

1214167

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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	PETERSEN 1-36
Doc ID	1214167

All Electric Logs Run

CPI
CDL/CNL
DIL
BHCS
Microresistivity

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
Doc ID	1214167

Tops

Name	Top	Datum
Herrington	1912	+59
Winfield	1962	+9
Towanda	2026	-55
Fort Riley	2058	-87
B/Florence	2161	-190
Kinney LS	2180	-209
Wrefold	2212	-241
Council Grove	2231	-260
Crouse	2272	-301
Neva	2407	-436
Red Eagle	2467	-496
Onaga Shale	2619	-648
Wabaunsee	2640	-669
Root Shale	2698	-727
Stotler	2751	-780
Tarkio	2809	-838
Howard	2947	-976
Severy Shale	3004	-1033
Topeka	3022	-1051
Heebner	3276	-1305
Toronto	3294	-1323
Douglas Shale	3305	-1334
Brown Lime	3352	-1381
LKC	3363	-1392

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
Doc ID	1214167

Tops

Name	Top	Datum
Drum	3512	-1541
BKC	3604	-1633
Conglomerate	3617	-1646
Arbuckle	3630	-1659
RTD	3900	-1929

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
Doc ID	1214167

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	3748' - 50' Arbuckle	Spotted 150 gal 15% acid	
4	3729' -33' Arbuckle	Spotted 250 gal 10% acetic acid	
4	3722' - 25' Arbuckle	Spotted 250 gal 15% MOD 202 Mud acid	
4	3725' -28'	Spotted 250 gal 15% MOD 202 acid	
		350 gal 15% dsfe acid	
4	3729' -33'	250 gal 15% dsfe acid	
4	3711' - 15', 3718' - 22'		
4	3694' - 3698' Set CIBP @ 3686'		
	3630' - 40'	250 gal 15% acid	
		350 gal 15% fe acid	

Summary of Changes

Lease Name and Number: PETERSEN 1-36

API/Permit #: 15-165-22064-00-00

Doc ID: 1214167

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Production Interval #1	3620' - 3630'	3630' - 3640'
Production Interval #2		Arbuckle
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1208637	../kcc/detail/operatorEditDetail.cfm?docID=1214167



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1208637
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

CONFIDENTIAL WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
Doc ID	1208637

All Electric Logs Run

CPI
CDL/CNL
DIL
BHCS
Microresistivity

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
Doc ID	1208637

Tops

Name	Top	Datum
Herrington	1912	+59
Winfield	1962	+9
Towanda	2026	-55
Fort Riley	2058	-87
B/Florence	2161	-190
Kinney LS	2180	-209
Wrefold	2212	-241
Council Grove	2231	-260
Crouse	2272	-301
Neva	2407	-436
Red Eagle	2467	-496
Onaga Shale	2619	-648
Wabaunsee	2640	-669
Root Shale	2698	-727
Stotler	2751	-780
Tarkio	2809	-838
Howard	2947	-976
Severy Shale	3004	-1033
Topeka	3022	-1051
Heebner	3276	-1305
Toronto	3294	-1323
Douglas Shale	3305	-1334
Brown Lime	3352	-1381
LKC	3363	-1392

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
Doc ID	1208637

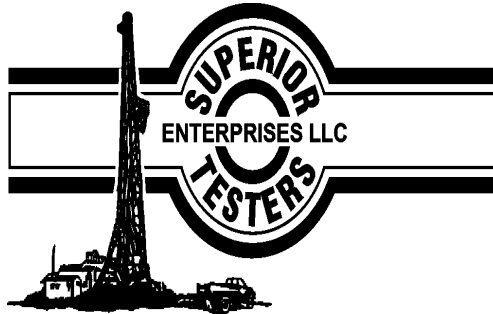
Tops

Name	Top	Datum
Drum	3512	-1541
BKC	3604	-1633
Conglomerate	3617	-1646
Arbuckle	3630	-1659
RTD	3900	-1929

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	PETERSEN 1-36
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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
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4	3722' - 25' Arbuckle	Spotted 250 gal 15% MOD 202 Mud acid	
4	3725' -28'	Spotted 250 gal 15% MOD 202 acid	
		350 gal 15% dsfe acid	
4	3729' -33'	250 gal 15% dsfe acid	
4	3711' - 15', 3718' - 22'		
4	3620' - 30'	350 gal 15% fe acid	



DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.15 @ 20:16:00

End Date: 2014.04.16 @ 03:09:00

Job Ticket #: 19281 DST #: 1

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

Printed: 2014.04.16 @ 06:17:52



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19281

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.04.15 @ 20:16:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:43:00

Time Test Ended: 03:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3580.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1761.79 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.15

End Date: 2014.04.16

Last Calib.: 2014.04.16

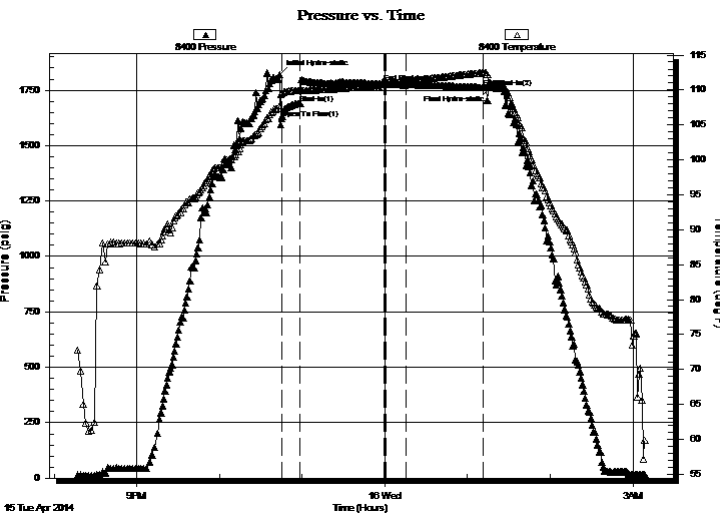
Start Time: 20:16:00

End Time: 03:08:30

Time On Btm: 2014.04.15 @ 22:43:30

Time Off Btm: 2014.04.16 @ 01:17:30

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow built 1/4 inch into bucket in 15 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 15 Minutes-Very weak surge did not build
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.92	107.78	Initial Hydro-static
2	1621.54	109.52	Open To Flow (1)
15	1690.43	109.90	Shut-In(1)
76	1784.17	110.84	End Shut-In(1)
77	1780.51	110.88	Open To Flow (2)
92	1789.01	111.23	Shut-In(2)
148	1761.79	112.48	End Shut-In(2)
154	1764.15	110.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19281

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.04.15 @ 20:16:00

Tool Information

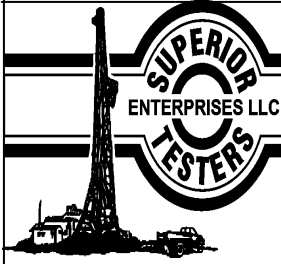
Drill Pipe:	Length: 3561.00 ft	Diameter: 3.80 inches	Volume: 49.95 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 49.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3580.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 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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Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Jars	6.00			3568.00	
Safety Joint	2.00			3570.00	
Packer	5.00			3575.00	28.00 Bottom Of Top Packer
Packer	5.00			3580.00	
Change Over Sub	0.50			3580.50	
Drill Pipe	32.00			3612.50	
Change Over Sub	0.50			3613.00	
Recorder	1.00			3614.00	
Recorder	1.00			3615.00	
Anchor	22.00			3637.00	
Bullnose	3.00			3640.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19281

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2014.04.15 @ 20:16:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 6200.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

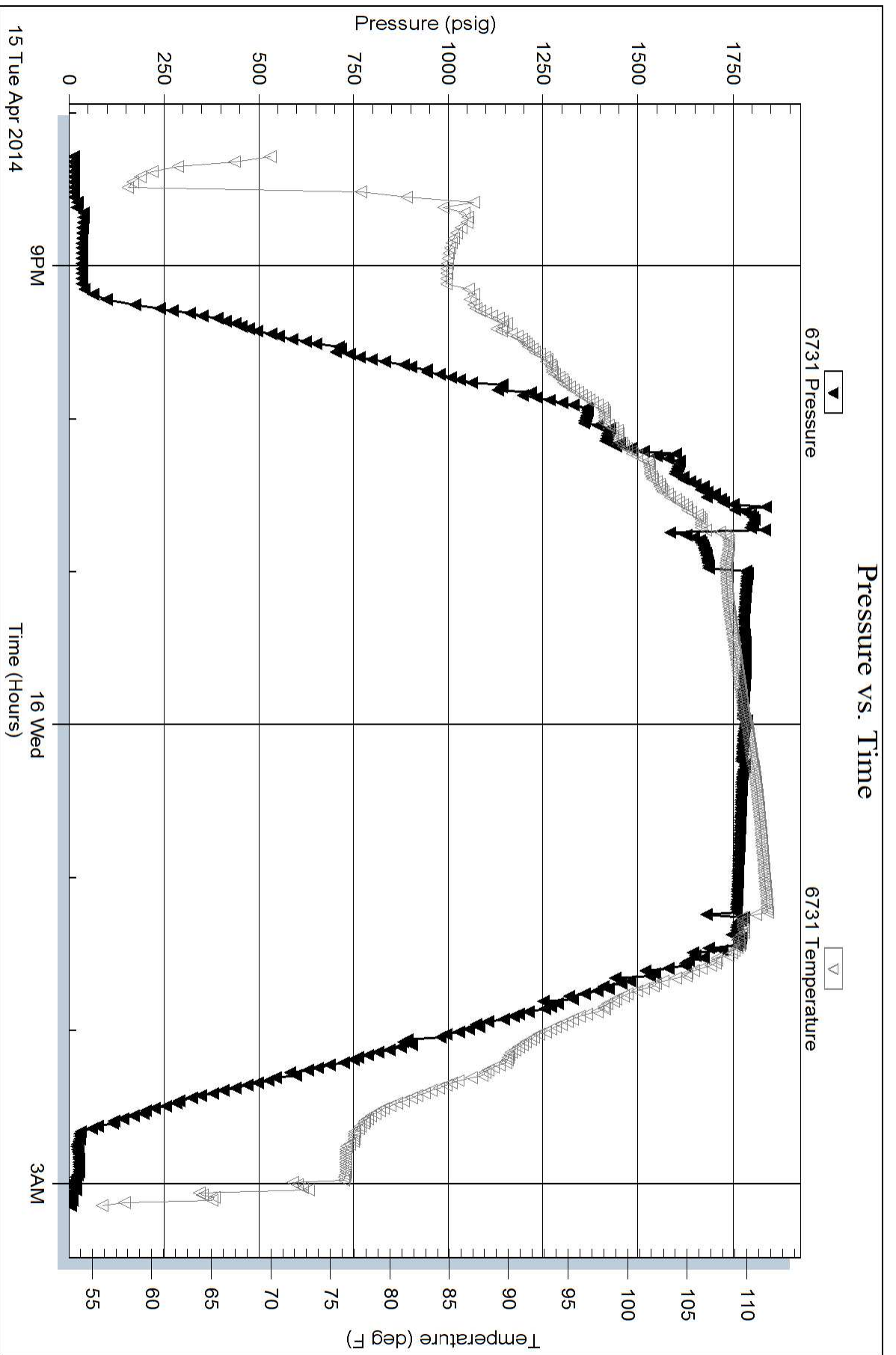
Num Gas Bombs: 0

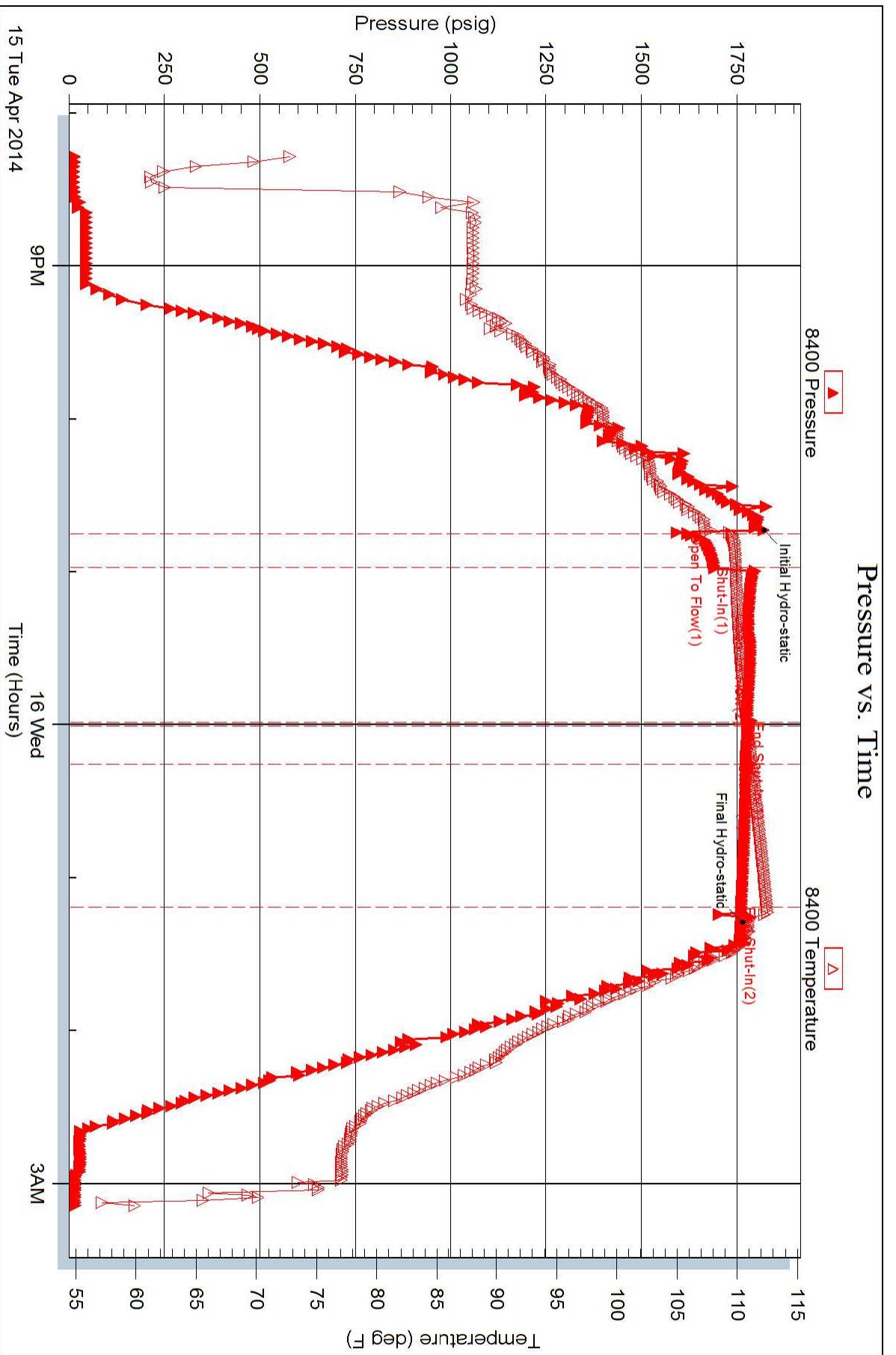
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.16 @ 10:07:00

End Date: 2014.04.16 @ 16:46:30

Job Ticket #: 19282 DST #: 2

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

Printed: 2014.04.16 @ 17:59:56



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19282

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.04.16 @ 10:07:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:47:30

