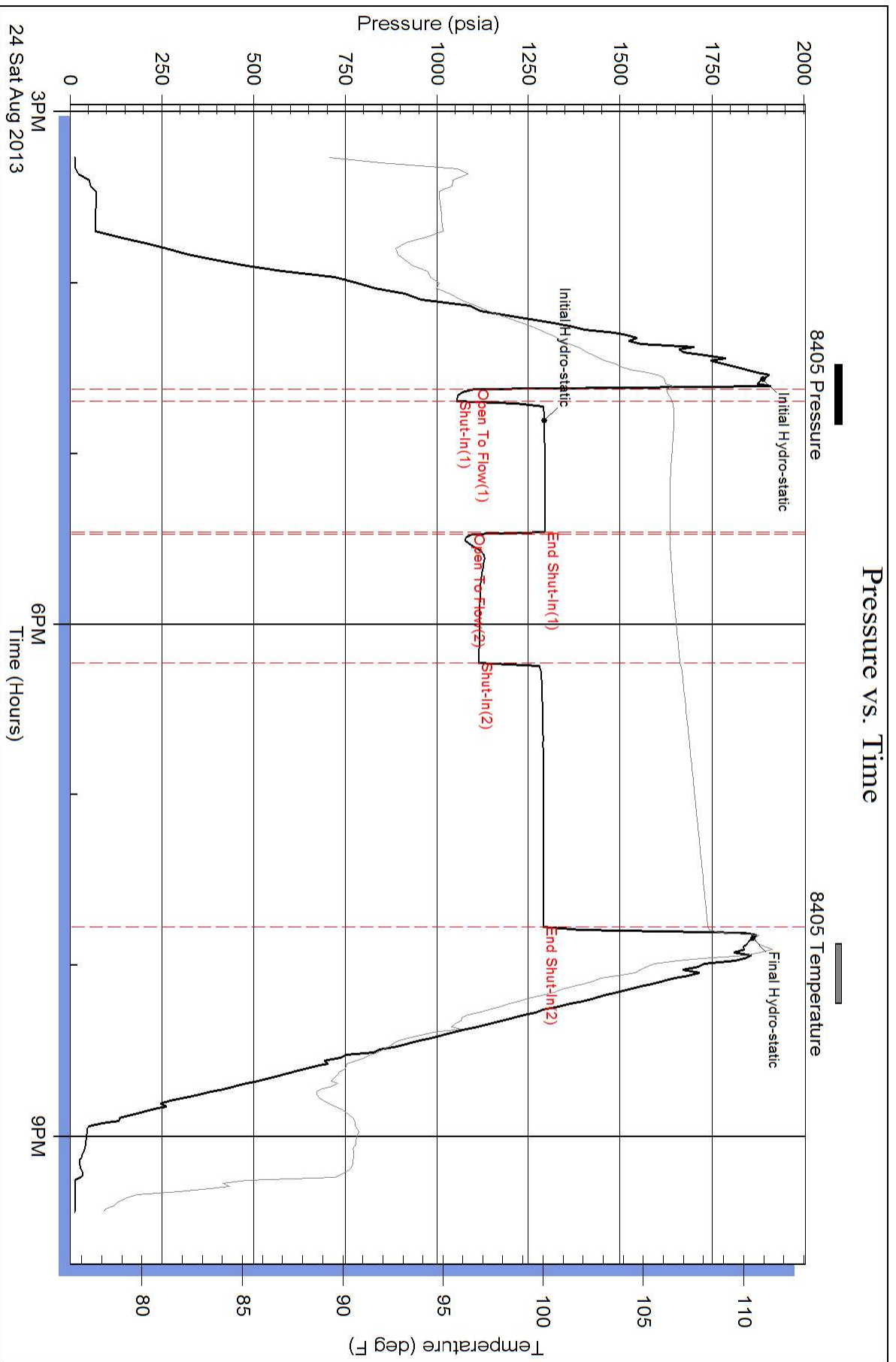
Gas Rates Information

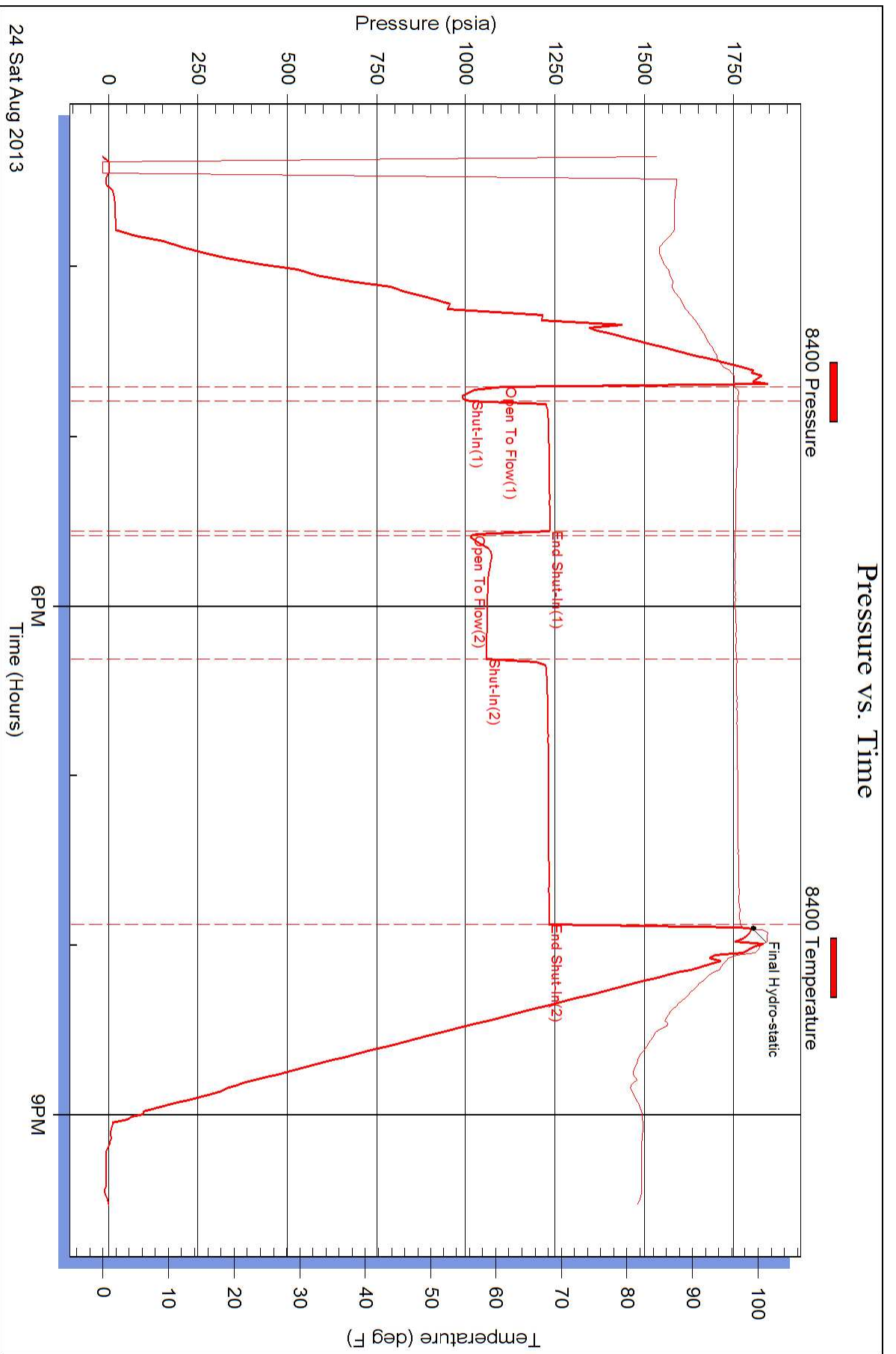
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	1.00	90.00	2587.39
2	15	1.00	115.00	3306.11
2	25	1.00	115.00	3306.11
2	35	1.00	115.00	3306.11
2	45	1.00	115.00	3306.11

