



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1223358
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: _____

1223358

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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> <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	KUFELD 1-19
Doc ID	1223358

All Electric Logs Run

Sonic cement bond log
Computer Processed Interpretation
Fracfinder
BHCS
Microresistivity log
DIL
CDL/CNL

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KUFELD 1-19
Doc ID	1223358

Tops

Name	Top	Datum
Herrington	1767	+140
Winfield	1820	+87
Towanda	1887	+28
Fort Riley	1916	-1
B/Florence	2022	-107
Kinney Ls	2038	-123
Wrefold	2066	-151
Council Grove	2086	-171
Crouse	2126	-211
Neva	2260	-345
Red Eagle	2313	-398
Onaga Shale	2473	-558
Wbaunsee	2496	-581
Root Shale	2558	-643
Stotler	2612	-697
Willard Shale	2635	-720
Tarkio	2685	-770
Howard	2815	-900
Topeka	2892	-977
Heebner	3146	-1231
Toronto	3162	-1247
Douglas Shale	3177	-1262
Brown Lime	3231	-1316
LKC	3239	-1324

Form	ACO1 - Well Completion
Operator	F. G. Holl Company L.L.C.
Well Name	KUFELD 1-19
Doc ID	1223358

Tops

Name	Top	Datum
Drum	3380	-1465
BKC	3475	-1560
Arbuckle	3544	-1629
RTD	3770	-1855



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19 Barton

19-19s18w Barton

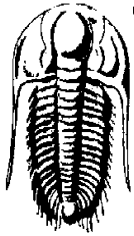
Start Date: 2014.09.07 @ 02:10:00

End Date: 2014.09.07 @ 00:00:00

Job Ticket #: 60367 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.07 @ 09:30:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

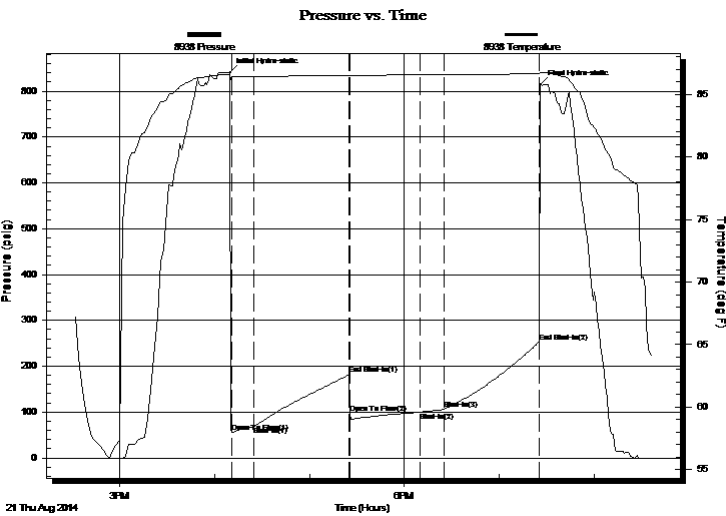
19-19s18w Barton
Kufeld #1-19 Barton
 Job Ticket: 60367 **DST#: 1**
 Test Start: 2014.09.07 @ 02:10:00

GENERAL INFORMATION:

Formation: **Herrington**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:48:00
 Time Test Ended: 00:00:00
 Interval: **1714.00 ft (KB) To 1800.00 ft (KB) (TVD)**
 Total Depth: 1800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S5-20 miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
 Press@RunDepth: 252.74 psig @ 1795.46 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.21 End Date: 2014.08.21 Last Calib.: 2014.09.07
 Start Time: 14:30:45 End Time: 20:36:45 Time On Btm: 2014.08.21 @ 16:09:45
 Time Off Btm: 2014.08.21 @ 19:26:15

TEST COMMENT: 1st Opening- 30 Minutes-Fair blow built to 9 inches
 1st Shut-In 60 Minutes-Bo blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of the bucket in 32 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

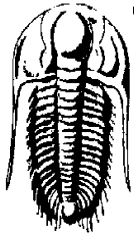
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	840.36	86.61	Initial Hydro-static
1	55.04	Open To Flow (1)	
15	69.35	86.43	Shut-In(1)
76	181.65	86.55	End Shut-In(1)
76	97.16	86.53	Open To Flow (2)
120	99.78	86.58	Shut-In(2)
136	106.44	86.59	Shut-In(3)
196	252.74	86.66	End Shut-In(2)
197	814.12	86.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Drilling mud	1.54

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

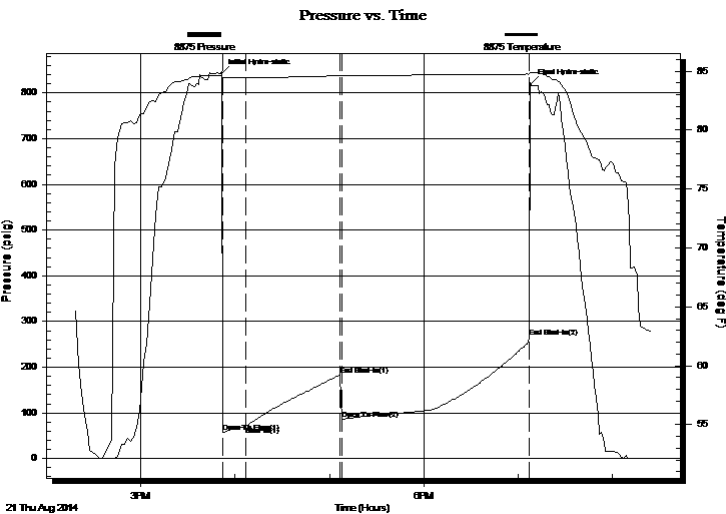
19-19s18w Barton
Kufeld #1-19 Barton
 Job Ticket: 60367 **DST#: 1**
 Test Start: 2014.09.07 @ 02:10:00

GENERAL INFORMATION:

Formation: **Herrington**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:48:00
 Time Test Ended: 00:00:00
 Interval: **1714.00 ft (KB) To 1800.00 ft (KB) (TVD)**
 Total Depth: 1800.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S5-20 miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 266.49 psig @ 1796.46 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.21 End Date: 2014.08.21 Last Calib.: 2014.09.07
 Start Time: 14:17:10 End Time: 20:24:33 Time On Btm: 2014.08.21 @ 15:51:33
 Time Off Btm: 2014.08.21 @ 19:08:03

TEST COMMENT: 1st Opening- 30 Minutes-Fair blow built to 9 inches
 1st Shut-In 60 Minutes-Bo blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of the bucket in 32 minutes
 2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	842.81	84.64	Initial Hydro-static
1	56.73	84.47	Open To Flow (1)
15	70.79	84.40	Shut-In(1)
75	183.30	84.60	End Shut-In(1)
76	86.28	84.58	Open To Flow (2)
196	266.49	84.76	End Shut-In(2)
197	820.38	84.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Drilling mud	1.54

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19 Barton

Job Ticket: 60367

DST#: 1

ATTN: Rene Husted

Test Start: 2014.09.07 @ 02:10:00

Tool Information

Drill Pipe:	Length: 1716.00 ft	Diameter: 3.80 inches	Volume: 24.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 24.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	1714.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.46 ft			
Tool Length:	113.46 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			1691.00	
Hydraulic Tool	5.00			1696.00	
Jars	6.00			1702.00	
Safety Joint	2.00			1704.00	
Top Packer	5.00			1709.00	
Packer	5.00			1714.00	28.00 Bottom Of Top Packer
Anchor	2.00			1716.00	
Change Over Sub	0.75			1716.75	
Drill Pipe	62.96			1779.71	
Change Over Sub	0.75			1780.46	
Anchor	14.00			1794.46	
Recorder	1.00	8938	Inside	1795.46	
Recorder	1.00	8875	Outside	1796.46	
Bull Plug	3.00			1799.46	85.46 Anchor Tool

Total Tool Length: 113.46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19 Barton

Job Ticket: 60367

DST#: 1

ATTN: Rene Husted

Test Start: 2014.09.07 @ 02:10:00

Mud and Cushion Information

Mud Type: STARCH

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Drilling mud	1.543

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

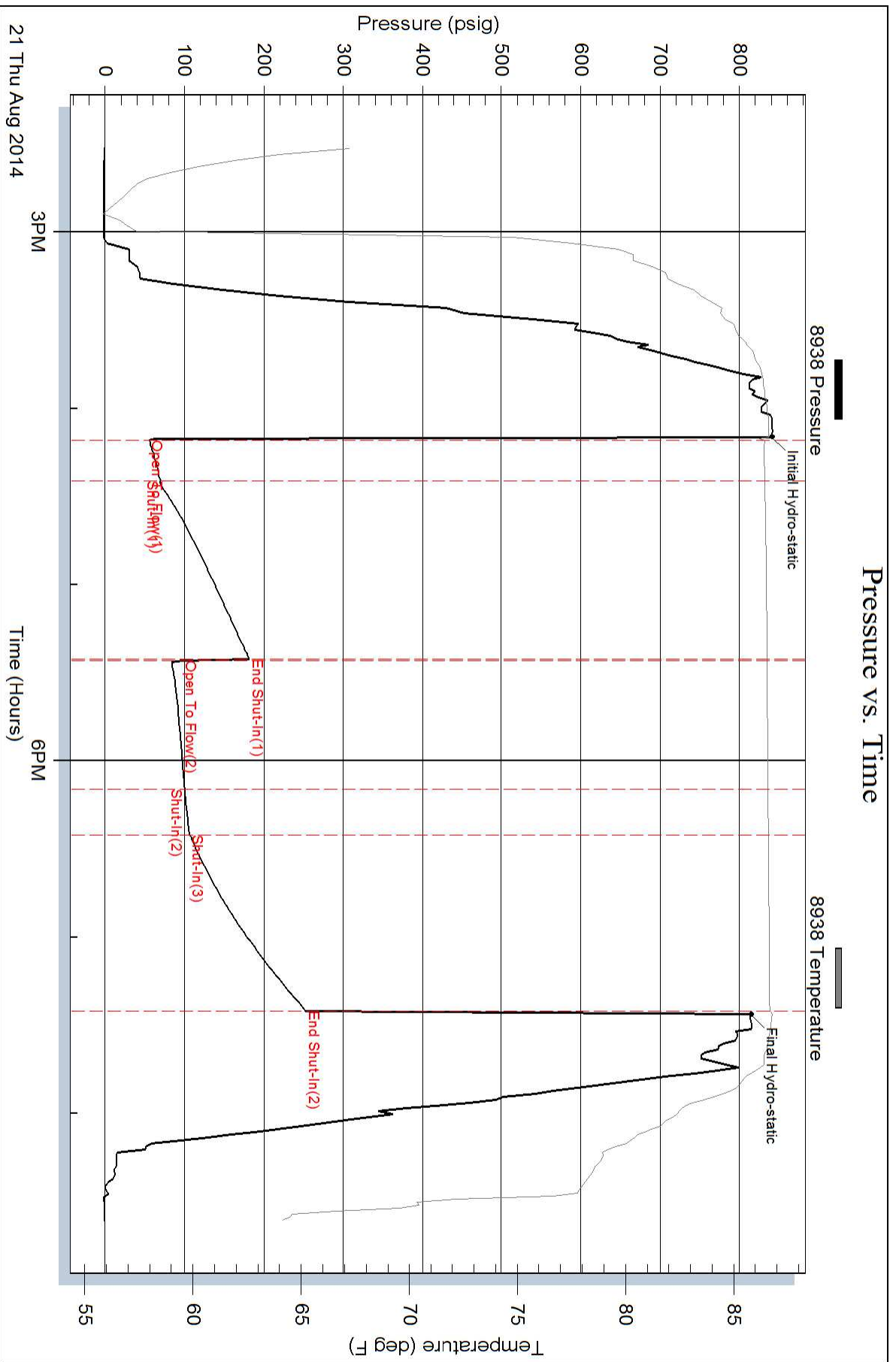
Serial #:

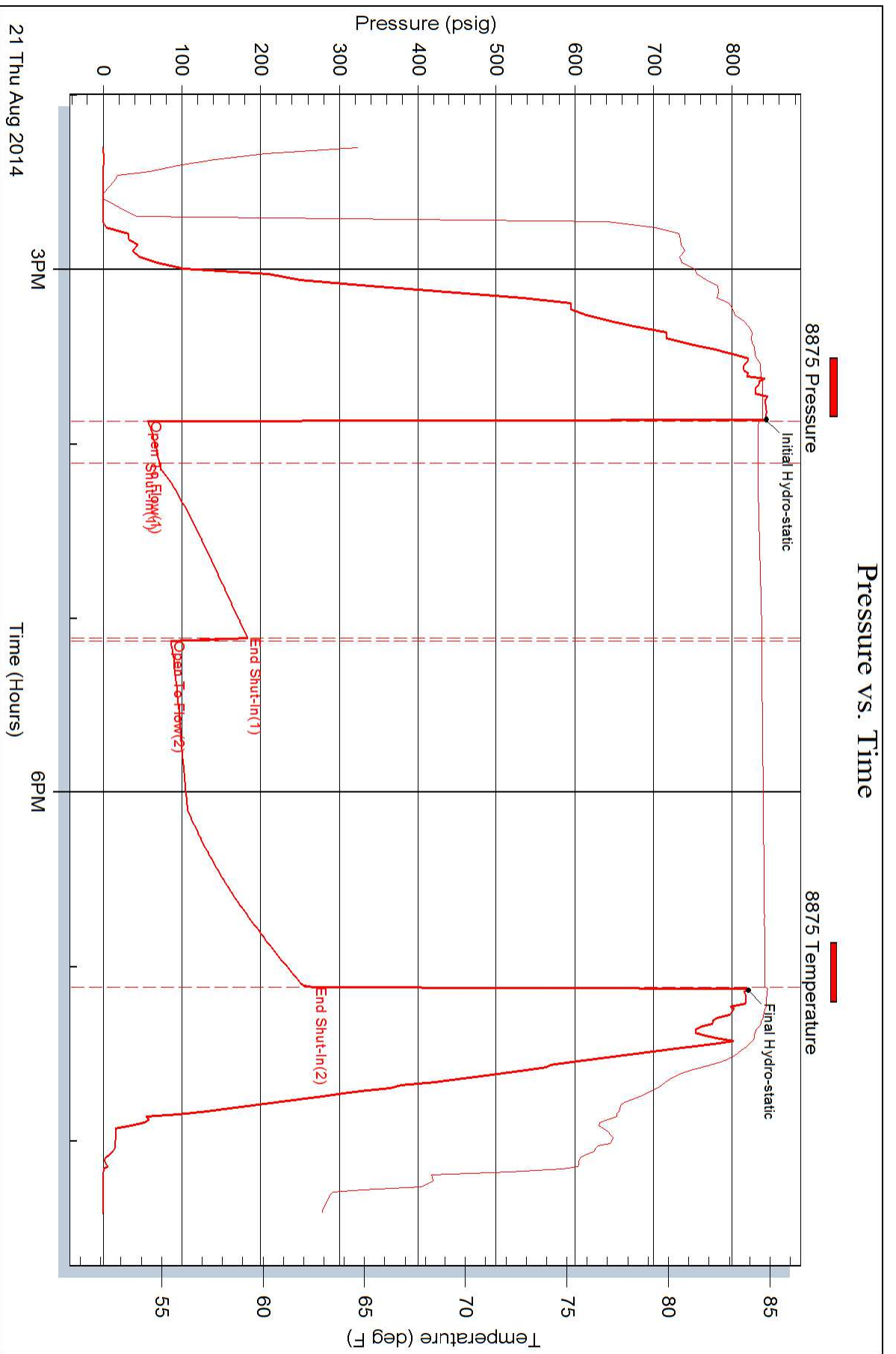
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

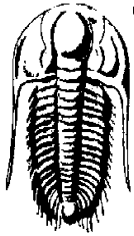
Start Date: 2014.09.08 @ 05:30:00

End Date: 2014.09.08 @ 00:00:00

Job Ticket #: 60368 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.08 @ 10:16:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
Job Ticket: 60368 **DST#: 2**
Test Start: 2014.09.08 @ 05:30:00

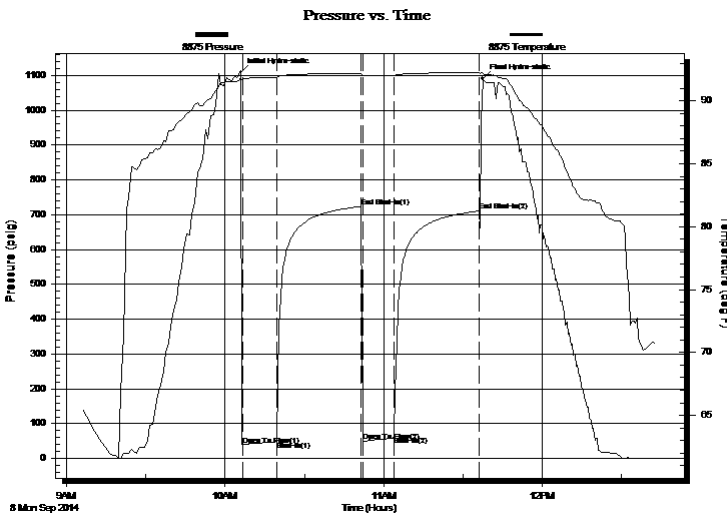
GENERAL INFORMATION:

Formation: **Cottonwood**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:26:00
Time Test Ended: 00:00:00
Interval: **2190.00 ft (KB) To 2240.00 ft (KB) (TVD)**
Total Depth: 2240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: S5 20 Miles
Reference Elevations: 1915.00 ft (KB)
1907.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
Press@RunDepth: 710.61 psig @ 2236.15 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.08 End Date: 2014.09.08 Last Calib.: 2014.09.08
Start Time: 09:05:29 End Time: 12:42:59 Time On Btm: 2014.09.08 @ 10:05:59
Time Off Btm: 2014.09.08 @ 11:37:29

TEST COMMENT: 1st Opening 15 Min utes-Weak building blow built to 2 inches
1st Shut-In 30 Minutes
2nd Opening 15 Minutes Weak building blow built to 1 inch
2nd Shut-In 30 Minutes

PRESSURE SUMMARY



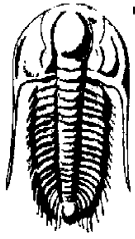
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1108.26	91.84	Initial Hydro-static
1	39.81	91.71	Open To Flow (1)
14	49.42	91.87	Shut-In(1)
46	723.51	92.19	End Shut-In(1)
46	49.68	92.03	Open To Flow (2)
58	63.47	91.99	Shut-In(2)
90	710.61	92.22	End Shut-In(2)
92	1090.54	92.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Drilling Mud	0.70

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

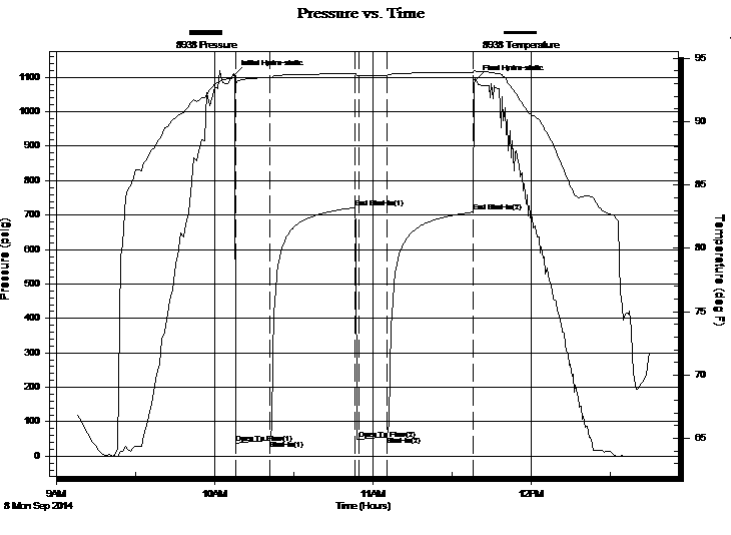
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60368 **DST#: 2**
 Test Start: 2014.09.08 @ 05:30:00

GENERAL INFORMATION:

Formation: **Cottonwood**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:26:00
 Time Test Ended: 00:00:00
Interval: 2190.00 ft (KB) To 2240.00 ft (KB) (TVD)
 Total Depth: 2240.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S5 20 Miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 **Outside**
 Press@RunDepth: 708.60 psig @ 2237.15 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.08 End Date: 2014.09.08 Last Calib.: 2014.09.08
 Start Time: 09:06:58 End Time: 12:44:58 Time On Btm: 2014.09.08 @ 10:07:28
 Time Off Btm: 2014.09.08 @ 11:38:58

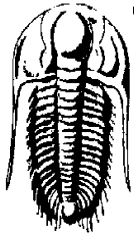
TEST COMMENT: 1st Opening 15 Min utes-Weak building blow built to 2 inches
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes Weak building blow built to 1 inch
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1106.56	93.46	Initial Hydro-static
1	37.46	92.99	Open To Flow (1)
14	46.57	93.50	Shut-In(1)
46	721.02	93.80	End Shut-In(1)
47	48.41	93.63	Open To Flow (2)
58	56.31	93.66	Shut-In(2)
91	708.60	93.89	End Shut-In(2)
92	1092.99	93.98	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
50.00	Drilling Mud	0.70

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60368

DST#: 2

ATTN: Rene Husted

Test Start: 2014.09.08 @ 05:30:00

Tool Information

Drill Pipe:	Length: 2186.00 ft	Diameter: 3.80 inches	Volume: 30.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 2000065 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 30.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2190.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.15 ft			
Tool Length:	78.15 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2167.00	
Hydraulic Tool	5.00			2172.00	
Jars	6.00			2178.00	
Safety Joint	2.00			2180.00	
Top Packer	5.00			2185.00	
Packer	5.00			2190.00	28.00 Bottom Of Top Packer
Anchor	5.00			2195.00	
Change Over Sub	0.75			2195.75	
Drill Pipe	31.65			2227.40	
Change Over Sub	0.75			2228.15	
Anchor	7.00			2235.15	
Recorder	1.00	8875	Inside	2236.15	
Recorder	1.00	8938	Outside	2237.15	
Bull Plug	3.00			2240.15	50.15 Anchor Tool

Total Tool Length: 78.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60368

DST#: 2

ATTN: Rene Husted

Test Start: 2014.09.08 @ 05:30:00

Mud and Cushion Information

Mud Type: STARCH

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 36.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 18.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 27000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Drilling Mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

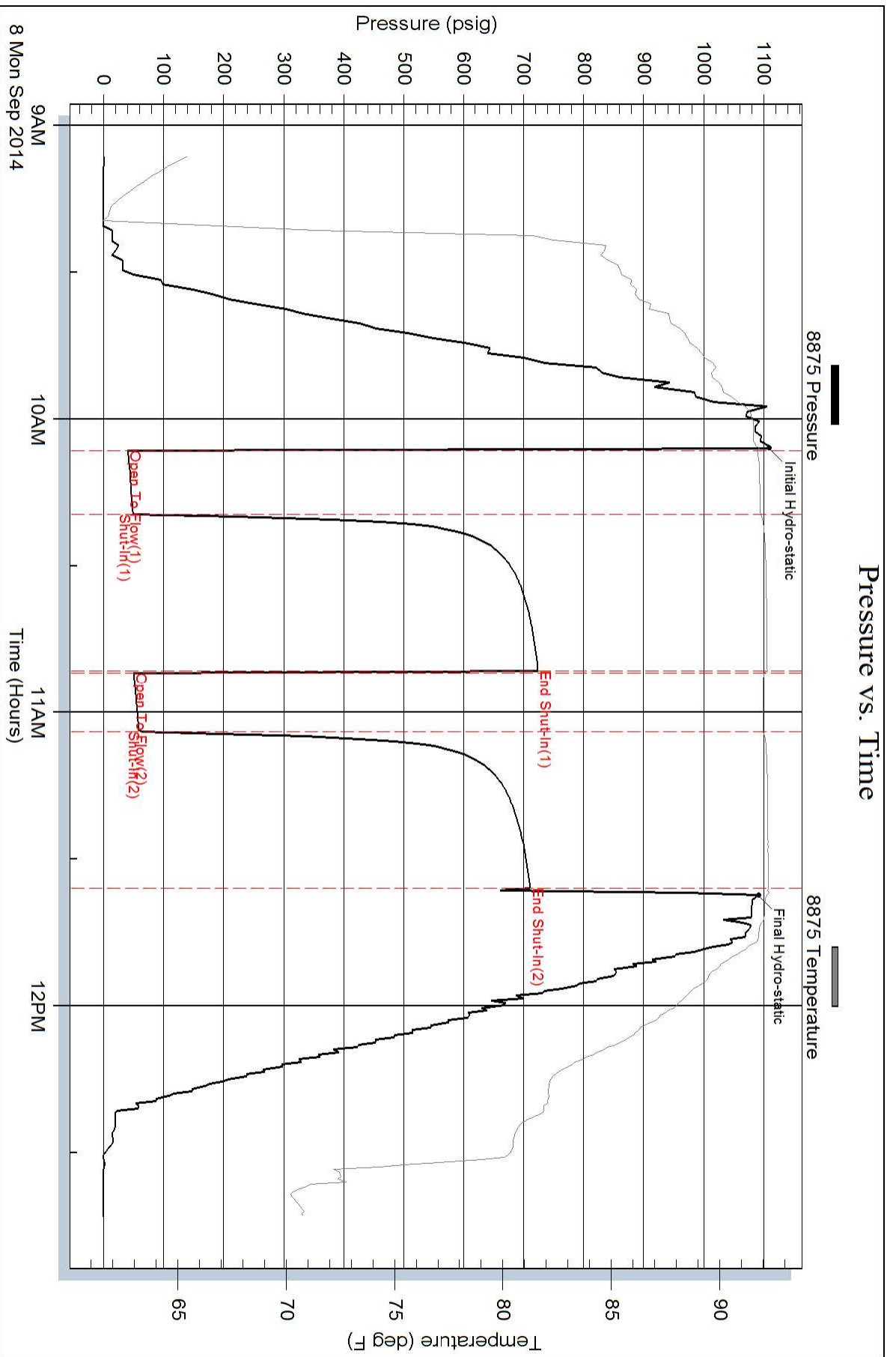
Serial #:

Laboratory Name:

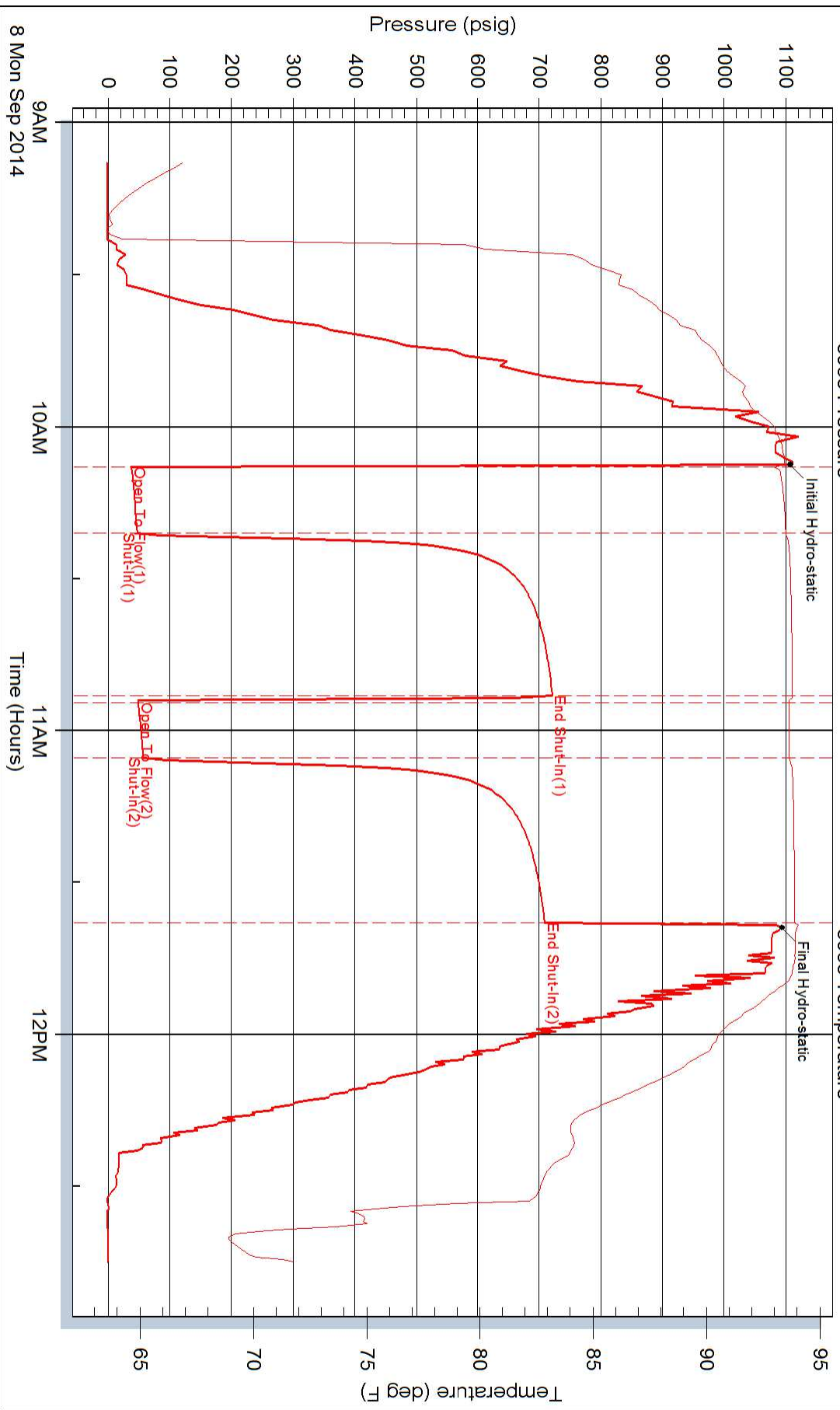
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.09 @ 05:43:00