Time Test Ended: 16:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheckj

Unit No: 3320-Great Bend-20

Interval: 3580.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 673

Press@RunDepth: 133.24 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.16

End Date: 2014.04.16

Last Calib.: 2014.04.16

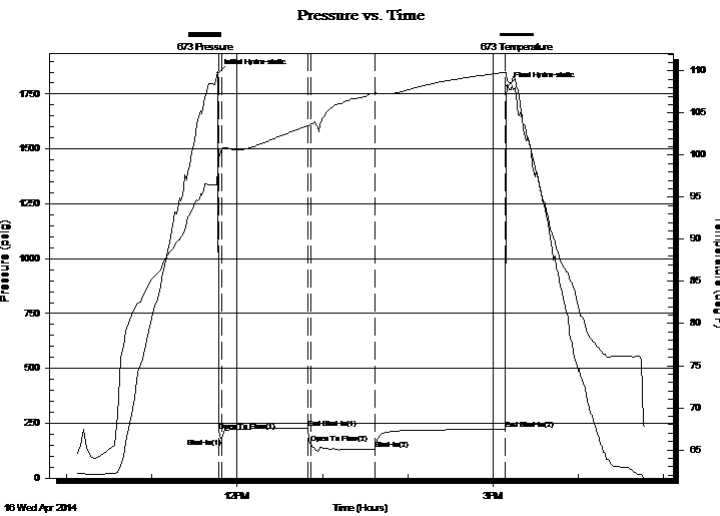
Start Time: 10:07:00

End Time: 16:46:30

Time On Btm: 2014.04.16 @ 11:46:30

Time Off Btm: 2014.04.16 @ 15:10:00

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built bottom of bucket in 30 sec
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket less then 1 minute see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.67	98.47	Initial Hydro-static
1	214.17	99.65	Open To Flow (1)
3	179.95	100.70	Shut-In(1)
64	225.60	103.50	End Shut-In(1)
65	159.17	103.61	Open To Flow (2)
111	133.24	107.36	Shut-In(2)
202	221.24	109.82	End Shut-In(2)
204	1785.43	108.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	16.00	205.07
Last Gas Rate	0.50	16.00	205.07
Max. Gas Rate	0.50	16.00	205.07



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19282

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.04.16 @ 10:07:00

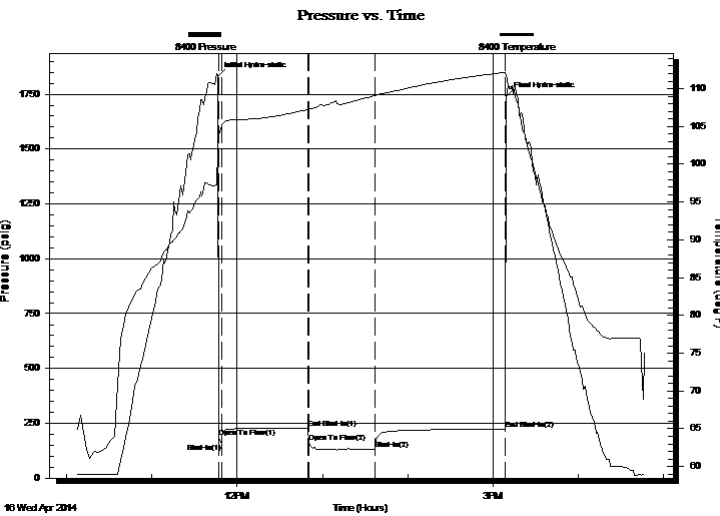
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:47:30
 Tester: Jared Scheckj
 Time Test Ended: 16:46:30
 Unit No: 3320-Great Bend-20
 Interval: **3580.00 ft (KB) To 3640.00 ft (KB) (TVD)**
 Reference Elevations: 1971.00 ft (KB)
 Total Depth: 3640.00 ft (KB) (TVD)
 1963.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 222.87 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.16 End Date: 2014.04.16 Last Calib.: 2014.04.16
 Start Time: 10:07:00 End Time: 16:46:30 Time On Btm: 2014.04.16 @ 11:46:30
 Time Off Btm: 2014.04.16 @ 15:09:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built bottom of bucket in 30 sec
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket less then 1 minute see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.49	101.91	Initial Hydro-static
1	187.80	103.86	Open To Flow (1)
3	160.63	105.03	Shut-In(1)
63	226.81	107.23	End Shut-In(1)
64	161.60	107.26	Open To Flow (2)
111	133.38	109.11	Shut-In(2)
202	222.87	112.16	End Shut-In(2)
203	1740.18	111.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	16.00	205.07
Last Gas Rate	0.50	16.00	205.07
Max. Gas Rate	0.50	16.00	205.07



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19282

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.04.16 @ 10:07:00

Tool Information

Drill Pipe:	Length: 3561.00 ft	Diameter: 3.80 inches	Volume: 49.95 bbl	Tool Weight: 1000.00 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: 75000.00 lb
			<u>Total Volume: 49.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3580.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Jars	6.00			3568.00	
Safety Joint	2.00			3570.00	
Packer	5.00			3575.00	28.00 Bottom Of Top Packer
Packer	5.00			3580.00	
Change Over Sub	0.50			3580.50	
Drill Pipe	32.00			3612.50	
Change Over Sub	0.50			3613.00	
Recorder	1.00			3614.00	
Recorder	1.00			3615.00	
Anchor	22.00			3637.00	
Bullnose	3.00			3640.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19282

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.04.16 @ 10:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud	1.683

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

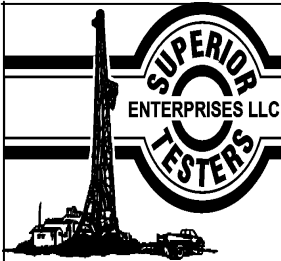
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gas sample w as taken



DRILL STEM TEST REPORT

GAS RATES

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19282

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2014.04.16 @ 10:07:00

Gas Rates Information

Temperature: 59 (deg F)

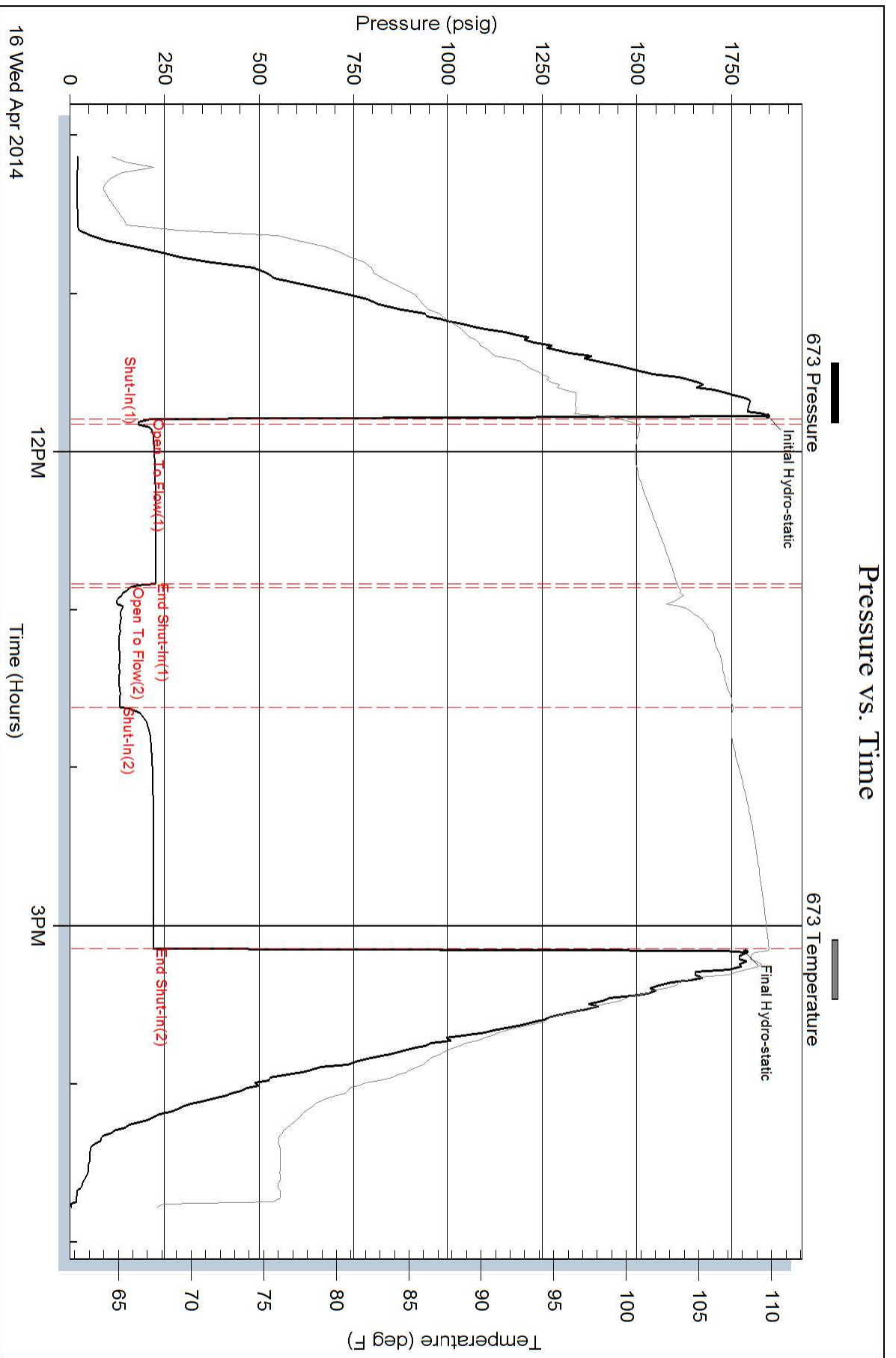
Relative Density: 0.65

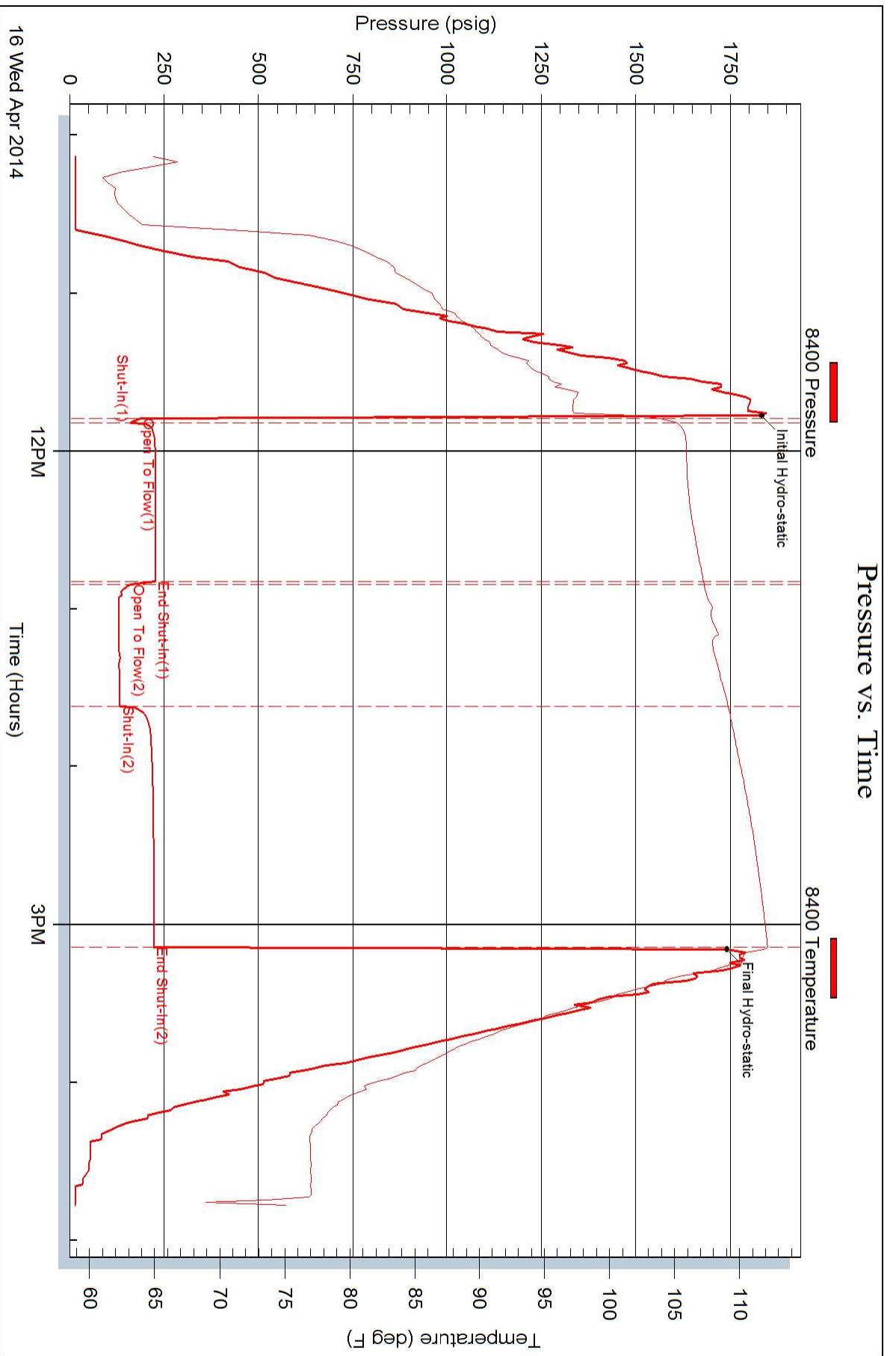
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.50	16.00	205.07
2	20	0.50	16.00	205.07
2	30	0.50	16.00	205.07
2	40	0.50	16.00	205.07

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.17 @ 00:30:00

End Date: 2014.04.17 @ 06:54:30

Job Ticket #: 19283 DST #: 3

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

Printed: 2014.04.17 @ 08:10:15



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19283

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 00:30:00

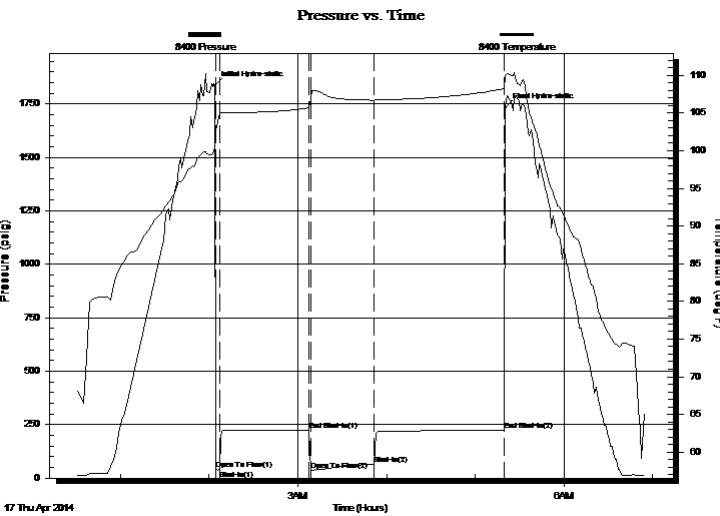
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:04:30
 Tester: Jared Scheck
 Time Test Ended: 06:54:30
 Unit No: 3320-Great Bend -20
 Interval: **3640.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Reference Elevations: 1971.00 ft (KB)
 Total Depth: 3650.00 ft (KB) (TVD)
 1963.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 64.40 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.17 End Date: 2014.04.17 Last Calib.: 2014.04.17
 Start Time: 00:30:00 End Time: 06:54:30 Time On Btm: 2014.04.17 @ 02:03:30
 Time Off Btm: 2014.04.17 @ 05:20:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built bottom of bucket in 30 sec
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 30 sec see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.12	100.37	Initial Hydro-static
1	40.67	102.80	Open To Flow (1)
4	37.46	104.81	Shut-In(1)
64	223.76	105.68	End Shut-In(1)
65	38.45	106.89	Open To Flow (2)
108	64.40	106.72	Shut-In(2)
196	222.62	108.20	End Shut-In(2)
197	1732.31	109.97	Final Hydro-static