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.25 @ 11:40:00

End Date: 2013.08.25 @ 18:49:30

Job Ticket #: 18483 DST #: 10

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

Printed: 2013.08.25 @ 19:06:39



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18483

DST#: 10

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

GENERAL INFORMATION:

Formation: **Coun/ Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 18:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3820.00 ft (KB) To 3883.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3883.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 372.62 psia @ 3879.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.25

End Date: 2013.08.25

Last Calib.: 2013.08.25

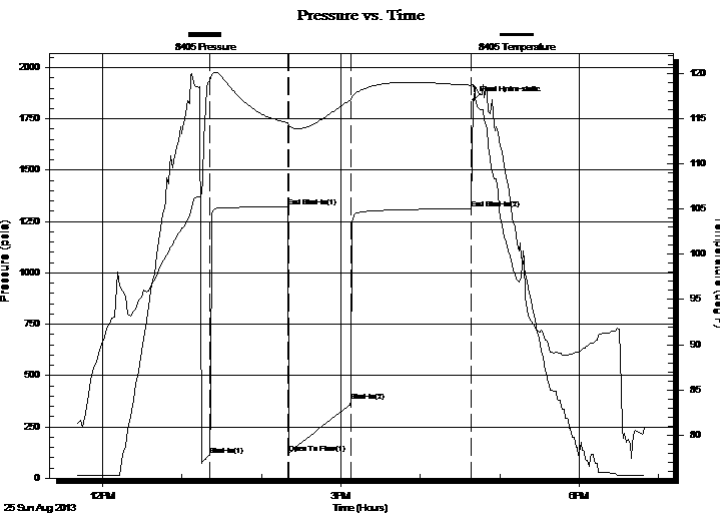
Start Time: 11:40:00

End Time: 18:49:30

Time On Btm:

Time Off Btm: 2013.08.25 @ 16:40:00

TEST COMMENT: 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 30 seconds.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	112.70	119.17	Shut-In(1)
60	1323.09	114.55	End Shut-In(1)
60	122.95	114.19	Open To Flow (1)
107	372.62	117.09	Shut-In(2)
199	1313.89	118.67	End Shut-In(2)
200	1839.76	118.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1449 feet of gas.	0.00
682.00	100% clean oil.	9.57
62.00	20% mud, 5% gas, 65% oil	0.87
62.00	20% mud, 30% gas, 50% oil.	0.87
0.00	Oil gravity 38 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18483

DST#: 10

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

GENERAL INFORMATION:

Formation: **Coun/ Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:30

Time Test Ended: 18:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3820.00 ft (KB) To 3883.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3883.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1253.42 psia @ 3880.49 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.25

End Date: 2013.08.25

Last Calib.: 2013.08.25

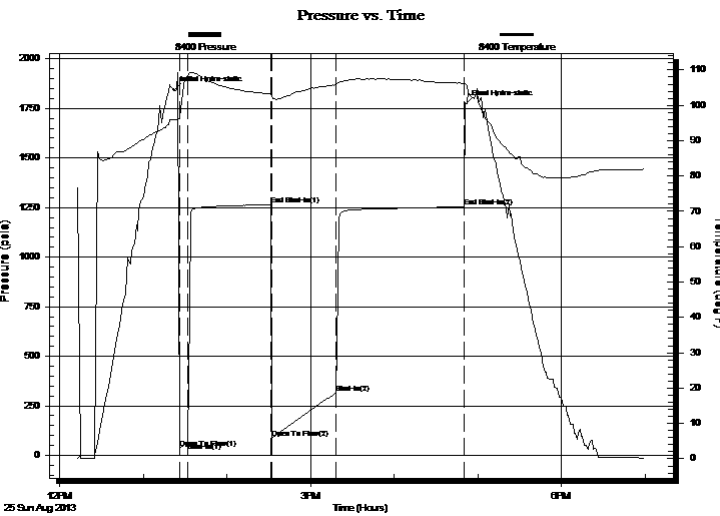
Start Time: 11:40:00

End Time: 19:00:00

Time On Btm: 2013.08.25 @ 13:22:00

Time Off Btm: 2013.08.25 @ 16:51:00

TEST COMMENT: 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 30 seconds.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.10	95.95	Initial Hydro-static
4	38.26	96.39	Open To Flow (1)
10	67.26	108.53	Shut-In(1)
70	1263.58	103.14	End Shut-In(1)
70	88.66	102.72	Open To Flow (2)
117	316.08	105.89	Shut-In(2)
208	1253.42	106.24	End Shut-In(2)
209	1770.22	106.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1449 feet of gas.	0.00
682.00	100% clean oil.	9.57
62.00	20% mud, 5% gas, 65% oil	0.87
62.00	20% mud, 30% gas, 50% oil.	0.87
0.00	Oil gravity 38 corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18483

DST#: 10

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

Tool Information

Drill Pipe:	Length: 3812.00 ft	Diameter: 3.80 inches	Volume: 53.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 53.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3820.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.49 ft			
Tool Length:	92.49 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3792.00	
Shut-In Tool	5.00			3797.00	
Hydroic Tool	5.00			3802.00	
Jars	6.00			3808.00	
Safety Joint	2.00			3810.00	
Packer	5.00			3815.00	29.00 Bottom Of Top Packer
Packer	5.00			3820.00	
Perforations	5.00			3825.00	
Change Over Sub	0.75			3825.75	
Drill Pipe	31.99			3857.74	
Change Over Sub	0.75			3858.49	
Perforations	20.00			3878.49	
Recorder	1.00	8405	Inside	3879.49	
Recorder	1.00	8400	Outside	3880.49	
Bullnose	3.00			3883.49	63.49 Bottom Packers & Anchor

Total Tool Length: 92.49



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18483

DST#: 10

ATTN: Frank Greenbaum

Test Start: 2013.08.25 @ 11:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 7000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1449 feet of gas.	0.000
682.00	100% clean oil.	9.567
62.00	20% mud, 5% gas, 65% oil	0.870
62.00	20% mud, 30% gas, 50% oil.	0.870
0.00	Oil gravity 38 corrected	0.000