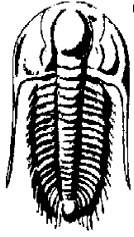
End Date: 2014.09.09 @ 00:00:00

Job Ticket #: 60369 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.09 @ 12:01:28

F.G. Holl Company LLC
19-19s18w Barton
Kufeld #1-19
DST # 3
Neva
2014.09.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60369

DST#: 3

ATTN: Rene Husted

Test Start: 2014.09.09 @ 05:43:00

GENERAL INFORMATION:

Formation: **Neva**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:48:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 20 miles

Interval: 2240.00 ft (KB) To 2300.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 2400.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8875 Inside

Press@RunDepth: 598.19 psig @ 2295.67 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.09

End Date: 2014.09.09

Last Calib.: 2014.09.09

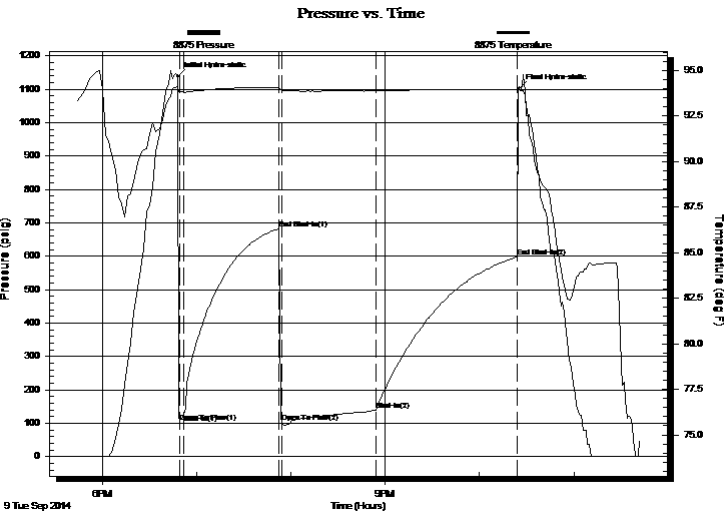
Start Time: 17:43:17

End Time: 23:41:47

Time On Btm: 2014.09.09 @ 18:48:17

Time Off Btm: 2014.09.09 @ 22:25:17

TEST COMMENT: 1st Opening 5 Minutes-Fair blow built to the bottom of the bucket in 2 minutes
1st Shut-In 60 Minutes-WEak blow back
2nd Opening 60 Minutes-Fair blow built to the bottom of the bucket in 1 minute
2nd Shut-In 90 Minutes-fair blow back



PRESSURE SUMMARY

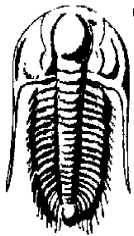
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1138.08	94.10	Initial Hydro-static
1	102.44	93.84	Open To Flow (1)
4	126.92	93.80	Shut-In(1)
64	682.47	94.07	End Shut-In(1)
66	103.12	93.91	Open To Flow (2)
126	139.85	93.87	Shut-In(2)
216	598.19	93.92	End Shut-In(2)
217	1102.78	93.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Watery Mud 20%water 80%Mud	1.68
120.00	Muddy Water 70%Water 30% Mud	1.68
0.00	Chlorides 76,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.01	5.39
Last Gas Rate	0.13	2.53	6.34
Max. Gas Rate	0.13	5.67	7.51



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

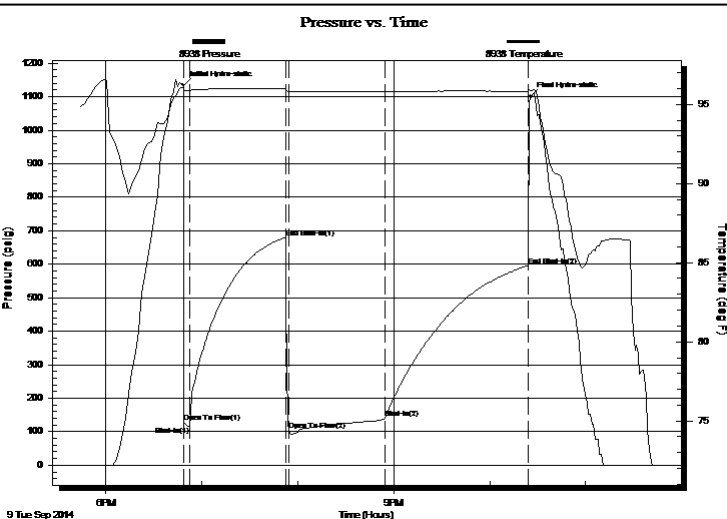
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60369 **DST#: 3**
 Test Start: 2014.09.09 @ 05:43:00

GENERAL INFORMATION:

Formation: **Neva**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:48:00
 Time Test Ended: 00:00:00
 Interval: **2240.00 ft (KB) To 2300.00 ft (KB) (TVD)**
 Total Depth: 2400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 20 miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 Outside
 Press@RunDepth: 595.84 psig @ 2296.67 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.09 End Date: 2014.09.09 Last Calib.: 2014.09.09
 Start Time: 17:43:14 End Time: 23:42:14 Time On Btm: 2014.09.09 @ 18:48:14
 Time Off Btm: 2014.09.09 @ 22:25:14

TEST COMMENT: 1st Opening 5 Minutes-Fair blow built to the bottom of the bucket in 2 minutes
 1st Shut-In 60 Minutes-WEak blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of the bucket in 1 minute
 2nd Shut-In 90 Minutes-fair blow back



PRESSURE SUMMARY

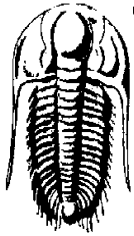
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1134.10	96.08	Initial Hydro-static
1	127.13	95.84	Open To Flow (1)
4	115.84	95.86	Shut-In(1)
64	680.00	95.96	End Shut-In(1)
66	103.54	95.82	Open To Flow (2)
126	138.97	95.79	Shut-In(2)
216	595.84	95.83	End Shut-In(2)
217	1101.15	95.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Watery Mud 20%w ater 80%Mud	1.68
120.00	Muddy Water 70%Water 30% Mud	1.68
0.00	Chlorides 76,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.01	5.39
Last Gas Rate	0.13	2.53	6.34
Max. Gas Rate	0.13	5.67	7.51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60369

DST#: 3

ATTN: Rene Husted

Test Start: 2014.09.09 @ 05:43:00

Tool Information

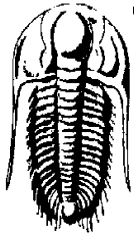
Drill Pipe:	Length: 2215.00 ft	Diameter: 3.80 inches	Volume: 31.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 31.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2240.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.67 ft			
Tool Length:	87.67 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2217.00	
Hydraulic Tool	5.00			2222.00	
Jars	6.00			2228.00	
Safety Joint	2.00			2230.00	
Top Packer	5.00			2235.00	
Packer	5.00			2240.00	28.00 Bottom Of Top Packer
Anchor	5.00			2245.00	
Change Over Sub	0.75			2245.75	
Drill Pipe	31.17			2276.92	
Change Over Sub	0.75			2277.67	
Anchor	17.00			2294.67	
Recorder	1.00	8875	Inside	2295.67	
Recorder	1.00	8938	Outside	2296.67	
Bull Plug	3.00			2299.67	59.67 Anchor Tool

Total Tool Length: 87.67



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
Job Ticket: 60369 **DST#: 3**
Test Start: 2014.09.09 @ 05:43:00

Mud and Cushion Information

Mud Type: STARCH	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 36.00 sec/qt	Cushion Volume: bbl		
Water Loss: 16.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 31000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

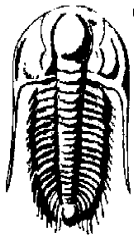
Length ft	Description	Volume bbl
120.00	Watery Mud 20%w ater 80%Mud	1.683
120.00	Muddy Water 70%Water 30% Mud	1.683
0.00	Chlorides 76,000	0.000

Total Length: 240.00 ft Total Volume: 3.366 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60369

DST#: 3

ATTN: Rene Husted

Test Start: 2014.09.09 @ 05:43:00

Gas Rates Information

Temperature: 59 (deg F)

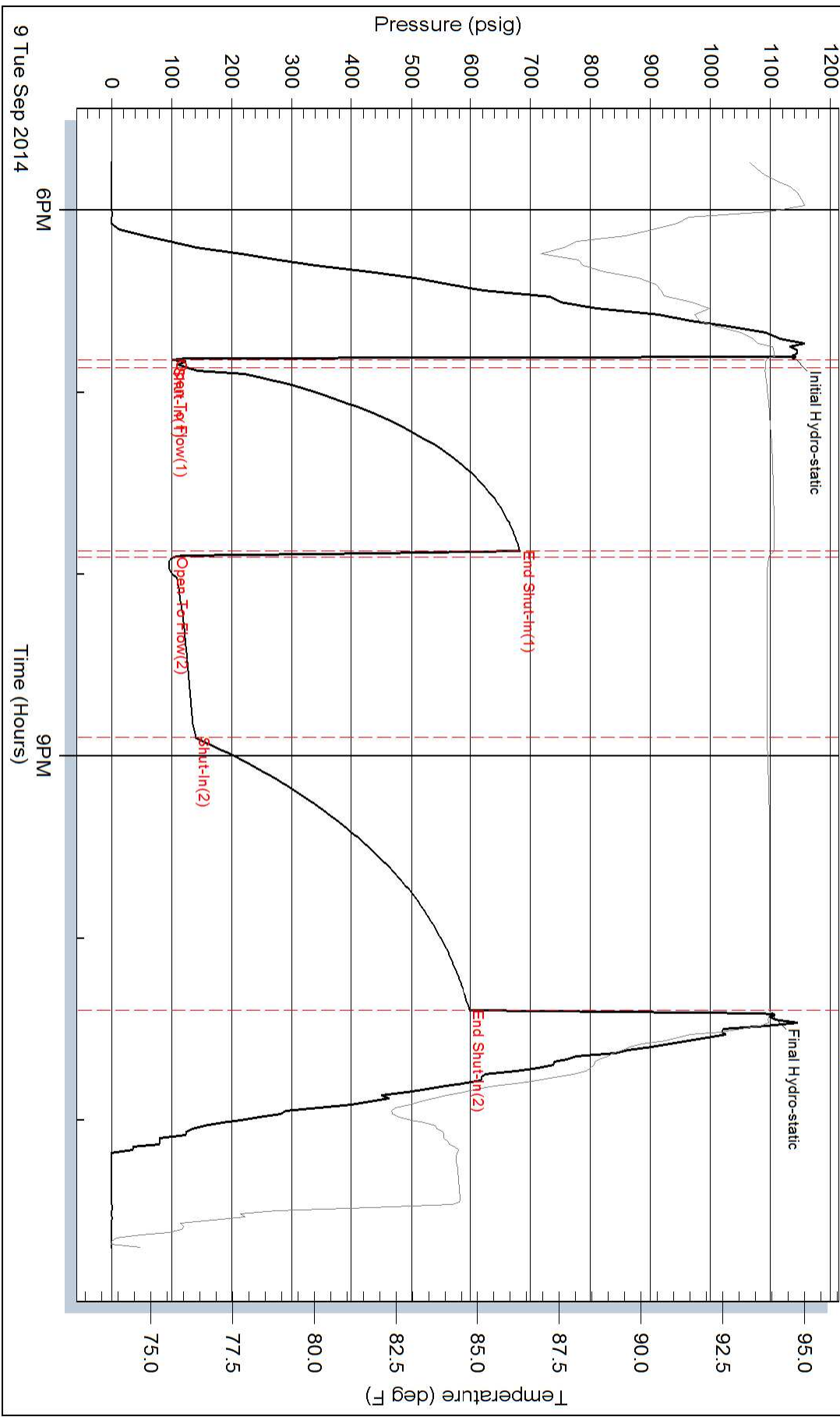
Relative Density: 0.65

Z Factor: 0.8

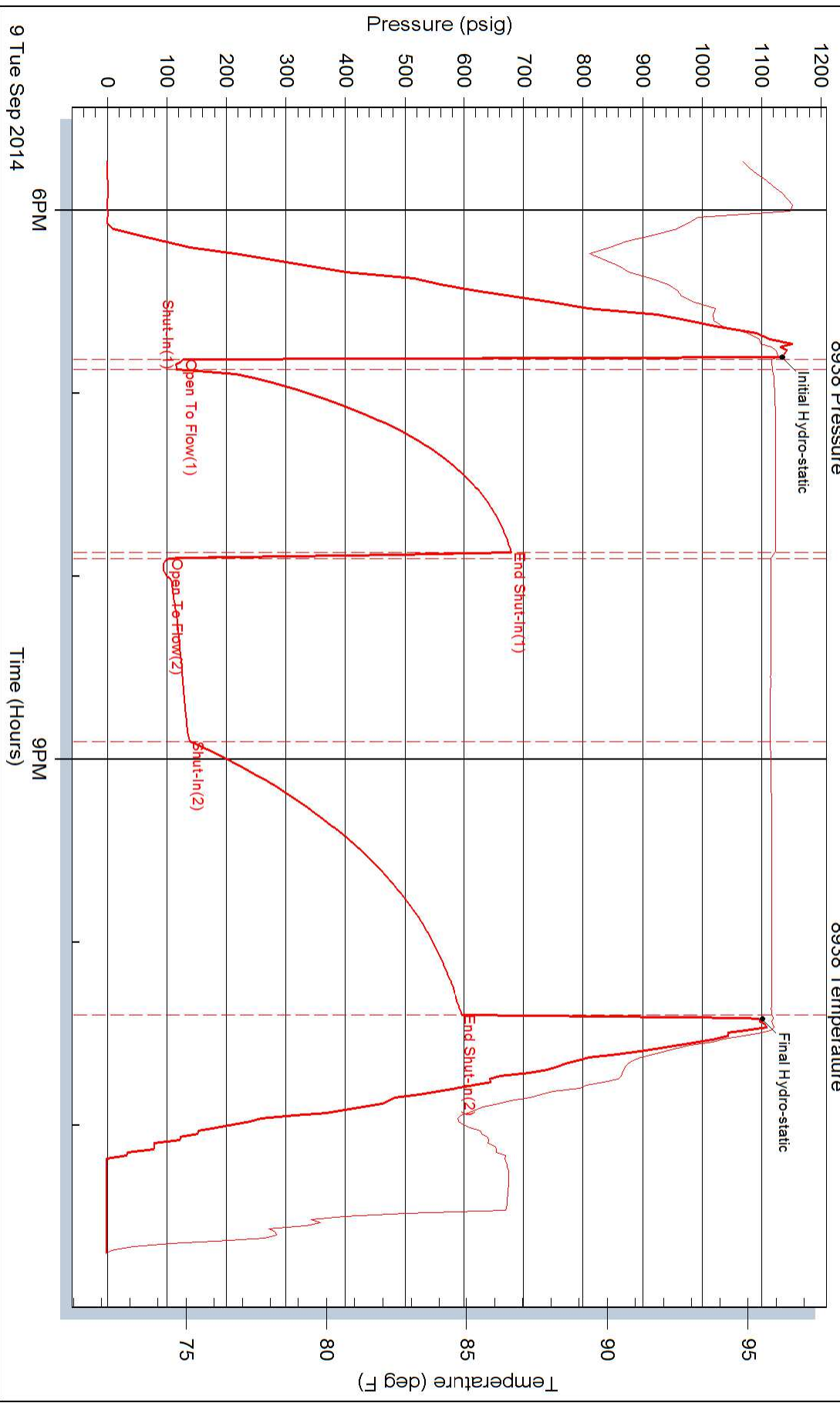
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	0.01	5.39
2	20	0.13	5.67	7.51
2	30	0.13	5.67	7.51
2	40	0.13	4.62	7.12
2	50	0.13	3.56	6.72
2	55	0.13	2.53	6.34

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.10 @ 00:00:00

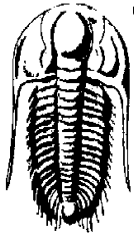
End Date:

Job Ticket #: 60370

DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.10 @ 14:37:30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

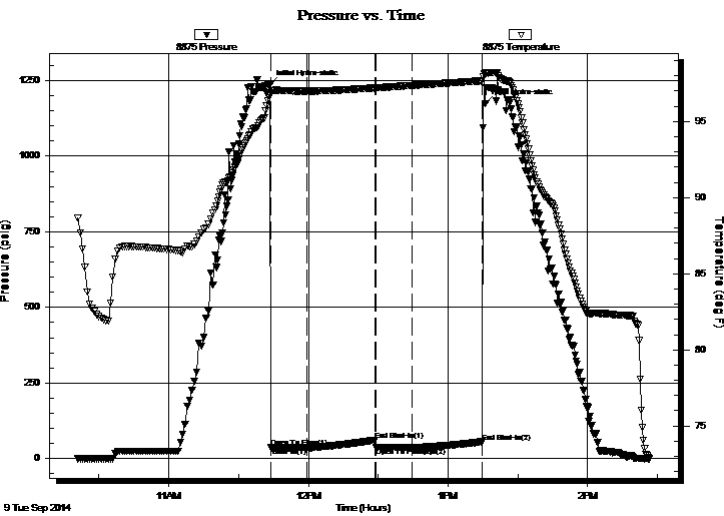
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60370 **DST#: 4**
 Test Start: 2014.09.10 @ 00:00:00

GENERAL INFORMATION:

Formation: **Tarkio**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened:
 Tester: Gene Budig
 Time Test Ended:
 Unit No: S4 20 miles
 Interval: **2626.00 ft (KB) To 2664.00 ft (KB) (TVD)**
 Reference Elevations: 1915.00 ft (KB)
 Total Depth: 2664.00 ft (KB) (TVD) 1907.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 55.60 psig @ 2661.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.09 End Date: 2014.09.09 Last Calib.: 2014.09.10
 Start Time: 10:21:00 End Time: 14:26:30 Time On Btm: 2014.09.09 @ 11:43:30
 Time Off Btm: 2014.09.09 @ 13:16:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 6 minutes and died
 1st Shut-In 30 Minutes
 2nd Flow 15 Minutes No blow
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY

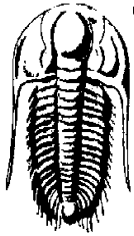
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1237.57	96.83	Initial Hydro-static
1	36.49	96.85	Open To Flow (1)
16	36.59	96.99	Shut-In(1)
45	61.80	97.20	End Shut-In(1)
46	37.36	97.21	Open To Flow (2)
61	37.23	97.36	Shut-In(2)
91	55.60	97.67	End Shut-In(2)
93	1174.01	98.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

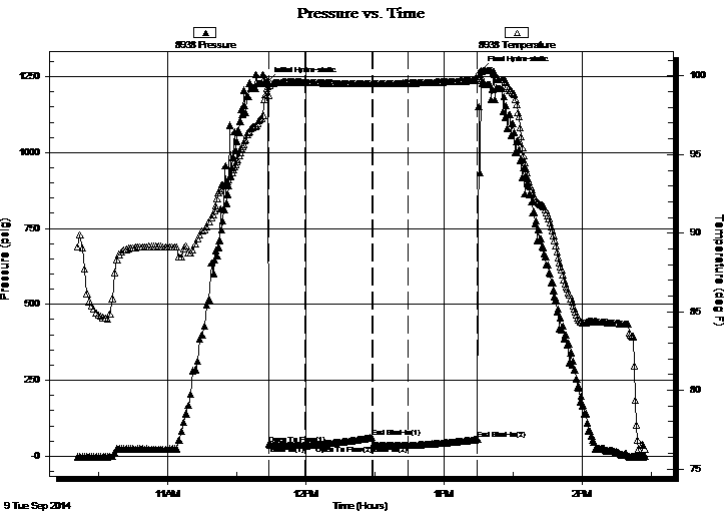
19-19s18w Barton
Kufeld #1-19
Job Ticket: 60370 **DST#: 4**
Test Start: 2014.09.10 @ 00:00:00

GENERAL INFORMATION:

Formation: **Tarkio**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: 2626.00 ft (KB) To 2664.00 ft (KB) (TVD)
Total Depth: 2664.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: S4 20 miles
Reference Elevations: 1915.00 ft (KB)
1907.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
Press@RunDepth: 54.81 psig @ 2660.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.09 End Date: 2014.09.09 Last Calib.: 2014.09.10
Start Time: 10:21:00 End Time: 14:27:00 Time On Btm: 2014.09.09 @ 11:43:30
Time Off Btm: 2014.09.09 @ 13:16:00

TEST COMMENT: 1st Opening 15 Minutes Weak blow for 6 minutes and died
1st Shut-In 30 Minutes
2nd Flow 15 Minutes No blow
2nd Shut-In 30 Minutes



PRESSURE SUMMARY

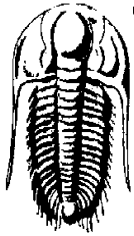
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1232.82	99.36	Initial Hydro-static
1	39.44	98.77	Open To Flow (1)
16	35.64	99.59	Shut-In(1)
45	61.09	99.51	End Shut-In(1)
46	36.69	99.50	Open To Flow (2)
61	36.37	99.54	Shut-In(2)
91	54.81	99.72	End Shut-In(2)
93	1270.81	99.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60370

DST#: 4

ATTN: Rene Hustedad

Test Start: 2014.09.10 @ 00:00:00

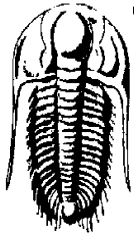
Tool Information

Drill Pipe:	Length: 2620.00 ft	Diameter: 3.80 inches	Volume: 36.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 36.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2626.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2603.00	
Hydraulic Tool	5.00			2608.00	
Jars	6.00			2614.00	
Safety Joint	2.00			2616.00	
Top Packer	5.00			2621.00	
Packer	5.00			2626.00	28.00 Bottom Of Top Packer
Anchor	33.00			2659.00	
Recorder	1.00	8938	Inside	2660.00	
Recorder	1.00	8875	Outside	2661.00	
Bull Plug	3.00			2664.00	38.00 Anchor Tool
Total Tool Length:	66.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60370

DST#: 4

ATTN: Rene Husted

Test Start: 2014.09.10 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 38.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 18.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 69000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

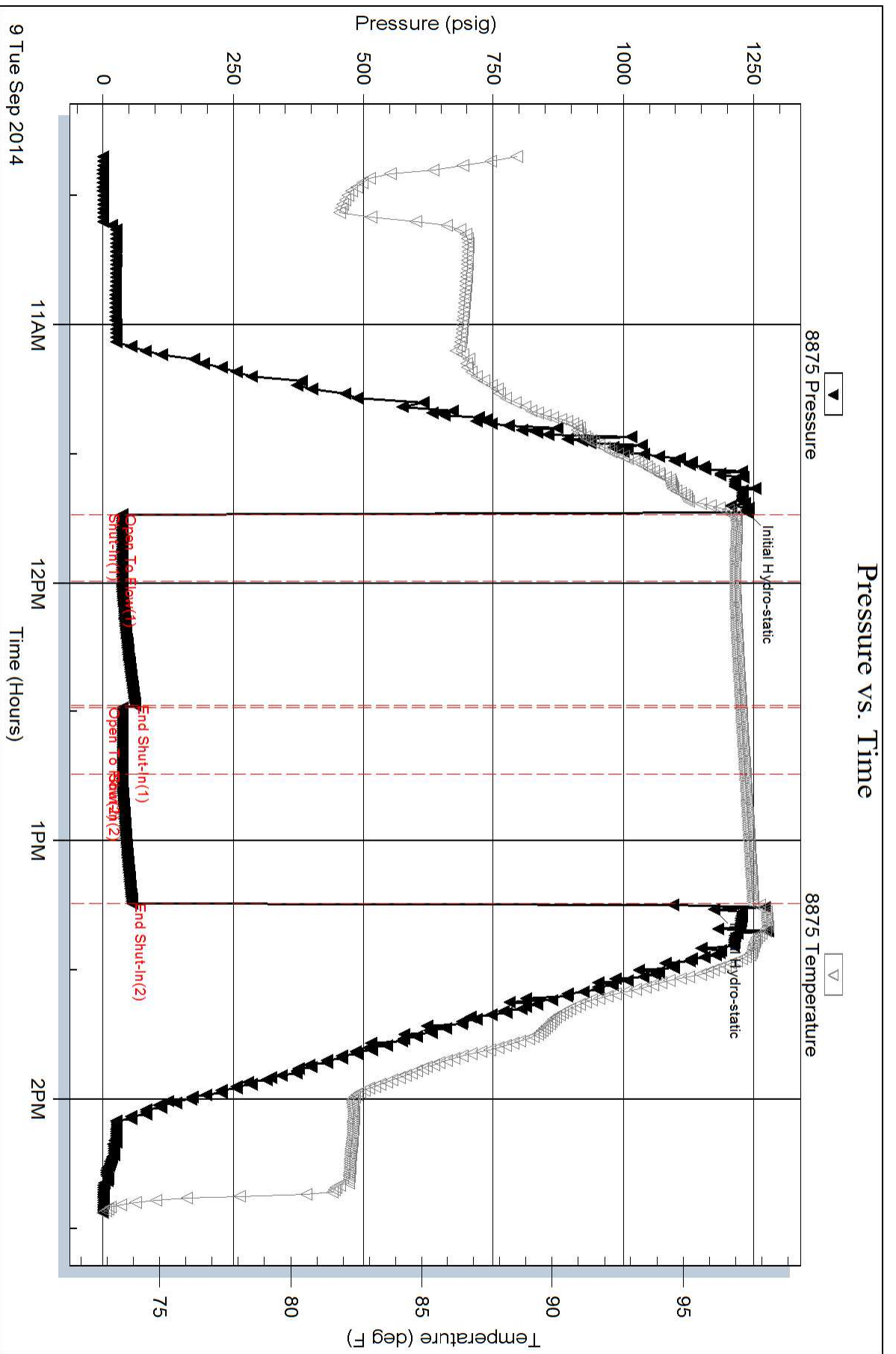
Num Gas Bombs: 0

Serial #:

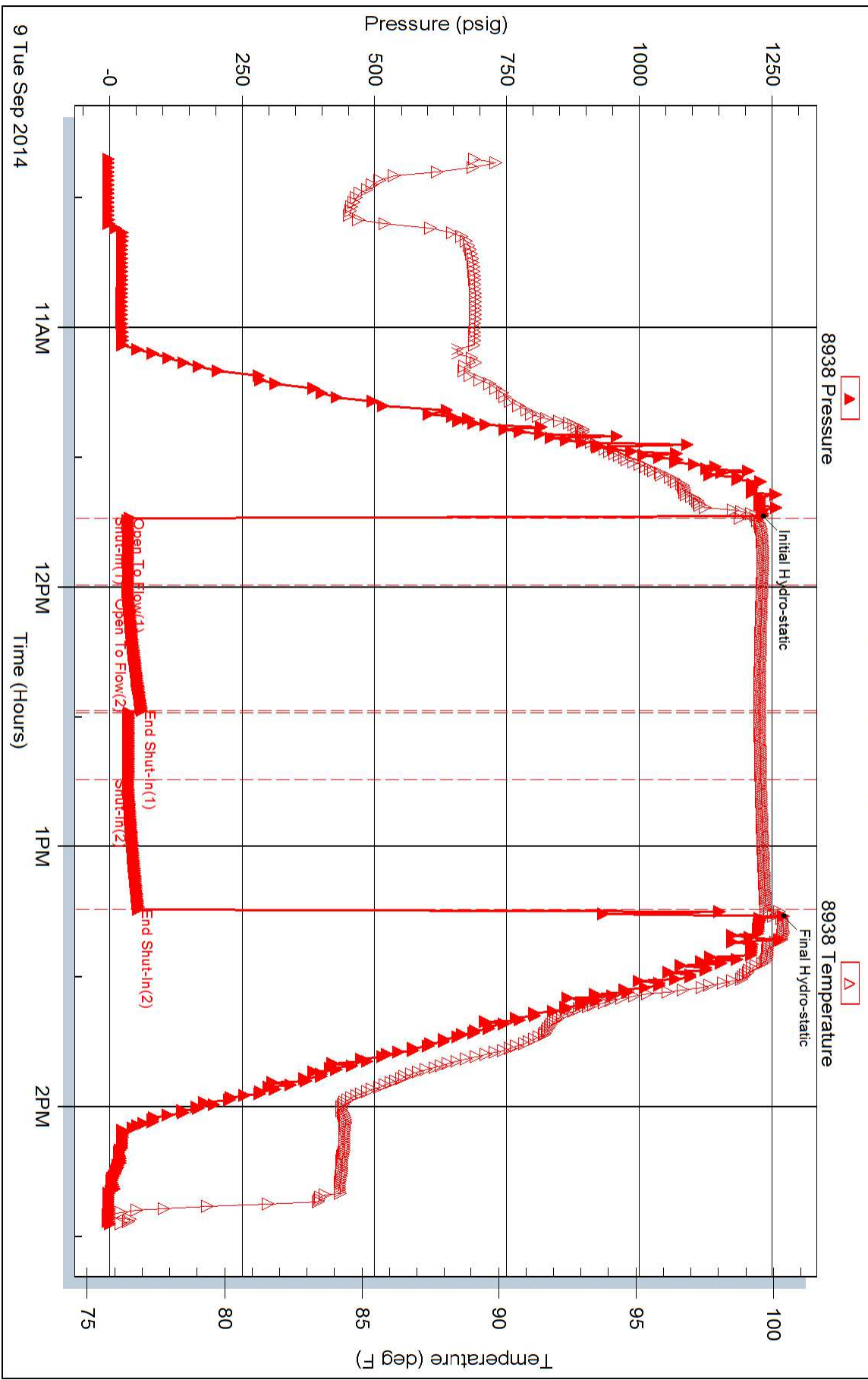
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

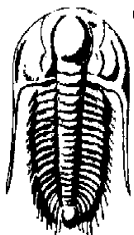
Start Date: 2014.09.11 @ 09:20:00

End Date: 2014.09.11 @ 13:43:30

Job Ticket #: 60371 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.12 @ 02:16:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

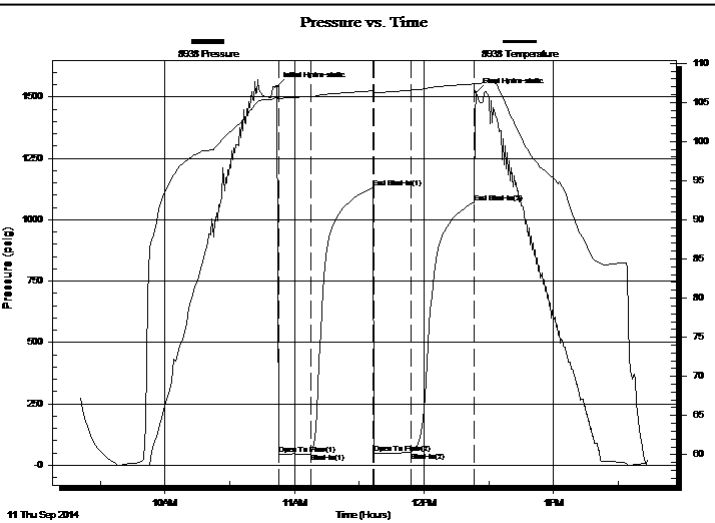
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60371 **DST#: 5**
 Test Start: 2014.09.11 @ 09:20:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:52:30
 Time Test Ended: 13:43:30
 Interval: **3135.00 ft (KB) To 3180.00 ft (KB) (TVD)**
 Total Depth: 3180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4-20 miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
 Press@RunDepth: 52.92 psig @ 3169.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.11 End Date: 2014.09.11 Last Calib.: 2014.09.12
 Start Time: 09:20:00 End Time: 13:43:30 Time On Btm: 2014.09.11 @ 10:52:00
 Time Off Btm: 2014.09.11 @ 12:24:00

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes-Weak surface blow
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY

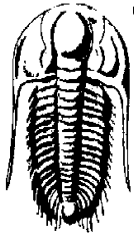
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.91	105.69	Initial Hydro-static
1	44.18	105.39	Open To Flow (1)
16	48.23	105.74	Shut-In(1)
45	1129.80	106.51	End Shut-In(1)
45	47.82	106.15	Open To Flow (2)
62	52.92	106.56	Shut-In(2)
91	1070.17	107.36	End Shut-In(2)
92	1518.46	107.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Very slightly oil cut mud 6%Oil 94%Mud	0.70

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

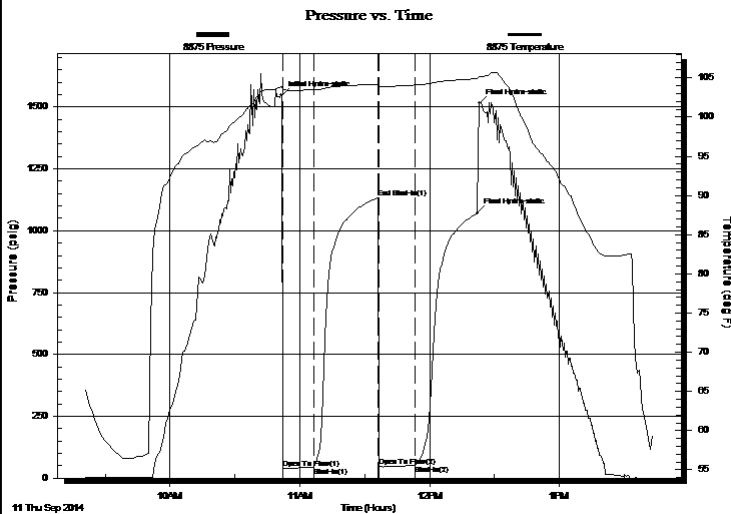
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60371 **DST#: 5**
 Test Start: 2014.09.11 @ 09:20:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 10:52:30 Tester: Gene Budig
 Time Test Ended: 13:43:30 Unit No: S4-20 miles
 Interval: **3135.00 ft (KB) To 3180.00 ft (KB) (TVD)** Reference Elevations: 1915.00 ft (KB)
 Total Depth: 3180.00 ft (KB) (TVD) 1907.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 1132.62 psig @ 3170.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.11 End Date: 2014.09.11 Last Calib.: 2014.09.12
 Start Time: 09:20:00 End Time: 13:43:00 Time On Btm: 2014.09.11 @ 10:51:30
 Time Off Btm: 2014.09.11 @ 12:22:00

TEST COMMENT: 1st Opening 15 Minutes-Weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 15 Minutes-Weak surface blow
 2nd Shut-In 30 Minutes



PRESSURE SUMMARY

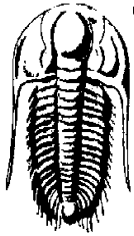
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1547.56	103.87	Initial Hydro-static
1	39.46	103.51	Open To Flow (1)
15	44.90	103.49	Shut-In(1)
45	1132.62	104.21	End Shut-In(1)
45	46.60	103.94	Open To Flow (2)
62	51.42	104.09	Shut-In(2)
91	1070.80	104.91	Final Hydro-static
92	1514.03	105.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Very slightly oil cut mud 6%Oil 94%Mud	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60371

DST#: 5

ATTN: Rene Hustedad

Test Start: 2014.09.11 @ 09:20:00

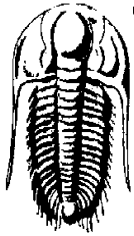
Tool Information

Drill Pipe:	Length: 3122.00 ft	Diameter: 3.80 inches	Volume: 43.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 43.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3135.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3112.00	
Hydraulic Tool	5.00			3117.00	
Jars	6.00			3123.00	
Safety Joint	2.00			3125.00	
Top Packer	5.00			3130.00	
Packer	5.00			3135.00	28.00 Bottom Of Top Packer
Anchor	33.00			3168.00	
Recorder	1.00	8938	Inside	3169.00	
Recorder	1.00	8875	Outside	3170.00	
Bull Plug	3.00			3173.00	38.00 Anchor Tool
Total Tool Length:	66.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60371

DST#: 5

ATTN: Rene Husted

Test Start: 2014.09.11 @ 09:20:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Very slightly oil cut mud 6%Oil 94%Mud	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8938

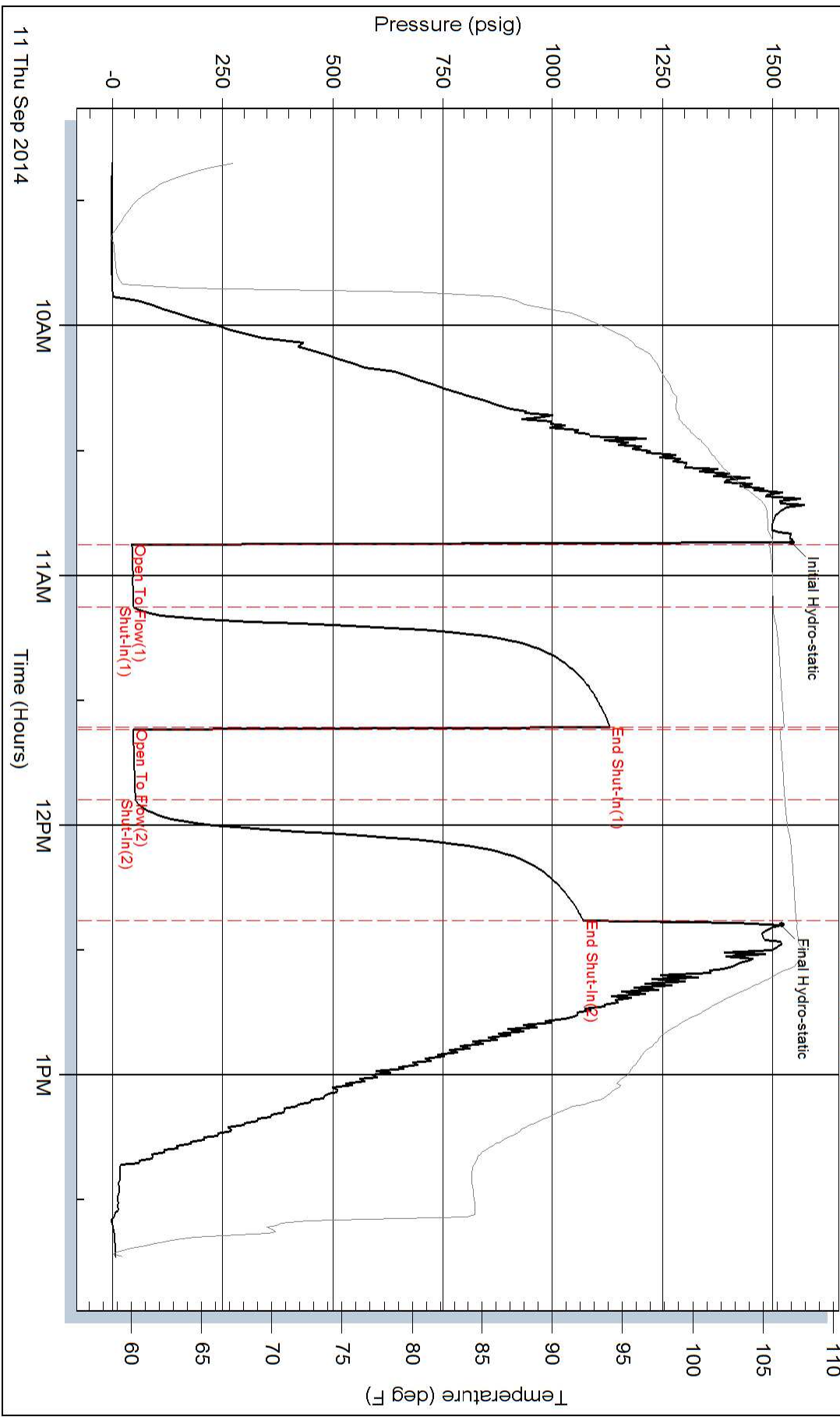
Inside

F.G. Holl Company LLC

Kufeld #1-19

DST Test Number: 5

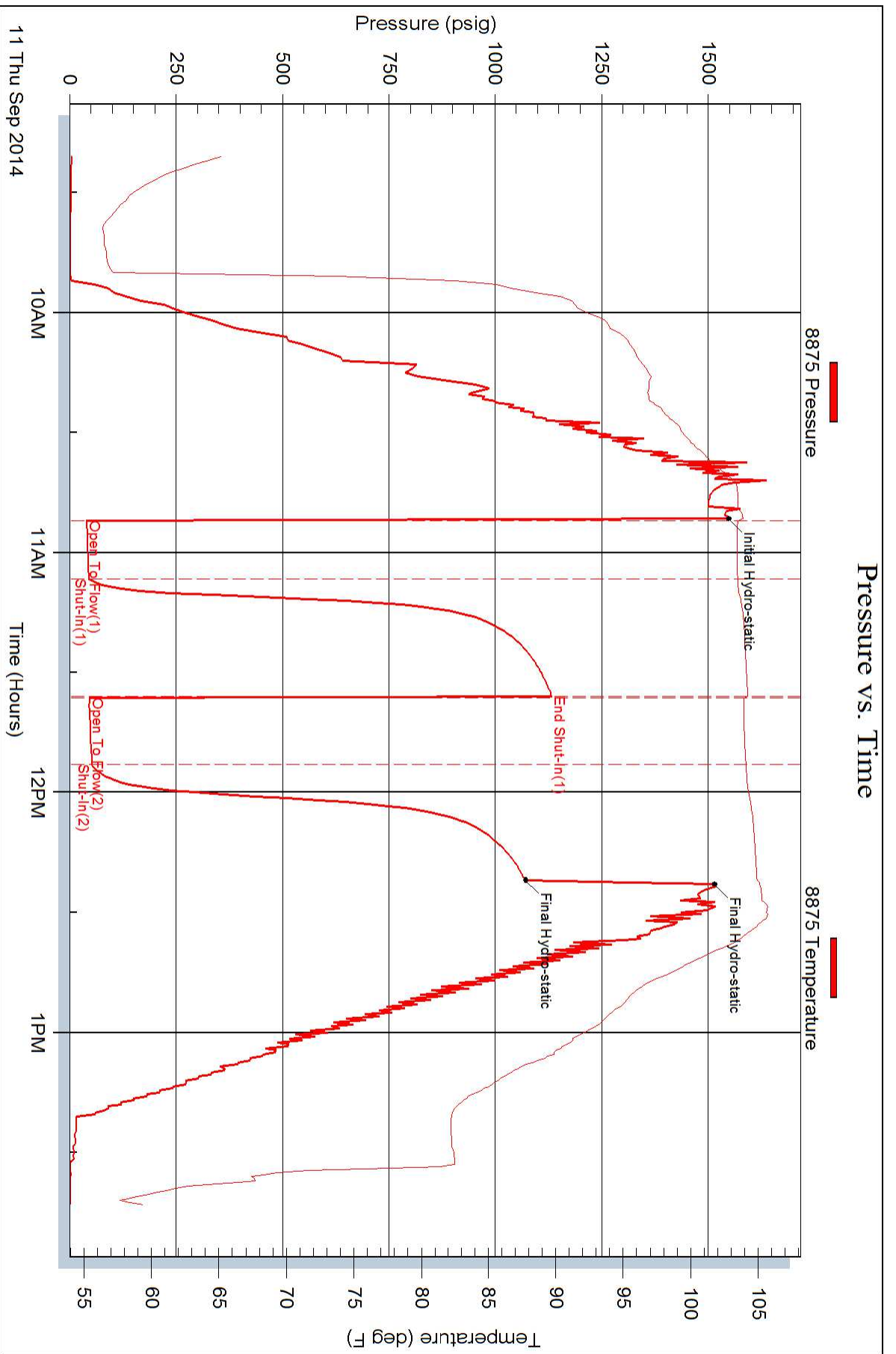
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60371

Printed: 2014.09.12 @ 02:16:10





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.12 @ 00:00:00

End Date:

Job Ticket #: 60372

DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.12 @ 18:21:47



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

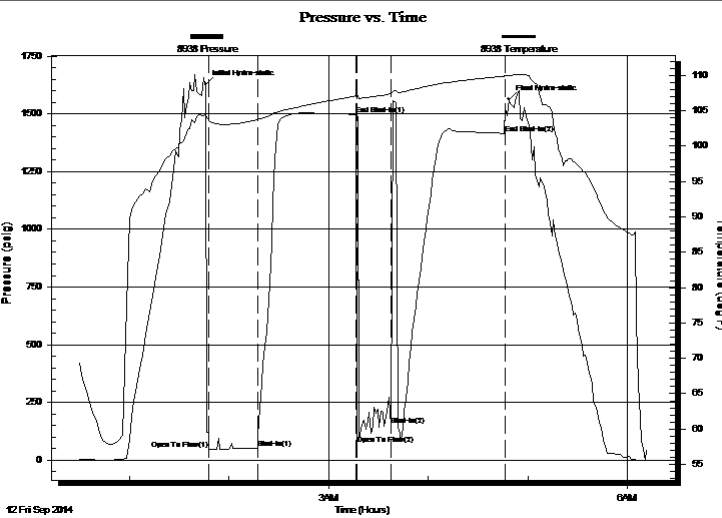
19-19s18w Barton
Kufeld #1-19
Job Ticket: 60372 **DST#: 6**
Test Start: 2014.09.12 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A & B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: **3232.00 ft (KB) To 3280.00 ft (KB) (TVD)**
Total Depth: 3380.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: S4 20 Miles
Reference Elevations: 1915.00 ft (KB)
1907.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
Press@RunDepth: 1415.46 psig @ 3276.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.12 End Date: 2014.09.12 Last Calib.: 2014.09.12
Start Time: 00:29:00 End Time: 06:11:30 Time On Btm: 2014.09.12 @ 01:46:00
Time Off Btm: 2014.09.12 @ 04:48:30

TEST COMMENT: 1st Opening 30 Minutes Weak steady 2 inch blow
1st Shut-In 60 Minutes
2nd Opening 30 Minutes-WEak blow died in 22 minutes flushed tool weak blow for 4 minutes and died
2nd Shut-In 60 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.66	104.37	Initial Hydro-static
2	45.75	103.52	Open To Flow (1)
31	50.95	103.69	Shut-In(1)
91	1497.13	107.05	End Shut-In(1)
91	67.10	106.64	Open To Flow (2)
112	152.34	107.35	Shut-In(2)
180	1415.46	109.90	End Shut-In(2)
183	1563.16	109.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Very thick heavy mud	0.42

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

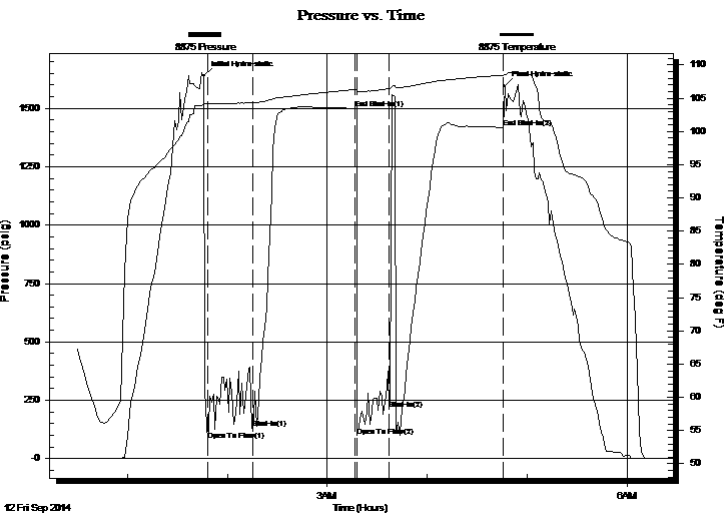
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60372 **DST#: 6**
 Test Start: 2014.09.12 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A & B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **3232.00 ft (KB) To 3280.00 ft (KB) (TVD)**
 Total Depth: 3380.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4 20 Miles
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 1417.76 psig @ 3277.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.12 End Date: 2014.09.12 Last Calib.: 2014.09.12
 Start Time: 00:29:04 End Time: 06:11:04 Time On Btm: 2014.09.12 @ 01:46:04
 Time Off Btm: 2014.09.12 @ 04:46:34

TEST COMMENT: 1st Opening 30 Minutes Weak steady 2 inch blow
 1st Shut-In 60 Minutes
 2nd Opening 30 Minutes-WEak blow died in 22 minutes flushed tool weak blow for 4 minutes and died
 2nd Shut-In 60 Minutes



PRESSURE SUMMARY

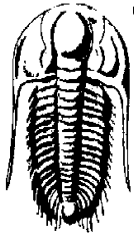
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.84	104.30	Initial Hydro-static
2	79.73	104.17	Open To Flow (1)
29	129.56	104.30	Shut-In(1)
91	1498.99	106.32	End Shut-In(1)
92	98.12	105.99	Open To Flow (2)
111	211.93	106.37	Shut-In(2)
180	1417.76	108.48	End Shut-In(2)
181	1596.41	108.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Very thick heavy mud	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60372

DST#: 6

ATTN: Rene Hustedad

Test Start: 2014.09.12 @ 00:00:00

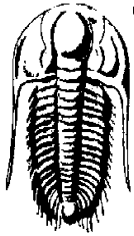
Tool Information

Drill Pipe:	Length: 3216.00 ft	Diameter: 3.80 inches	Volume: 45.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 45.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3232.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3209.00	
Hydraulic Tool	5.00			3214.00	
Jars	6.00			3220.00	
Safety Joint	2.00			3222.00	
Top Packer	5.00			3227.00	
Packer	5.00			3232.00	28.00 Bottom Of Top Packer
Anchor	43.00			3275.00	
Recorder	1.00	8938	Inside	3276.00	
Recorder	1.00	8875	Outside	3277.00	
Bull Plug	3.00			3280.00	48.00 Anchor Tool
Total Tool Length:	76.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60372

DST#: 6

ATTN: Rene Husted

Test Start: 2014.09.12 @ 00:00:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Very thick heavy mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

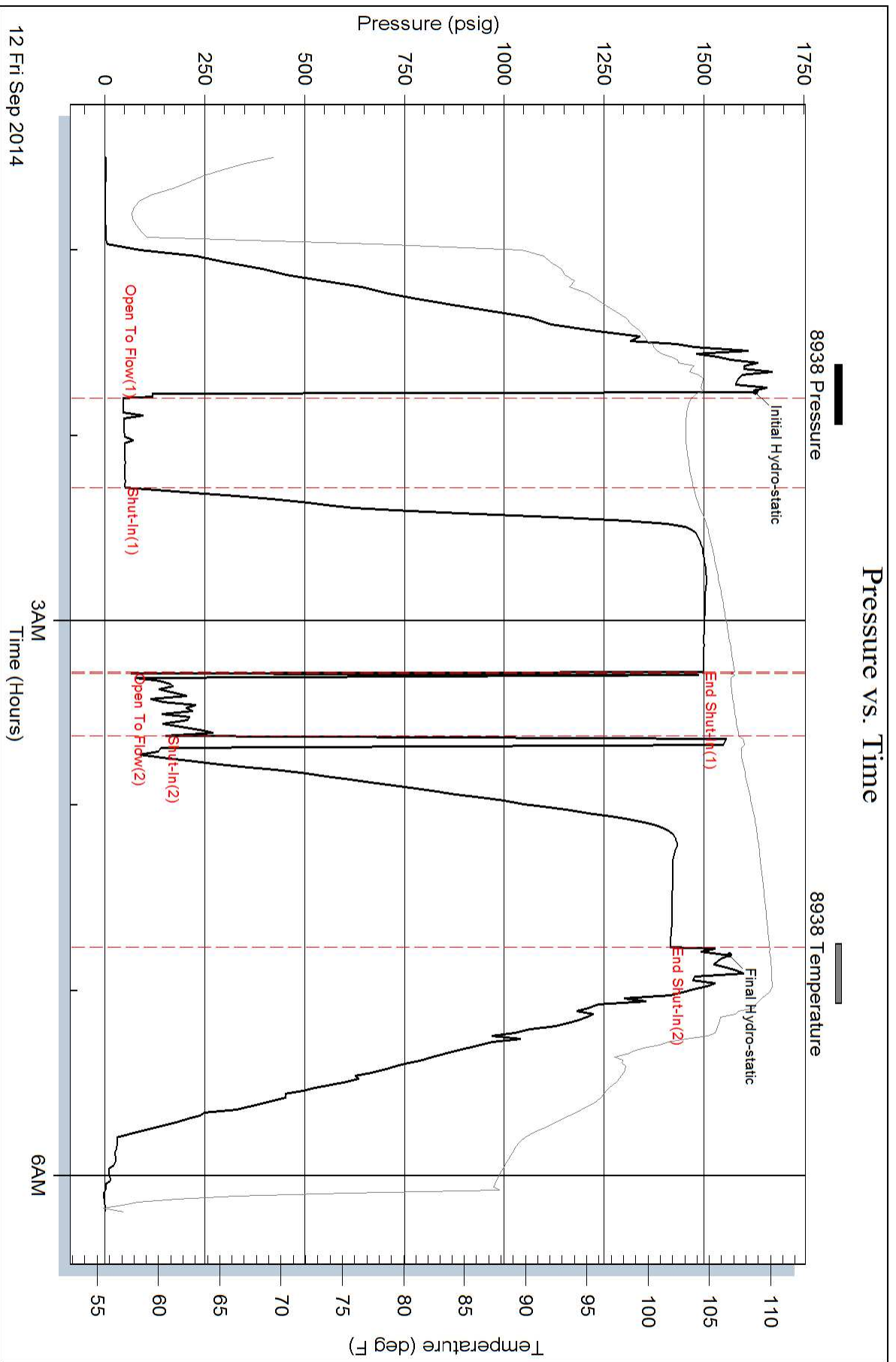
Serial #:

Laboratory Name:

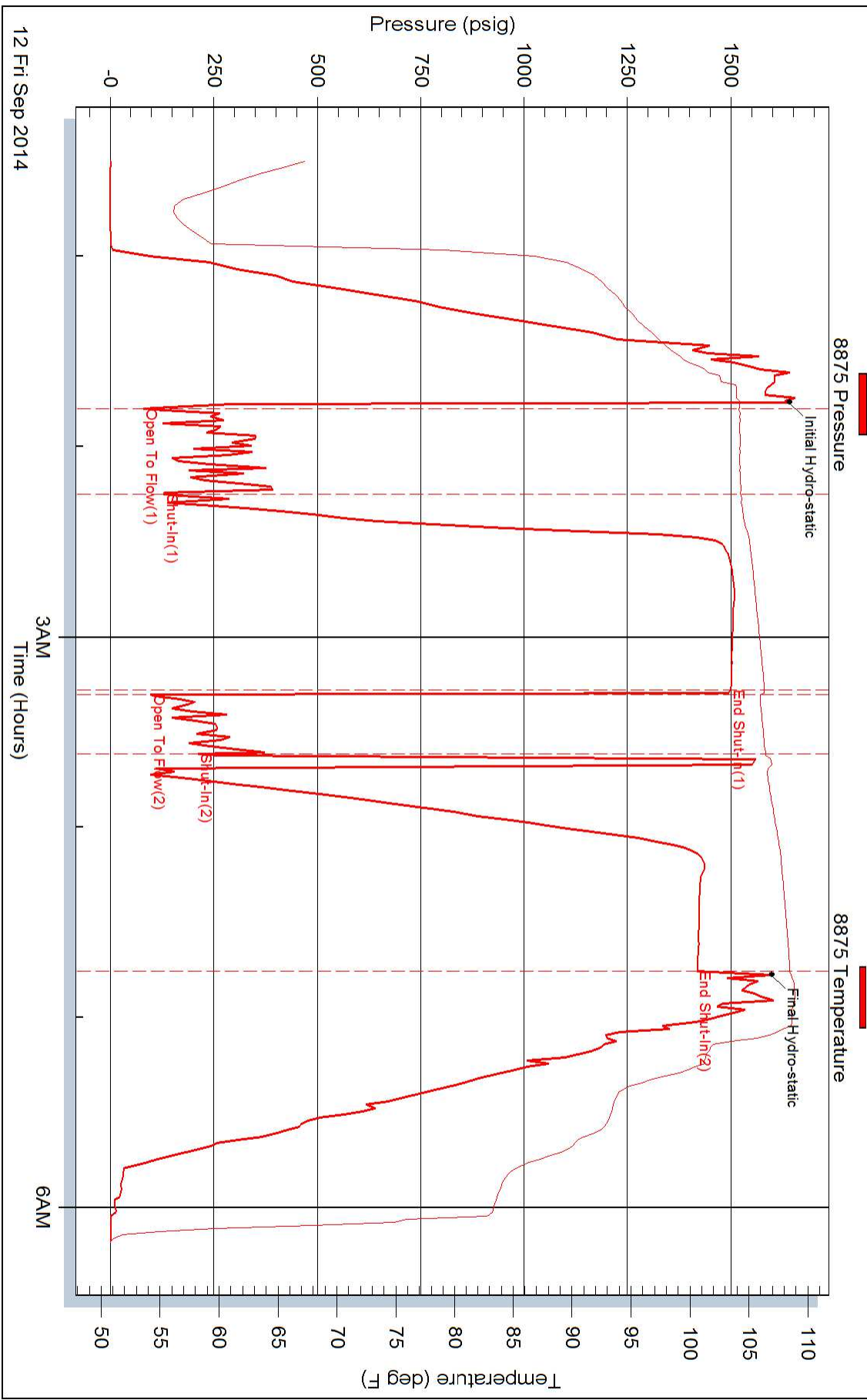
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.13 @ 00:00:00

End Date:

Job Ticket #: 60373

DST #: 7

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.13 @ 17:19:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

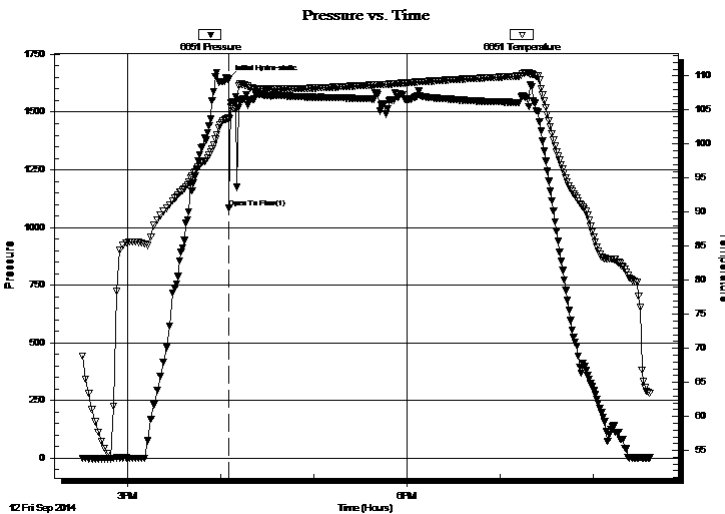
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60373 **DST#: 7**
 Test Start: 2014.09.13 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
Interval: 3380.00 ft (KB) To 3381.00 ft (KB) (TVD)
 Total Depth: 3315.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6651 Inside
 Press@RunDepth: psig @ 3309.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.12 End Date: 2014.09.12 Last Calib.: 2014.09.13
 Start Time: 14:31:00 End Time: 20:36:30 Time On Btm: 2014.09.12 @ 16:05:00
 Time Off Btm:

TEST COMMENT: 1st Openig 30 Minutes Good blow bottom of the bucket in 1 min. decreased to very weak blow
 1st Shut-In 60 Minutes
 2nd Opening 35 Minutes-no blow flushed tool good surge weak blow died flushed tool 3 more times same results
 2nd Shut-In 60 Minutes



PRESSURE SUMMARY

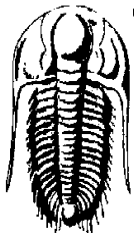
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.23	103.85	Initial Hydro-static
1	1086.32	103.76	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
240.00	heavy mud	3.37

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
Job Ticket: 60373 **DST#: 7**
Test Start: 2014.09.13 @ 00:00:00

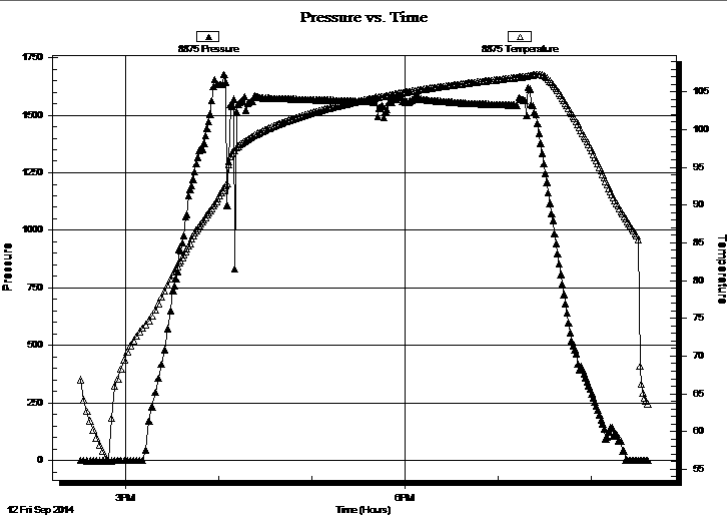
GENERAL INFORMATION:

Formation: **Kansas City "F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: 3380.00 ft (KB) To 3381.00 ft (KB) (TVD)
Total Depth: 3315.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Initial)
Tester: Gene Budig
Unit No: S4
Reference Elevations: 1915.00 ft (KB)
1907.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
Press@RunDepth: psig @ 3309.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.12 End Date: 2014.09.12 Last Calib.: 2014.09.13
Start Time: 14:31:00 End Time: 20:36:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 1st Openig 30 Minutes Good blow bottom of the bucket in 1 min. decreased to very weak blow
1st Shut-In 60 Minutes
2nd Opening 35 Minutes-no blow flushed tool good surge weak blow died flushed tool 3 more times same results
2nd Shut-In 60 Minutes



PRESSURE SUMMARY

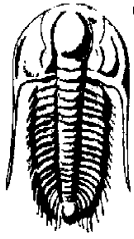
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
240.00	heavy mud	3.37

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60373

DST#: 7

ATTN: Rene Husted

Test Start: 2014.09.13 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Straddle (Initial)

Tester: Gene Budig

Unit No: S4

Interval: **3380.00 ft (KB) To 3381.00 ft (KB) (TVD)**

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3315.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.12

End Date: 2014.09.13

Last Calib.: 1899.12.30

Start Time: 14:15:00

End Time: 04:00:00

Time On Btm:

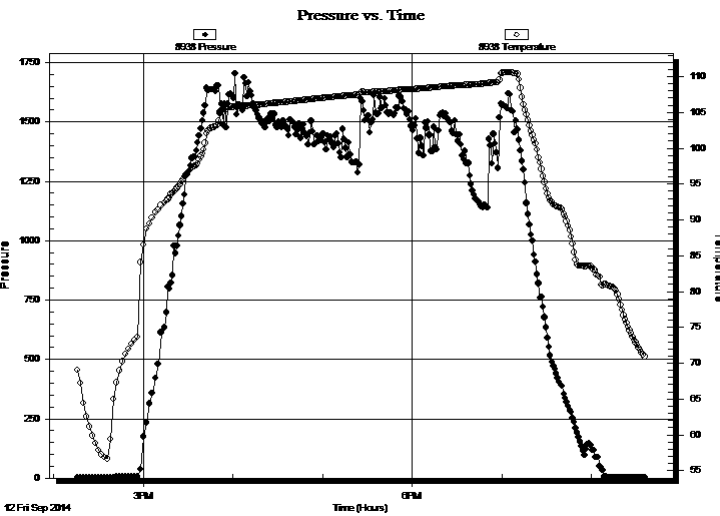
Time Off Btm:

TEST COMMENT: 1st Openig 30 Minutes Good blow bottom of the bucket in 1 min. decreased to very weak blow

1st Shut-In 60 Minutes

2nd Opening 35 Minutes-no blow flushed tool good surge weak blow died flushed tool 3 more times same results

2nd Shut-In 60 Minutes



PRESSURE SUMMARY

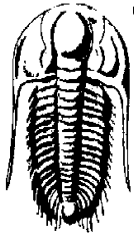
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
240.00	heavy mud	3.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60373

DST#: 7

ATTN: Rene Husted

Test Start: 2014.09.13 @ 00:00:00

Tool Information

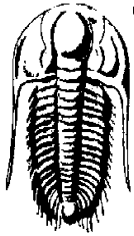
Drill Pipe:	Length: 3277.00 ft	Diameter: 3.80 inches	Volume: 45.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 45.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3280.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3311.00 ft			
Interval between Packers:	31.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3257.00	
Hydraulic Tool	5.00			3262.00	
Jars	6.00			3268.00	
Safety Joint	2.00			3270.00	
Top Packer	5.00			3275.00	
Packer	5.00			3280.00	28.00 Bottom Of Top Packer
Anchor	28.00			3308.00	
Recorder	1.00	6651	Inside	3309.00	
Recorder	1.00	8878	Outside	3310.00	
Blank Off Sub	1.00			3311.00	31.00 Tool Interval
Packer	5.00			3316.00	
Recorder	1.00		Outside	3317.00	
Bull Plug	3.00			3320.00	9.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60373

DST#: 7

ATTN: Rene Husted

Test Start: 2014.09.13 @ 00:00:00

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:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	heavy mud	3.367

Total Length: 240.00 ft Total Volume: 3.367 bbl

Num Fluid Samples: 0

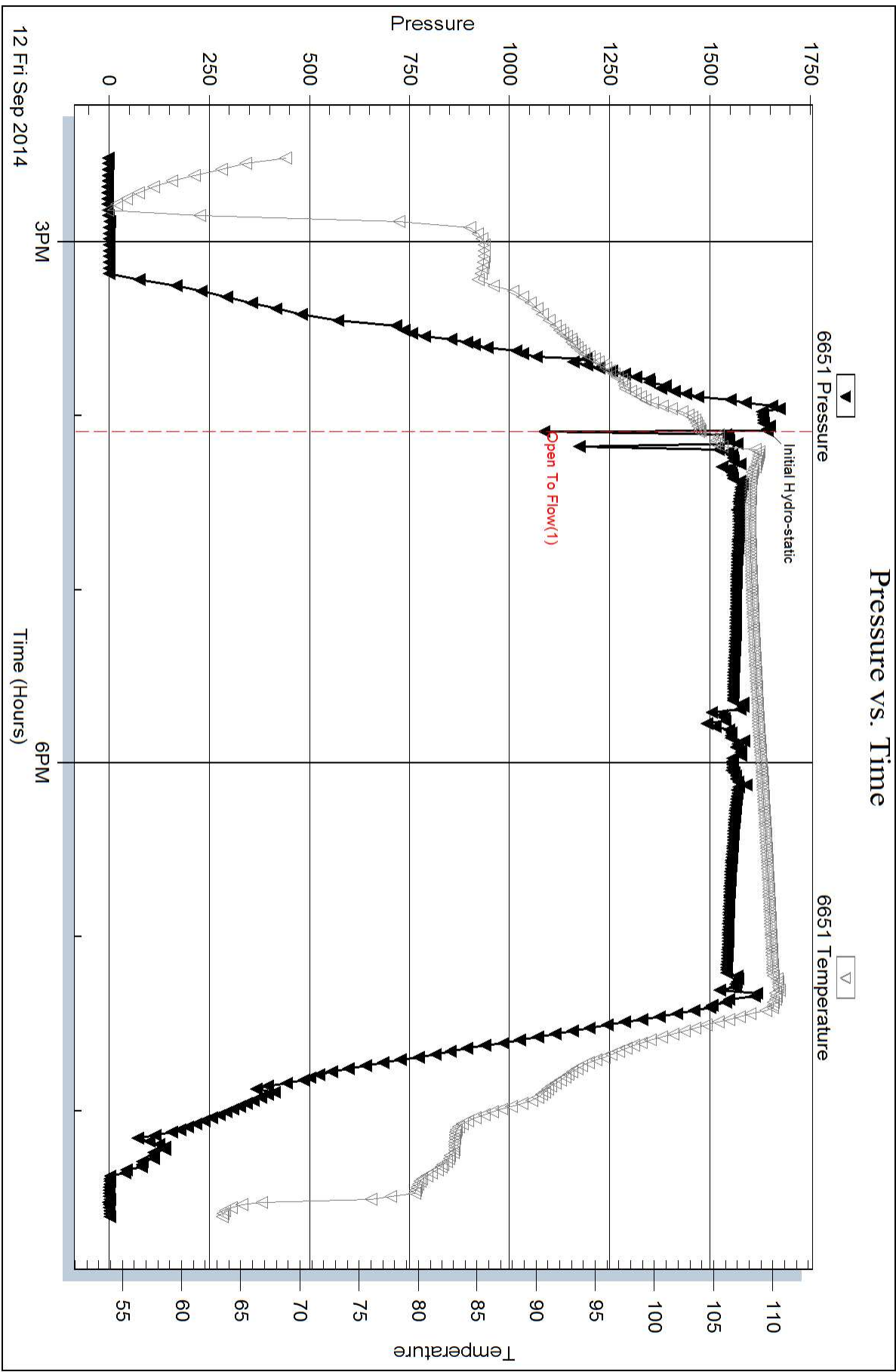
Num Gas Bombs: 0

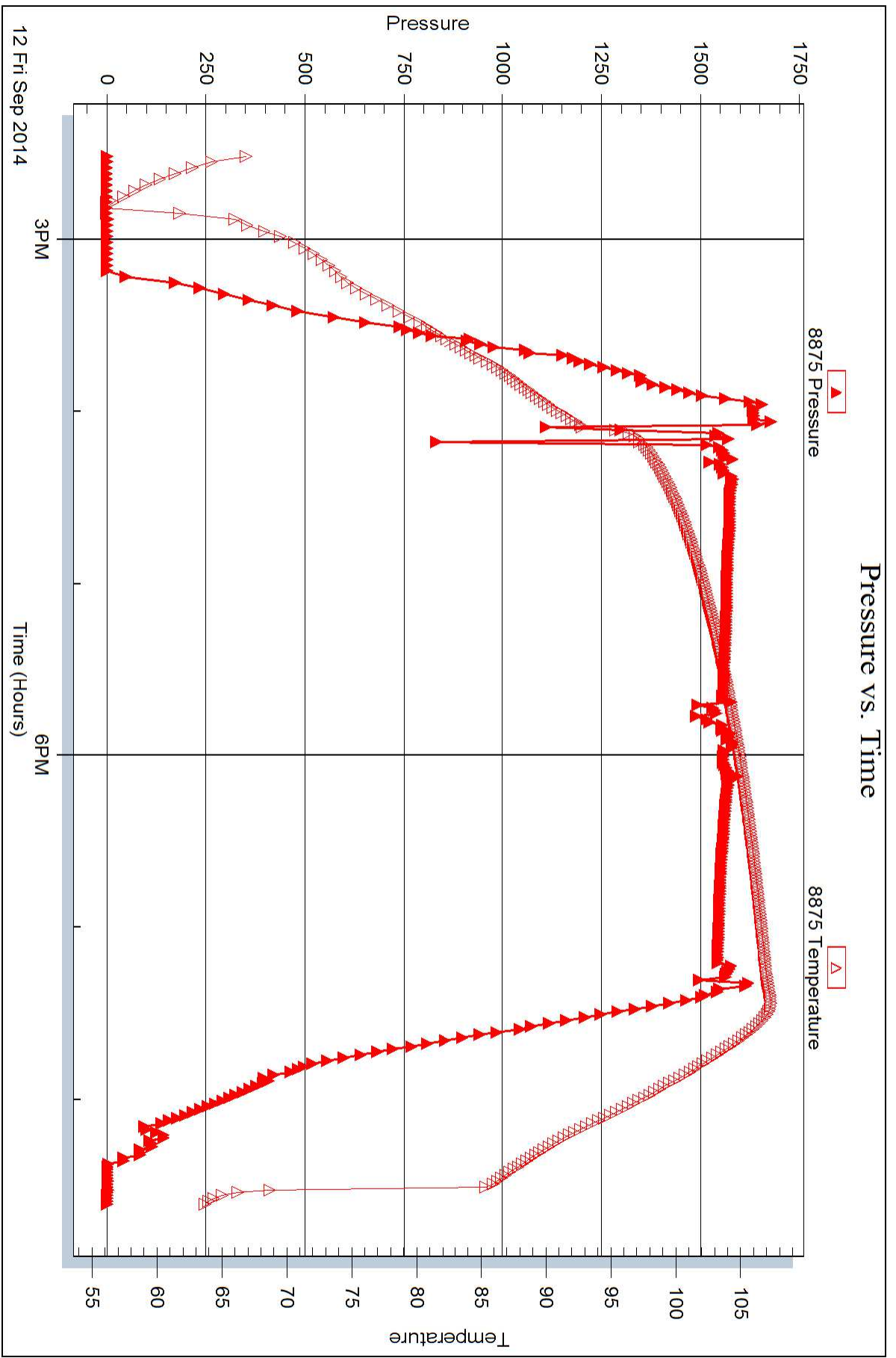
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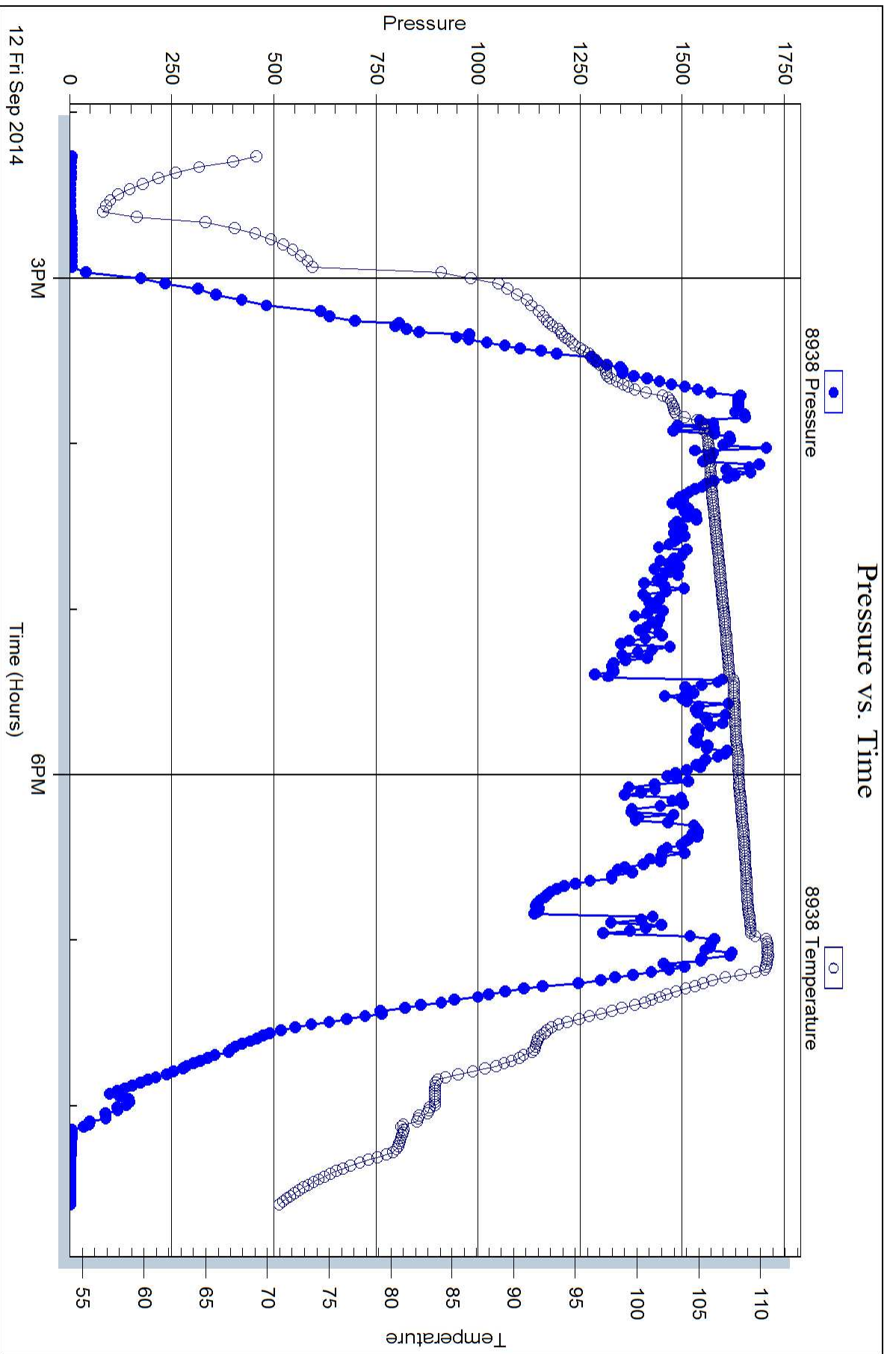
Laboratory Name:

Laboratory Location:

Recovery Comments:









DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.12 @ 21:13:00

End Date: 2014.09.13 @ 04:38:00

Job Ticket #: DST #: 8

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.13 @ 17:08:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

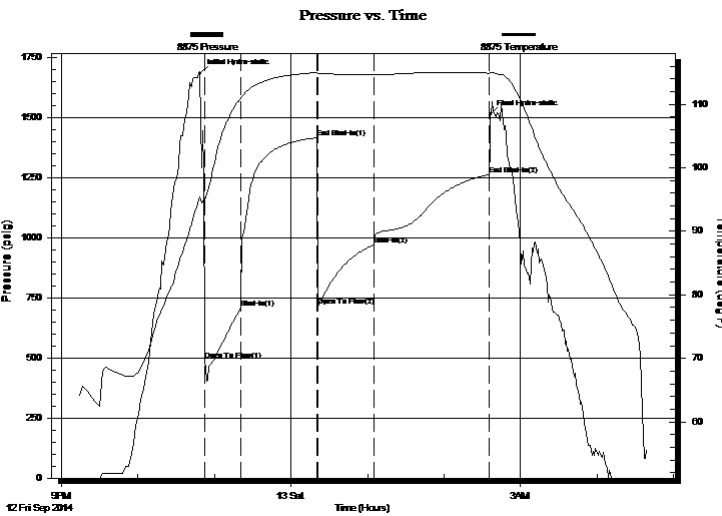
19-19s18w Barton
Kufeld #1-19
 Job Ticket: **DST#: 8**
 Test Start: 2014.09.12 @ 21:13:00

GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:49:00
 Time Test Ended: 04:38:00
 Interval: **3280.00 ft (KB) To 3311.00 ft (KB) (TVD)**
 Total Depth: 3315.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
 Press@RunDepth: 1263.19 psig @ 3309.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.12 End Date: 2014.09.13 Last Calib.: 1899.12.30
 Start Time: 21:13:22 End Time: 04:38:52 Time On Btm: 2014.09.12 @ 22:48:52
 Time Off Btm: 2014.09.13 @ 02:36:22

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of the bucket in 1 minute
 1st Shut-In 60 Minutes
 2nd Opening 45 Minutes Good blow built to the bottom of the bucket in 1 minute
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.90	95.48	Initial Hydro-static
4	491.30	94.95	Open To Flow (1)
32	705.71	110.95	Shut-In(1)
92	1416.20	114.97	End Shut-In(1)
93	715.21	114.79	Open To Flow (2)
136	969.05	114.61	Shut-In(2)
227	1263.19	114.88	End Shut-In(2)
228	1513.20	114.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Muddy Water	4.21
1750.00	Water Chlorides 46,000	24.55

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
 Job Ticket: **DST#: 8**
 Test Start: 2014.09.12 @ 21:13:00

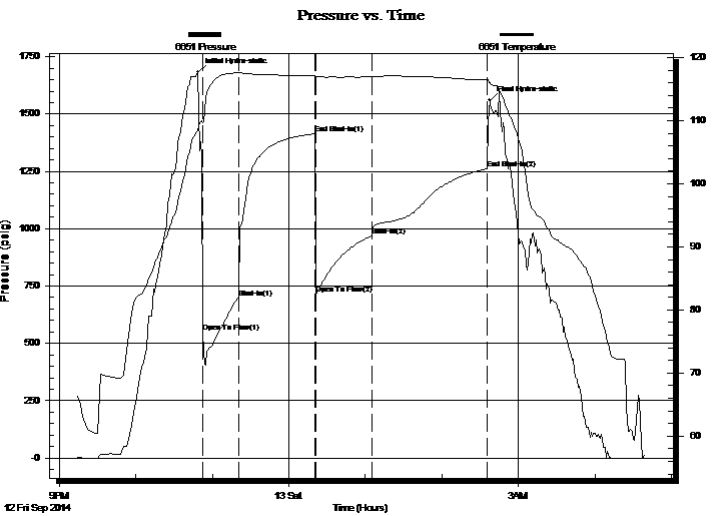
GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:49:00
 Time Test Ended: 04:38:00
 Interval: **3280.00 ft (KB) To 3311.00 ft (KB) (TVD)**
 Total Depth: 3315.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6651

Press@RunDepth: 1261.27 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.12 End Date: 2014.09.13 Last Calib.: 1899.12.30
 Start Time: 21:13:28 End Time: 04:38:58 Time On Btm: 2014.09.12 @ 22:48:58
 Time Off Btm: 2014.09.13 @ 02:37:28

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of the bucket in 1 minute
 1st Shut-In 60 Minutes
 2nd Opening 45 Minutes Good blow built to the bottom of the bucket in 1 minute
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.57	108.51	Initial Hydro-static
4	549.80	109.64	Open To Flow (1)
32	700.07	117.64	Shut-In(1)
92	1413.97	117.20	End Shut-In(1)
93	713.74	116.96	Open To Flow (2)
136	967.15	116.96	Shut-In(2)
227	1261.27	116.46	End Shut-In(2)
229	1559.26	115.95	Final Hydro-static

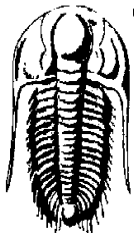
Recovery

Length (ft)	Description	Volume (bbl)
300.00	Muddy Water	4.21
1750.00	Water Chlorides 46,000	24.55

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
 Job Ticket: **DST#: 8**
 Test Start: 2014.09.12 @ 21:13:00

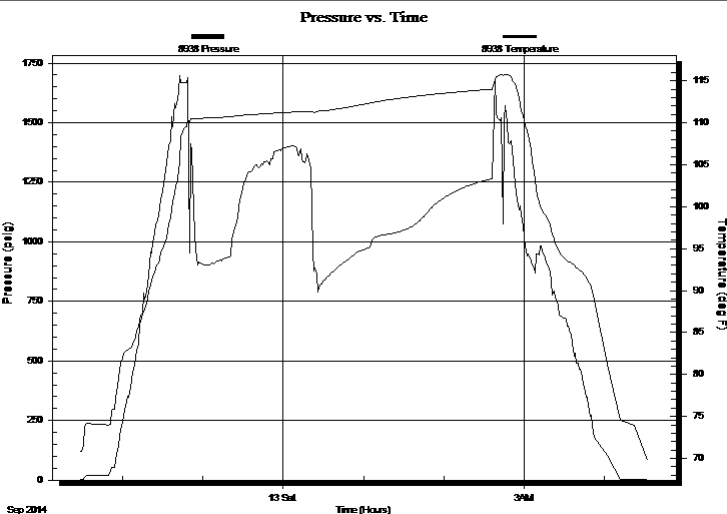
GENERAL INFORMATION:

Formation: **Kansas City "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:49:00
 Time Test Ended: 04:38:00
 Interval: **3280.00 ft (KB) To 3311.00 ft (KB) (TVD)**
 Total Depth: 3315.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.12 End Date: 2014.09.13 Last Calib.: 1899.12.30
 Start Time: 14:52:00 End Time: 04:37:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1st Opening 30 Minutes Good blow built to the bottom of the bucket in 1 minute
 1st Shut-In 60 Minutes
 2nd Opening 45 Minutes Good blow built to the bottom of the bucket in 1 minute
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