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	11.00	40.30
Max. Gas Rate	0.25	11.00	40.30



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19283

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 00:30:00

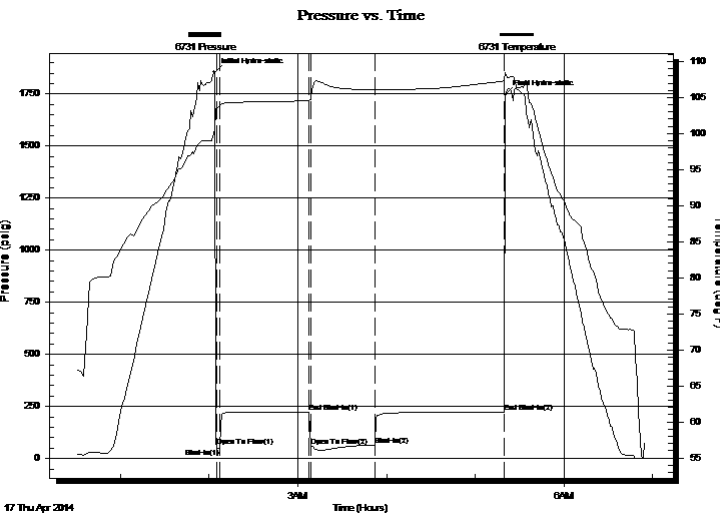
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:04:30
 Tester: Jared Scheck
 Time Test Ended: 06:54:30
 Unit No: 3320-Great Bend -20
 Interval: **3640.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Reference Elevations: 1971.00 ft (KB)
 Total Depth: 3650.00 ft (KB) (TVD)
 1963.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 224.44 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.17 End Date: 2014.04.17 Last Calib.: 2014.04.17
 Start Time: 00:30:00 End Time: 06:54:30 Time On Btm: 2014.04.17 @ 02:03:30
 Time Off Btm: 2014.04.17 @ 05:20:30

TEST COMMENT: 1st Opening 2 Minutes-Strong blow built bottom of bucket in 30 sec
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 30 sec see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1853.48	100.57	Initial Hydro-static
2	58.49	103.70	Open To Flow (1)
4	47.71	103.81	Shut-In(1)
64	224.21	104.62	End Shut-In(1)
65	58.63	104.72	Open To Flow (2)
109	64.76	106.08	Shut-In(2)
196	224.44	107.28	End Shut-In(2)
197	1745.95	108.49	Final Hydro-static

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	11.00	40.30
Max. Gas Rate	0.25	11.00	40.30



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19283

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 00:30:00

Tool Information

Drill Pipe:	Length: 3622.00 ft	Diameter: 3.80 inches	Volume: 50.81 bbl	Tool Weight: 1000.00 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: 75000.00 lb
			<u>Total Volume: 50.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3640.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

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

Shut In Tool	5.00			3622.00	
Hydraulic tool	5.00			3627.00	
Jars	6.00			3633.00	
Safety Joint	2.00			3635.00	
Packer	5.00			3640.00	23.00 Bottom Of Top Packer
Recorder	1.00			3641.00	
Recorder	1.00			3642.00	
Anchor	5.00			3647.00	
Bullnose	3.00			3650.00	10.00 Anchor Tool
Total Tool Length:	33.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19283

DST#: 3

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 00:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19283

DST#: 3

ATTN: Ryan Greenbaum

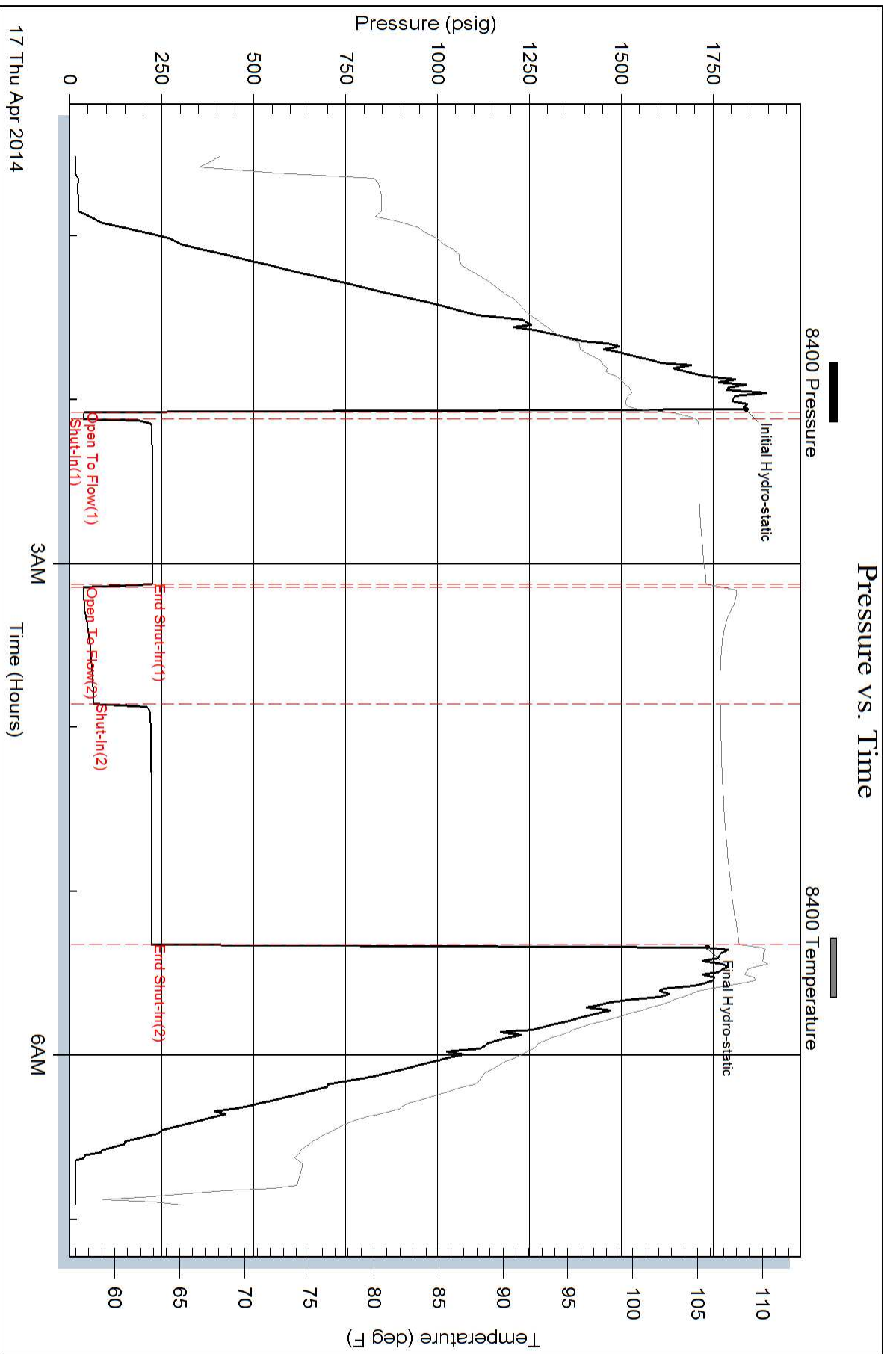
Test Start: 2014.04.17 @ 00:30:00

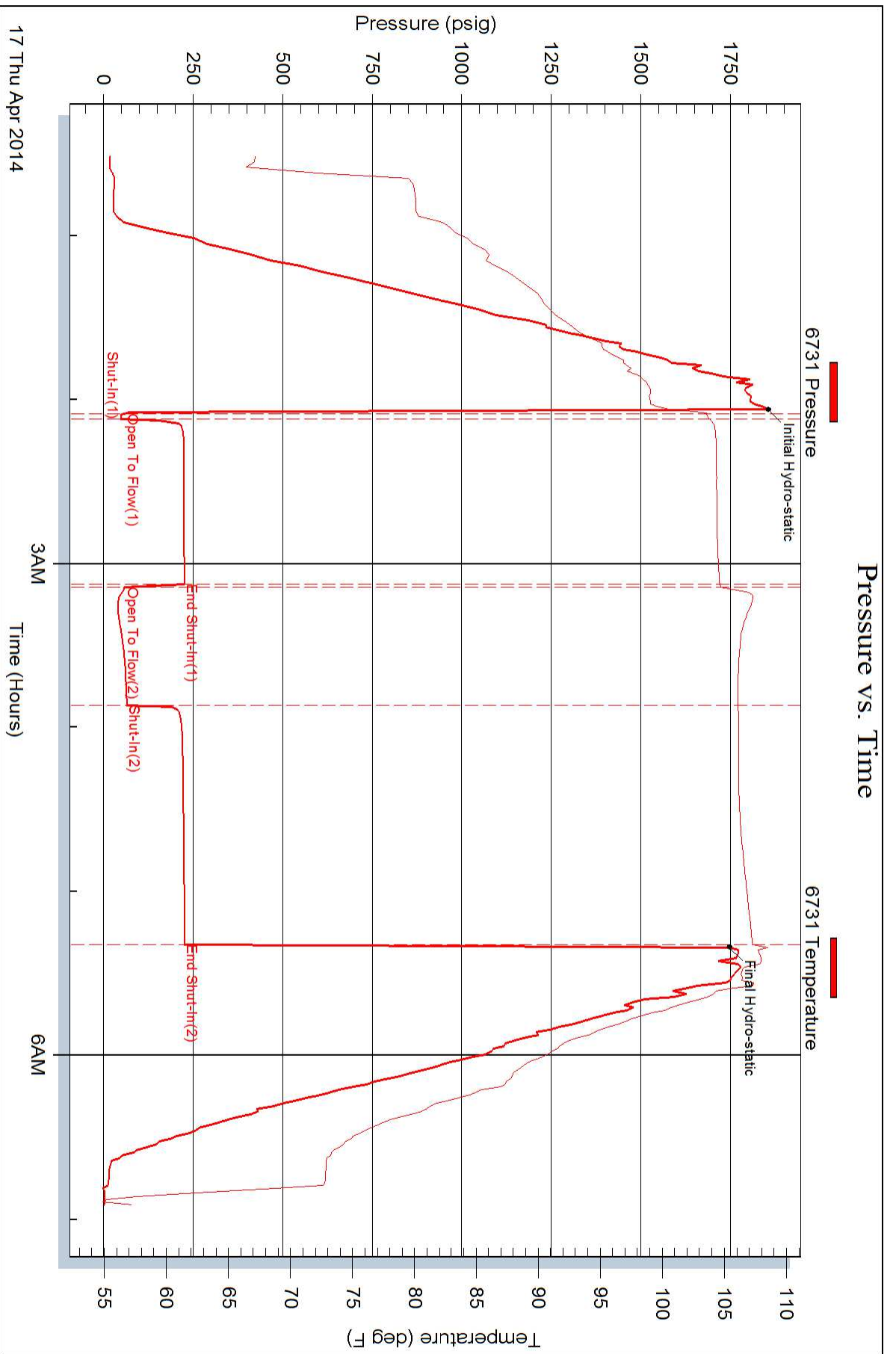
Gas Rates Information

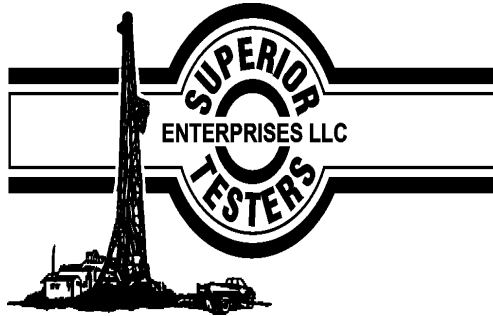
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	5.00	30.78
2	20	0.25	9.00	37.12
2	30	0.25	11.00	40.30
2	40	0.25	11.00	40.30







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.17 @ 13:30:00

End Date: 2014.04.17 @ 19:49:00

Job Ticket #: 19284 DST #: 4

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

Printed: 2014.04.17 @ 21:14:23



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19284

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -20

Interval: 3650.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3665.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 210.78 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.17

End Date: 2014.04.17

Last Calib.: 2014.04.17

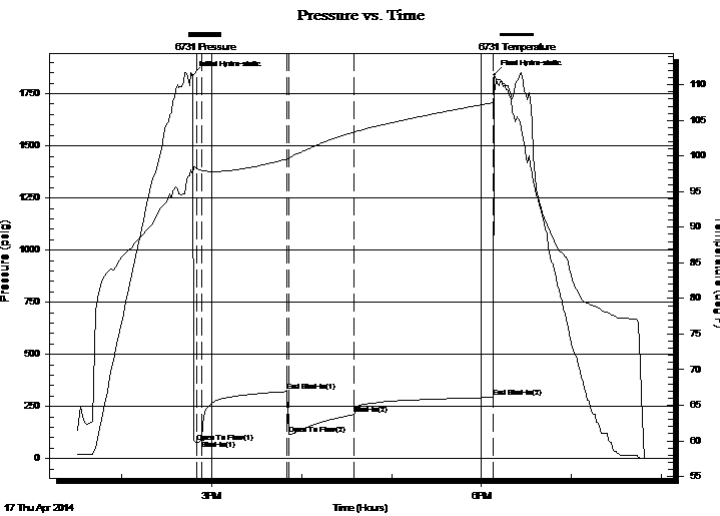
Start Time: 13:30:00

End Time: 19:49:00

Time On Btm: 2014.04.17 @ 14:47:30

Time Off Btm: 2014.04.17 @ 18:08:30

TEST COMMENT: 1st Opening 5 minutes-Strong blow built bottom of bucket in 2 minutes
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 6 minutes
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.30	97.42	Initial Hydro-static
3	77.54	98.30	Open To Flow (1)
6	86.62	97.94	Shut-In(1)
63	322.12	99.57	End Shut-In(1)
64	117.30	99.60	Open To Flow (2)
108	210.78	103.34	Shut-In(2)
200	293.63	107.47	End Shut-In(2)
201	1841.53	108.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	water	6.73
0.00	chlorides 38,000 resistivity.1@70degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19284

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -20

Interval: 3650.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3665.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 279.89 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.17

End Date: 2014.04.17

Last Calib.: 2014.04.17

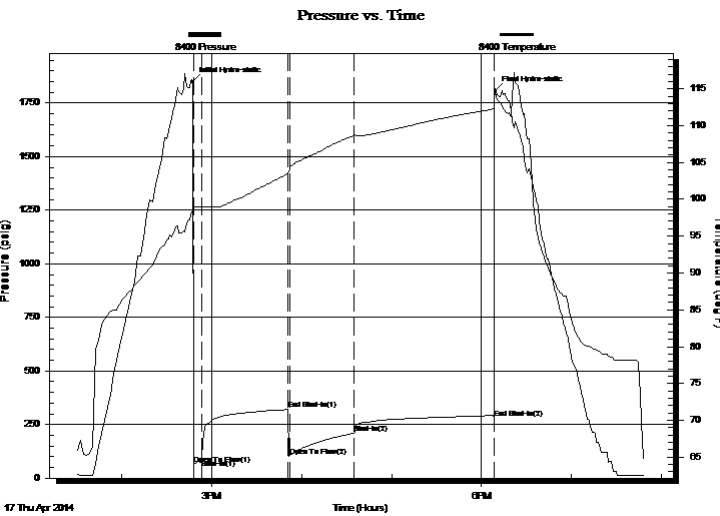
Start Time: 13:30:00

End Time: 19:49:00

Time On Btm: 2014.04.17 @ 14:47:30

Time Off Btm: 2014.04.17 @ 18:09:00

TEST COMMENT: 1st Opening 5 minutes-Strong blow built bottom of bucket in 2 minutes
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 6 minutes
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.72	98.38	Initial Hydro-static
1	64.10	98.87	Open To Flow (1)
6	88.04	98.91	Shut-In(1)
64	320.44	103.46	End Shut-In(1)
65	104.06	104.06	Open To Flow (2)
108	209.07	108.67	Shut-In(2)
201	279.89	112.25	End Shut-In(2)
202	1808.33	114.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	water	6.73
0.00	chlorides 38,000 resistivity.1@70degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19284