Total Length: 806.00 ft Total Volume: 11.307 bbl

Num Fluid Samples: 0

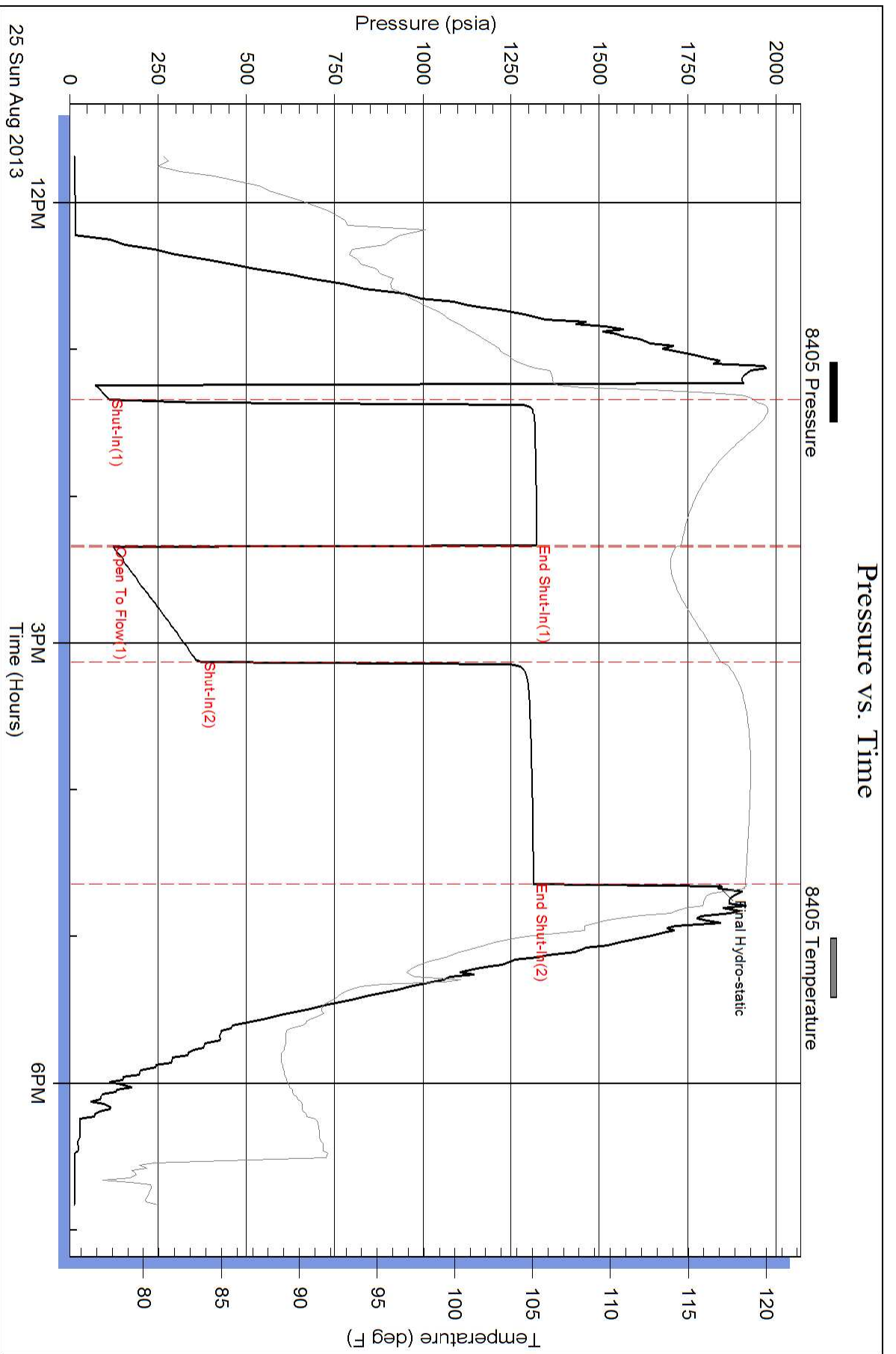
Num Gas Bombs: 0

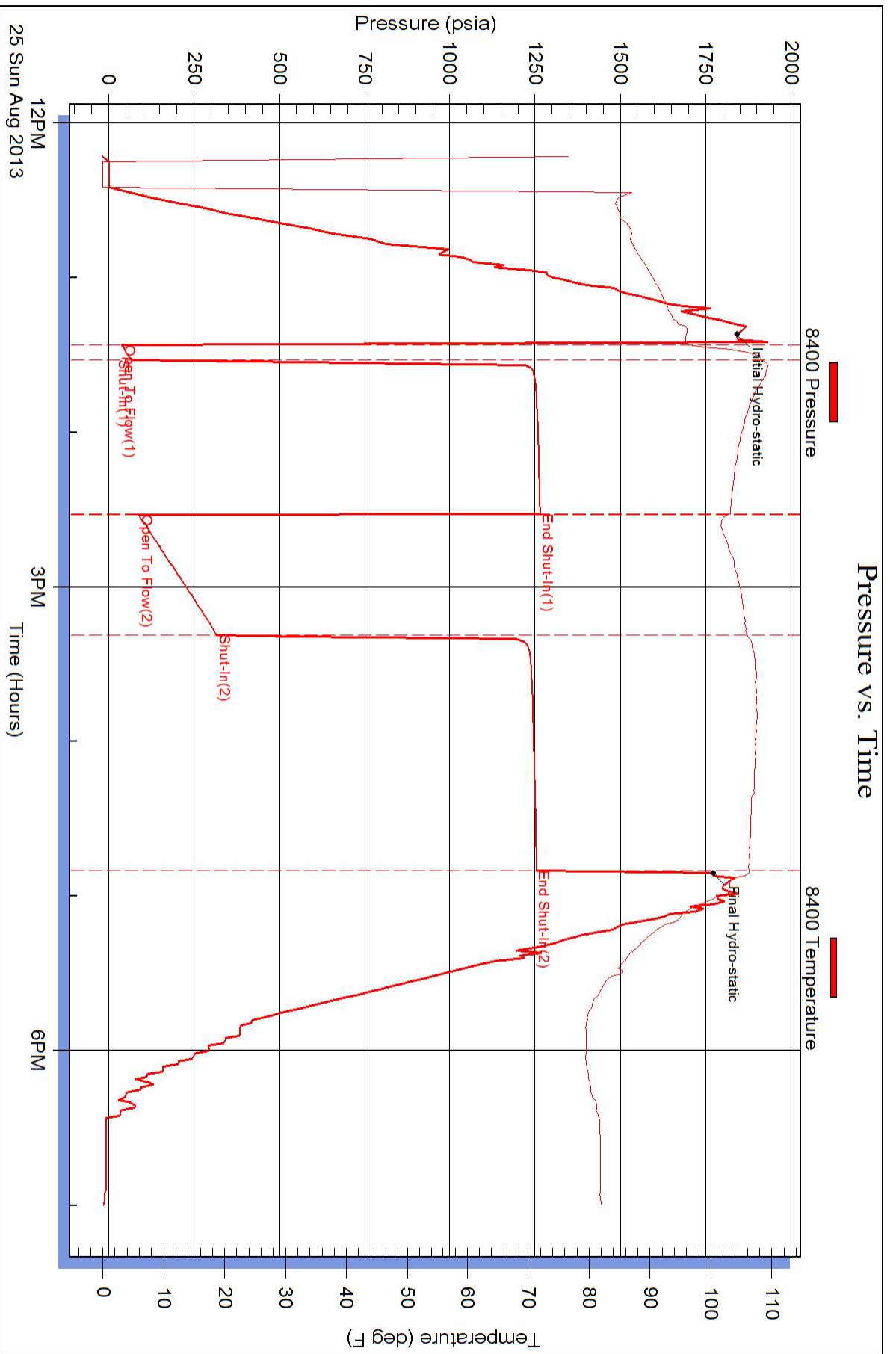
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.26 @ 02:15:00

End Date: 2013.08.26 @ 11:10:00

Job Ticket #: 18484 DST #: 11

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

Printed: 2013.08.26 @ 11:23:31



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18484

DST#: 11

ATTN: Frank Greenbaum

Test Start: 2013.08.26 @ 02:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:00

Time Test Ended: 11:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3884.00 ft (KB) To 3893.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3893.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press @ Run Depth: 1042.19 psia @ 3889.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.26