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

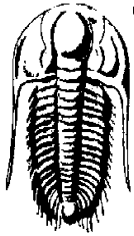
Recovery

Length (ft)	Description	Volume (bbl)
300.00	Muddy Water	4.21
1750.00	Water Chlorides 46,000	24.55

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket:

DST#: 8

ATTN: Rene Hustedad

Test Start: 2014.09.12 @ 21:13:00

Tool Information

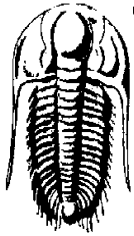
Drill Pipe:	Length: 3277.00 ft	Diameter: 3.80 inches	Volume: 45.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 45.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3280.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3311.00 ft			
Interval between Packers:	31.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

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

Shut-In Tool	5.00			3257.00	
Hydraulic Tool	5.00			3262.00	
Jars	6.00			3268.00	
Safety Joint	2.00			3270.00	
Top Packer	5.00			3275.00	
Packer	5.00			3280.00	28.00 Bottom Of Top Packer
Anchor	28.00			3308.00	
Recorder	1.00	8875	Inside	3309.00	
Recorder	1.00	8878	Outside	3310.00	
Blank Off Sub	1.00			3311.00	31.00 Tool Interval
Packer	5.00			3316.00	
Recorder	1.00		Outside	3317.00	
Bull Plug	3.00			3320.00	9.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket:

DST#: 8

ATTN: Rene Husted

Test Start: 2014.09.12 @ 21:13:00

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:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Muddy Water	4.208
1750.00	Water Chlorides 46,000	24.548

Total Length: 2050.00 ft Total Volume: 28.756 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

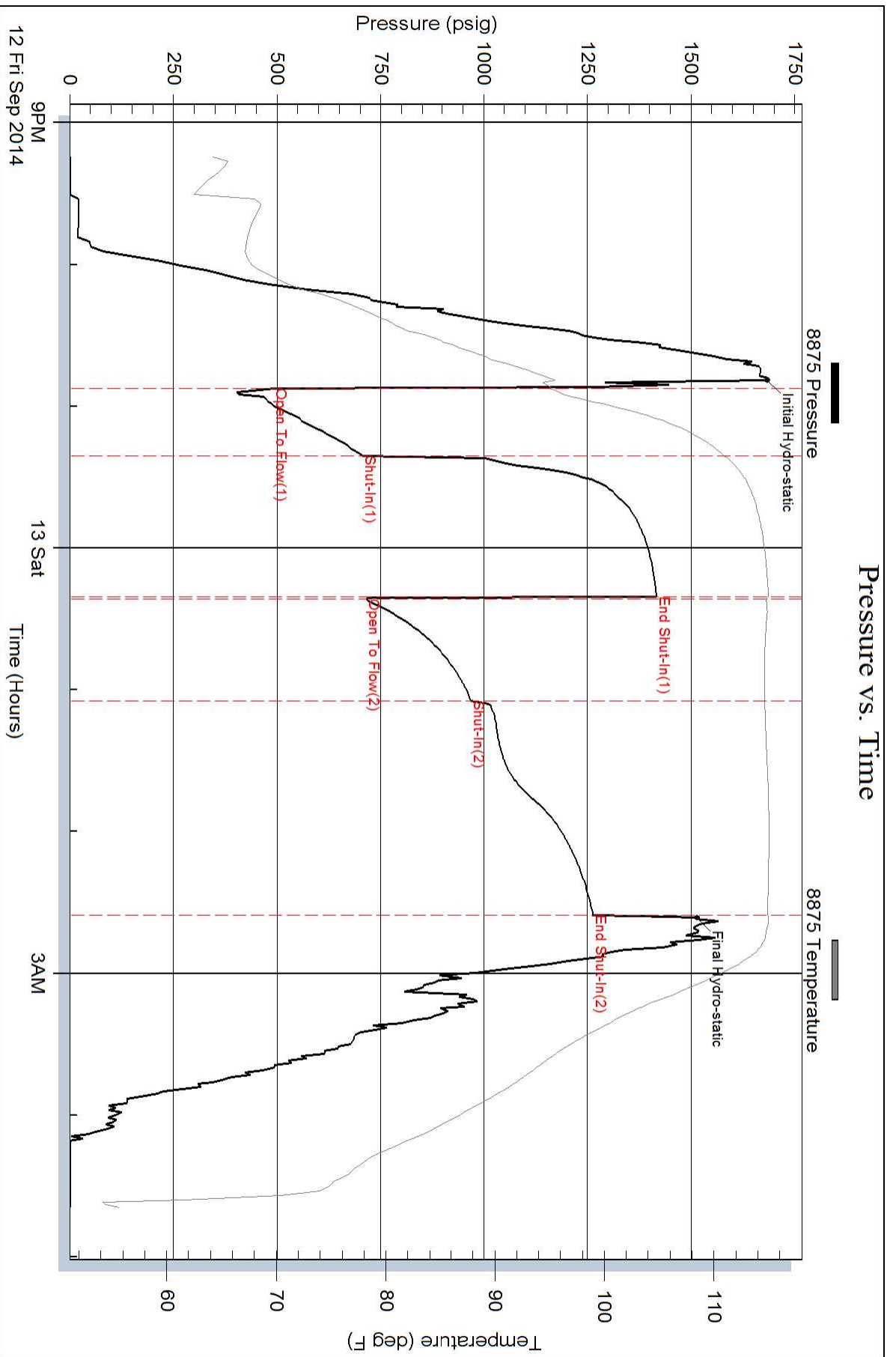
Serial #:

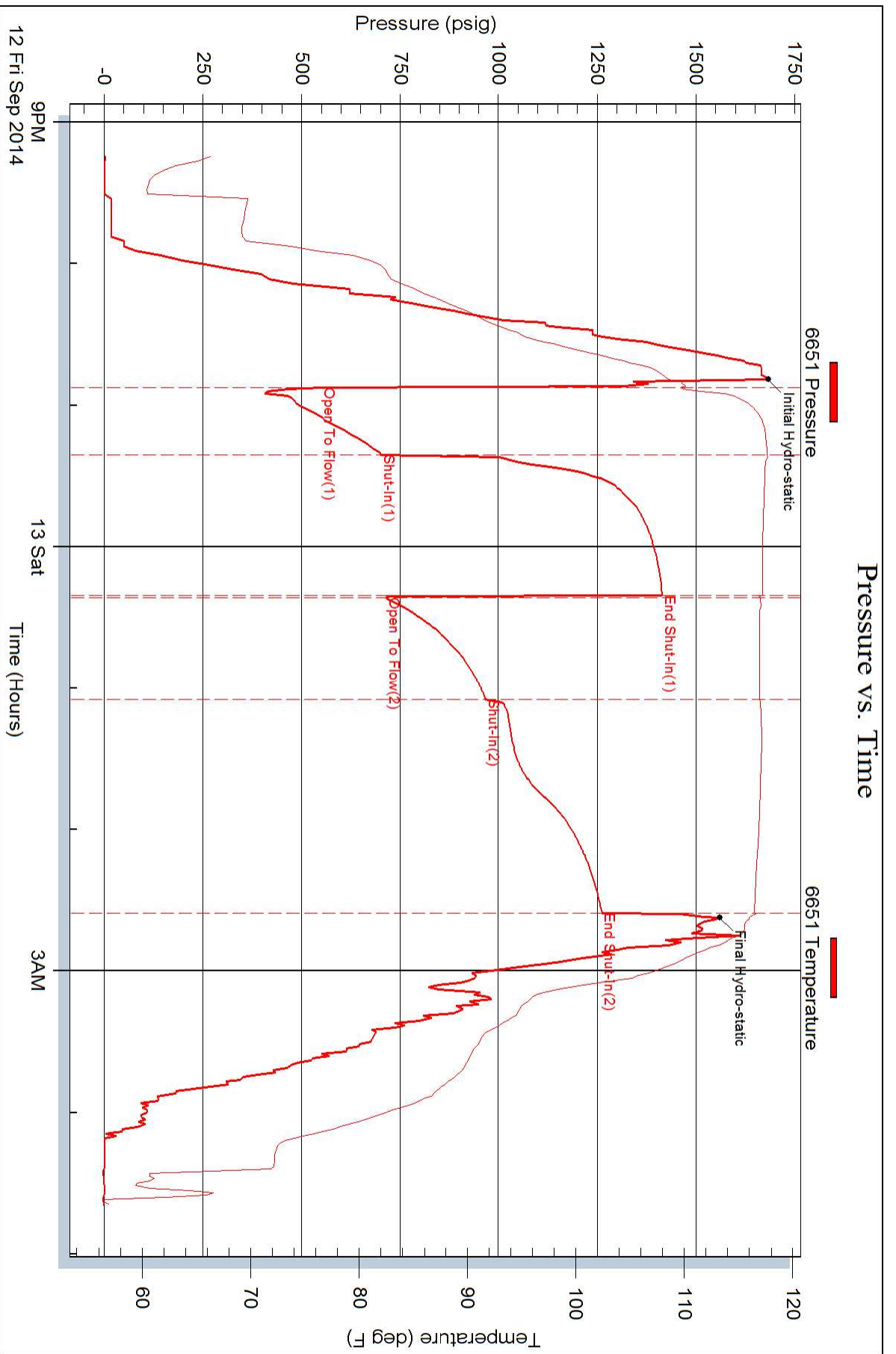
Laboratory Name:

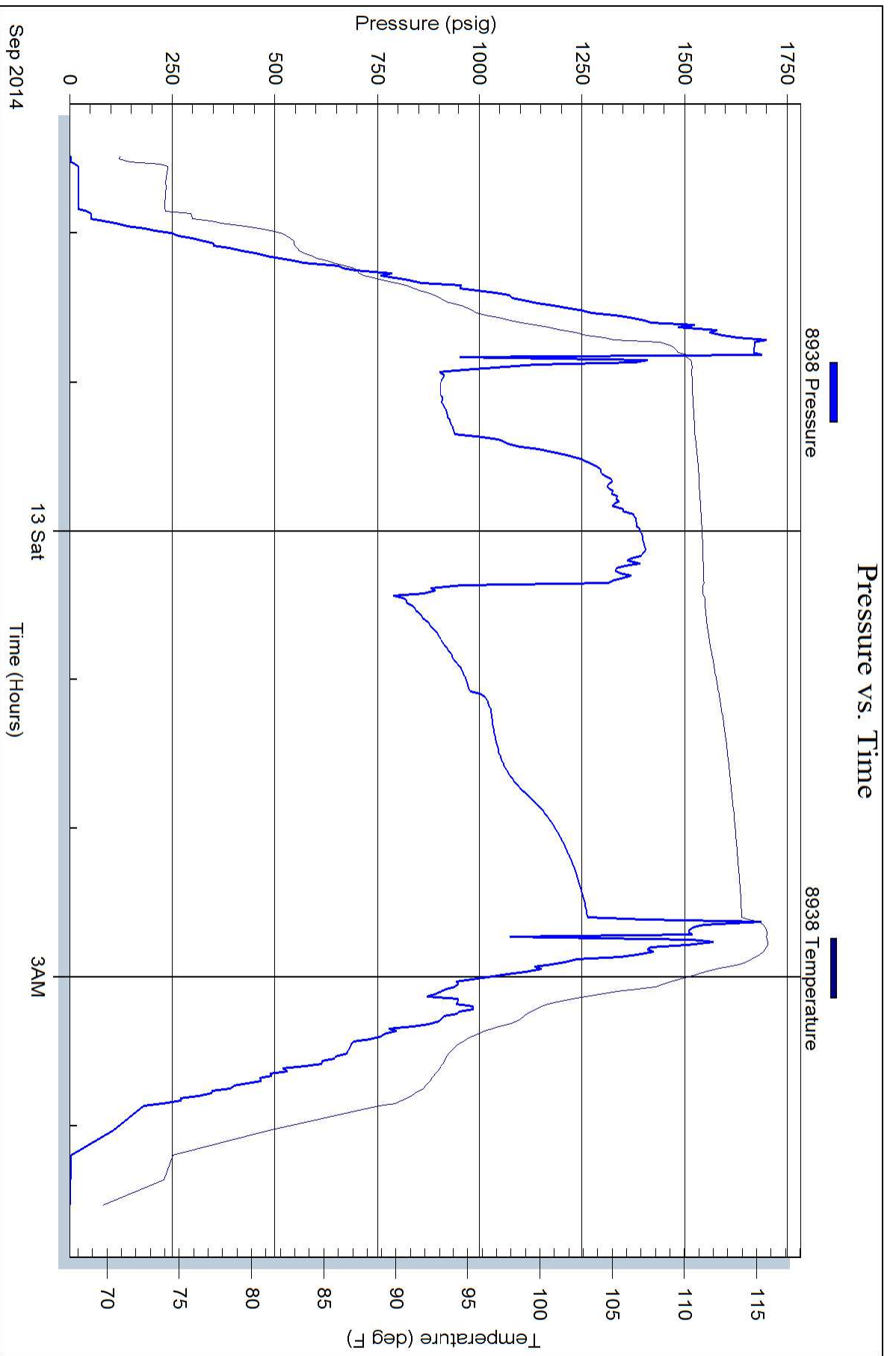
Laboratory Location:

Recovery Comments:

Pressure vs. Time









DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.14 @ 00:00:00

End Date:

Job Ticket #: 60375

DST #: 9

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.14 @ 11:37:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

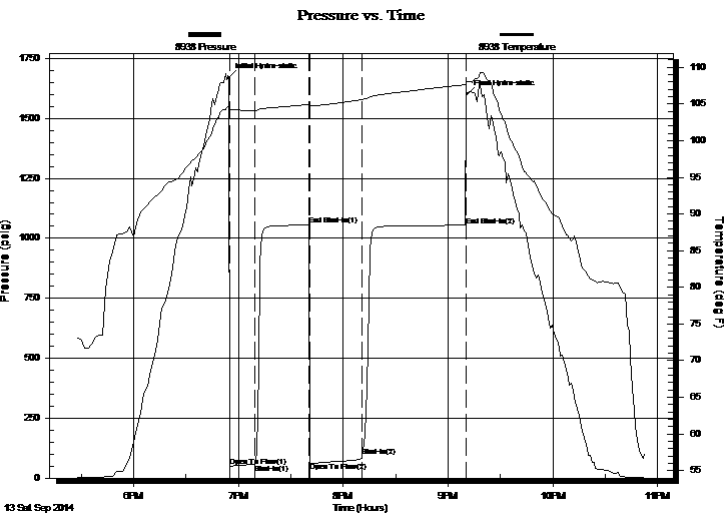
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60375 **DST#: 9**
 Test Start: 2014.09.14 @ 00:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H & I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Bujdig
 Unit No: S4
 Interval: **3354.00 ft (KB) To 3412.00 ft (KB) (TVD)**
 Reference Elevations: 1915.00 ft (KB)
 Total Depth: 3412.00 ft (KB) (TVD) 1907.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
 Press@RunDepth: 1054.18 psig @ 3408.22 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.13 End Date: 2014.09.13 Last Calib.: 2014.09.14
 Start Time: 17:27:00 End Time: 22:53:00 Time On Btm: 2014.09.13 @ 18:54:30
 Time Off Btm: 2014.09.13 @ 21:11:00

TEST COMMENT: 1st Opening 15 Minutes Very weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 30 Minutes Very weak surface blow through out
 2nd Shut-In 60 Minutes



PRESSURE SUMMARY

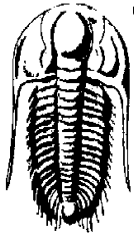
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.51	104.60	Initial Hydro-static
1	49.73	104.23	Open To Flow (1)
15	57.39	104.04	Shut-In(1)
46	1054.83	104.95	End Shut-In(1)
47	65.04	104.45	Open To Flow (2)
77	92.81	105.60	Shut-In(2)
136	1054.18	107.64	End Shut-In(2)
137	1600.06	107.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	HEAVY MUD	0.98

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60375 **DST#: 9**
 Test Start: 2014.09.14 @ 00:00:00

GENERAL INFORMATION:

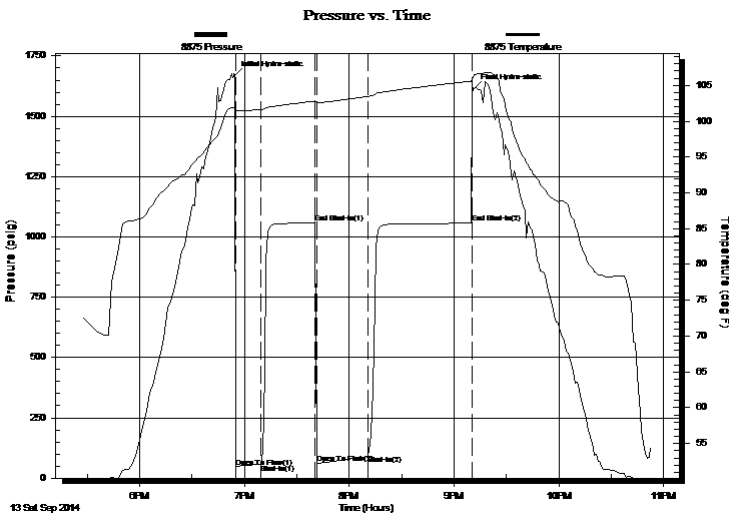
Formation: **Kansas City "H & I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **3354.00 ft (KB) To 3412.00 ft (KB) (TVD)**
 Total Depth: 3412.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Bujdig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 1056.49 psig @ 3409.22 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.13 End Date: 2014.09.13 Last Calib.: 2014.09.14
 Start Time: 17:27:00 End Time: 22:53:00 Time On Btm: 2014.09.13 @ 18:54:30
 Time Off Btm: 2014.09.13 @ 21:11:30

TEST COMMENT: 1st Opening 15 Minutes Very weak surface blow through out
 1st Shut-In 30 Minutes
 2nd Opening 30 Minutes Very weak surface blow through out
 2nd Shut-In 60 Minutes

PRESSURE SUMMARY



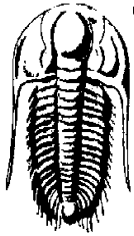
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.69	101.86	Initial Hydro-static
1	46.98	101.43	Open To Flow (1)
15	58.34	101.61	Shut-In(1)
46	1057.70	102.83	End Shut-In(1)
47	61.08	102.62	Open To Flow (2)
77	94.69	103.46	Shut-In(2)
136	1056.49	105.58	End Shut-In(2)
137	1613.87	106.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	HEAVY MUD	0.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60375

DST#: 9

ATTN: Rene Husted

Test Start: 2014.09.14 @ 00:00:00

Tool Information

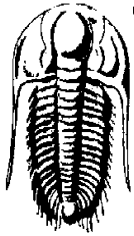
Drill Pipe:	Length: 3338.00 ft	Diameter: 3.80 inches	Volume: 46.82 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3354.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.22 ft				
Tool Length:	86.22 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3331.00	
Hydraulic Tool	5.00			3336.00	
Jars	6.00			3342.00	
Safety Joint	2.00			3344.00	
Top Packer	5.00			3349.00	
Packer	5.00			3354.00	28.00 Bottom Of Top Packer
Anchor	5.00			3359.00	
Change Over Sub	0.75			3359.75	
Drill Pipe	31.72			3391.47	
Change Over Sub	0.75			3392.22	
Anchor	15.00			3407.22	
Recorder	1.00	8938	Inside	3408.22	
Recorder	1.00	8875	Outside	3409.22	
Bull Plug	3.00			3412.22	58.22 Anchor Tool

Total Tool Length: 86.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60375

DST#: 9

ATTN: Rene Husted

Test Start: 2014.09.14 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	hEAVY MUD	0.982

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

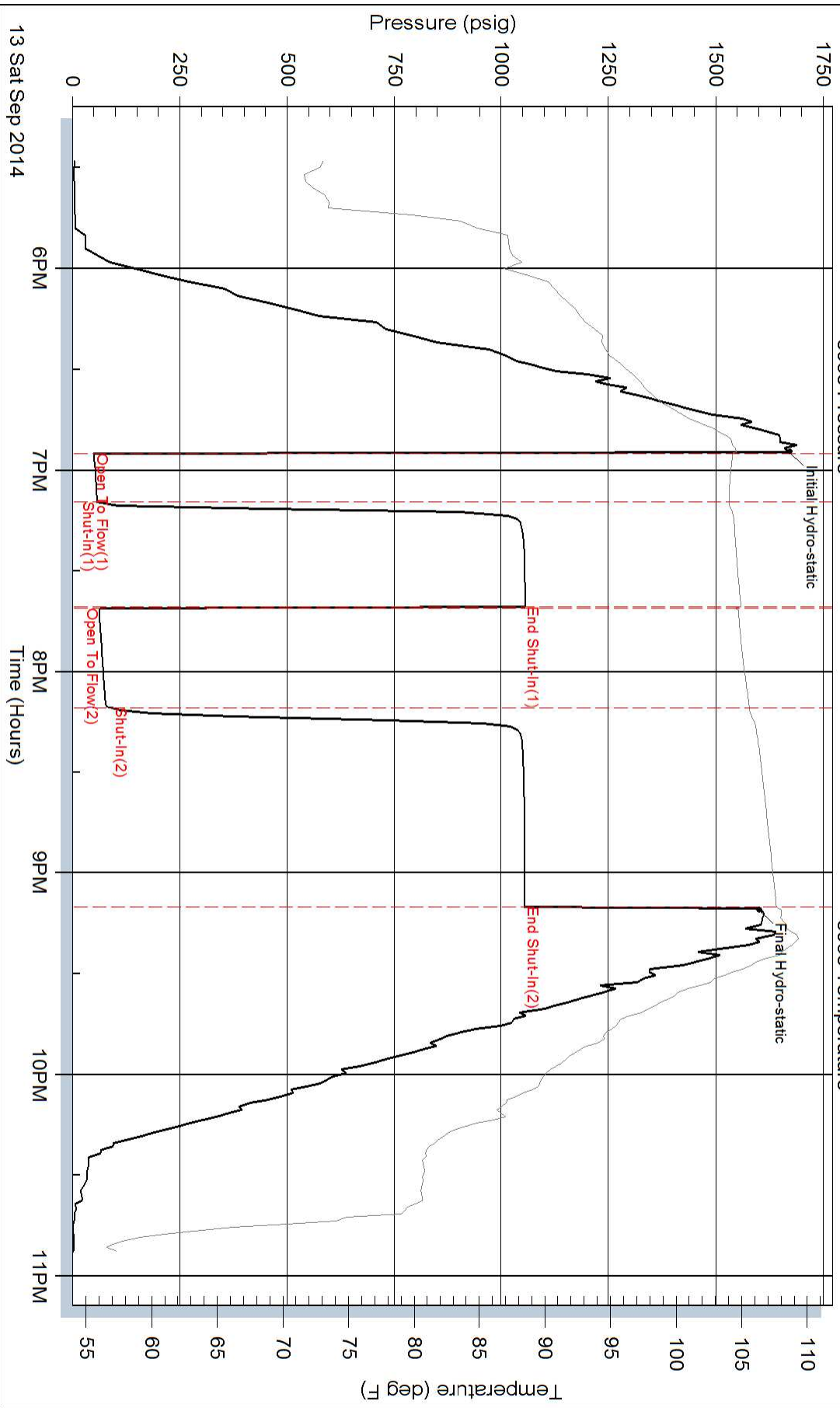
Serial #:

Laboratory Name:

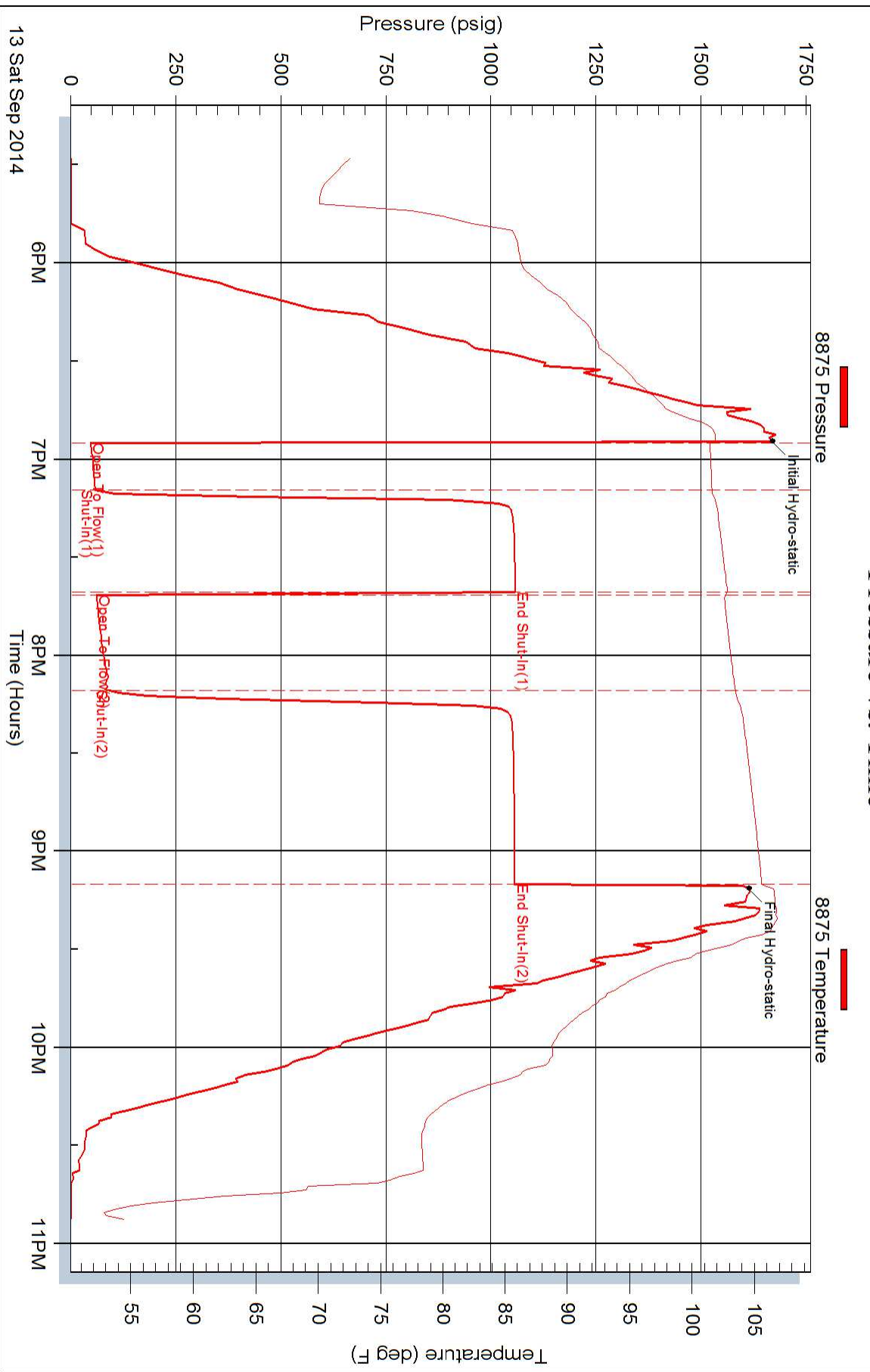
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.15 @ 00:00:00

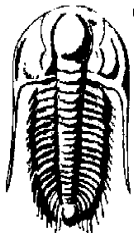
End Date:

Job Ticket #:

DST #: 10

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.15 @ 18:15:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

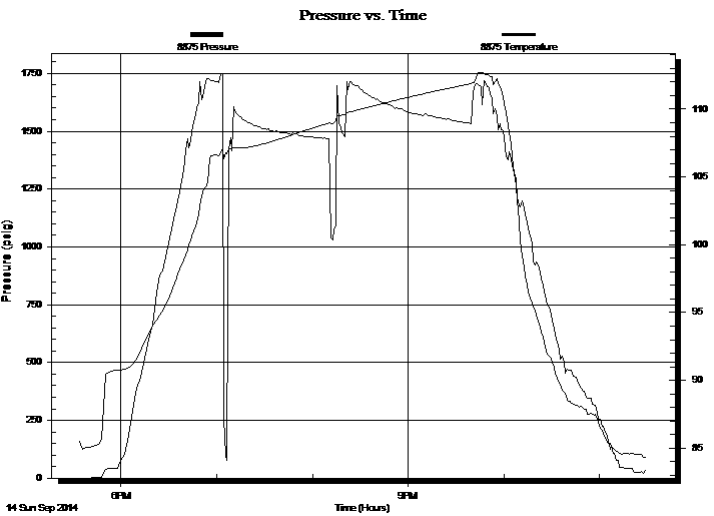
19-19s18w Barton
Kufeld #1-19
 Job Ticket: **DST#: 10**
 Test Start: 2014.09.15 @ 00:00:00