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 13:30:00

Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 bbl	Tool Weight: 1000.00 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: 75000.00 lb
			<u>Total Volume: 51.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3650.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

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

Shut In Tool	5.00			3632.00	
Hydraulic tool	5.00			3637.00	
Jars	6.00			3643.00	
Safety Joint	2.00			3645.00	
Packer	5.00			3650.00	23.00 Bottom Of Top Packer
Recorder	1.00			3651.00	
Recorder	1.00			3652.00	
Anchor	10.00			3662.00	
Bullnose	3.00			3665.00	15.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19284

DST#: 4

ATTN: Ryan Greenbaum

Test Start: 2014.04.17 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	water	6.733
0.00	chlorides 38,000 resistivity .1@70degrees	0.000

Total Length: 480.00 ft Total Volume: 6.733 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

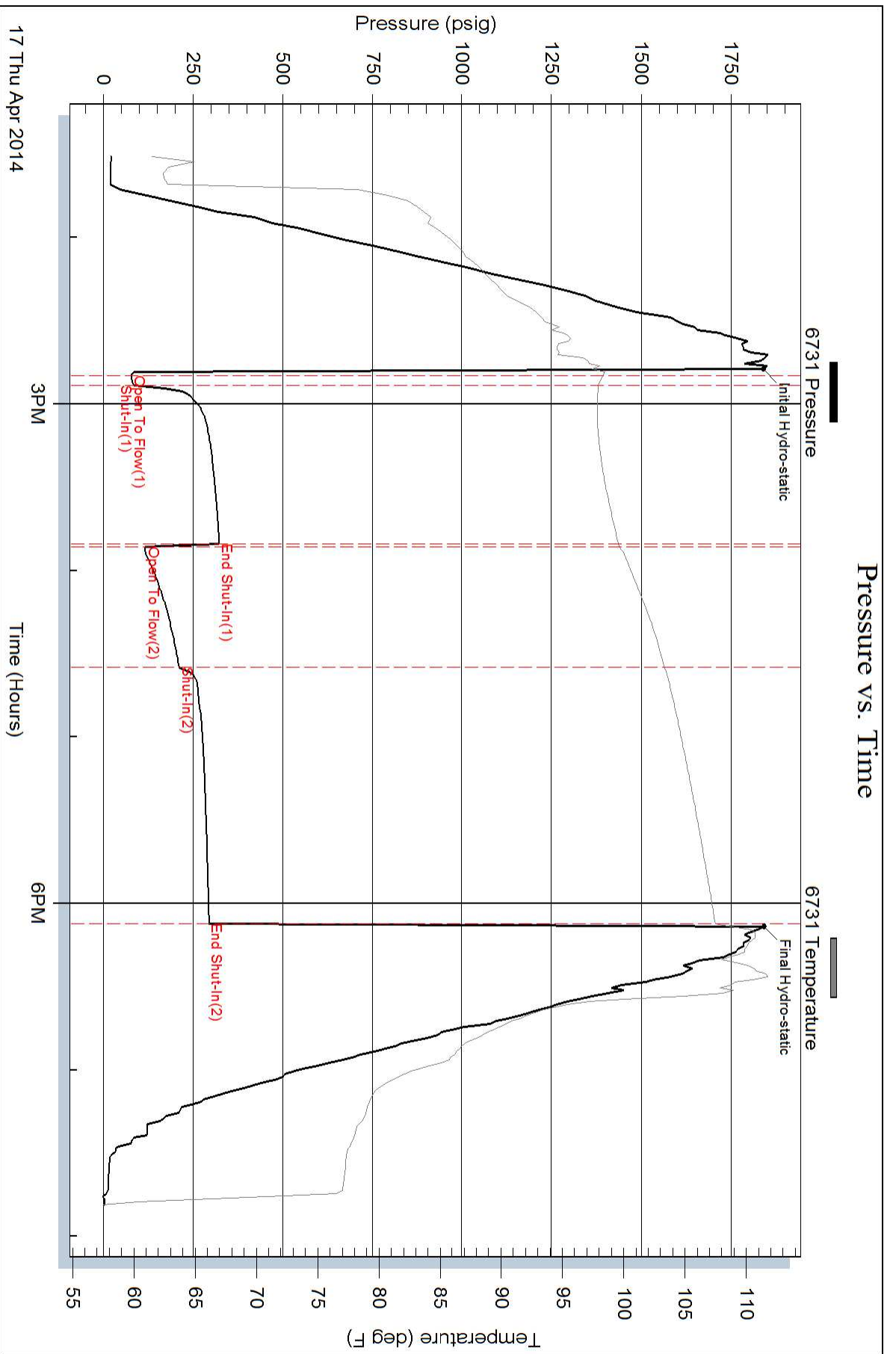
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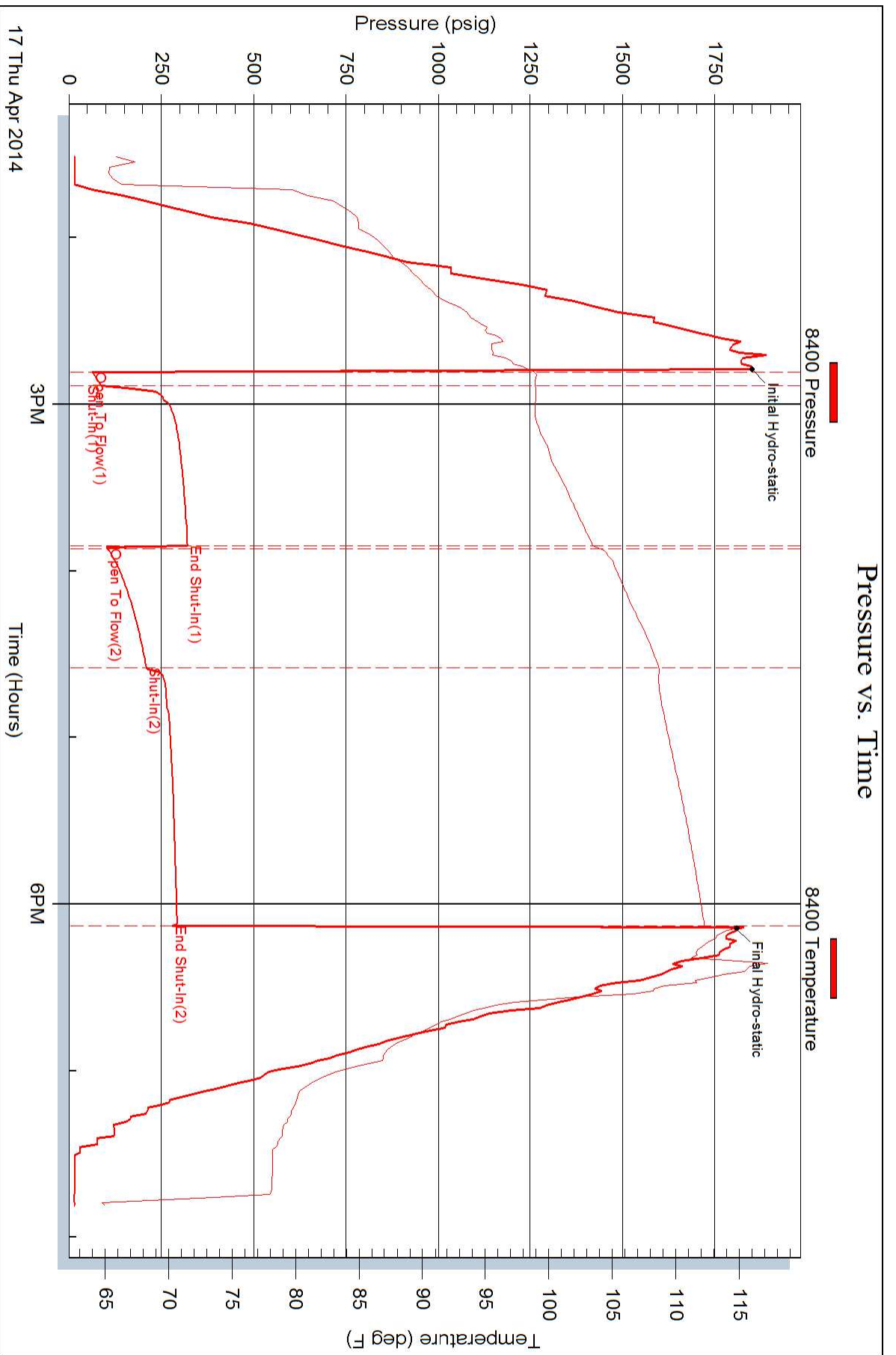
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.18 @ 04:45:00

End Date: 2014.04.18 @ 11:52:00

Job Ticket #: 19285 DST #: 5

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

Printed: 2014.04.18 @ 13:09:11



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19285

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 04:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:30

Time Test Ended: 11:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3665.00 ft (KB) To 3680.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 78.70 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.18

End Date: 2014.04.18

Last Calib.: 2014.04.18

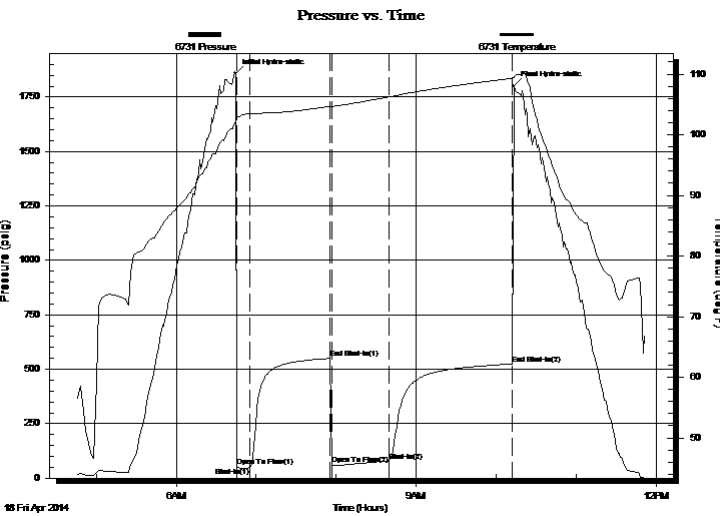
Start Time: 04:45:00

End Time: 11:52:00

Time On Btm: 2014.04.18 @ 06:44:30

Time Off Btm: 2014.04.18 @ 10:13:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 60 Minutes-Very weak
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 20 Minutes
 2nd Shut-in 90 Minutes-Very weak



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.99	102.24	Initial Hydro-static
1	55.96	102.67	Open To Flow (1)
11	47.94	103.44	Shut-In(1)
71	549.35	104.73	End Shut-In(1)
72	64.43	104.66	Open To Flow (2)
115	78.70	106.23	Shut-In(2)
208	523.91	109.34	End Shut-In(2)
209	1800.70	109.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	spot oil mud 1%oil99%mud	0.70
60.00	mud w ater 40%mud 60%w ater	0.84
0.00	chlorides 28,000 resistivity.2@60degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19285

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 04:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:30

Time Test Ended: 11:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3665.00 ft (KB) To 3680.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 524.16 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.18

End Date: 2014.04.18

Last Calib.: 2014.04.18

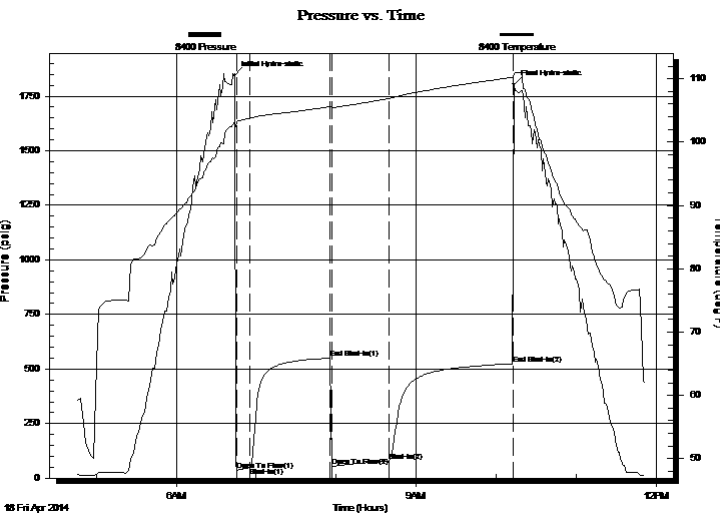
Start Time: 04:45:00

End Time: 11:52:00

Time On Btm: 2014.04.18 @ 06:44:00

Time Off Btm: 2014.04.18 @ 10:13:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 60 Minutes-Very weak
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 20 Minutes
 2nd Shut-in 90 Minutes-Very weak



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.71	103.30	Initial Hydro-static
2	36.26	103.23	Open To Flow (1)
12	48.02	103.74	Shut-In(1)
71	549.39	105.59	End Shut-In(1)
73	52.84	105.43	Open To Flow (2)
116	79.12	106.88	Shut-In(2)
209	524.16	110.22	End Shut-In(2)
210	1804.84	110.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	spot oil mud 1%oil99% mud	0.70
60.00	mud w ater 40% mud 60% w ater	0.84
0.00	chlorides 28,000 resistivity .2@60degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19285

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 04:45:00

Tool Information

Drill Pipe:	Length: 3652.00 ft	Diameter: 3.80 inches	Volume: 51.23 bbl	Tool Weight: 1000.00 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: 75000.00 lb
			<u>Total Volume: 51.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3665.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3647.00	
Hydraulic tool	5.00			3652.00	
Jars	2.00			3654.00	
Safety Joint	6.00			3660.00	
Packer	5.00			3665.00	23.00 Bottom Of Top Packer
Anchor	10.00			3675.00	
Recorder	1.00			3676.00	
Recorder	1.00			3677.00	
Bullnose	3.00			3680.00	15.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19285

DST#: 5

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 04:45:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 48.00 sec/qt
 Water Loss: 7.20 in³
 Resistivity: ohm.m
 Salinity: 5400.00 ppm
 Filter Cake: 1.00 inches