End Date: 2013.08.26

Last Calib.: 2013.08.26

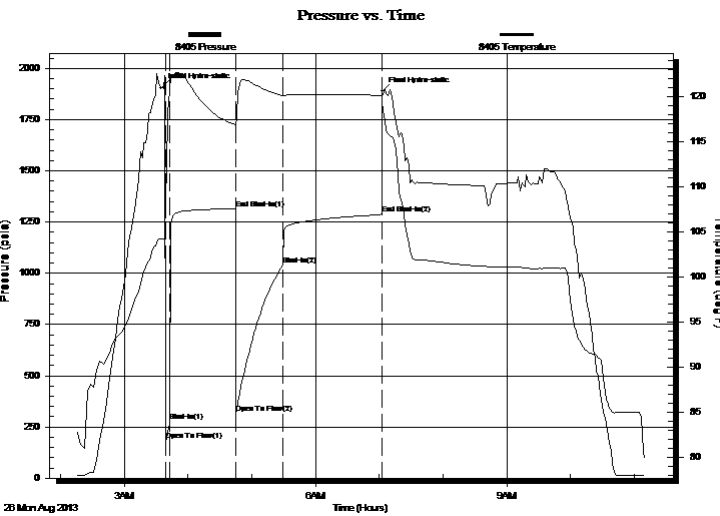
Start Time: 02:15:00

End Time: 11:10:00

Time On Btm: 2013.08.26 @ 03:35:00

Time Off Btm: 2013.08.26 @ 07:02:30

TEST COMMENT: 1st Open/ 5 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.
1st Shut In/ 60 Minutes. 1/4 inch blow back.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute.
2nd Shut In/ 90 Minutes. Surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1905.60	104.19	Initial Hydro-static
4	183.53	108.85	Open To Flow (1)
8	277.87	121.05	Shut-In(1)
70	1315.75	116.86	End Shut-In(1)
70	315.74	116.68	Open To Flow (2)
115	1042.19	120.09	Shut-In(2)
207	1290.30	120.00	End Shut-In(2)
208	1889.00	119.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2961 feet gas.	0.00
2898.00	gassy oil	40.65

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18484

DST#: 11

ATTN: Frank Greenbaum

Test Start: 2013.08.26 @ 02:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:00

Time Test Ended: 11:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3884.00 ft (KB) To 3893.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3893.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 1224.87 psia @ 3890.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.26

End Date:

2013.08.26

Last Calib.:

2013.08.26

Start Time: 02:15:00

End Time:

11:20:30

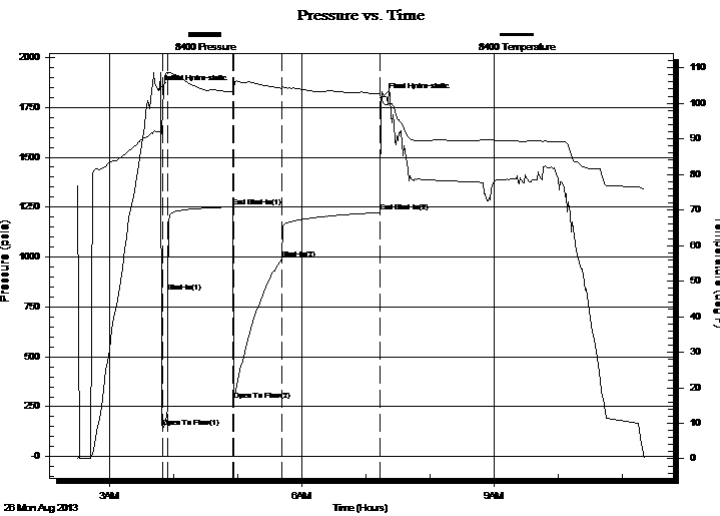
Time On Btm:

2013.08.26 @ 03:46:00

Time Off Btm:

2013.08.26 @ 07:14:30

TEST COMMENT: 1st Open/ 5 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.
1st Shut In/ 60 Minutes. 1/4 inch blow back.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute.
2nd Shut In/ 90 Minutes. Surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1838.33	92.00	Initial Hydro-static
4	144.41	98.75	Open To Flow (1)
9	826.51	108.69	Shut-In(1)
69	1251.53	103.15	End Shut-In(1)
70	281.65	104.04	Open To Flow (2)
115	988.51	104.22	Shut-In(2)
208	1224.87	102.58	End Shut-In(2)
209	1798.03	101.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2961 feet gas.	0.00
2898.00	gassy oil	40.65

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18484

DST#: 11

ATTN: Frank Greenbaum

Test Start: 2013.08.26 @ 02:15:00

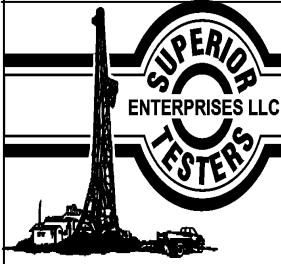
Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3884.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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

Change Over Sub	1.00			3856.00	
Shut-In Tool	5.00			3861.00	
Hydroic Tool	5.00			3866.00	
Jars	6.00			3872.00	
Safety Joint	2.00			3874.00	
Packer	5.00			3879.00	29.00 Bottom Of Top Packer
Packer	5.00			3884.00	
Perforations	4.00			3888.00	
Recorder	1.00	8405	Inside	3889.00	
Recorder	1.00	8400	Outside	3890.00	
Bullnose	3.00			3893.00	9.00 Bottom Packers & Anchor

Total Tool Length: 38.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18484

DST#: 11

ATTN: Frank Greenbaum

Test Start: 2013.08.26 @ 02:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

Water Loss: 8.40 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2961 feet gas.	0.000
2898.00	gassy oil	40.651

Total Length: 2898.00 ft Total Volume: 40.651 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