GENERAL INFORMATION:

Formation:
 Deviated: No Whipstock: ft (KB) Test Type: (Initial)
 Time Tool Opened: Tester:
 Time Test Ended: Unit No:
Interval: ft (KB) To ft (KB) (TVD) Reference Elevations: 1915.00 ft (KB)
 Total Depth: ft (KB) (TVD) 1907.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 3562.77 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.14 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 17:33:00 End Time: 05:58:30 Time On Btm:
 Time Off Btm:

TEST COMMENT:



PRESSURE SUMMARY

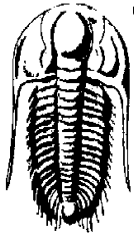
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket:

DST#: 10

ATTN: Rene Husted

Test Start: 2014.09.15 @ 00:00:00

Tool Information

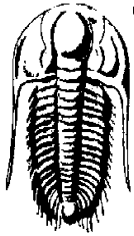
Drill Pipe:	Length: 3464.00 ft	Diameter: 3.80 inches	Volume: 48.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 48.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3492.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	0.00 ft			
Tool Length:	102.77 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3469.00	
Hydraulic Tool	5.00			3474.00	
Jars	6.00			3480.00	
Safety Joint	2.00			3482.00	
Top Packer	5.00			3487.00	
Packer	5.00			3492.00	28.00 Bottom Of Top Packer
Anchor	5.00			3497.00	
Change Over Sub	0.75			3497.75	
Drill Pipe	31.27			3529.02	
Change Over Sub	0.75			3529.77	
Anchor	32.00			3561.77	
Recorder	1.00	8875	Inside	3562.77	
Recorder	1.00	8938	Outside	3563.77	
Bull Plug	3.00			3566.77	74.77 Anchor Tool

Total Tool Length: 102.77



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
Job Ticket: **DST#: 10**
Test Start: 2014.09.15 @ 00:00:00

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: 14.729 bbl

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

Laboratory Name: Laboratory Location:

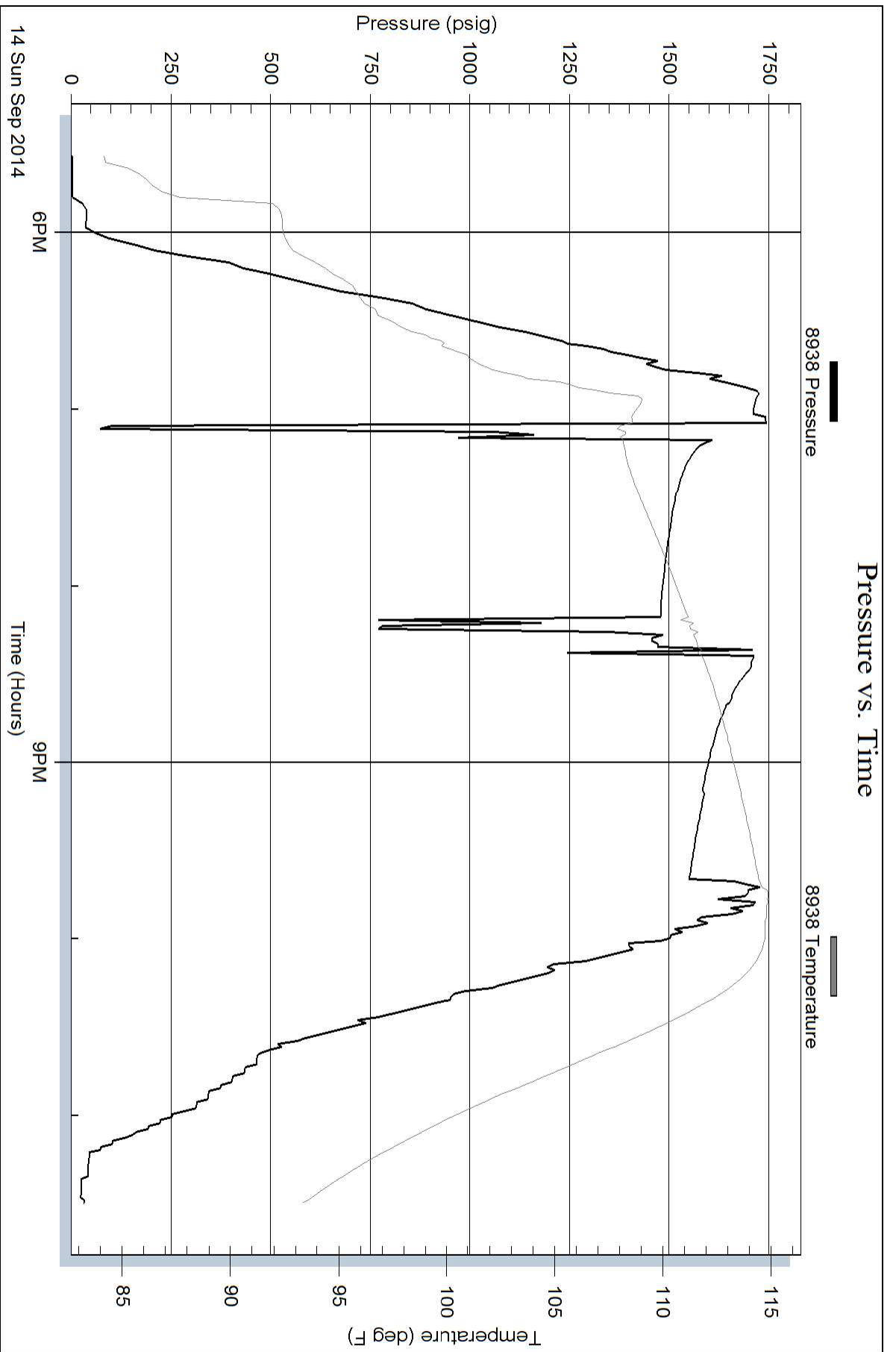
Recovery Comments:

Serial #: 8938

Outside F.G. Holl Company LLC

Kufeld #1-19

DST Test Number: 10



Trilobe Testing, Inc

Ref. No:

Printed: 2014.09.15 @ 18:15:07

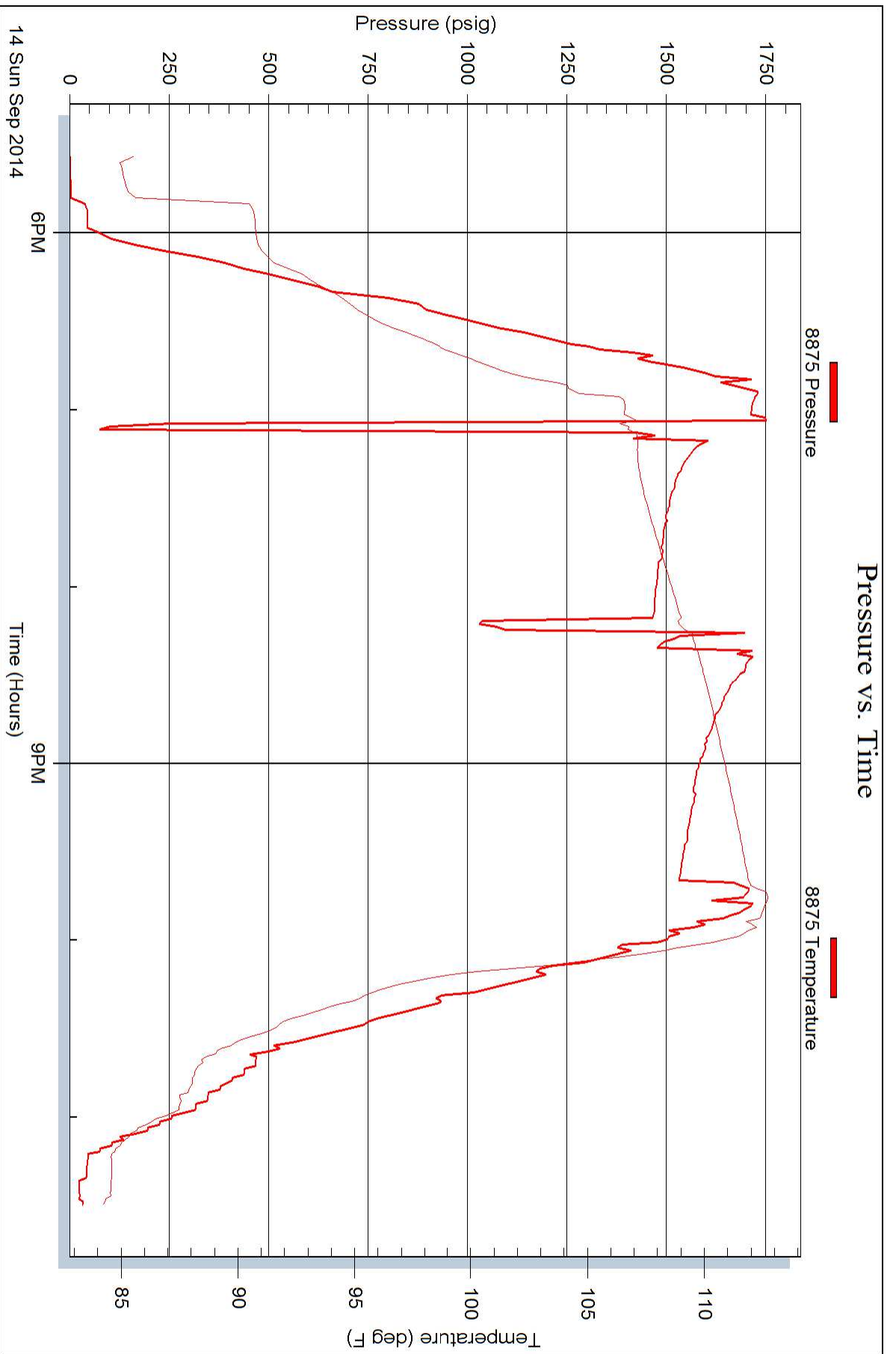
Serial #: 8875

Inside

F.G. Holl Company LLC

Kufeld #1-19

DST Test Number: 10



Triobite Testing, Inc

Ref. No:

Printed: 2014.09.15 @ 18:15:07



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.15 @ 00:00:00

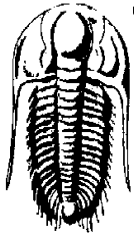
End Date:

Job Ticket #: 60376

DST #: 11

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.15 @ 18:20:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

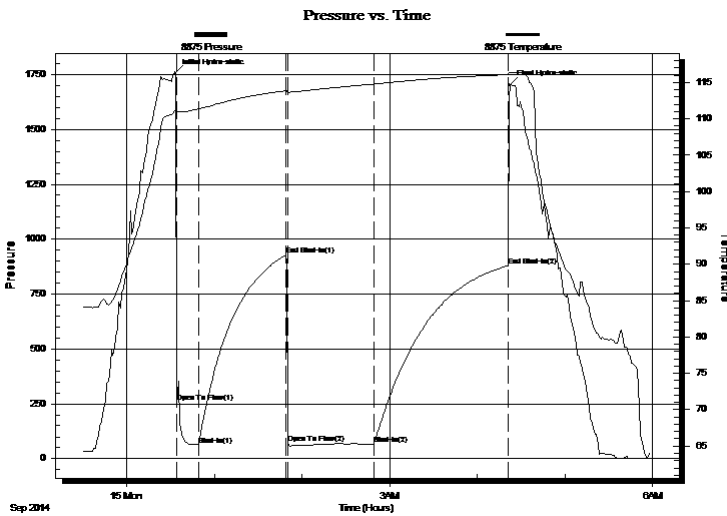
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60376 **DST#: 11**
 Test Start: 2014.09.15 @ 00:00:00

GENERAL INFORMATION:

Formation: **Conglomerate & Arbuv**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **3471.00 ft (KB) To 3555.00 ft (KB) (TVD)**
 Total Depth: 3555.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
 Press@RunDepth: 878.90 psig @ 3550.77 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.14 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 17:33:00 End Time: 05:58:30 Time On Btm: 2014.09.15 @ 00:33:30
 Time Off Btm: 2014.09.15 @ 04:22:00

TEST COMMENT: 1st Opening 15 Minutes Good blow built to the bottom of the bucket in 1 minute
 1st Shut-In 60 Minutes
 2nd Opening 60 Minutes Good blow gas to surface in 15 minutes See gas flow report
 2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.02	111.26	Initial Hydro-static
1	257.15	110.40	Open To Flow (1)
16	63.50	111.36	Shut-In(1)
76	927.62	113.87	End Shut-In(1)
77	72.14	113.68	Open To Flow (2)
136	67.54	114.77	Shut-In(2)
228	878.90	116.10	End Shut-In(2)
229	1703.26	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	MUD	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60376

DST#: 11

ATTN: Rene Husted

Test Start: 2014.09.15 @ 00:00:00

Tool Information

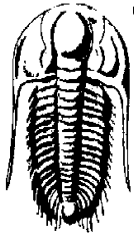
Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3471.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.77 ft			
Tool Length:	111.77 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3448.00	
Hydraulic Tool	5.00			3453.00	
Jars	6.00			3459.00	
Safety Joint	2.00			3461.00	
Top Packer	5.00			3466.00	
Packer	5.00			3471.00	28.00 Bottom Of Top Packer
Anchor	14.00			3485.00	
Change Over Sub	0.75			3485.75	
Drill Pipe	31.27			3517.02	
Change Over Sub	0.75			3517.77	
Anchor	32.00			3549.77	
Recorder	1.00	8875	Inside	3550.77	
Recorder	1.00	8938	Outside	3551.77	
Bull Plug	3.00			3554.77	83.77 Anchor Tool

Total Tool Length: 111.77



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
Job Ticket: 60376 **DST#: 11**
Test Start: 2014.09.15 @ 00:00:00

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MUD	0.701

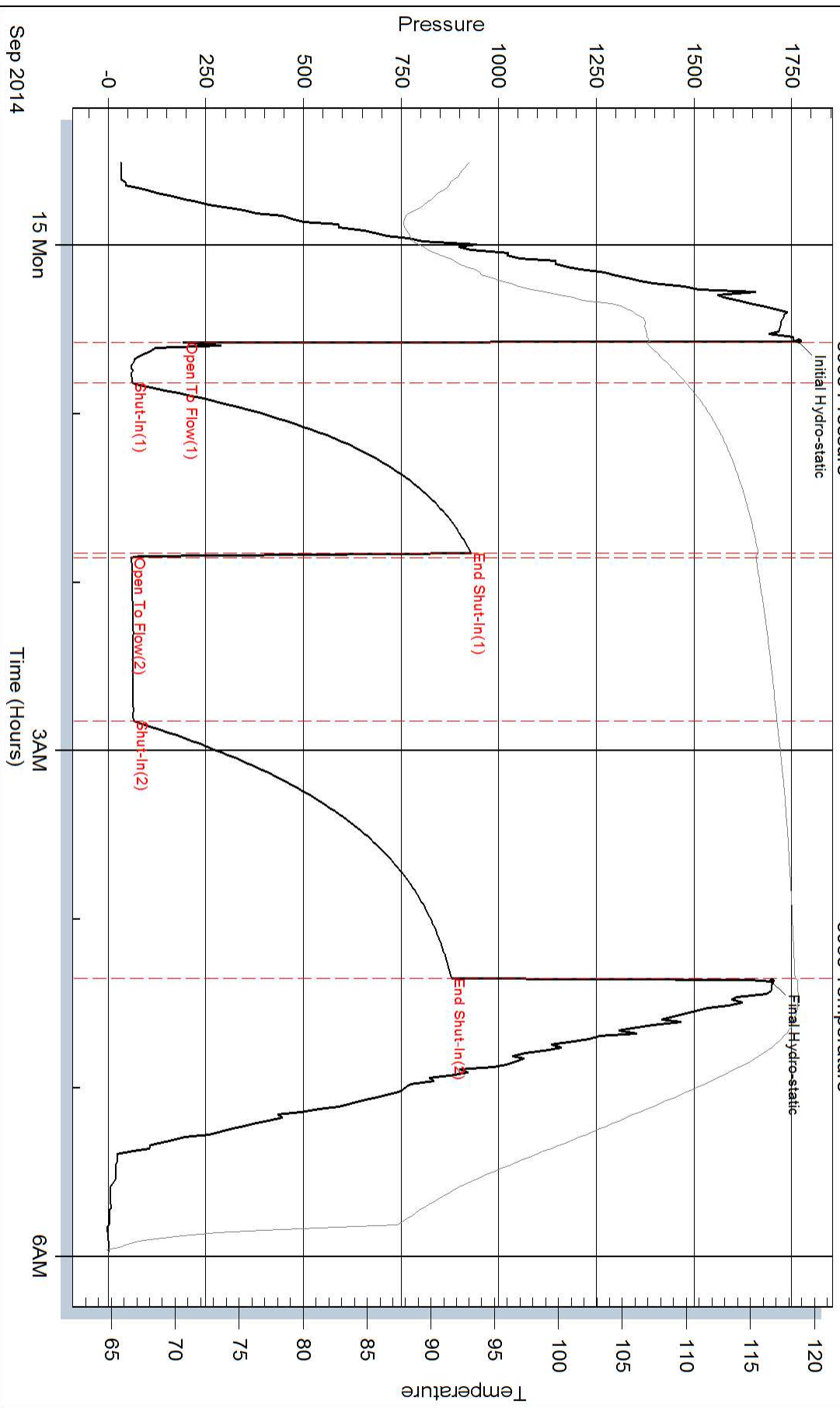
Total Length: 50.00 ft Total Volume: 0.701 bbl

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

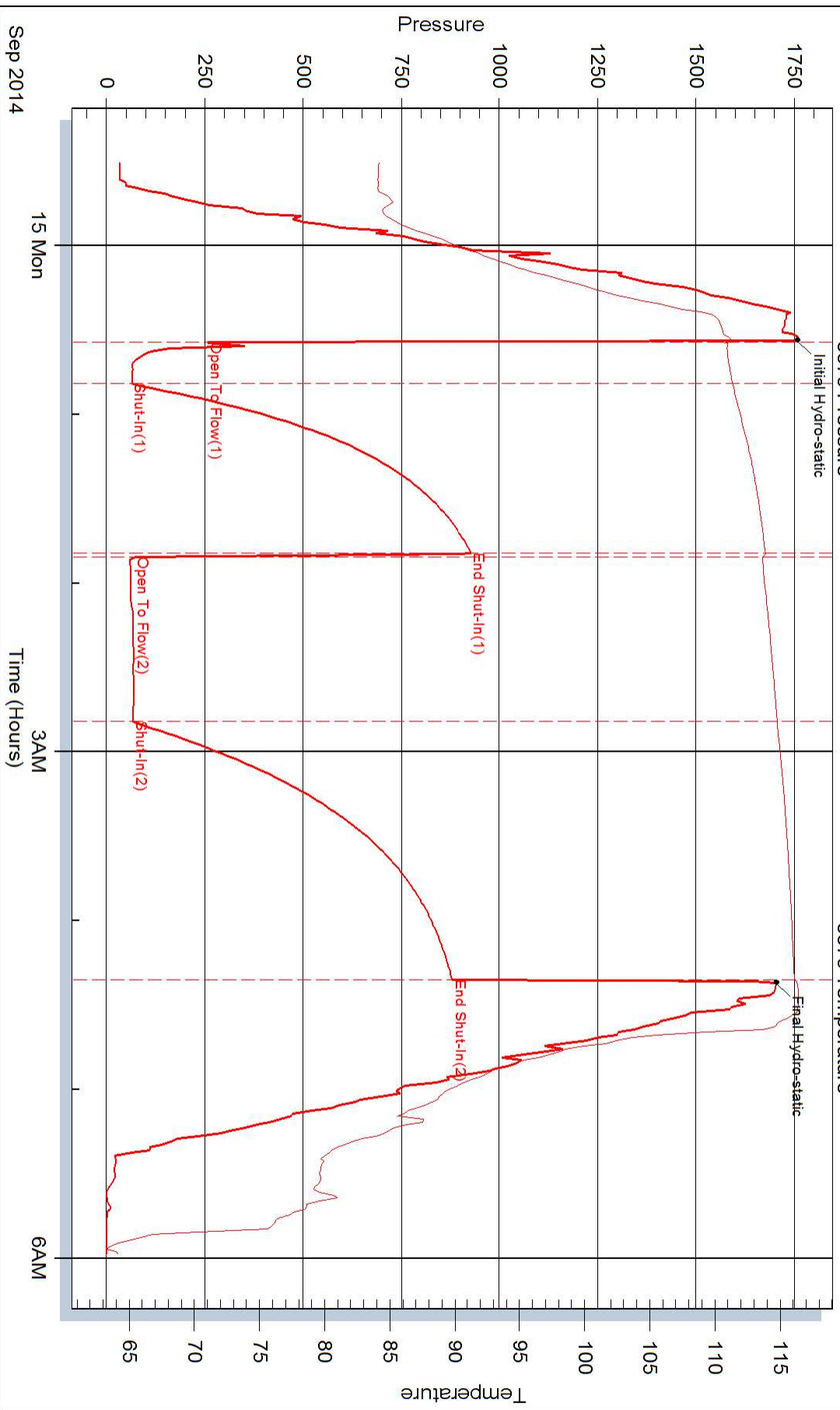
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.15 @ 00:00:00

End Date:

Job Ticket #: 60378

DST #: 12

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.15 @ 20:09:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

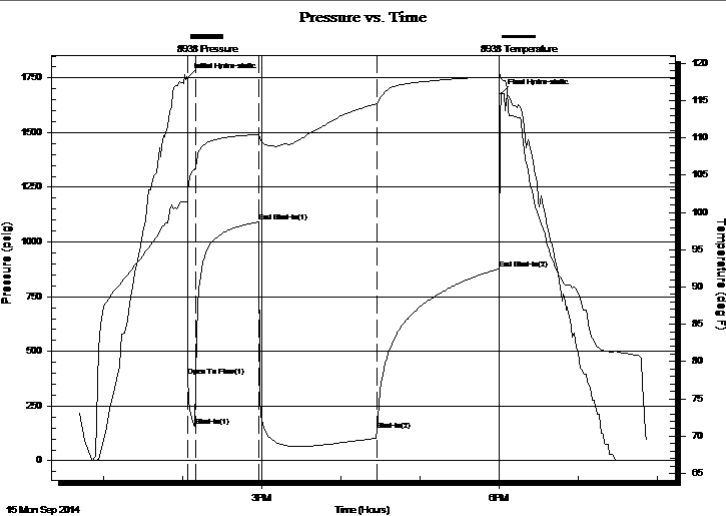
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60378 **DST#: 12**
 Test Start: 2014.09.15 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4
 Interval: **3554.00 ft (KB) To 3562.00 ft (KB) (TVD)**
 Total Depth: 3562.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 Inside
 Press@RunDepth: 876.95 psig @ 3558.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 12:41:00 End Time: 19:52:00 Time On Btm: 2014.09.15 @ 14:03:30
 Time Off Btm: 2014.09.15 @ 18:01:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow gas to surface in 3 minutes See gas flow report
 1st nShut-In 45 Minutes-Fair blow back
 2nd Opening 90 Minutes-Strong blow
 2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.59	101.47	Initial Hydro-static
1	388.85	103.09	Open To Flow (1)
6	158.32	105.76	Shut-In(1)
54	1091.46	110.50	End Shut-In(1)
144	140.75	114.63	Shut-In(2)
237	876.95	118.12	End Shut-In(2)
238	1676.28	117.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	Clean Gassy Oil 15% Gas 85% Oil	3.86
0.00	Gravity 34 Corrected	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.75	521.79
Last Gas Rate	0.50	0.90	103.21
Max. Gas Rate	0.50	21.35	241.19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

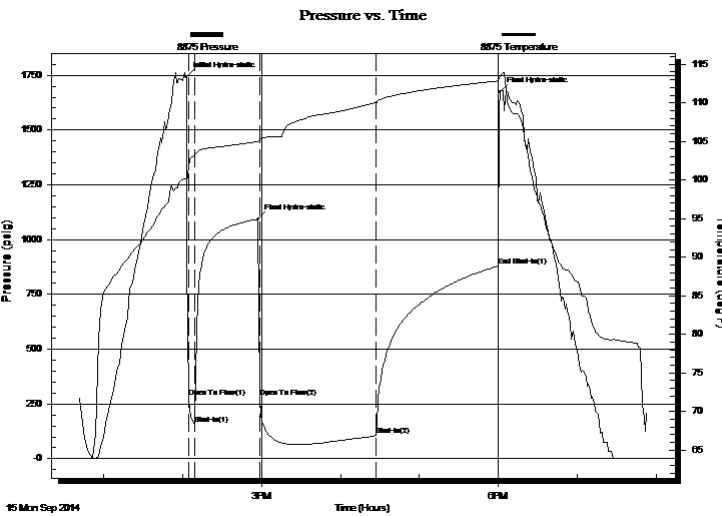
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60378 **DST#: 12**
 Test Start: 2014.09.15 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened:
 Tester: Gene Budig
 Time Test Ended:
 Unit No: S4
 Interval: **3554.00 ft (KB) To 3562.00 ft (KB) (TVD)**
 Reference Elevations: 1915.00 ft (KB)
 Total Depth: 3562.00 ft (KB) (TVD)
 1907.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
 Press@RunDepth: 878.81 psig @ 3559.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.15 End Date: 2014.09.15 Last Calib.: 2014.09.15
 Start Time: 12:41:00 End Time: 19:52:30 Time On Btm: 2014.09.15 @ 14:03:00
 Time Off Btm: 2014.09.15 @ 14:57:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow gas to surface in 3 minutes See gas flow report
 1st nShut-In 45 Minutes-Fair blow back
 2nd Opening 90 Minutes-Strong blow
 2nd Shut-In 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.25	100.15	Initial Hydro-static
2	281.58	101.77	Open To Flow (1)
7	155.68	103.20	Shut-In(1)
55	1093.24	105.00	Final Hydro-static
56	280.48	105.08	Open To Flow (2)
144	105.12	110.02	Shut-In(2)
237	878.81	112.83	End Shut-In(1)
238	1675.31	113.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	Clean Gassy Oilo 15%Gas 85%Oil	3.86
0.00	Gravity 34 Corrected	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.75	521.79
Last Gas Rate	0.50	0.90	103.21
Max. Gas Rate	0.50	21.35	241.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60378

DST#: 12

ATTN: Rene Husted

Test Start: 2014.09.15 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3559.00 ft	Diameter: 3.80 inches	Volume: 49.92 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3554.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3536.00	
Hydraulic Tool	5.00			3541.00	
Jars	6.00			3547.00	
Safety Joint	2.00			3549.00	
Packer	5.00			3554.00	23.00 Bottom Of Top Packer
Anchor	3.00			3557.00	
Recorder	1.00	8938	Inside	3558.00	
Recorder	1.00	8875	Outside	3559.00	
Bull Plug	3.00			3562.00	8.00 Anchor Tool
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60378

DST#: 12

ATTN: Rene Husted

Test Start: 2014.09.15 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
275.00	Clean Gassy Oilo 15%Gas 85%Oil	3.858
0.00	Gravity 34 Corrected	0.000

Total Length: 275.00 ft Total Volume: 3.858 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