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

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

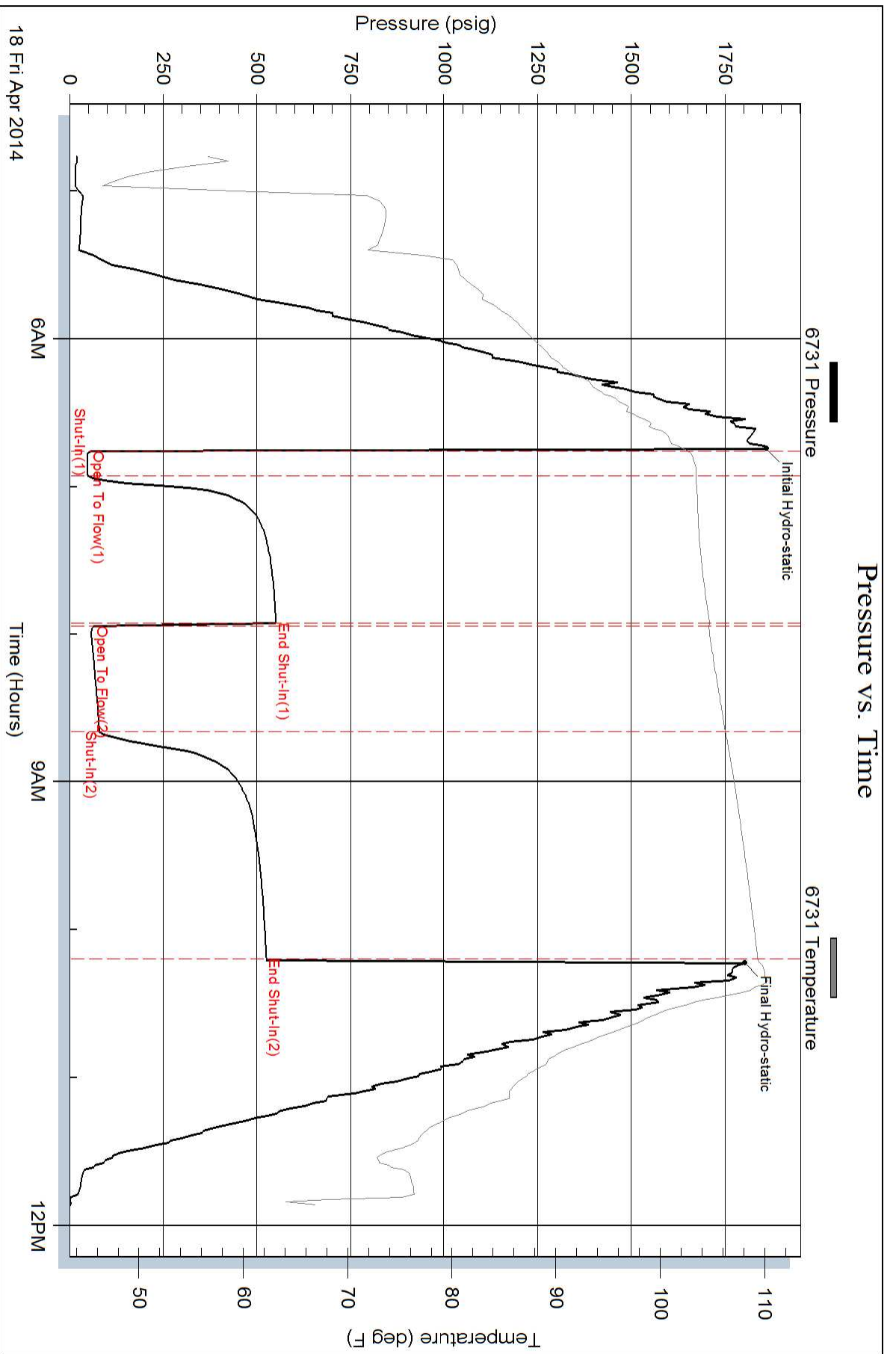
Length ft	Description	Volume bbl
50.00	spot oil mud 1%oil99%mud	0.701
60.00	mud w ater 40%mud 60%w ater	0.842
0.00	chlorides 28,000 resistivity .2@60degrees	0.000

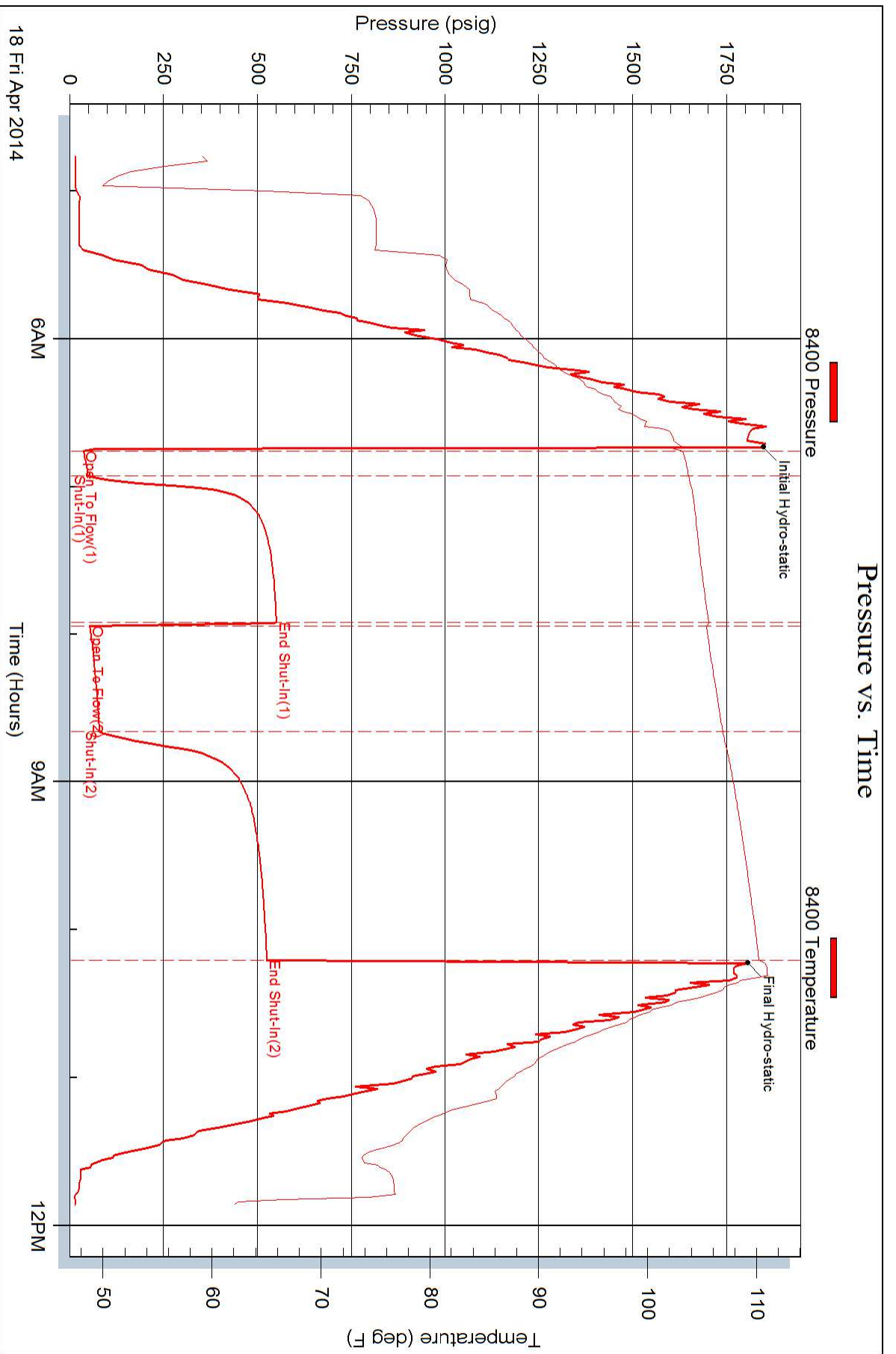
Total Length: 110.00 ft Total Volume: 1.543 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.18 @ 19:11:00

End Date: 2014.04.19 @ 02:12:00

Job Ticket #: 19286 DST #: 6

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

Printed: 2014.04.19 @ 03:33:51



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19286

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 19:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:00

Time Test Ended: 02:12:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3680.00 ft (KB) To 3695.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3695.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 44.80 psig @ ft (KB)

Capacity: psig

Start Date: 2014.04.18

End Date: 2014.04.19

Last Calib.: 1899.12.30

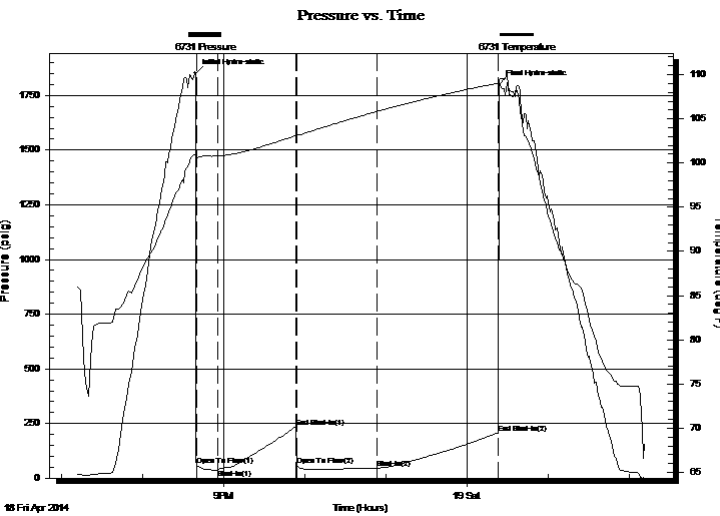
Start Time: 19:11:00

End Time: 02:12:00

Time On Btm: 2014.04.18 @ 20:39:00

Time Off Btm: 2014.04.19 @ 00:24:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow built 1 inch from bottom of bucket
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Weak blow built 1 inch from bottom of bucket in 60 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.42	101.00	Initial Hydro-static
1	60.01	100.64	Open To Flow (1)
17	38.20	100.80	Shut-In(1)
75	235.07	103.11	End Shut-In(1)
76	56.69	103.12	Open To Flow (2)
135	44.80	105.84	Shut-In(2)
224	203.09	109.04	End Shut-In(2)
225	1801.93	109.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19286

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 19:11:00

Tool Information

Drill Pipe:	Length: 3687.00 ft	Diameter: 3.80 inches	Volume: 51.72 bbl	Tool Weight: 1000.00 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: 51.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3680.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3662.00	
Hydraulic tool	5.00			3667.00	
Jars	6.00			3673.00	
Safety Joint	2.00			3675.00	
Packer	5.00			3680.00	23.00 Bottom Of Top Packer
Recorder	1.00			3681.00	
Recorder	1.00			3682.00	
Anchor	10.00			3692.00	
Bullnose	3.00			3695.00	15.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19286

DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.04.18 @ 19:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

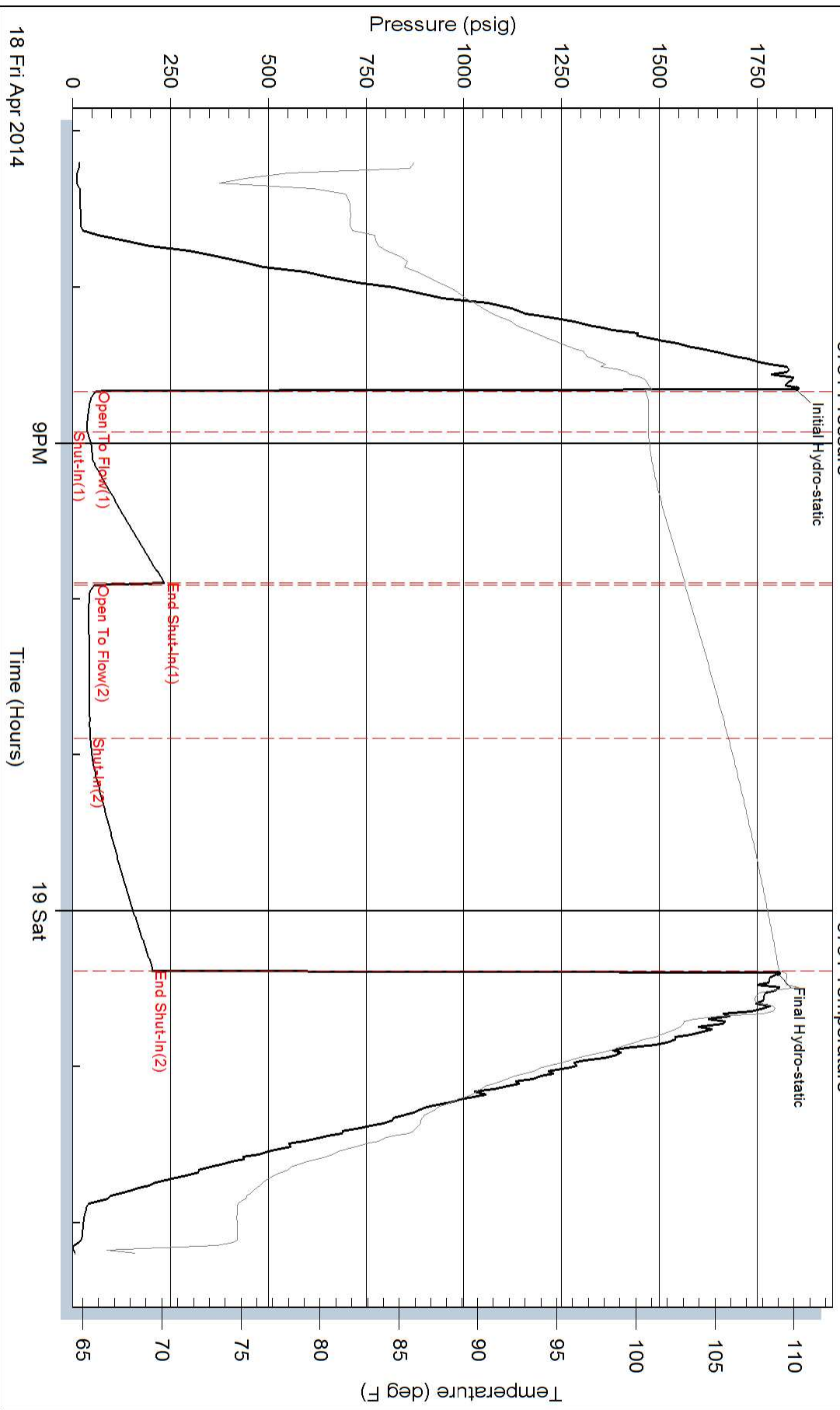
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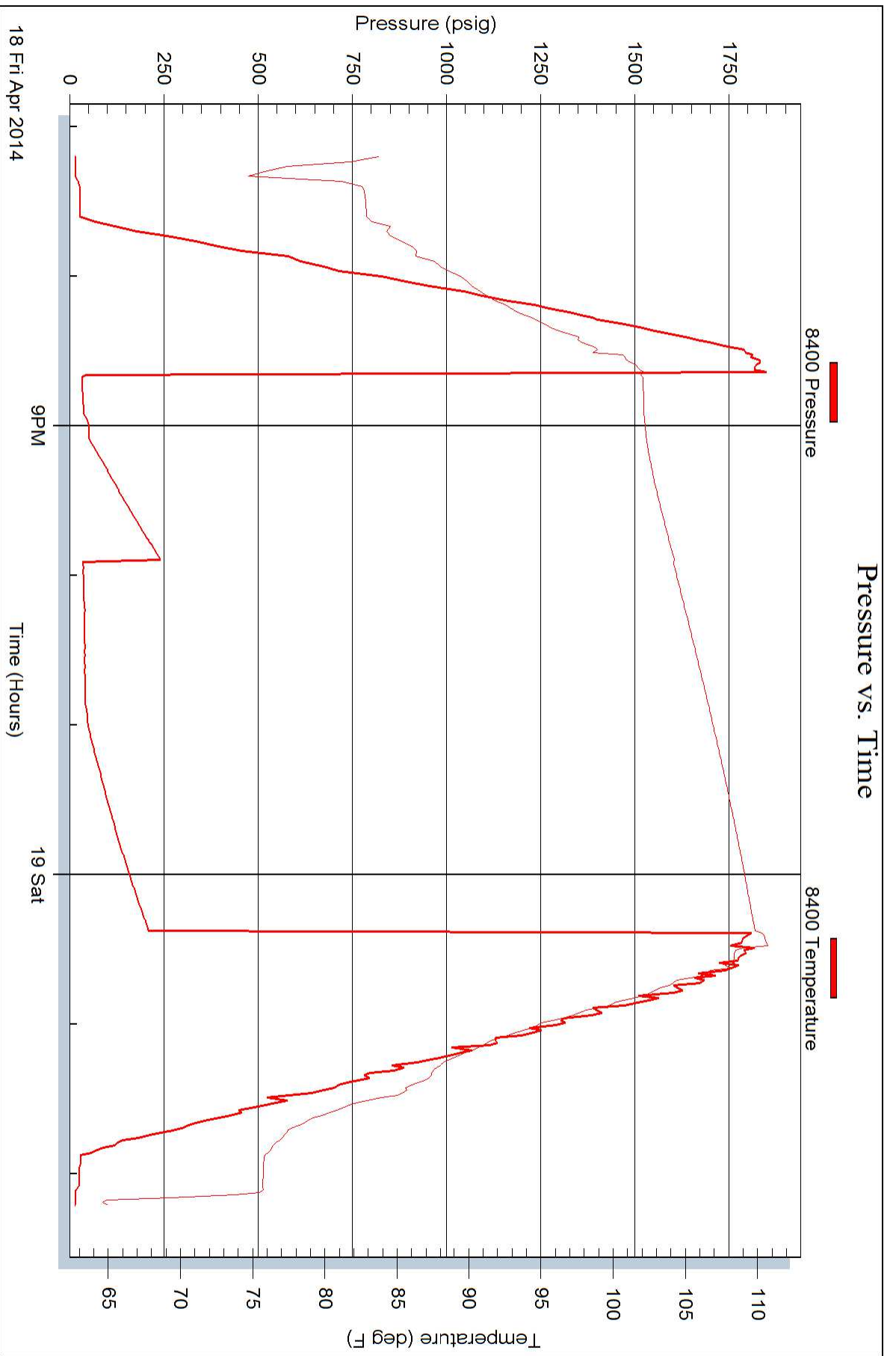
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.19 @ 10:45:00