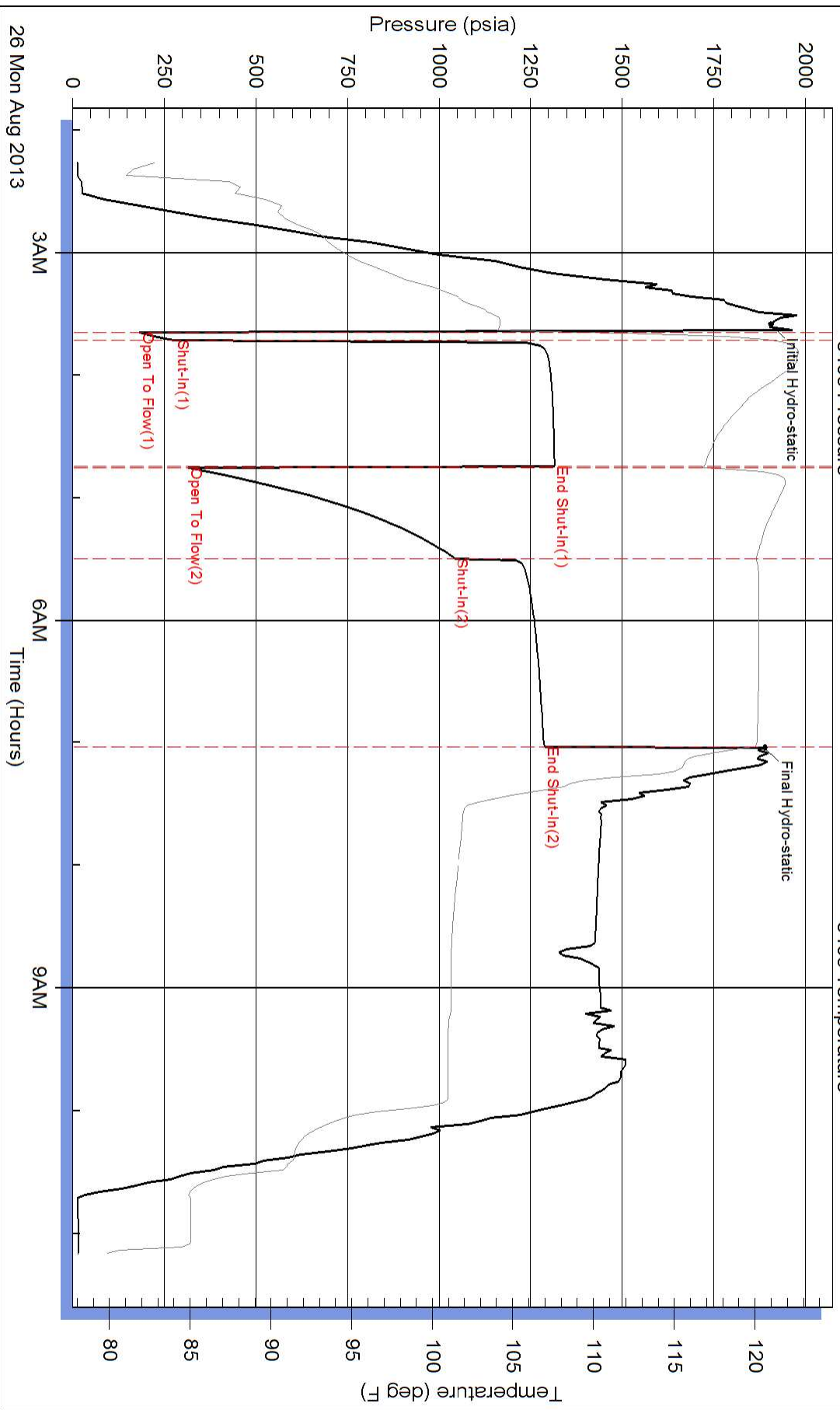
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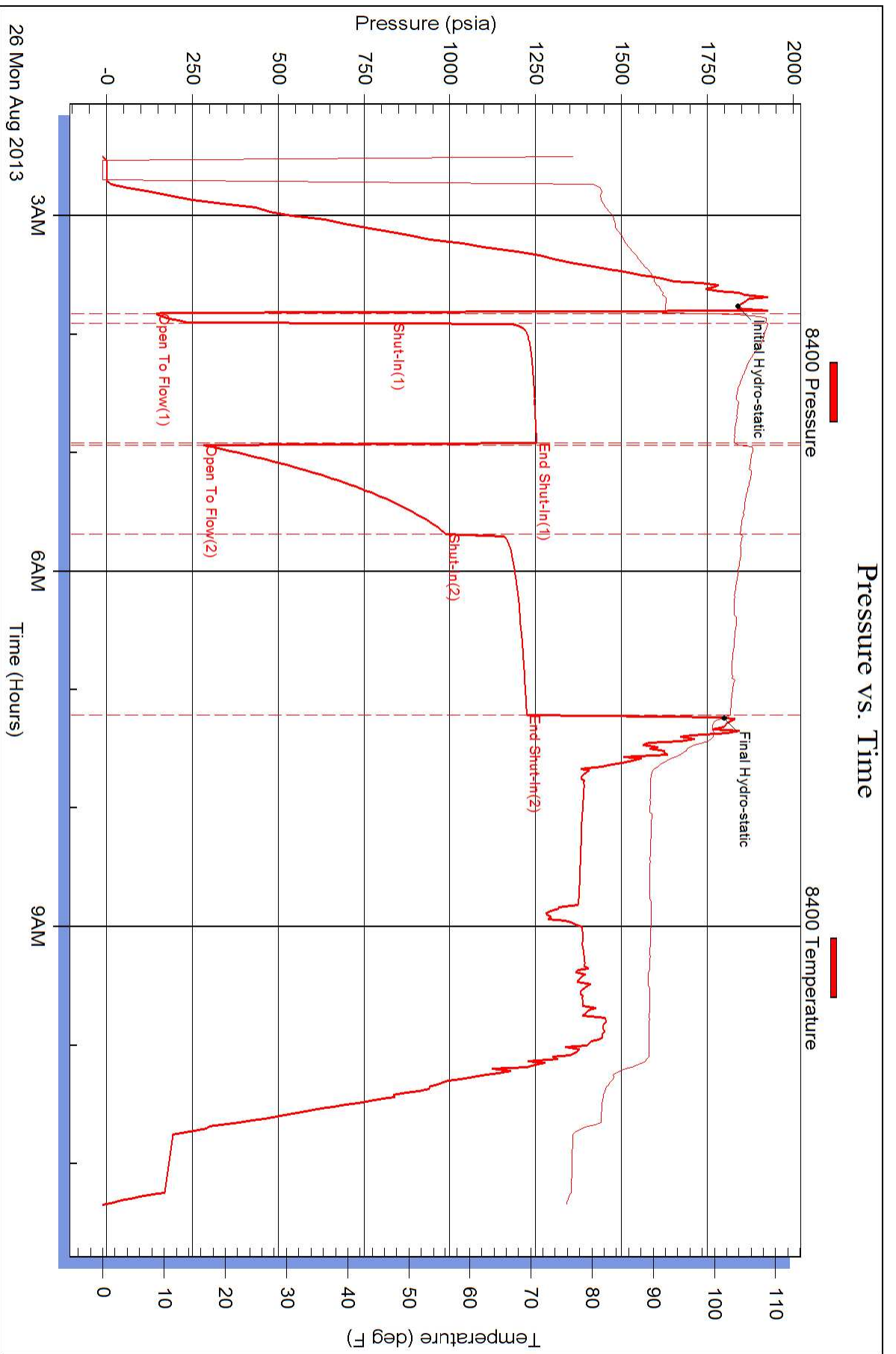
Laboratory Name:

Laboratory Location:

Recovery Comments: Reversed fluid out to a truck.

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.27 @ 17:30:00

End Date: 2013.08.28 @ 01:33:30

Job Ticket #: 18485 DST #: 12

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

Printed: 2013.08.27 @ 02:24:02



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18485

DST#: 12

ATTN: Frank Greenbaum

Test Start: 2013.08.27 @ 17:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:23:30
 Tester: Shane Konzem
 Time Test Ended: 01:33:30
 Unit No: 3330/66/Great Bend
 Interval: **3894.00 ft (KB) To 3903.00 ft (KB) (TVD)**
 Reference Elevations: 1978.00 ft (KB)
 Total Depth: 3903.00 ft (KB) (TVD)
 1970.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 8.00 ft

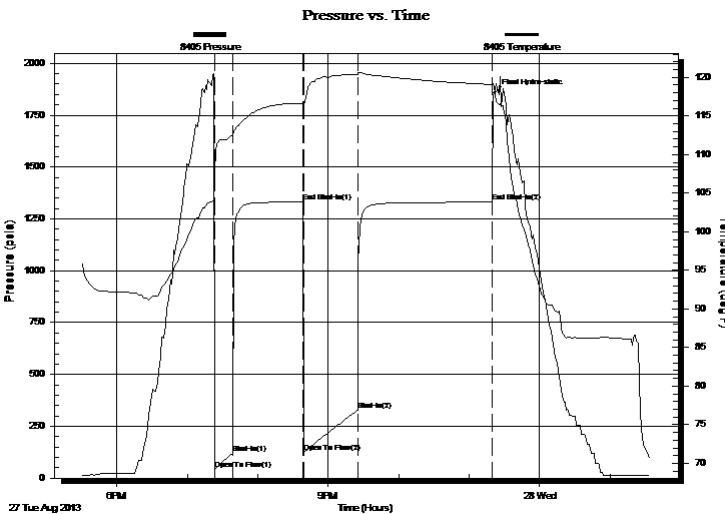
Serial #: 8405

Inside

Press @ Run Depth: 327.39 psia @ 3899.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.27 End Date: 2013.08.28 Last Calib.: 2013.08.27
 Start Time: 17:30:00 End Time: 01:33:30 Time On Btm:
 Time Off Btm: 2013.08.27 @ 23:21:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 45 Minutes. Blow built to bottom of 5 gallon bucket in 15 Minutes.
 2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