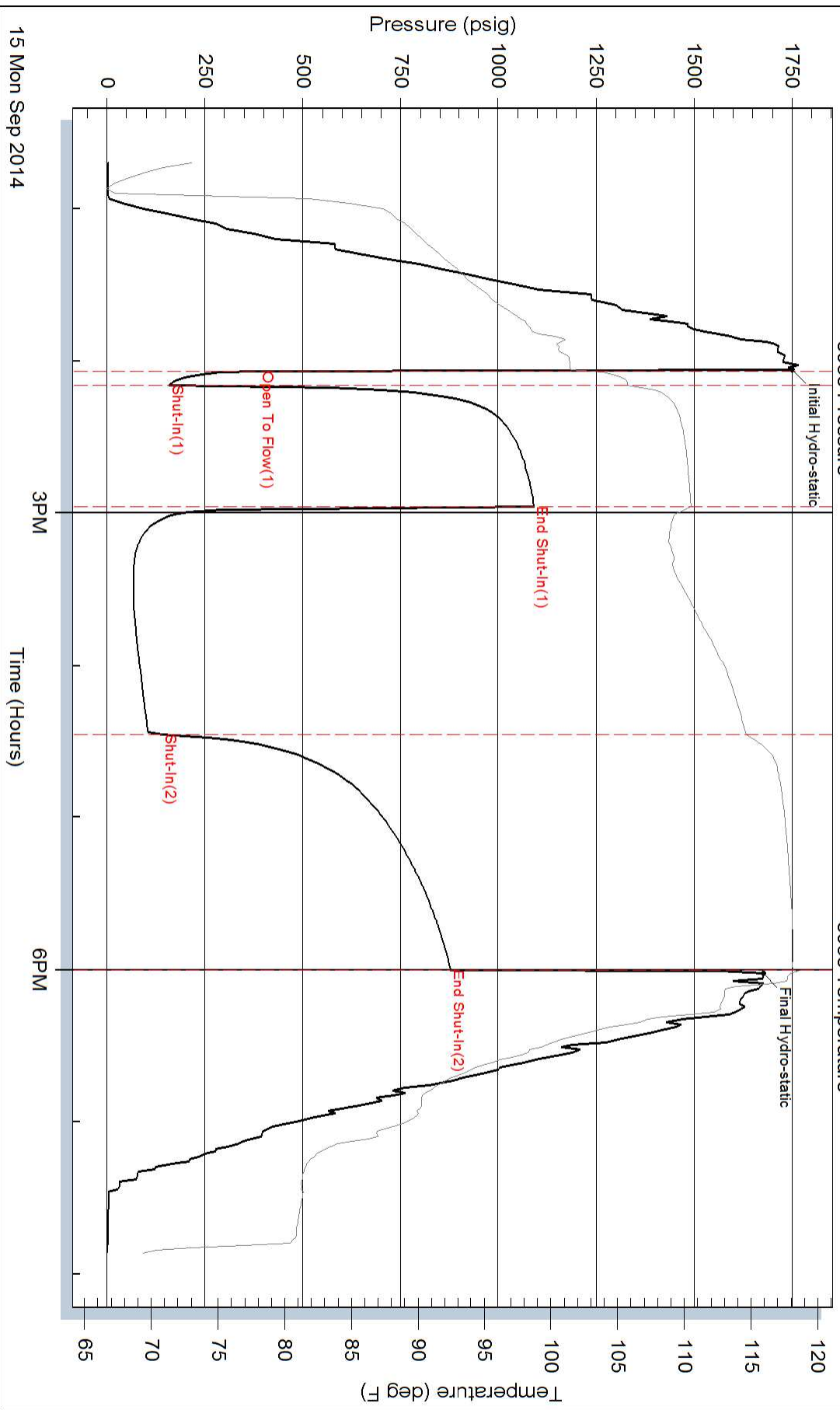
Serial #:

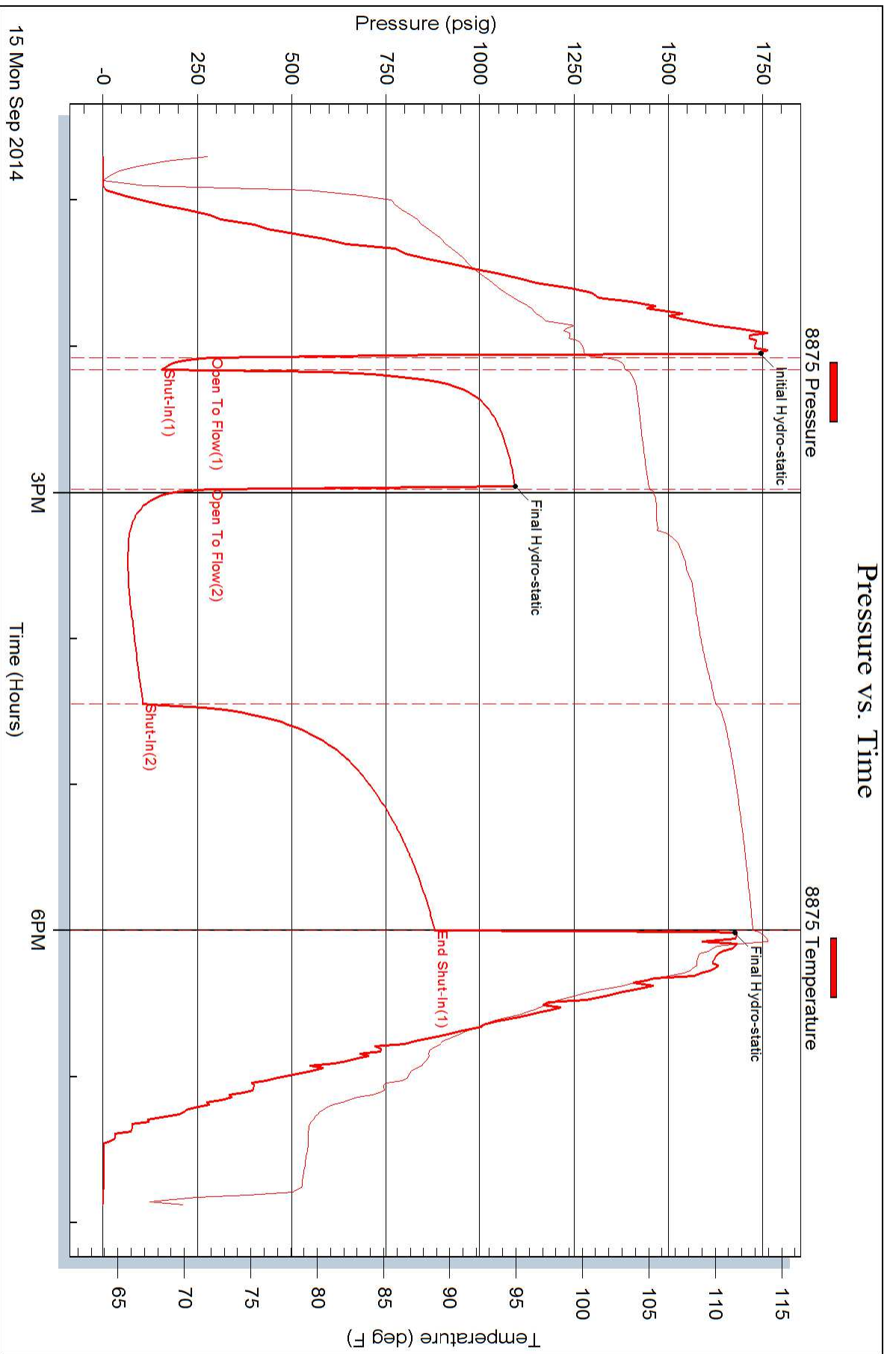
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.16 @ 00:00:00

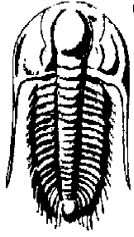
End Date:

Job Ticket #: 60379

DST #: 13

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 10:18:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

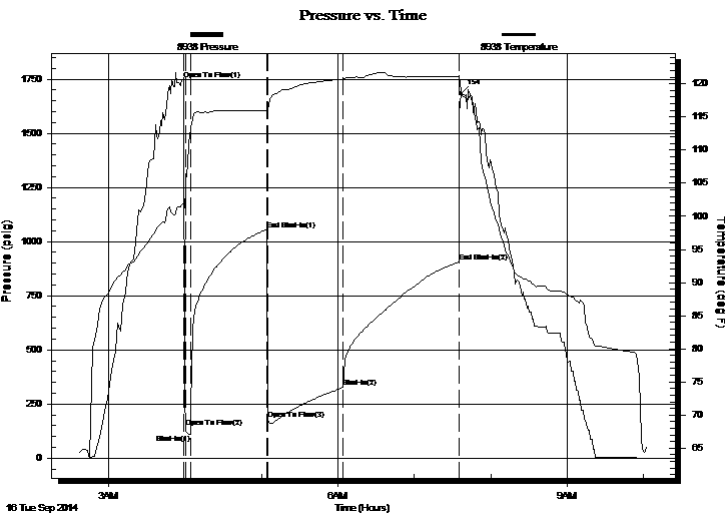
19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60379 **DST#: 13**
 Test Start: 2014.09.16 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
Interval: 3562.00 ft (KB) To 3570.00 ft (KB) (TVD)
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: S4
 Reference Elevations: 1915.00 ft (KB)
 1907.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8938 **Inside**
 Press@RunDepth: 906.34 psig @ 3566.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.16 End Date: 2014.09.16 Last Calib.: 2014.09.16
 Start Time: 02:36:00 End Time: 10:03:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1st Opening 5 Minutes-Strong blow gas to surface in 5 minutes-See gas flow report
 1st Shut-In 60 Minute-Fair blow back
 2nd Opening 60 Minutes-Strong blow
 2nd Shut-In- 90 Minutes-Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.54	101.99	Open To Flow (1)
1	142.92	104.20	Open To Flow (2)
5	111.97	112.95	Shut-In(1)
65	1054.91	115.94	End Shut-In(1)
66	179.99	116.08	Open To Flow (3)
125	327.26	120.71	Shut-In(2)
216	906.34	121.17	End Shut-In(2)
218	1682.82	118.96	154

Recovery

Length (ft)	Description	Volume (bbl)
1475.00	Clean Gassy Oil 15% Gas 85% Oil	20.69
0.00	Gravity 32 corrected	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	41.00	87.89
Last Gas Rate	0.25		
Max. Gas Rate	0.25	41.00	87.89



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC
 9431 East Central Suite 100
 Wichita, Kansas 67206-2563
 ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
 Job Ticket: 60379 **DST#: 13**
 Test Start: 2014.09.16 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3562.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3544.00	
Hydraulic Tool	5.00			3549.00	
Jars	6.00			3555.00	
Safety Joint	2.00			3557.00	
Packer	5.00			3562.00	23.00 Bottom Of Top Packer
Anchor	3.00			3565.00	
Recorder	1.00	8938	Inside	3566.00	
Recorder	1.00	8875	Outside	3567.00	
Bull Plug	3.00			3570.00	8.00 Anchor Tool
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60379

DST#: 13

ATTN: Rene Husted

Test Start: 2014.09.16 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1475.00	Clean Gassy Oil 15% Gas 85% Oil	20.690
0.00	Gravity 32 corrected	0.000

Total Length: 1475.00 ft Total Volume: 20.690 bbl

Num Fluid Samples: 0

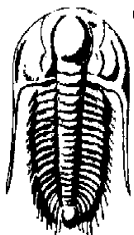
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60379

DST#: 13

ATTN: Rene Husted

Test Start: 2014.09.16 @ 00:00:00

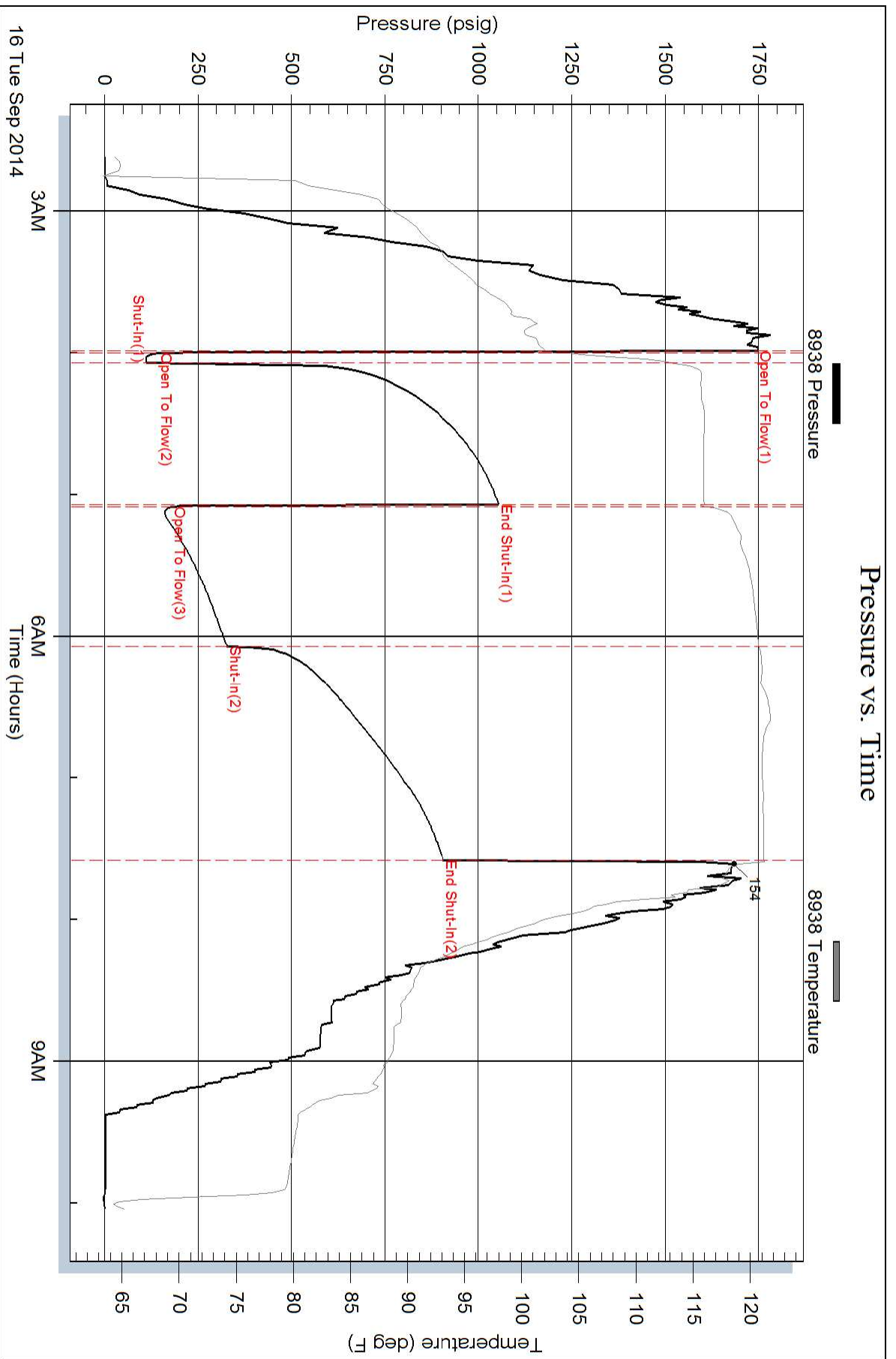
Gas Rates Information

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

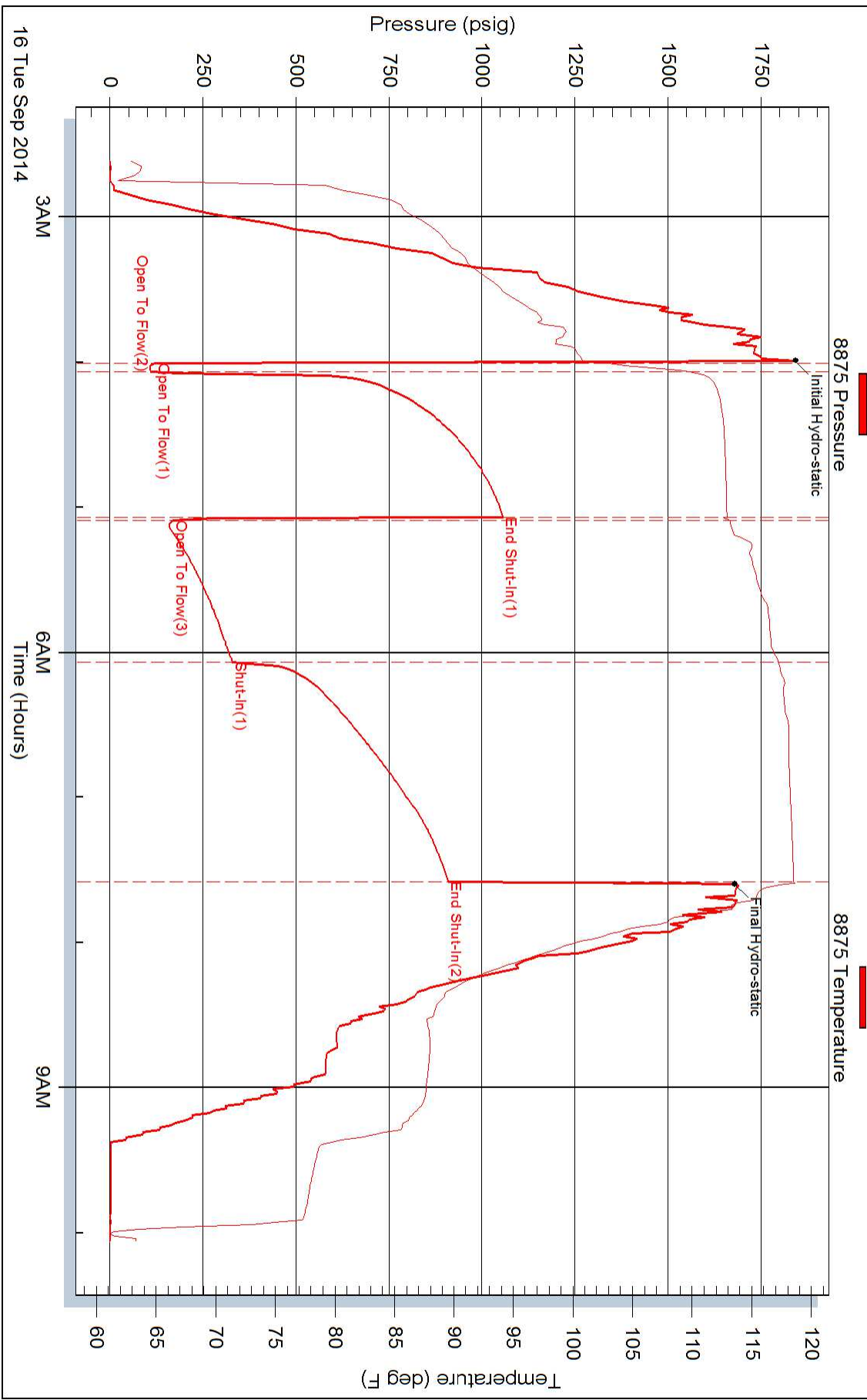
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	0.25	41.00	87.89
2	10	0.25	19.20	53.30
2	20	0.25	12.00	41.88
2	30	0.25	5.70	31.89
2	40	0.25	0.50	23.64
2	-	0.25	-999999.00	-999999.00

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita, Kansas 67206-2563

ATTN: Rene Husted

Kufeld #1-19

19-19s18w Barton

Start Date: 2014.09.16 @ 00:00:00

End Date:

Job Ticket #: 60380

DST #: 14

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.17 @ 02:43:21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

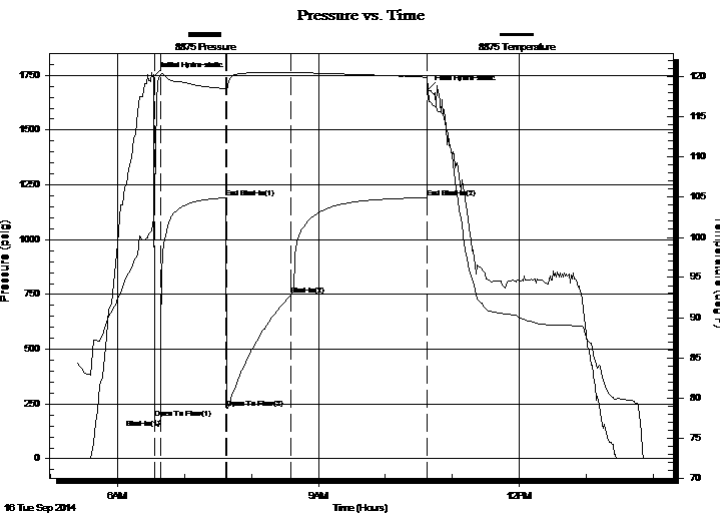
19-19s18w Barton
Kufeld #1-19
Job Ticket: 60380 **DST#: 14**
Test Start: 2014.09.16 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:
Interval: 3571.00 ft (KB) To 3580.00 ft (KB) (TVD)
Total Depth: 3580.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: S4
Reference Elevations: 1915.00 ft (KB)
1907.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875 Outside
Press@RunDepth: 1191.78 psig @ 3577.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.16 End Date: 2014.09.16 Last Calib.: 2014.09.17
Start Time: 05:23:00 End Time: 13:52:30 Time On Btm: 2014.09.16 @ 06:32:30
Time Off Btm: 2014.09.16 @ 10:38:30

TEST COMMENT: 1st Opening 5 Minutes Good blow built to the bottom of the bucket in 30 seconds
1st Shut-In 60 Minutes -Fair blow back
2nd Opening 60 Minutes -Good blow -Gas to surface in 15 minutes -See gas flow report
2nd Shut-In 120 Minutes -Fair blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.60	102.12	Initial Hydro-static
1	185.50	104.77	Open To Flow (1)
6	178.88	120.12	Shut-In(1)
64	1191.02	118.53	End Shut-In(1)
65	229.55	118.29	Open To Flow (2)
123	749.28	120.48	Shut-In(2)
245	1191.78	119.96	End Shut-In(2)
246	1686.02	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	Clean Gassy Oil Gravity 34 Corrected	4.91
0.00	15%gas 85%w ater	0.00
300.00	Gassy Oil cut muddy w ater	4.21
0.00	5 Gas 20%Oil 65%Water 10%Mud	0.00
300.00	Gassy Oil cut muddy w ater	4.21
0.00	5%Gas 15%Oil 75%Water 5%Mud	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.57	5.60
Last Gas Rate	0.13	0.57	5.60
Max. Gas Rate	0.13	0.57	5.60



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60380

DST#: 14

ATTN: Rene Hustedad

Test Start: 2014.09.16 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3571.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3548.00	
Hydraulic Tool	5.00			3553.00	
Jars	6.00			3559.00	
Safety Joint	2.00			3561.00	
Top Packer	5.00			3566.00	
Packer	5.00			3571.00	28.00 Bottom Of Top Packer
Anchor	4.00			3575.00	
Recorder	1.00	8938	Inside	3576.00	
Recorder	1.00	8875	Outside	3577.00	
Bull Plug	3.00			3580.00	9.00 Anchor Tool
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC
9431 East Central Suite 100
Wichita, Kansas 67206-2563
ATTN: Rene Husted

19-19s18w Barton
Kufeld #1-19
Job Ticket: 60380 **DST#: 14**
Test Start: 2014.09.16 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 26000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.80 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5900.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	Clean Gassy Oil Gravity 34 Corrected	4.910
0.00	15%gas 85%w ater	0.000
300.00	Gassy Oil cut muddy w ater	4.208
0.00	5 Gas 20%Oil 65%Water 10%Mud	0.000
300.00	Gassy Oil cut muddy w ater	4.208
0.00	5%Gas 15%Oil 75%Water 5%Mud	0.000
900.00	Gassy w ater Chlorides 26000	12.625
0.00	5Gas 95%w ater	0.000

Total Length: 1850.00 ft Total Volume: 25.951 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Company LLC

19-19s18w Barton

9431 East Central Suite 100
Wichita, Kansas 67206-2563

Kufeld #1-19

Job Ticket: 60380

DST#: 14

ATTN: Rene Husted

Test Start: 2014.09.16 @ 00:00:00

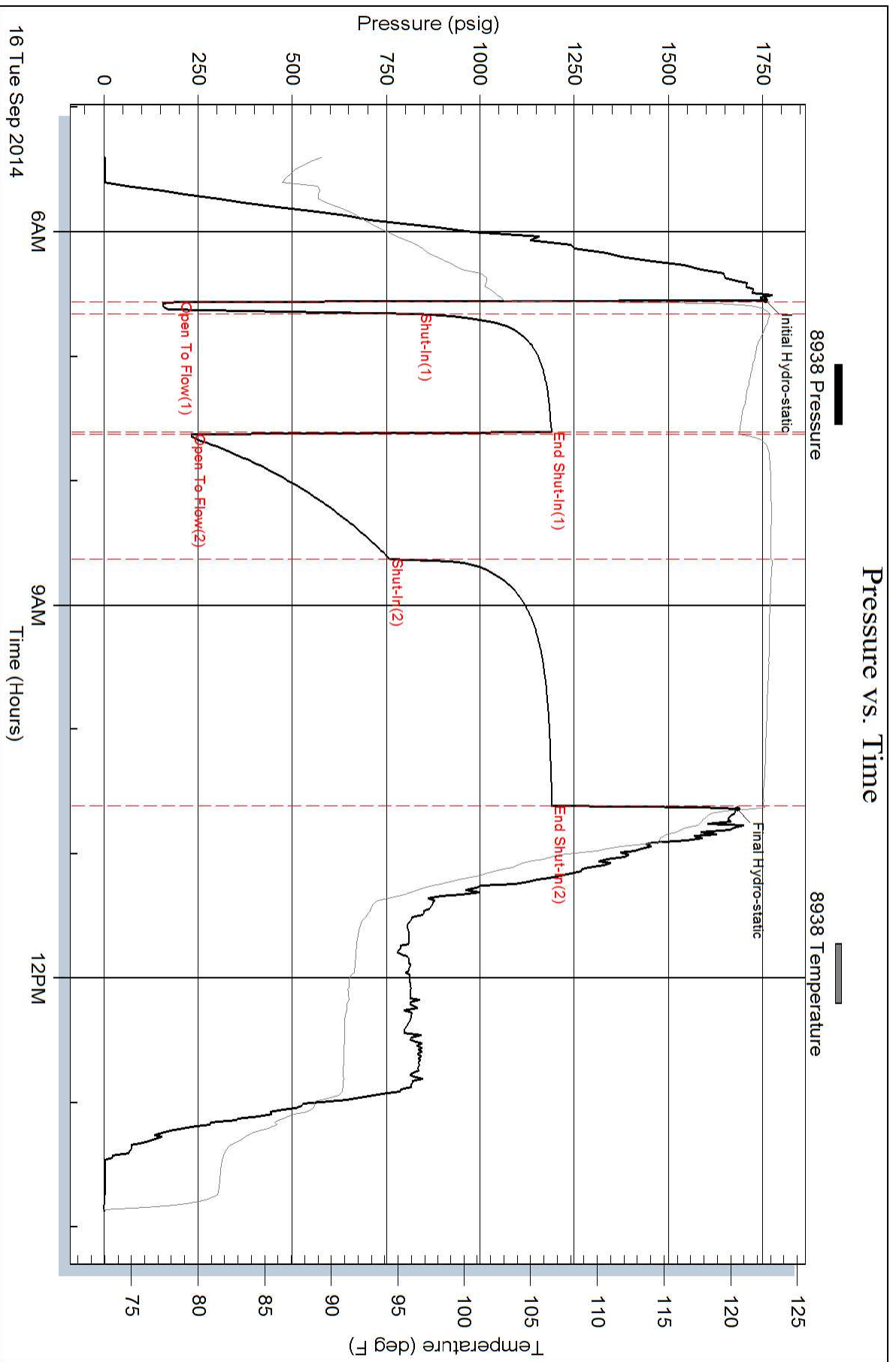
Gas Rates Information

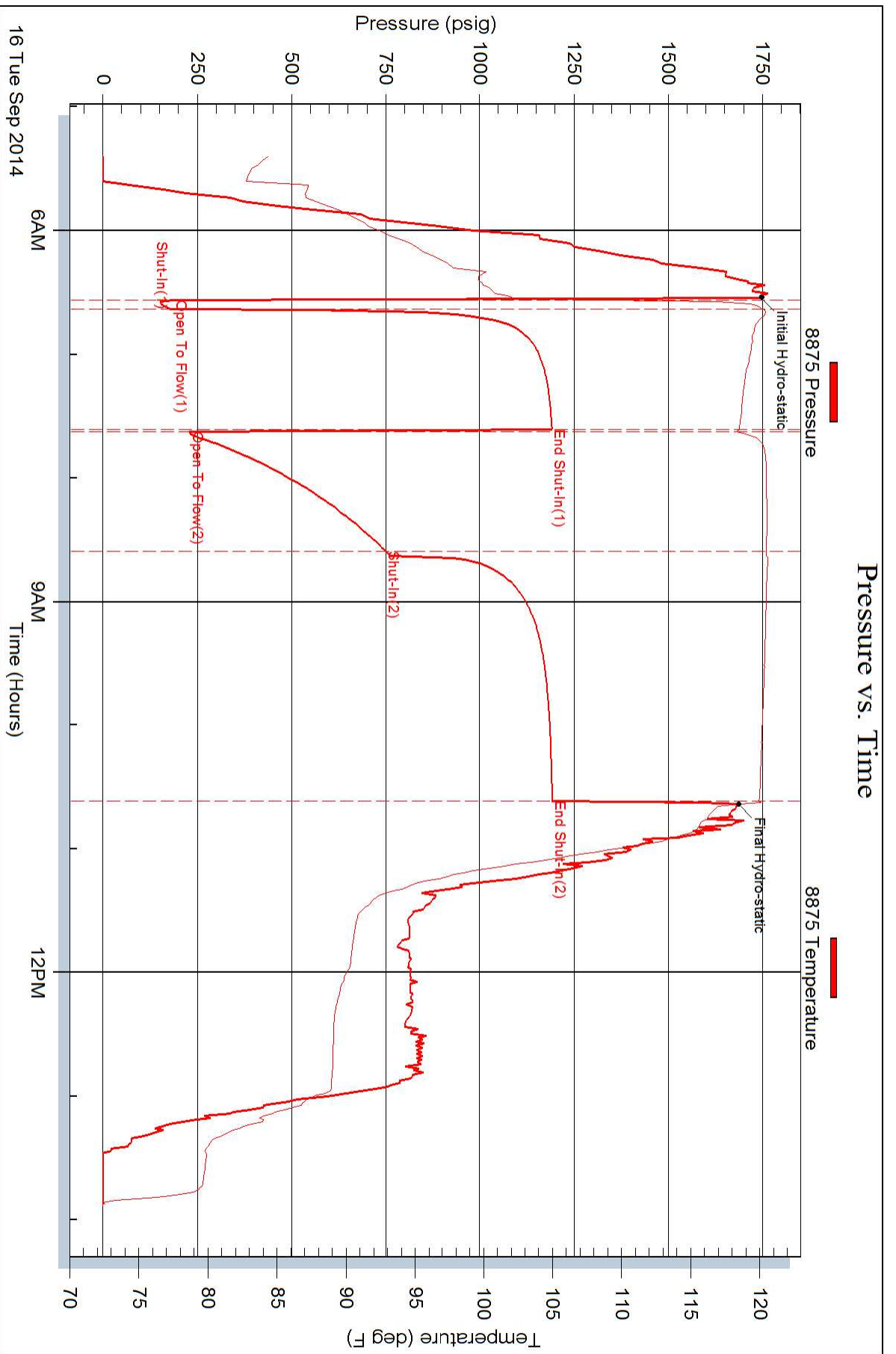
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.13	0.57	5.60
2	30	0.13	0.57	5.60
2	40	0.13	0.57	5.60
2	50	0.13	0.57	5.60
2	60	0.13	0.57	5.60