End Date: 2014.04.19 @ 18:26:30

Job Ticket #: 19287 DST #: 7

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

Printed: 2014.04.19 @ 19:40:56



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19287

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 10:45:00

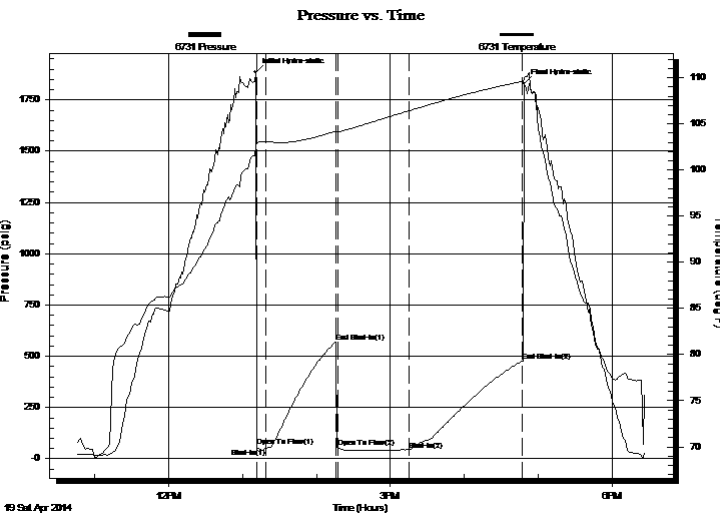
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:11:30
 Time Test Ended: 18:26:30
 Interval: **3695.00 ft (KB) To 3710.00 ft (KB) (TVD)**
 Total Depth: 3710.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend -20
 Reference Elevations: 1971.00 ft (KB)
 1963.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 44.24 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.19 End Date: 2014.04.19 Last Calib.: 2014.04.19
 Start Time: 10:45:00 End Time: 18:26:30 Time On Btm: 2014.04.19 @ 13:10:30
 Time Off Btm: 2014.04.19 @ 16:48:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Strong low built bottom of bucket in 3 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.88	102.72	Initial Hydro-static
1	59.90	102.81	Open To Flow (1)
8	50.49	103.10	Shut-In(1)
65	568.26	104.19	End Shut-In(1)
67	55.11	104.11	Open To Flow (2)
125	44.24	106.43	Shut-In(2)
217	477.09	109.60	End Shut-In(2)
218	1831.56	109.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud spot oil 1%oil 99%mud	0.42
0.00	30 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19287

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 10:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:11:30

Time Test Ended: 18:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -20

Interval: 3695.00 ft (KB) To 3710.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3710.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 483.38 psig @ ft (KB)

Capacity: psig

Start Date: 2014.04.19

End Date: 2014.04.19

Last Calib.: 1899.12.30

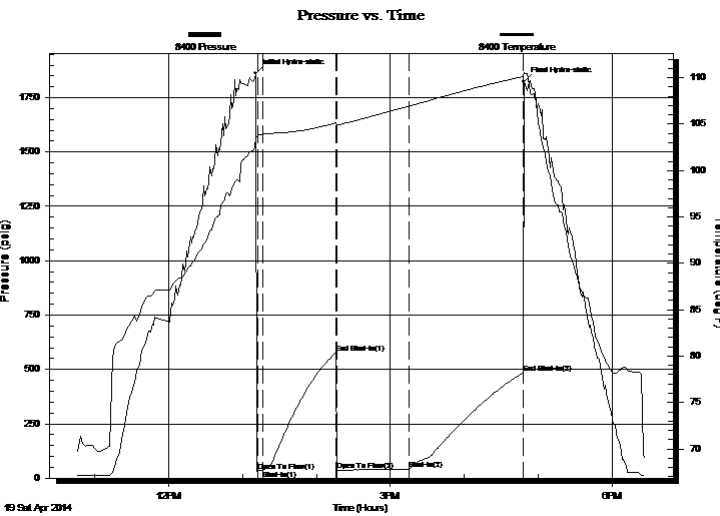
Start Time: 10:45:00

End Time: 18:27:00

Time On Btm: 2014.04.19 @ 13:10:30

Time Off Btm: 2014.04.19 @ 16:48:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Strong low built bottom of bucket in 3 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.67	103.67	Initial Hydro-static
2	32.40	103.69	Open To Flow (1)
6	34.90	103.94	Shut-In(1)
65	576.22	105.11	End Shut-In(1)
66	34.78	104.92	Open To Flow (2)
125	42.75	106.95	Shut-In(2)
217	483.38	110.12	End Shut-In(2)
218	1824.28	110.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud spot oil 1%oil 99%mud	0.42
0.00	30 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19287

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 10:45:00

Tool Information

Drill Pipe:	Length: 3682.00 ft	Diameter: 3.80 inches	Volume: 51.65 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2000.00 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: 51.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3695.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3677.00	
Hydraulic tool	5.00			3682.00	
Jars	6.00			3688.00	
Safety Joint	2.00			3690.00	
Packer	5.00			3695.00	23.00 Bottom Of Top Packer
Recorder	1.00			3696.00	
Recorder	1.00			3697.00	
Anchor	10.00			3707.00	
Bullnose	3.00			3710.00	15.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19287

DST#: 7

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 10:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud spot oil 1%oil 99%mud	0.421
0.00	30 gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

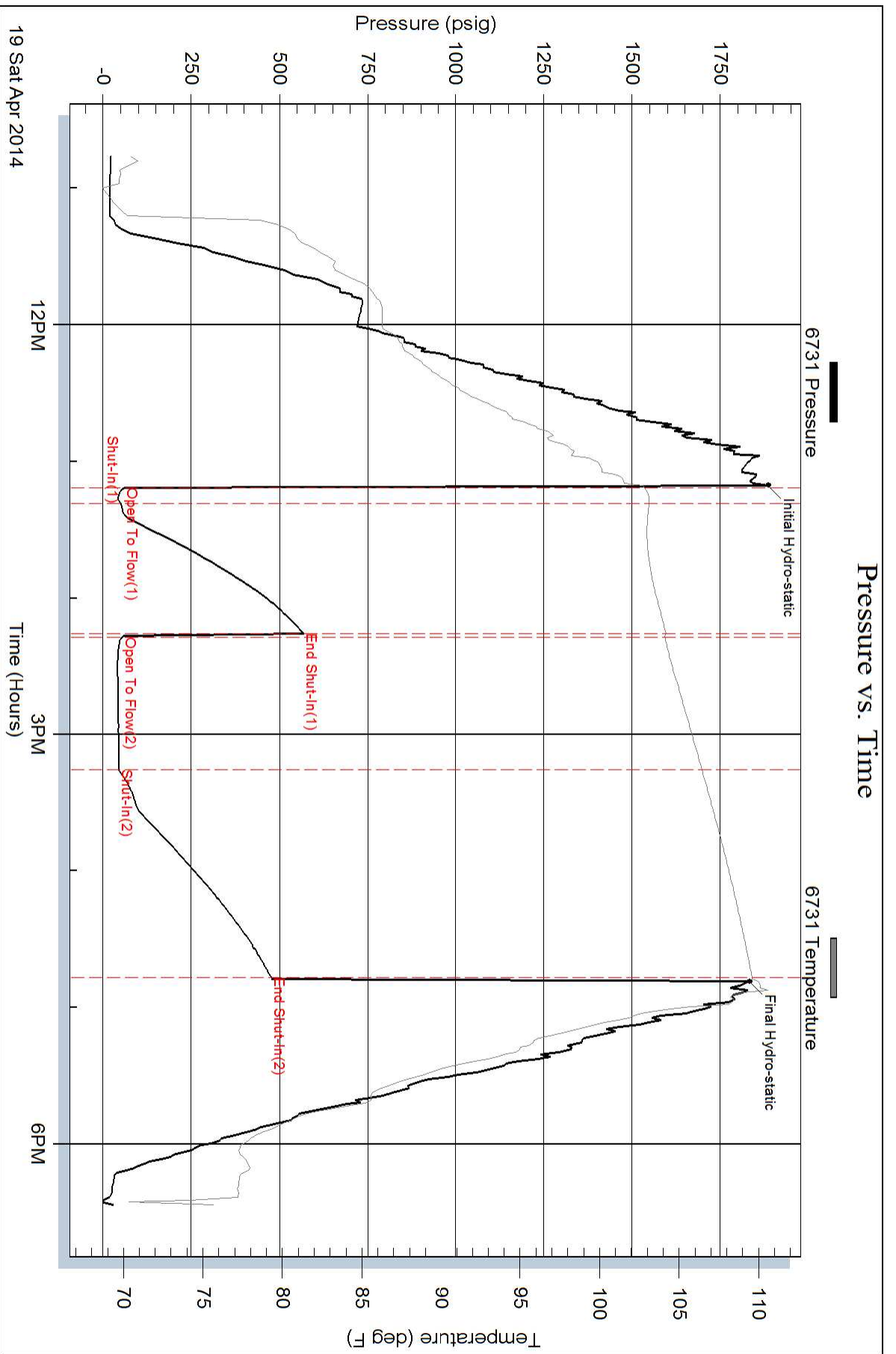
Num Gas Bombs: 0

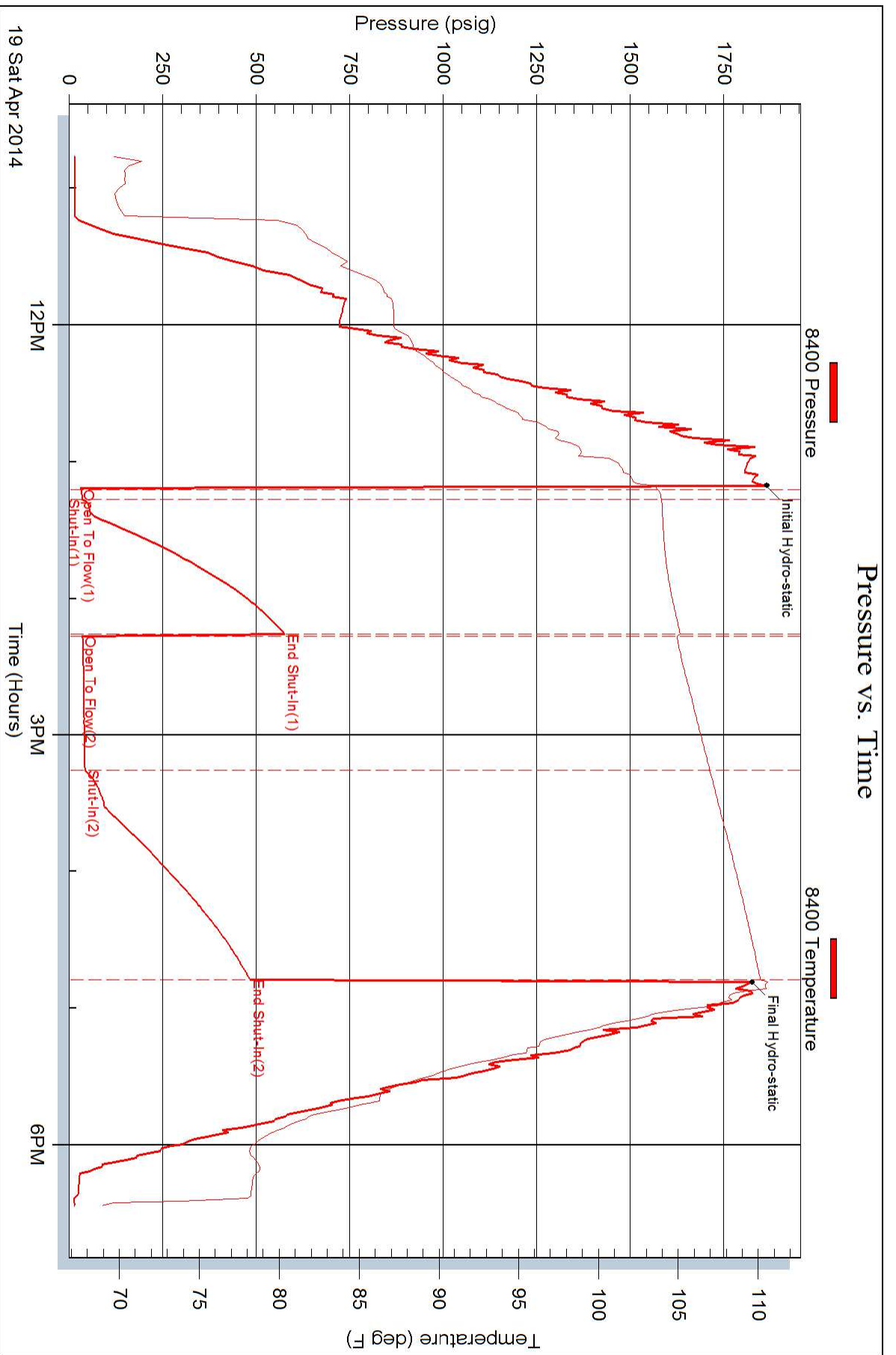
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: ruined packer







DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.19 @ 02:10:00

End Date: 2014.04.20 @ 00:00:00

Job Ticket #: 19288 DST #: 8

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

Printed: 2014.04.20 @ 11:17:47



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19288

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 02:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:58:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3710.00 ft (KB) To 3725.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3725.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 461.40 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.20