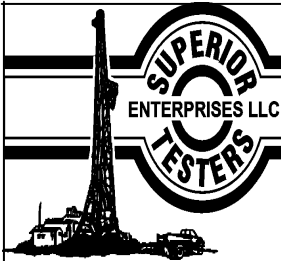
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	40.76	107.60	Open To Flow (1)
15	119.01	112.56	Shut-In(1)
75	1331.45	116.63	End Shut-In(1)
76	124.70	116.48	Open To Flow (2)
122	327.39	120.42	Shut-In(2)
236	1330.93	119.06	End Shut-In(2)
238	1854.32	118.82	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	690 feet of gas.	0.00
5.00	100% Clean Oil	0.07
25.00	40% mud, 60% water	0.35
630.00	100% water	8.84
0.00	Chloride recov, 26000 ppm	0.00
0.00	resist recov, .22 ohms at 50 degrees.	0.00

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18485

DST#: 12

ATTN: Frank Greenbaum

Test Start: 2013.08.27 @ 17:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:30

Time Test Ended: 01:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3894.00 ft (KB) To 3903.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1270.07 psia @ 3900.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.27

End Date:

2013.08.28

Last Calib.:

2013.08.27

Start Time: 17:30:00

End Time:

01:42:00

Time On Btm:

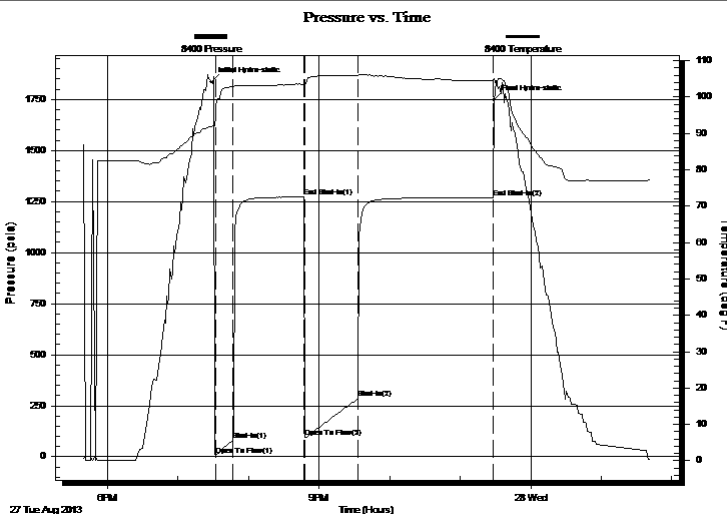
2013.08.27 @ 19:28:30

Time Off Btm:

2013.08.27 @ 23:28:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Blow built to bottom of 5 gallon bucket in 15 Minutes.
2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1835.67	91.97	Initial Hydro-static
4	9.77	94.33	Open To Flow (1)
19	80.02	102.79	Shut-In(1)
79	1271.49	103.53	End Shut-In(1)
80	93.51	103.13	Open To Flow (2)
125	285.08	105.97	Shut-In(2)
240	1270.07	104.64	End Shut-In(2)
240	1746.74	105.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	690 feet of gas.	0.00
5.00	100% Clean Oil	0.07
25.00	40% mud, 60% water	0.35
630.00	100% water	8.84
0.00	Chloride recov, 26000 ppm	0.00
0.00	resist recov, .22 ohms at 50 degrees.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18485

DST#: 12

ATTN: Frank Greenbaum

Test Start: 2013.08.27 @ 17:30:00

Tool Information

Drill Pipe:	Length: 3876.00 ft	Diameter: 3.80 inches	Volume: 54.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3894.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 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
Change Over Sub	1.00			3871.00	
Shut-In Tool	5.00			3876.00	
Hydroic Tool	5.00			3881.00	
Jars	6.00			3887.00	
Safety Joint	2.00			3889.00	
Packer	5.00			3894.00	24.00 Bottom Of Top Packer
Perforations	4.00			3898.00	
Recorder	1.00	8405	Inside	3899.00	
Recorder	1.00	8400	Outside	3900.00	
Bullnose	3.00			3903.00	9.00 Anchor Tool
Total Tool Length:	33.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18485

DST#: 12

ATTN: Frank Greenbaum

Test Start: 2013.08.27 @ 17:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	690 feet of gas.	0.000
5.00	100% CleanOil	0.070
25.00	40% mud, 60% w ater	0.351
630.00	100% w ater	8.837
0.00	Chloride recov, 26000 ppm	0.000
0.00	resist recov, .22 ohms at 50 degrees.	0.000