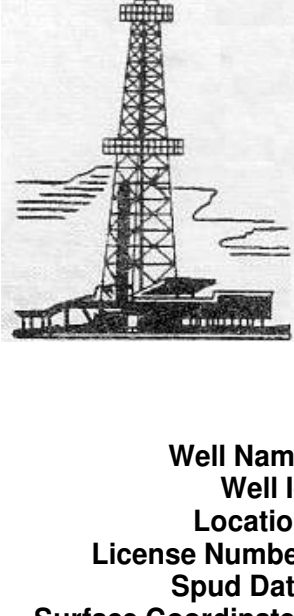
Pressure vs. Time





WELLSITE GEOLOGIST'S REPORT

RENE HUSTEAD
CONSULTANT GEOLOGIST



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: KUFELD NO1-19
Well Id:

Location: SEC-19-T19S-R14W
License Number: 15-009-26-023-0000
Spud Date: SEPT 4-2014
Surface Coordinates: C N/2 SW SW

Region: Barton Co
Drilling Completed: SEPT 19 2014

Bottom Hole Coordinates: VERTICAL
Ground Elevation (ft): 1907' K.B. Elevation (ft): 1915'
Logged Interval (ft): 1700' To: 3770' Total Depth (ft): 3770'
Formation: LANSING/KC AND ARBUCKLE
Type of Drilling Fluid: STARCH/CHEMICAL

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: F.G. Holl Company LLC
Address: 9431 E. Central, Suite 100
Wichita, Kansas 67206

DRILLING CONTRACTOR:

DUKE RIG #2
Double derrick; drill pipe 4.5' X H (16.6#); collars 6.25 x2.25 x482'; Bit; 7 7/8, J2HA20QL #1410643, 3-15's;
Reference datum 8 ft above ground level. Poor Boy's (Martin- Decker) mechanical geologist. Dion Vasquez
-Toolpusher

SURFACE CASING:

Surface casing -8 5/8 inches set at 850' with 400 sacks of cement
Production casing -5 1/2 inches set at 3766' with 150 sacks of cement

CIRCULATION SYSTEM:

Pump Make: EWCO, Pump model: 14W400, liner size 6, stroke 14. Starch mud @ 1700' to 2552', Chemical mud @ 2552' to TD
Mud/Co/Service Mud, Inc.-Jason Whiting-Great Bend, Ks-620-282-0556

GAS DETECTION SYSTEM:

MBC Well Logging and Leasing -Analog Gas Detection.

OPEN HOLE LOGS:

DN (PE)-HIGH RES FROM B/KC TO TD-DOLO MATRIX AND FRACFINDER OVER ARBUCKLE, DI (SP)-GAMMA RAY FROM SURFACE TO TD, ML-Sonic, Fracfinder, ; Pioneer Energy Services, Hays, KS, ; Log total depth (3768') was 2 ft short to rotary total depth (3770').

COMPLETION:

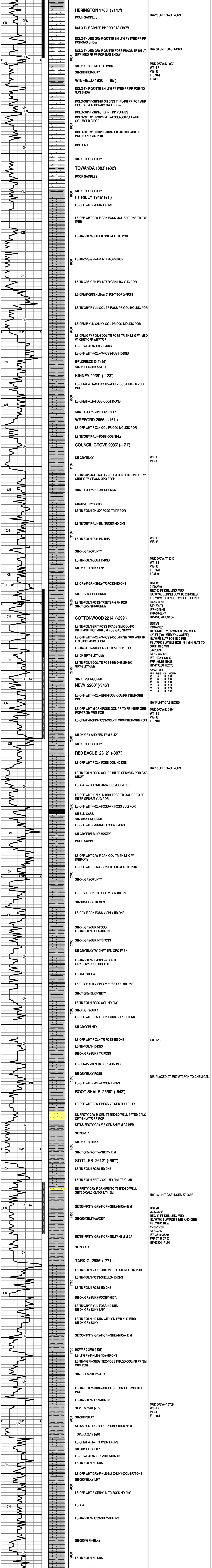
PRODUCTION CASING SET ON ARBUCKLE

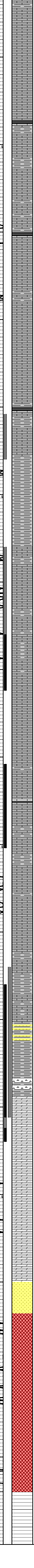
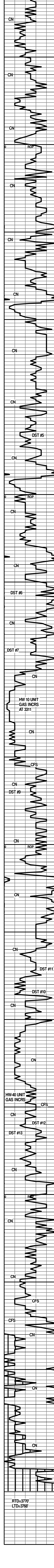
WELLSITE GEOLOGIST:

RENE HUSTEAD
600 N. WINWOOD ST.
GARDNER, KANSAS 66030
PHONE (913) 208-3390

Geologist Contact Info:

Name: Rene Husted
Company: Consultant
Address: 600 N. Winwood St.
Gardner, Kansas 66030
Phone- (913) 908-3390





LS-TNF-XLN-FOSS-OOL-FR INTER-GRN POR-DULL WHT MIN FLOR-NO VIS SHOW WITH CHRT-GRY-OPQ-FRSH	
LS-TNF-GRN-FOSS-OOL-TR SH LT GRY IMBD-BRIT-FR INTER-GRN-FOSS-VUG POR-DULL WHT MIN FLOR-NO VIS SHOW	
LS-TNF-XLN-FOSS-TR OOL-SHLY-HD-DNS	
LS-GRY-TNF-XLN-HD-DNS W/ CHRT-GRY-OPQ-FRSH	
LS-CRIM-F-GRN-CHLKY-BRIT-FOSS-DNS	
LS-TNF-XLN-FOSS-HD-DNS WITH CHRT-GRY-OPQ-FRSH TR PYR XLS IN TRAY SH-BLK-CARB	
SH-GRY-BLK-LMY -V-FOSS WITH LS-OFF WHT-F-GRN-CHLKY-SM PYR XLS IMBD	
LS-TNF-XLN-BRIT-DNS WITH TR CHLK	
LS-TNF-XLN-HD-DNS	
SH-GRY-BLK-LMY	
LS-TN-GRY-F-XLN-FOSS-OOL-HD-DNS	
LS-TN-GRY-V-F-XLN-FOSS-OOL-HD-DNS	
SH-BLK-CARB	HW 25 UNIT GAS INCRS
LS-TNF-M-GRN-SLI CHLKY-FOSS-OOL-PR TO FR INTER-GRN POR-SCATT WHT FLOR-NO VIS CUT	
LS-TNF-GRN-FOSS-TR INTER-GRN POR-NO VIS FLOR-NO VIS SHOW	
LS-TNF-XLN-OOL-TR OOL-MOLDIC POR-DULL WHT FLOR-NO VIS CUT	
LS-TNF-XLN-BRIT-OOL-FR TO GD OOL-MOLDIC POR-DULL WHT MIN FLOR-NO VIS SHOW	
LS-TNF-XLN-TR DK BLK SH IMBD-HD-DNS	
LS-TNF-XLN-CHLKY IP-TR FOSS-TR FRAC-TR DK BLK STN-NO VIS FLOR-NO VIS CUT	
LS A.A.	
HEEBNER 3146' (-1231')	
SH-BLK-CARB	HW-35 UNIT GAS INCRS
TORONTO 3162' (-1247')	
LS-OFF WHT-F-XLN-OOL-IP-PR OOL-MOLDIC POR-LT BRN STN-DULL WHT FLOR-FR STRM CUT-V-FNT ODOR	DST #5 REC-30 FT 15% OIL AND 94% MUD IBLWSURF BLW THRU OUT FBLWSURF BLW THRU OUT 15/30/15/30 IFP-129.6-1070.17 IFP-14.16-46.23 FFP-48.53 HP-1541.91-1518.46
LS-OFF WHT-F-XLN-FOSS-OOL-HD-DNS WITH SM PYR XLS IMBD	MUD DATA @ 3180' WT. 9.2 VIS 47 FIL 11.2
LS-TNF-XLN-FOSS-OOL-HD-DNS TR PR OOL-MOLDIC POR-DULL WHT FLOR-NO VIS SHOW	
SHALES-GRY-GRN-RED-SPLNTY IP-BLKY IP SLTSS-FRSTY GRY-F-GRN-SHLY-HEM AND MICA	
SH-GRY-BLK-LMY	
SH-GRY-FRM-LMY-FOSS	
SLTSS-FRSTY GRY-F-GRN-SHLY-MICA-HEM	
BROWN LS-3228' (-1313')	
LS-LT BRN-F-XLN-HD-DNS	HW-23 UNIT GAS INCRS AT 225Z
LANSING/KC 3239' (-1324')	DST #6 3232-3239' REC-30 FT HEAVY MUD IBLWGD BLW BLT BOB IN 1 MIN FBLWGD BLW BLW FOR 22 MIN DIED FLUSHED TOOL-WK BLW 4 MIN AND DIED 30/60/30/60 SIP-1487.13-1415.46 IFP-46-50.95 FFP-67.10-152.34 HP-1627-1553.16
LS-OFF WHT-F-XLN-FOSS-TR PR PP POR-DK BLK STN-DULL WHT FLOR-NO VIS CUT	
LS-OFF WHT-F-XLN-OOL-IP-TR OOL-MOLDIC IP AND TR PR PP POR IP-TR LT BRN STN-TR SCATT FLOR-PR STRM CUT-V-FNT ODOR	DST #7 3200'-3211' REC-240' HEAVY MUD IBLWGD BLW BOB IN 1 MIN AND DECREASED TO A VERY WK SURF BLW FBLWGD BLW BOB IN 1 MIN AND DIED (MIS-RUN TOOL PLUGGED)
LS-TN-GRY-F-XLN-FOSS-OOL-SHLY-TR DK BRN STN-V-DULL FLOR-NO IMMED VIS CUT-NO ODOR	
LS-CRIM-F-XLN-OOL-HD-DNS W/ CHRT-GRY-OPQ-FRSH	DST #8 3200'-3211' REC-30 FT MUDDY WATER IBLWGD BLW BOB IN 1 MIN FBLWGD BLW BOB IN 1 MIN 30/60/45/90 SIP-1413.97-1261.27 IFP-52/700 FFP-714-967 HP-1681.57-1559.26
LS-LT BRN-F-XLN-OOL-FR INTER-PRT/OOL-MOLDIC POR-LT BRN STN-NO VIS FLOR-V-GD FLSH CUT-GD ODOR	
LS-TNF-XLN-OOL-FR TO GD OOL-MOLDIC POR-NO VIS STN-NO VIS CUT-GD ODOR	MUD DATA @ 3315' WT. 9.3 VIS 54 FIL 9.6
LS A.A.	
LS-TNF-XLN-OOL-GD OOL-MOLDIC POR-DULL YEL FLOR-NO VIS STN-NO VIS CUT-GD ODOR	
LS-CRIM-F-XLN-OOL-PR TO FR OOL-MOLDIC POR-BRITE WHT/YEL FLOR-NO VIS CUT-NO ODOR	
LS-TN-V-F-XLN-HD-DNS	
LS-TNF-XLN-TR CHLK-HD-DNS	HW-12 UNIT GAS INCRS
LS A.A. WITH TR CHLK	DST #9 3354-3412' REC-70 FT HEAVY MUD IBLWVERY WEAK SURF BLW THRU-OUT FBLWVERY WEAK SURF BLW THRU-OUT 15/30/30/60 SIP-1054.83-1054.18 IFP-30-57.39 FFP-35.04-92.81 HP-1671.51-1600.06
LS-OFF WHT-F-XLN-OOL-TR FOSS-PR TO FR INTER-PRT/PP POR-LT BRN STN-SCATT BRITE WHT FLOR-GD STRM CUT-STRNG ODOR-FREE OIL	
LS-OFF WHT/TNF-XLN-FOSS-FR INTER-PRT POR-LT BRN STN-SCATT YEL FLOR-GD STRM CUT-GD ODOR-FREE OIL	
LS-OFF WHT-F-XLN-TR FOSS-TR OOL-HD-DNS	
LS A.A.	
LS-TNF-XLN-HD-DNS	
LS-OFF WHT-F-XLN-OOL-HD-DNS W/ PYR XLS IN TRAY	MUD DATA @ 3460' WT. 9.4 VIS 45 FIL 8.8
SH-GRY-GRN-BLK-Y-WAXEY	
LS-TNF-XLN-OOL-PR OOL-MOLDIC POR-NO VIS SHOW	
B KANSAS CITY 3475' (-1560')	
SH-GRY-RED-FRM-BLK-Y	DST #10 3480'-3555' REC-1059 DRILLING MUD IBLWGD BLW BOB IN 1 MIN FBLWGD BLW TO SURGING BLW -LOST PACKER SEAT-PACKER FAILURE
LS-CRIM-F-XLN-OOL-TR OOL-MOLDIC POR-TR DK BLK STN-NO VIS FLOR-FR STRM CUT-V-FNT ODOR	
SHALES-GRY-RED-GRN-BLK-Y	
LS-LT BRN-F-XLN-CHLKY IP-SNDY-NO VIS POR-NO VIS FLOR-NO SHOW	DST #11 3471'-3555' REC-50 FT DRILLING MUD IBLWGD BLW BLT BOB IN 1 MIN FBLWGD BLW -GAS TO SURF IN 15 MIN 15/60/50/90 SIP-630.25-578.6 IFP-191.85-61.31 FFP-59.14-65.6 HP-1766.93-1698.88
SH-RED-V-GUMMY-SNDY-PYR XLS IN TRAY	GAS RATE MIN PSIG CK MCF/D 20 5 14 371 30 8 14 476 40 8 14 476 50 8 14 476 60 8 14 476 90 8 14 476 55-60 GAS SAMPLE
SH-RED-GUMMY-CHRT-OFF WHT-OPQ-FRSH	MUD DATA @ 3555' WT 9.3 VIS 50 FIL 10.4
SH-RED-FRM TO SFT-SNDY	DST #12 3554-3627' REC-275 CLEAN GASSEY OIL IBLW-STRING BLW -GAS TO SURF IN 3 MIN FBLW-STRING BLW 5/60/90/90 SIP-1091.46-878.55 IFP-201.58-155.58 FFP-261.48-105.12 HP-1763.25-1675.31
SH-RED-FRM-SNDY W/ CHRT-VARIG-OPQ-FRSH	GAS RATE MIN PSIG CK MCF/D 5 56 112 521 10 40 112 440 20 12 112 241 30 32 112 146 40 22 112 121 50 16 112 103 60 16 112 103 70 16 112 103 80 16 112 103 90 16 112 103
DOLO-CRIM-CRS XLN-SHLY IP-PYR XLS IMBD IP-TR GLAU-PR INTER-GRN POR-TR LT BRN STN-YEL-GLD FLOR-PR STRM CUT-GD ODOR	MUD DATA @ 3570' WT 9.1 VIS 51 FIL 8.8
DOLO-CRIM-CRS XLN-FR INTER-GRN-VUG POR-LT BRN STN-SCATT YEL-GLD FLOR-GD STRM CUT-FREE OIL-STRNG ODOR	DST #13 3554-3627' REC-1475 CLEAN GASSEY OIL (15% GAS AND 89% OIL) IBLW-STRING BLW GAS TO SURF IN 5 MIN FBLW-STRING BLW 5/60/90/90 SIP-1056.50-908.38 IFP-121.58-108.58 FFP-188.73-326.45 HP-1802.26-1675.32
DOLO-CRIM-CRS XLN-FR INTER-GRN-LT BRN STN-V-DULL WHT FLOR-FR STRM CUT-GD ODOR	
DOLO-OFF WHT-CRS-XLN-TR SND IMBD-PR TO FR INTER-GRN-VUG POR-LT BRN STN-DULL WHT FLOR-FR STRM CUT-FNT ODOR	
DOLO-CRIM-F-MXLN-TR SND IMBD-PR INTER-GRN POR-TR LT BRN STN-DULL WHT FLOR-FNT STRM CUT-FNT ODOR	
DOLO-OFF WHT-F-XLN-TR SND-HD-DNS	
DOLO-OFF WHT-F-XLN-V-SNDY-TR LT PINK STN-BRITE WHT FLOR-TR LT FLSH CUT	
DOLO-LT PINK-F-XLN-SNDY-W/ CHRT-TN-OPQ-FRSH	MUD DATA @ 3631' WT 9.4 VIS 44 FIL 11.2
DOLO-CRIM-F-XLN-V-SNDY-TR INTER-GRN POR-DULL WHT FLOR-NO VIS SHOW-TR GLAU IMBD	DST #14 3631'-3637' REC-350 FT CLEAN GASSY OIL (15% GAS, 85% OIL) 300 FT GASSY OIL CUT MUDDY H2O (5% GAS, 20% OIL, 65% H2O, 10% MUD) 300 FT GASSY OIL CUT MUDDY H2O (5% GAS, 15% OIL, 75% H2O, 5% MUD) 900 FT GASSY H2O 5% GAS, 95% H2O 5/60/120 SIP-1188.56-1188.66 IFP-196.81-833.62 FFP-232.33-757.53 HP-1756.77-1691.49
DOLO A.A.	
SS-FRSTY WHT-F-GRN-FRL-SUB-ANG TO SUB RINDED-PR SRTEO-DOLO-CMT-TR WLT BRN STN-WHITE FLOR-LT FLSH CUT-NO ODOR	GAS RATE MIN PSIG CK MCF/D 5 38 34 87887 20 12 112 3330 30 13 112 51881 40 13 112 31887 50 8 112 23837 60 16 112 17200 90 6 112 14700
ROOSE LG AND SMALL SMD GRNS IN TRAY-NO VIS FLOR-NO VIS CUT-NO ODOR	MUD DATA @ 3631' WT 9.4 VIS 44 FIL 11.2
GRANITE-3655' (-1750')	DST #14 3631'-3637' REC-350 FT CLEAN GASSY OIL (15% GAS, 85% OIL) 300 FT GASSY OIL CUT MUDDY H2O (5% GAS, 20% OIL, 65% H2O, 10% MUD) 300 FT GASSY OIL CUT MUDDY H2O (5% GAS, 15% OIL, 75% H2O, 5% MUD) 900 FT GASSY H2O 5% GAS, 95% H2O 5/60/120 SIP-1188.56-1188.66 IFP-196.81-833.62 FFP-232.33-757.53 HP-1756.77-1691.49
GRANITE-PINK/WHITE-WITH BLK SPECS-FELDSPAR, QUARTZ, MICA, HORNEBLENDE	GAS RATE-FLOW PERIOD 2 MIN CK PSIG MCF/D 20 .13 .57 5.6 30 .13 .57 5.6 40 .13 .57 5.6 50 .13 .57 5.6 60 .13 .57 5.6
GRANITE A.A.	MUD DATA @ 3770' WT 9.4 VIS 58 FIL 10.4
GRANITE A.A.	
QUARTZ-TRANS WITH BLK SPECS-TR PINK MINERAL (FELDSPAR) NO VIS FLOR-NO VIS SHOW	
QUARTZ-TRANS WITH BLK SPECS-NO VIS FLOR-NO VIS SHOW	
QUARTZ-TRANS-WITH BLK SPECS-NO VIS FLOR-NO VIS SHOW	
QUARTZ-TRANS WITH BLK SPECS-NO VIS FLOR-NO VIS SHOW	
RTD=3770' LTD=3765'	



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FIELD SERVICE TICKET

1718 11315 A

DATE _____ TICKET NO. _____

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER				LEASE				WELL NO.							
ADDRESS				COUNTY				STATE							
CITY				STATE				SERVICE CREW							
AUTHORIZED BY				JOB TYPE:											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB									
						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).

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
	Acid Blank	SK	200		
	...	SD	200		
	...	LD	100		
	...	LD	500		
	...	SD	1		
	...	SD	3		
	...	MI	65		
	...	MI	130		
	...	TM	1277		
	...	SD	1		
	...	SD	1		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

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

Customer <i>FG Hall Camp</i>	Lease No.	Date <i>9-5-14</i>
Lease <i>Kufeld</i>	Well # <i>1-19</i>	
Field Order # <i>11315A</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>
		Depth
Type Job <i>8 5/8 Surface pipe</i>	Formation <i>cnw</i>	County <i>Benton</i>
		State <i>KS</i>
		Legal Description <i>19 19 14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth <i>850'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>53</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>300</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Rob Wagner</i>	Station Manager <i>Kevin Gourley</i>	Treater <i>Scott Graves</i>
Service Units <i>33910</i>	<i>27465</i>	<i>19831</i>
Driver Names <i>Scott</i>	<i>Kosh</i>	<i>Chuck</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:30</i>					<i>On location Scotty, making Rig up</i>
<i>3:45</i>					<i>Run flood Equipment Centralizers on #1, 20, 18</i>
<i>4:30</i>					<i>Circulate well</i>
<i>4:46</i>	<i>0</i>		<i>5</i>	<i>3.5</i>	<i>Pump spacer</i>
<i>4:47</i>	<i>150</i>		<i>87.99</i>	<i>4.5</i>	<i>Mix 700 Sts A-con 12 ppg</i>
<i>5:05</i>	<i>200</i>		<i>47.74</i>	<i>5</i>	<i>Mix 700 Sts Common 15.6 ppg</i>
<i>5:20</i>					<i>Drop plug</i>
<i>5:21</i>	<i>400</i>			<i>5.5</i>	<i>Start Displacement</i>
<i>5:35</i>	<i>300</i>		<i>52</i>		<i>Displacement Complete</i>
					<i>Shut Down</i>
					<i>Job Complete</i>
					<i>Cement Circulated to Surface</i>



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FIELD SERVICE TICKET

1718 11142 A

DATE _____ TICKET NO. _____

DATE OF JOB: 7-19-14	DISTRICT: P1117	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: FG Hill CO. LLC	LEASE: Ky Field		119		WELL NO.					
ADDRESS:		COUNTY: Bartles	STATE: KS							
CITY:		SERVICE CREW: JOE, JOSH, TOM								
AUTHORIZED BY:		JOB TYPE: CWW - LOW CILONG								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
21465	4						7/19/14			10
21493	4									
						ARRIVED AT JOB	7/19/14			10
						START OPERATION				1010
						FINISH OPERATION				1130
						RELEASED				1130
						MILES FROM STATION TO WELL				6.2

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
115	ADD cement	SD	130		
103	CEMENT PZ	SD	75		
102	CELL OIL	lb	33		
105	C-41 P	lb	31		
111	SALT	lb	586		
115	C-44	lb	123		
129	FLA-322	lb	123		
201	GILSONITE	lb	1300		
607	Latch Down Plug	pc	1		
1251	Anti Fall Stop	pc	1		
1151	Tool	pc	1		
1401	5/8 Wash	pc	3		
2002	Cement Scratchers	pc	50		
154	Super Flush	gal	1000		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE

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

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



10244 NE Hwy. 61
 P.O. Box 8613
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 Phone 620-672-1201

FIELD SERVICE TICKET
 1718 11143 A

DATE _____ TICKET NO. 1718 111421A

DATE OF JOB: 9-19-14	DISTRICT: PRATT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: FG HOLL		LEASE: Kyfold		1-19		WELL NO.				
ADDRESS:		COUNTY: BUTLER		STATE: KS						
CITY:		STATE:		SERVICE CREW:						
AUTHORIZED BY:		JOB TYPE: 5094 Longstring								
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).

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 104	Pickup Mileage	Mi	65		
E 101	Heavy Mileage	Mi	130		
E 113	Bulk Delivery	Tm	611		
CE 204	North Charge	Yds	1		
CE 290	Mix Job Charge	Yds	205		
CE 501	Casing Support	Yds	1		
CE 504	Mud Con Tainer	Yds	1		
S 003	Supervisor	Yrs	1		

CHEMICAL / ACID DATA:			

SUB TOTAL	100
SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

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



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FIELD SERVICE TICKET

1718 ~~11143~~ A
C047.

DATE _____ TICKET NO. 1718 111421A

DATE OF JOB: 9-19-14		DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: FG HOLL				LEASE: Kyfeld				1-19		WELL NO.:					
ADDRESS:				COUNTY: Burt Co				STATE: KS							
CITY:				STATE:				SERVICE CREW:							
AUTHORIZED BY:				JOB TYPE: CWL Longstring											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB		AM	PM						
						START OPERATION		AM	PM						
						FINISH OPERATION		AM	PM						
						RELEASED		AM	PM						
						MILES FROM STATION TO WELL									

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Pickup Mileage	mi	65		
E 101	Heavy Mileage	mi	130		
E 113	Balls Delivery	tm	611		
CE 204	Depth Charge	4hr	1		
CE 240	Mixing Charge	sls	205		
CE 501	Casing Survival	eq	1		
CE 504	Plug Container	JOB	1		
S 003	Supervisor	eq	1		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: 

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

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer F.G HOLL CO. LLC	Lease No.	Date
Lease Kyfeld	Well # 1-19	9-19-14
Field Order # 11142	Station Pratt	Casing 5 1/2
		Depth
Type Job CAW LONG STRING	Formation	County Barton
		State KS
		Legal Description 19-19-14

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

Customer Representative Adam	Station Manager Kevin	Treater JOE
-------------------------------------	------------------------------	--------------------

Service Units	27463	70959	19918	28443
Driver Names	JOSH	TOM	JOE	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0730					ON LOC / safety meeting
					Run JTS of 5 1/2 csg
					Con. on 2 - Thru - 9
					Baskets on 4 - 6 - 13
0700					Start Running csg
					csg on Bottom Circ. with Big
1040					Hookup to Pump TRS TO START JOB
1046			5	4	H2O spacer
			024	4	Mix super flush
			5	4	H2O spacer
			006	5	Mix 25 sk scavenger cement
			33	5	Mix 130 sk AA2 cement @ 15 ft
					shut down clear pump & lines
				6	Start H2O DISP.
			064	6	List PST
			50	4	Slow Rate
1130			84		Plug Down
					Plug RTI + MH
					JOB COMPLETE
					Thank you Joe