End Date: 2014.04.20

Last Calib.: 2014.04.20

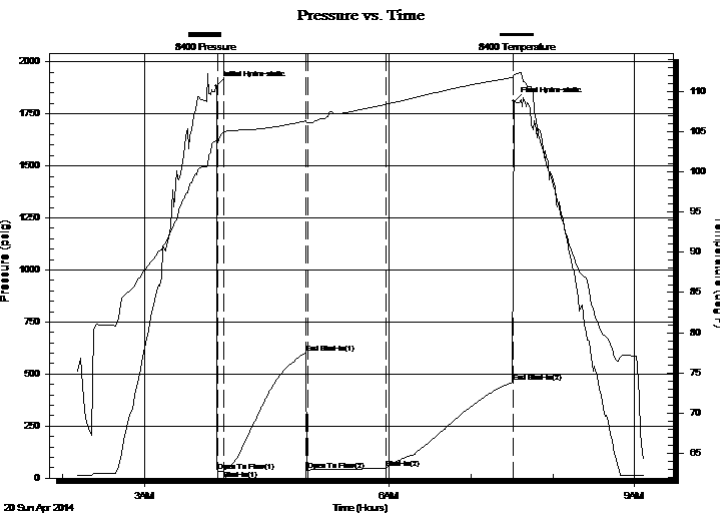
Start Time: 02:10:00

End Time: 09:07:30

Time On Btm: 2014.04.20 @ 03:53:00

Time Off Btm: 2014.04.20 @ 07:31:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 3 minutes
 1st Shut-in 60 Minutes-Weak blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 3 1/2 minutes
 2nd Shut-in 90 Minutes-WEak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.38	103.93	Initial Hydro-static
1	33.00	103.61	Open To Flow (1)
6	34.86	104.92	Shut-In(1)
66	601.46	106.36	End Shut-In(1)
67	37.48	106.15	Open To Flow (2)
125	46.44	108.42	Shut-In(2)
218	461.40	111.73	End Shut-In(2)
219	1809.92	112.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud cut oil 3%oil 97%mud	0.42
0.00	450 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19288

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 02:10:00

Tool Information

Drill Pipe:	Length: 3707.00 ft	Diameter: 3.80 inches	Volume: 52.00 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3710.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3692.00	
Hydraulic tool	5.00			3697.00	
Jars	6.00			3703.00	
Safety Joint	2.00			3705.00	
Packer	5.00			3710.00	23.00 Bottom Of Top Packer
Recorder	1.00			3711.00	
Recorder	1.00			3712.00	
Anchor	10.00			3722.00	
Bullnose	3.00			3725.00	15.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19288

DST#: 8

ATTN: Ryan Greenbaum

Test Start: 2014.04.19 @ 02:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	mud cut oil 3%oil 97%mud	0.421
0.00	450 gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

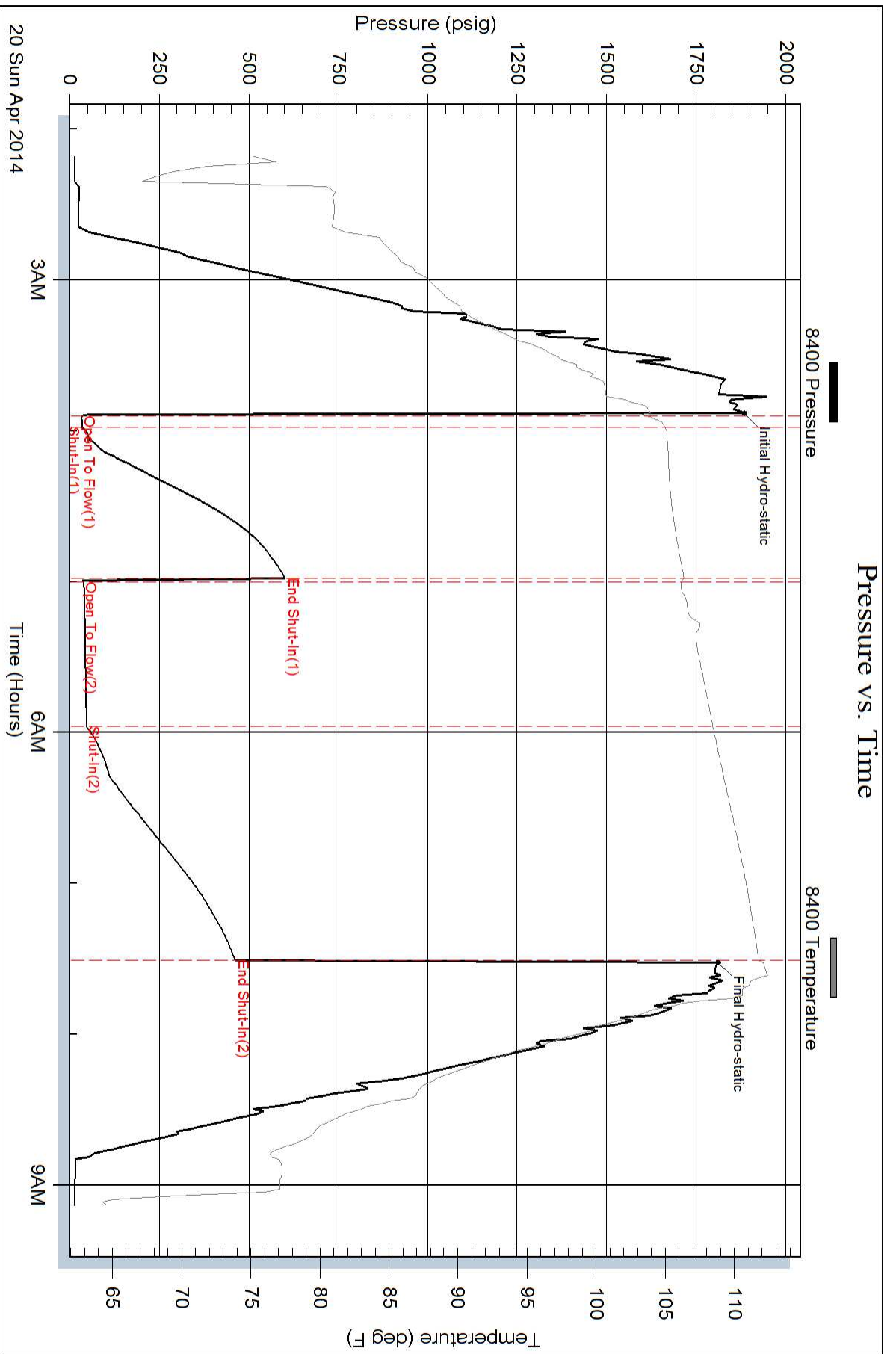
Num Gas Bombs: 0

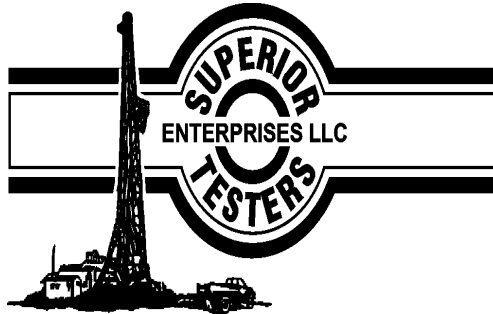
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

9431 E Central ste 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Petersen #1-36

36-19s-16w Rush

Start Date: 2014.04.20 @ 16:13:00

End Date: 2014.04.20 @ 22:05:30

Job Ticket #: 19289 DST #: 9

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

Printed: 2014.04.20 @ 23:20:58



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19289

DST#: 9

ATTN: Ryan Greenbaum

Test Start: 2014.04.20 @ 16:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:40:00

Time Test Ended: 22:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-20

Interval: 3725.00 ft (KB) To 3740.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3740.00 ft (KB) (TVD)

1963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 187.23 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.20 End Date: 2014.04.20

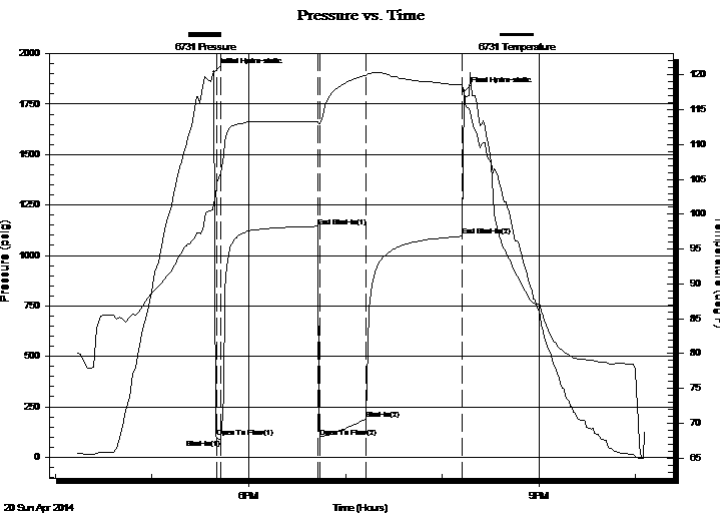
Last Calib.: 2014.04.20

Start Time: 16:13:00 End Time: 22:05:30

Time On Btm: 2014.04.20 @ 17:38:30

Time Off Btm: 2014.04.20 @ 20:13:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 30 sec
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 30 sec
 2nd Shut-in 60 Minutes-Bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.50	101.52	Initial Hydro-static
2	97.00	103.88	Open To Flow (1)
4	87.69	105.84	Shut-In(1)
65	1144.35	113.32	End Shut-In(1)
66	99.63	112.97	Open To Flow (2)
94	187.23	119.90	Shut-In(2)
154	1094.94	118.53	End Shut-In(2)
155	1814.38	117.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gas w ater cut oil 10%w ater40%gas 50%	2.52
180.00	w ater 10% mud 90%w ater	2.52
0.00	2758 feet gas in pipe	0.00
0.00	chlorides 40,000 resistivity.1@65degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19289

DST#: 9

ATTN: Ryan Greenbaum

Test Start: 2014.04.20 @ 16:13:00

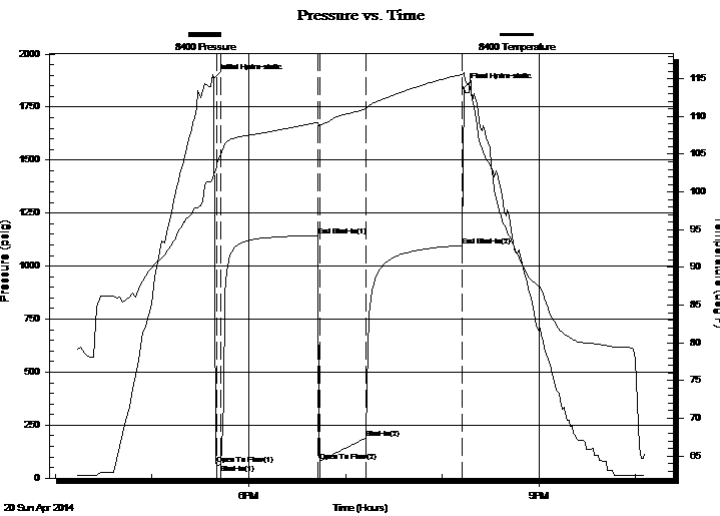
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:40:00
 Time Test Ended: 22:05:30
 Interval: **3725.00 ft (KB) To 3740.00 ft (KB) (TVD)**
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-20
 Reference Elevations: 1971.00 ft (KB)
 1963.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1097.26 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.04.20 End Date: 2014.04.20 Last Calib.: 2014.04.20
 Start Time: 16:13:00 End Time: 22:05:30 Time On Btm: 2014.04.20 @ 17:38:30
 Time Off Btm: 2014.04.20 @ 20:13:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 30 sec
 1st Shut-in 60 Minutes-Yes blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 30 sec
 2nd Shut-in 60 Minutes-Bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.53	102.21	Initial Hydro-static
2	64.20	103.42	Open To Flow (1)
4	65.47	104.91	Shut-In(1)
65	1143.92	109.22	End Shut-In(1)
66	81.21	108.92	Open To Flow (2)
94	188.60	110.97	Shut-In(2)
154	1097.26	115.57	End Shut-In(2)
155	1841.02	115.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gas w ater cut oil 10%w ater40%gas 50%	2.52
180.00	w ater 10% mud 90%w ater	2.52
0.00	2758 feet gas in pipe	0.00
0.00	chlorides 40,000 resistivity.1@65degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19289

DST#: 9

ATTN: Ryan Greenbaum

Test Start: 2014.04.20 @ 16:13:00

Tool Information

Drill Pipe:	Length: 3718.00 ft	Diameter: 3.80 inches	Volume: 52.15 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3725.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

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

Shut In Tool	5.00			3707.00	
Safety Joint	5.00			3712.00	
Jars	6.00			3718.00	
Safety Joint	2.00			3720.00	
Packer	5.00			3725.00	23.00 Bottom Of Top Packer
Recorder	1.00			3726.00	
Recorder	1.00			3727.00	
Anchor	10.00			3737.00	
Bullnose	3.00			3740.00	15.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

F G Holl Company L.L.C

36-19s-16w Rush

9431 E Central ste 100 Wichita KS 67206

Petersen #1-36

Job Ticket: 19289

DST#: 9

ATTN: Ryan Greenbaum

Test Start: 2014.04.20 @ 16:13:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 6100.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	gas w ater cut oil 10%w ater40%gas 50%oil	2.525
180.00	w ater 10% mud 90%w ater	2.525
0.00	2758 feet gas in pipe	0.000
0.00	chlorides 40,000 resistivity.1@65degrees	0.000

Total Length: 360.00 ft Total Volume: 5.050 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

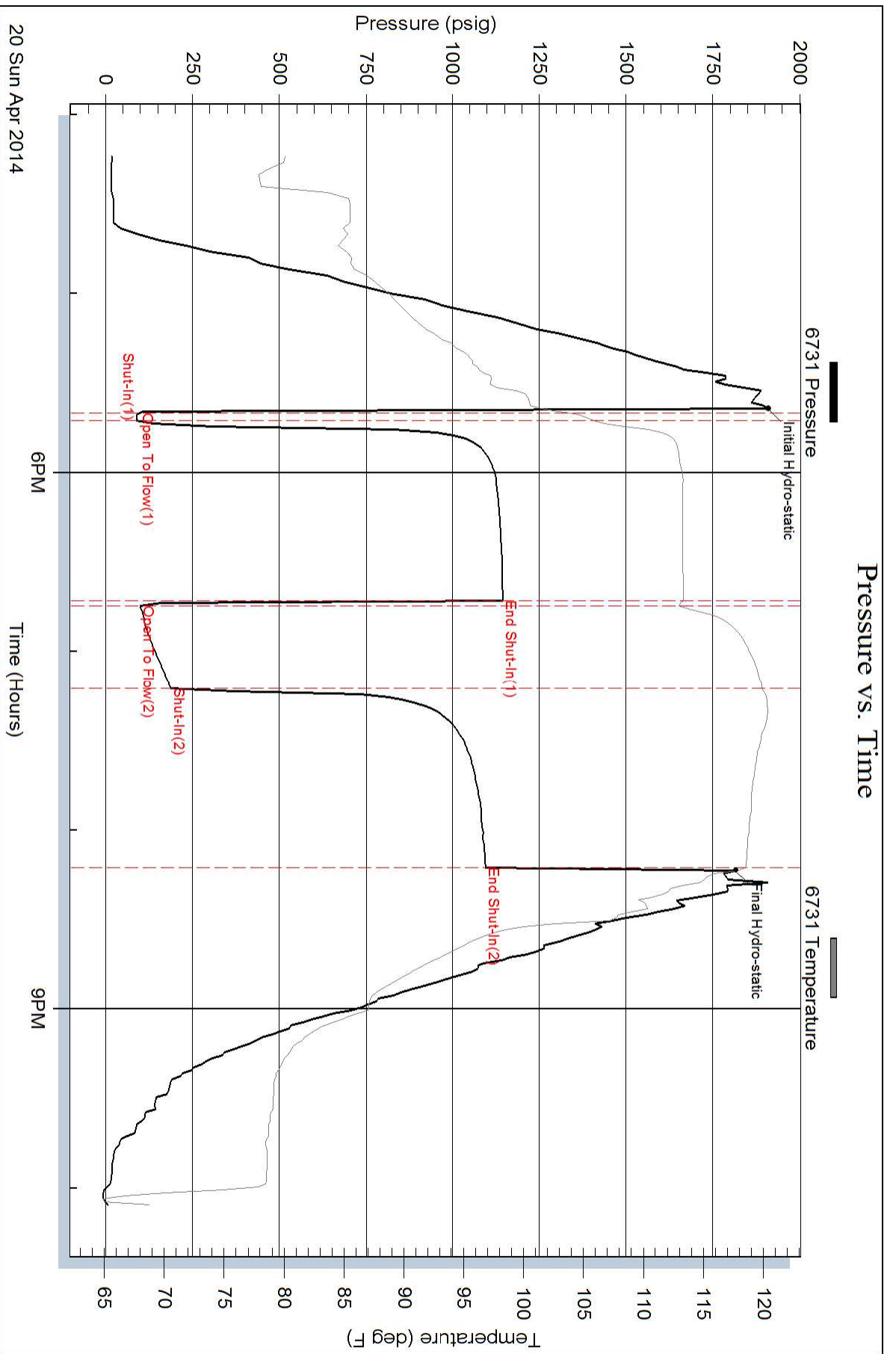
Serial #:

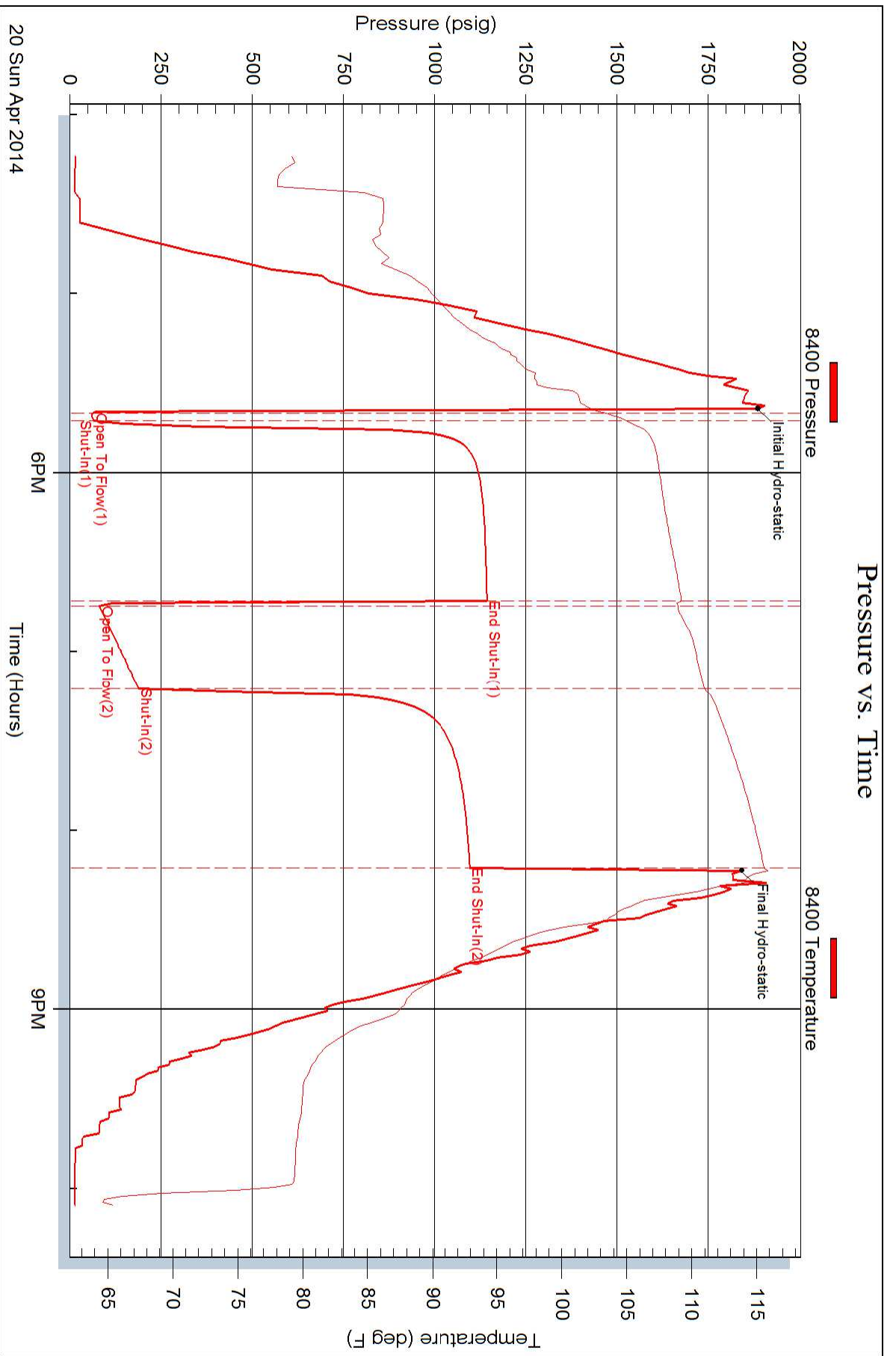
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





April 9, 2014

**FRANKLIN R GREENBAUM
HOLL, F.G., COMPANY L.L.C.
9431 E CENTRAL, SUITE 100
WICHITA, KS 67206**

**NOTICE TO OPERATOR TO PROVIDE FORMATION SAMPLES OR DRILL CUTTINGS
FOR THE
PETERSEN 1-36 S2 NW NE 36 19 16 W, RUSH COUNTY, KANSAS**

On April 8, 2014, HOLL, F.G., COMPANY L.L.C. Notice of Intent to Drill was approved by the Kansas Corporation Commission to drill the referenced well. The Kansas Geological Survey has determined the formation samples or drill cuttings retained by HOLL, F.G., COMPANY L.L.C. during drilling of the well are geologically significant. In accordance with Kansas Administrative Regulation 82-3-107, the Survey requests formation samples from the well are provided to the Survey at the above address within 120 days of either the spud or well recompletion date.

The Request to Preserve Formation Samples or Drill Cuttings form, on the reverse side of this notice, must be completed and submitted with the requested well samples or cuttings.

Unless the operator requests the Survey to process the well samples for preservation, regulations require the operator to wash, dry, cut and place the well samples in properly labeled envelopes, as shown in Fig. 1.

Well information required on each sample envelope includes:

- | | | |
|------------------|---|---|
| 1) Company name | 2) Well name and number | 3) API Number - Vertical well 000-000-00000
Horizontal well 000-000-00000-0000 |
| 4) Spot location | 5) Section, Township and Range | 6) County |
| 7) State | 8) Sample interval, start and end depths feet | 9) Circulation depth and minutes |

When the operator requests processing services or the well samples are not properly prepared or labeled as shown in Fig. 1, the Survey will process the well samples and invoice the operator for the processing service.

Well samples must be delivered to the Survey at the prepaid expense of the operator. Shipments sent COD or collect cannot be accepted.

Sample confidentiality requests must be made in writing to the Conservation Division, Kansas Corporation Commission, 130 S Market Rm 2078, Wichita, Kansas 67202. The Survey will hold the well samples for 120 days pending Conservation Division final action on the confidentiality request.

The Survey appreciates your cooperation to preserve the well samples. Please contact me should you have any questions or visit www.kgs.ku.edu/General/wichitaMap.html for additional information.

Sincerely,
KANSAS GEOLOGICAL SURVEY

Michael T. Dealy

Michael T. Dealy, L.G.
Manager Wichita Operations

Enclosure – Notice of Intent to Drill (Copy)
Request to Preserve Formation Samples Or Drill Cuttings Form



Figure 1.--Three by five inch labeled manila envelope with metal fold top.

Kansas Geological Survey – Wichita Well Sample Library
4150 W Monroe Street
Wichita Kansas 67209

REQUEST TO PRESERVE FORMATION SAMPLES OR DRILL CUTTINGS FORM

Kansas Administrative Regulation 82-3-107(c)

(To process your request, the form must be complete and submitted with the well samples)

OPERATOR

Name Franklin R Greenbaum Operator HOLL, F.G., COMPANY L.L.C.

Address 9431 E CENTRAL, SUITE 100 Telephone _____

City WICHITA State KS Zip Code 67206

SAMPLES

I am submitting the following well samples to the Sample Library because **(check only one)**:

- (a) KGS requested the samples for the Sample Library
(b) The operator wants the samples preserved and placed in the Sample Library
(c) I authorize KGS to determine the geologic significance and disposition of the samples

Well Name and Number PETERSEN 1-36

Spot Location S2 NW NE Section-Township-Range 36 19 16 W

County RUSH State KANSAS API No. 1516522064

Sample Condition: *check all that apply* Washed Bagged Labeled Wet Dry

CONFIDENTIALITY

(Samples can not be held in confidential custody, if this section is either blank, illegible, or not completed)

I want the samples placed in confidential custody: YES NO *(if YES, complete the following)*

A written confidentiality request WAS WILL BE filed with the Kansas Corporation Commission

DUPLICATE SAMPLES

I want a duplicate set of samples preserved. YES NO *(if YES, complete the following)*

Make _____ set of samples. Duplicate sample interval: All samples From _____ to _____

Send invoice and duplicate samples to: Operator Other, *(complete the following)*

Name _____ Company _____

Address _____ Telephone _____

City _____ State _____ Zip Code _____

REQUEST SUBMITTED BY

Name *(please print)* _____ Date ____/____/____

Telephone _____ Email _____



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 10553 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4-22-14	DISTRICT: 72111/KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: FC HOLDING CO LLC	LEASE: PETERSON	WELL NO. 1-36								
ADDRESS:	COUNTY: RUSH	STATE: KS								
CITY:	STATE:	SERVICE CREW: KEO JOE, SCOTT SIBTWIN								
AUTHORIZED BY:	JOB TYPE: PUMP LOW PRESSURE									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
17107							4-22-14			
711-11119	45 min					ARRIVED AT JOB				
171-19510	45 min					START OPERATION				9:15
37211						FINISH OPERATION				10:10
						RELEASED				11:11
						MILES FROM STATION TO WELL				15

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

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

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
4103	60/40 P22	SK	175		
4103	60/40 P27	SK	25		
40102	PELLETIZER	lb.	37		
40105	1-417	lb.	27		
40111	5121	lb.	663		
40113	104751111	lb.	540		
40129	FLA 322 LOW FLUID LOSS	lb.	108		
40201	1017 SCINTRE	lb.	1125		
40607	5 1/4 TURBO 1120000 PUMP	BT	1		
401751	5 1/2 TURBO FRONT SIDE	BT	1		
401151	5 1/2 TURBO 1120000	BT	8		
401901	5 1/2 BASKET	BT	1		
407002	NOVATING SCRAPPER	BT	40		
40105	SPIT LOSS 1019/1012	401	420		
40106	SPIT LOSS 1011	115	120		

CHEMICAL / ACID DATA:			

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

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

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



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

FIELD SERVICE TICKET

1718 ~~10554-A~~
CONTINUATION
DATE TICKET NO. 10553 A

DATE OF JOB: 4-22-14	DISTRICT: Petrus, Ks	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: FC Hall Co LLC	LEASE: Peterson F-36	WELL NO.:								
ADDRESS:	COUNTY: Rush	STATE: Ks								
CITY:	STATE:	SERVICE CREW:								
AUTHORIZED BY:	JOB TYPE: crew-low cost pump									
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 Gonyea
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	PICKUP MILE	MI	65		
E101	TRUCK MILE	MI	130		
E113	BUICK DELIVERY	DM	567		
CE204	DEPTH CHANGE 300' - 400'	DA	1		
CE240	BLANDRUG CHANGE	SIC	200		
CE501	CUTTING SWIVEL	DA	1		
CE504	PLUG CONTAINER	DA	1		
5003	SEWILE SUPER UPS OR	DA	1		

CHEMICAL / ACID DATA:			

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

SUB TOTAL

TOTAL

SERVICE REPRESENTATIVE: <u>K. Conway</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Rob Gonyea</u>
--	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer FC Hall	Lease No.	Date
Lease PETERSON	Well # 1-36	4-22-14
Field Order # 10553	Station PRATT, KS	Casing 5 1/2
		Depth 3890
Type Job CNW - LOWC STRONG	Formation TD-3900	Legal Description 36-19-16
		County RUSH
		State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth 3890	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 3876	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Rob	Station Manager Kevin	Treater CORDLEY
Service Units 19907	77656 19905	19826 19200
Driver Names KG	SCOTT	Shawn
		for

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0230					ON LOCATION - 14 ST.
					Run 5 1/2" CSC - 3890' - 95 JTS
					FRONTSIDE LATCH BAFFLE -
					TURBULENCE - 1-2-3-4-5-6-7-8
					BITSET - #8
					TRAIL BOTTOM - DROP BULL - CTR.
					NO DATE CASING
915	200		5	5.5	Pump P 5 bbl 15.0
			10	5	Pump P 10 bbl STOP LOSS SPACER
			6		Pump P 7.5 SK SCHEDULED CMT
	200		35	5.5	Pump P 175 SK 60/40 P02 7% CER
					1/4 #10 C.F. .75% 0-4" 10% SILET
					5% B. 4 BLM 1% FUA-322 10" SK
					1.0 D SWITE - 13.8 2.12 1.57 (F/K) 6.31 2.0
					STOP - WASH LINE - DROP PLUG
945	150		0	5.5	START DESP
	300		75	4.00	LEFT CEMENT
			40	4	SLOW RATE
1000			92.2	5	PLUG DOWN - 1 HR
					PLUG RFT HOLE - 30SK 60/40 P02
					PLUG MOUSE HOLE - 20SK 60/40 P02
					JOB COMPLETE - KEVIN

Customer FG Hall Co, LLC	Lease No.	Date 5-19-2014
Lease Dorison	Well # 1-36	
Field Order # 10653	Station PG 511, KS	Casing 5 1/2
Type Job CNW / Squeeze	Depth 104	County Rush
	Formation	State KS
		Legal Description 36-15-16

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size 2 1/8	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth 3625	From 3725	To 3733	Pre Pad	Max	2,000	5 Min.	
Volume	Volume 21	From	To	Pad	Min.		10 Min.	
Max Press	Max Press 2,000	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol. 55	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth 3625	From	To	Flush	Gas Volume		Total Load	

Customer Representative Robb Jones	Station Manager Kevin Garcia	Treater Derin Erickson
--	--	----------------------------------

Service Units 77783	77888	1950-	19862	19851				
Driver Names Derin Jones	Jones	Jones	Dele	Dele				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30					on location / Squeeze process
					R's up
	500		26	2	loss casing to 500ps.
		1800	10	1 1/2	Injection R's
		1600	4	1 1/2	mix 25% cement, 50% F1A-322, 25% Dorison
		1500	21	1 1/2	Displace
		1700	1	1/2	slow R's
					stop & wait 15 minutes
		1700	1/2	1/4	pump 1/2 bbl
					well 30'
		2,000	1/2	1/4	pump 1/2 bbl
					Block back - Here
	500		30	4	Reverse out
					Pull 5 joints
	500	500	1/4	1/4	Pressure up to 500 ps.
					Shut in
					Job complete / Derin drove
					Thank you!!!