Total Length: 660.00 ft Total Volume: 9.258 bbl

Num Fluid Samples: 0

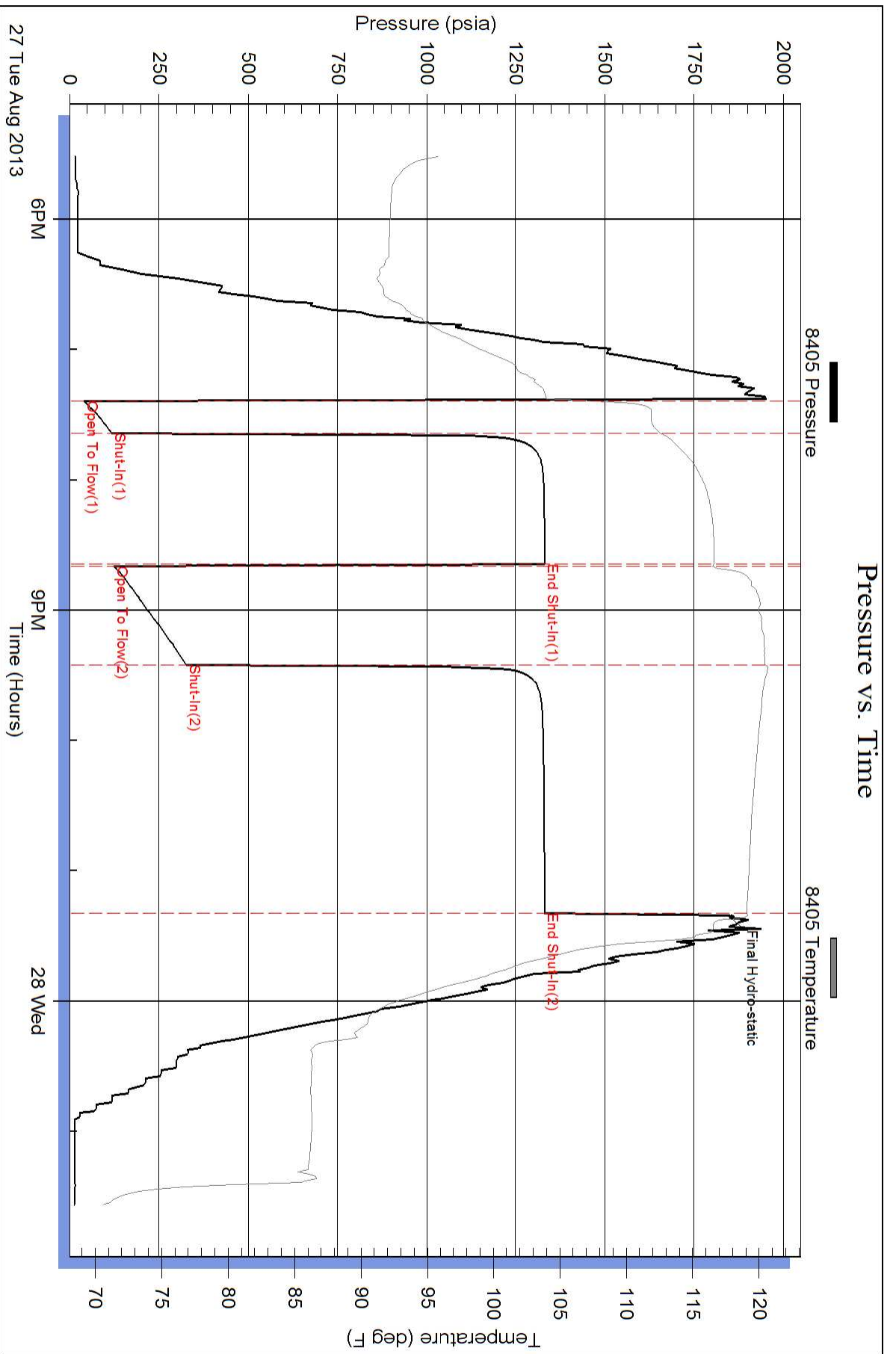
Num Gas Bombs: 0

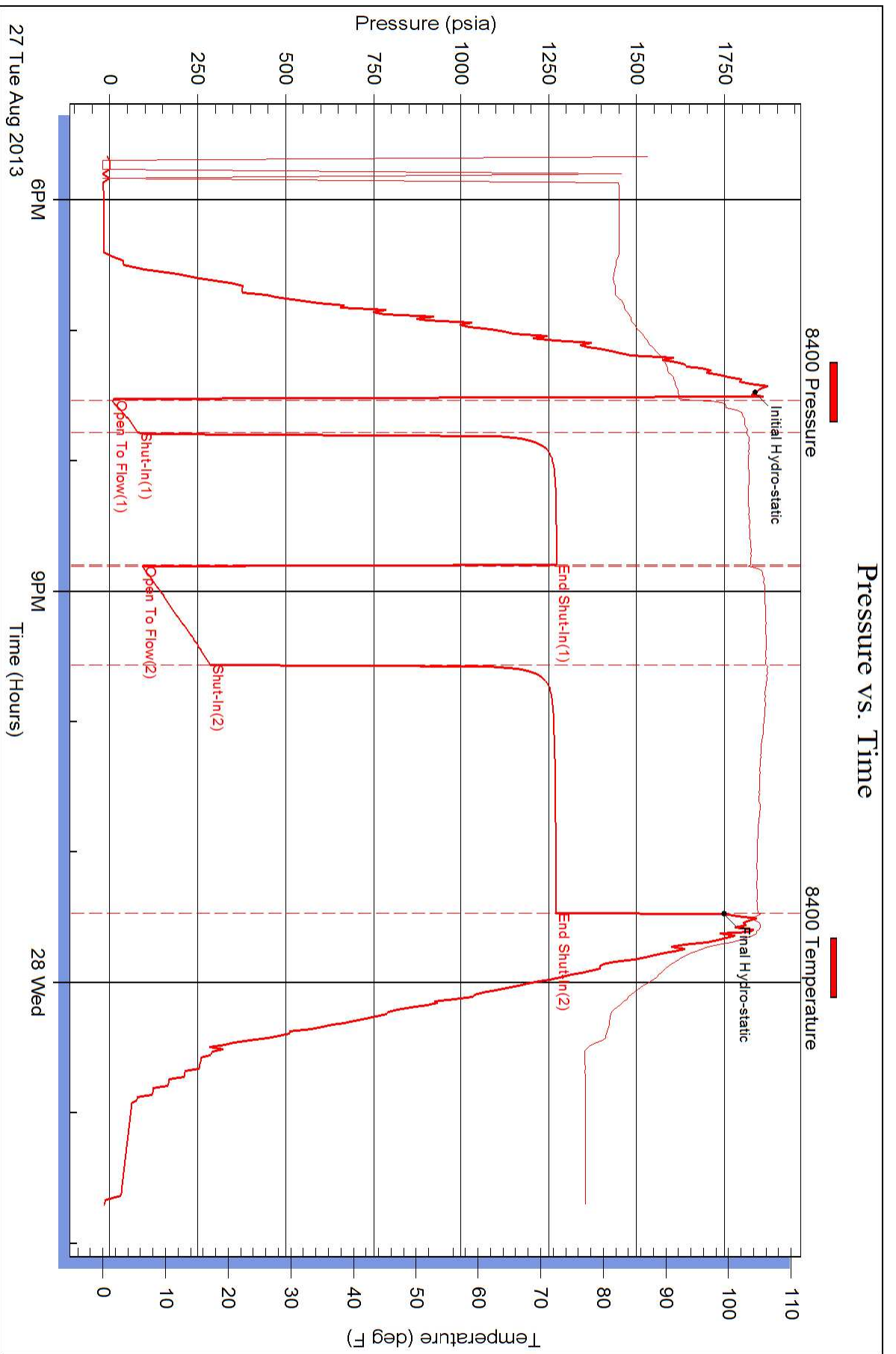
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 08710 A

DATE _____ TICKET NO. _____

DATE OF JOB: 08-28-13		DISTRICT: Paducah		NEW WELL <input type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:		
CUSTOMER: F. J. Hill				LEASE: Joint				WELL NO.:								
ADDRESS:				COUNTY: Paducah				STATE: KY								
CITY:				STATE:				SERVICE CREW: Sutton, Myron, P. J.								
AUTHORIZED BY:				JOB TYPE: CWI 5 1/2" hole												
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME						
72136-1705	1															
72136-1705	1															
37900																
						ARRIVED AT JOB				6:00						
						START OPERATION				10:00						
						FINISH OPERATION				11:30						
						RELEASED				12:00						
						MILES FROM STATION TO WELL					60					

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CC 105	1/2" cut	sk	150			
CC 107	6/16" 2 1/2" cut	sk	71			
CC 102	5/16" cut	lb	38			
CC 105	C-44	lb	36			
CC 111	Salt	lb	672			
CC 115	C-44	lb	141			
CC 129	7/16" 3/2"	lb	141			
CC 201	cut	lb	1274			
CF 607	Large diameter pipe 5"	sk	1			
CF 1251	Hub 2 1/2"	sk	1			
CF 1151	Tool joint	sk	1			
CF 1961	cut	sk	1			
CF 302	cut sample	sk	60			
CF 154	Sample flask	1AL	500			
CF 100	cut	sk	60			
CF 101	Hub 2 1/2"	sk	120			
					SUB TOTAL	16

CHEMICAL / ACID DATA:			

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

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

BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 ~~08711~~ A
CONT

DATE: _____ TICKET NO. 8710

DATE OF JOB: <u>08-28-13</u> DISTRICT: <u>P2A-H KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:	
CUSTOMER: <u>F. G. HOLL</u>		LEASE: <u>5054</u> 1-2 WELL NO.:	
ADDRESS:		COUNTY: <u>PAWNEE</u> STATE: <u>KS</u>	
CITY: _____ STATE: _____		SERVICE CREW: <u>Sullivan, McFarland, Phys</u>	
AUTHORIZED BY:		JOB TYPE: <u>CPW 5 1/2 Bay Stg</u>	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>E 113</u>	<u>Bulk Nelson</u>	<u>SM</u>	<u>618</u>		
<u>PE 204</u>	<u>Depth change</u>	<u>SA</u>	<u>1</u>		
<u>PE 240</u>	<u>Blending - mixing</u>	<u>SK</u>	<u>225</u>		
<u>PE 501</u>	<u>CASING SWELL</u>	<u>SA</u>	<u>1</u>		
<u>CE 504</u>	<u>Play Contain. Patch</u>	<u>SA</u>	<u>1</u>		
<u>S 003</u>	<u>Spinner Supervision</u>	<u>SA</u>	<u>1</u>		

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>KG 14,001.47</u>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

Thank you

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



Energy services, L.P.

TREATMENT REPORT

Customer: 7. G HOLL Lease No. _____ Date: _____
 Lease: 5057 Well #: 1-2
 Field Order #: 8710 Station: Pratt Casing: 5 1/2 Depth: 4052 County: PAWNEE State: KS
 Type Job: new 5 1/2 casing Formation: _____ Legal Description: 29-21-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<u>5 1/2</u>								
Depth	Depth	From	To	Pre Pad	Max			5 Min.
<u>4052</u>								
Volume	Volume	From	To	Pad	Min			10 Min.
<u>90. 1/2</u>								
Max Press	Max Press	From	To	Frac	Avg			15 Min.
<u>2000</u>								
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
<u>RPC</u>								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load
<u>4038</u>								

Customer Representative: _____ Station Manager: CRACK Seiff Treater: [Signature]

Service Units	77646	72005	70959	19918					
Driver Names	<u>Sullivan</u>	<u>McRAW</u>	<u>Phye</u>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					on line
8:00					Trucks on line Soft, making
					Run 99 545 5 1/2 14 csg.
8:20					CASING on Bottom
8:30					Hook by circ.
10:30	150		5		at 23000
			12	3	at Super Flow
			5		SDHC
			5	4.5	mix 25 sk Scanlonjen cut
			38		mix 135 sk AH-2 cut 1.42, yield 5.27 1/2 @ 11:00
					cut mixed shut down. WASH, pump mix
					Release Plug
				5.5	at Deep
	250		69		Lift PSI
	500			3	Slow Rate
11:15	1850		93		Plug down Hunt 4-10.
			7		Plug RT w/ 30k
			5		Plug m. 1/2 in

5013
 [Signature]
 Thank you

Customer FG HOLL CO. LLC	Lease No.	Date 8-15-2013
Lease JOBT	Well # 1-2	
Field Order # 01131	Station PRATT, KS.	Casing 5 5/8" Depth
Type Job CNW - 8 5/8" S.P.	Formation TD - 976'	County PAWNEE State Ks.
		Legal Description 29-21-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8" x 2 3/8"	Tubing Size	Shots/Ft	CNT -	Acid 200 SKS. A-CON	RATE	PRESS	ISIP	
Depth 976.60'	Depth	From	To	Pre Pad @ 2.47 CUFT³	Max		5 Min.	
Volume 62 BBL	Volume	From	To	Pad 200 SKS. COMMON	Min	SJ = 20	10 Min.	
Max Press 510	Max Press	From	To	Frac @ 1.20 CUFT³	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 976.6'	Packer Depth	From	To	Flush 61 BBL	Gas Volume		Total Load	

Customer Representative R. LONG	Station Manager K. GORDLEY	Treater R. LESLEY
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Service Units	37586	19889	19843	19826	19860				
Driver Names	LESLEY	MARQUEZ	---	JONES	---				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30 AM					ON LOCATION - SAFETY MEETING
12:15 PM					RUN 24 JTS. 8 5/8" x 2 3/8" CSG.
5 PM					CENT. - 800' 450' 40'
3:45 PM					CSG. ON BOTTOM
4:00 PM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
4:10 PM	300		5	6	H ₂ O AHEAD
4:11 PM	200		88	6	MIX 200 SKS. A-CON @ 12 PPG
4:24 PM	100		43	6	MIX 200 SKS. COMMON @ 15.6 PPG
4:30 PM					SHOT DOWN - RELEASE T.R. PLUG
4:35 PM	0		0	5	START DISPLACEMENT
4:45 PM	375		50	3	SLOW RATE
5:00 PM	400		61	2	PLUG @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 20 BBL TO PIT
					JOB COMPLETE,
					THANKS LG
					R. LESLEY

Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Pawnee** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8** " @ **976** ft.
 Well **Jost #1-29** Location _____ GPM **8.22** BPM _____ " @ _____ ft.
 Contractor **Duke Drilling #2** Sec **29** TWP **21S** RNG **15W** D.P. **4.5** in. **203** FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint **Hays, Kansas** Date **8/14/2013** Engineer **Jason Whiting** Collar **6.25** in. **450** ft. **369** FT/MIN R.A. Total Depth **4050** ft.

DATE	DEPTH	WEIGHT	VISCOSITY			GELS	pH	FILTRATION/FILTRATION ANALYSIS					SAND	RETORT			L.C.M.	Pump	CUMULATIVE	REMARKS AND TREATMENT
			Sec API	PV	Yp			10 sec / 10 min.	Strip Meter	ml API	Cake 32nds	Pres. #/BBL		Cl ppm	Ca ppm	%				
8/12	0																			RURT
8/15	976	10.9	41				7.0	N/C				5,200	Hvy		18.3		81.7	Tr		Run 8 5/8 csg
8/16	1154	8.4	26	1	1	0/0	7.0	10.0	-			2,000	N/C		0.1		99.9			Drlg. Displaced w/starch @1839
8/17	1985	9.0	42	5	19	17/21	7.0	10.8	4			22m	Hvy		3.2		96.8			Mk up DST 1
8/18	2300	9.2	43	6	18	17/26	7.0	8.0	2			26m	Hvy		4.9		95.1			TO w/DST #2 DST #3 @ 2522
8/19	2792	8.5	47	12	12	12/33	11.5	8.8	1			1,900			2.1		97.9			Drlg. Displaced w/chem ~2600'
8/20	2995	9.0	50	15	15	8/33	10.5	6.4	1			3,000	20		4.8		95.2			DST #4 DST #4 @ 2995'
8/21	3461	9.3	50	16	15	8/31	9.5	7.6	1			4,900	10		6.8		93.2	Tr		CFS DST #5 @ 3461'
8/22	3510	9.3	53	15	18	8/33	10.0	8.0	1			3,900	10		6.9		93.1			DST 6 DST #6 @ 3510'
8/23	3600	9.4	50	14	16	8/35	10.5	8.0	1			5,700	20		7.5		92.5			TOH w/ DST 7 DST #7 @ 3600'
8/24	3765	9.4	52	14	16	10/39	9.5	9.6	1			8,000	20		7.4		92.6			Drlg. DST #8 @ 3632'
8/25	3883	9.0	64	17	16	11/41	10.0	8.4	1			7,000	20		4.6		95.4	1		TOH w/ bit DST #9 @ 3800'
8/26	3893	9.4	53	15	15	9/34	9.5	8.8	1			5,800	20		7.5		92.5	1		TOH w/ DST 11 DST #10 @ 3883'
8/27	3954	9.2	51	14	13	10/39	9.5	9.6	1			6,100	20		6.1		93.9	1		Drlg. DST #11 @ 3893'
8/28	4050																			Final: DST #12 @ 3903'
																			Reserve Pit, Chl content ppm: 66,000	
																			Estimated Volume: 700 bbls	

MUD-CO / SERVICE MUD INC.

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

DRILLING MUD RECAP

Materials	Sacks	Amount	Materials	Sacks	Amount	Amount
C/S HULLS	29		SUPER LIG	13		
CAUSTIC SODA	21		X-CIDE 102W	2		
DESCO	2					
DRILL PAK	7					
LIME	2					
MIL-GUARD	2					
PREMIUM GEL	420					
SALT CLAY	10					
SODA ASH	22					
STARCH	73					
						Total Mud Cost
						Trucking Cost
						Trucking Surcharge
						Taxes
						TOTAL COST