Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33168
Name: Woolsey Operating Company, LLC
Address 1: 125 N MARKET STE 1000
Address 2:
City: WICHITA State: KS Zip: 67202 + 1729
Contact Person: DEAN PATTISSON
Phone: (316) 267-4379
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: BILL KLAVER
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

11/02/2018	11/10/2018	11/12/2018
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-077-22178-00-00
Spot Description:
NW - NW - NE - SE Sec. 10 Twp. 31 S. R. 7 ☐ East ☑ West
2450 Feet from ☐ North / ☑ South Line of Section
1250 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: GERBER Well #: 1
Field Name: DuQUOIN
Producing Formation: N/A
Elevation: Ground: 1575 Kelly Bushing: 1587
Total Vertical Depth: 4850 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 268 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: 36500 ppm Fluid volume: 1800 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Wildcat Oil & Gas LLC
Lease Name: Adelhardt SWD 1-7 License #: 31337
Quarter SW Sec. 7 Twp. 30 S. R. 8 ☐ East ☑ West
County: Kingman Permit #: D30389.0

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** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 02/25/2019

Page Two

Operator Name: Woolsey Operating Company, LLC Lease Name: GERBER Well #: 1

Sec. 10 Twp. 31 S. R. 7 ☐ East ☑ West County: Harper

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

Comp Density/Comp Neutron PE
Dual Induction
Sonic

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Onaga	2287	-700
Douglas	3343	-1756
Mississippian	4350	-2763
Simpson	4756	-3169
LTD	4854	-3267

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	268	60/40 poz	225	3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	-			
	-			

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

Date of first Production/Injection or Resumed Production/ Injection:			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*		

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	GERBER 1
Doc ID	1427678

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	268	60/40 poz	225	3% cc

BASiC energy services, L.P.

TREATMENT REPORT

Customer: Woolsey Operating Company	Lease No.	Date: 11-3-18	
Lease: Gerber	Well #: 1		

Field Order #	Station	Casing	Depth	County	State
17460	Pratt	8 5/8		Harper	KS

Type Job	Formation	Legal Description
Z-42 8 5/8" Surface		10-31S-07W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 225 60/40 POZ	RATE	PRESS	ISIP
Depth 268	Depth	From	To	Pre Pad 350 cc	Max		5 Min.
Volume 17	Volume	From	To	Pad .25 lbs C.F.	Min		10 Min.
Max Press 500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection SFV	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 278	Packer Depth	From	To	Flush 15.5	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Allen Dick	Westerman	Matta

Service Units	83353		27463		19889	19862					
Driver Names	Matta		Hanson		David						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:10					On location / Safety Meeting
1:40					Run 8 5/8 casing
2:24					csng on bottom
2:28					Hook to csng / break circ w. Rig
2:39	250		3	5.5	Pump 3 bbl water
2:41	250		48.5	6	Mix 225 sks 60/40 POZ
2:55	200		—	4	Start displacement
3:02	200		15.5		Plug down, shut in well
					CMT to surface
					Job complete
					Thank You!
					Mike Mutti
					Josh + David

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

BASiC energy services, L.P.

TREATMENT REPORT

Customer: Wolsey Operating	Lease No.	Date: 11-12-18	
Lease: Gerber	Well #: 1		
Field Order #: 17468	Station: Pratt	Casing: —	Depth: —
County: Harper	State: KS		
Type Job: 2-42 Plug to Abandon	Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid: 180 sks	60/40 Poz	RATE / PRESS	ISIP
Depth	Depth	From	To	Pre Pad: 490 gal	Max		5 Min.
Volume	Volume	From	To	Pad: .25 PPS CF	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: Alan Dick | Station Manager: Westerman | Treater: Mattai

Service Units	83353		27463		19959	21014				
Driver Names	Mattai		Hanson		Diaz					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:00					On location safety meeting
					1st Plug @ 1200'
8:25		200	20	5	Pump 20 bbl water
8:32		200	8.9	5	Mix 35 sks 60/40 Poz
8:39		100	3	5	Pump 3 bbl water
8:40		100	6	5	Pump 6 bbl mud
			—		2nd Plug @ 800
9:01		175	20	5	Pump 20 bbl water
9:07		200	8.9	5	Mix 35 sks 60/40 Poz
9:10		100	4	5	Pump 4 bbl disp.
			—		3rd Plug @ 320'
9:35		125	10	5	Pump 10 bbl water
9:37		125	8.9	5	Mix 35 sks 60/40 Poz
9:40		100	1	3	Pump 1 bbl disp
			—		4th Plug @ 60'
9:55		100	6.4	4	Mix 25 sks 60/40 Poz
					cmt to surface
10:15			7+5		Plug RAT + mouse hole
					Job complete
					Thank You! Mike Mattai
					Josh + Jose

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Taylor Printing, Inc. 620-672-3656

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Woolsey Operating Company
125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64902 **DST#: 1**

Test Start: 2018.11.08 @ 07:40:53

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:15:08
Time Test Ended: 16:34:23

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68

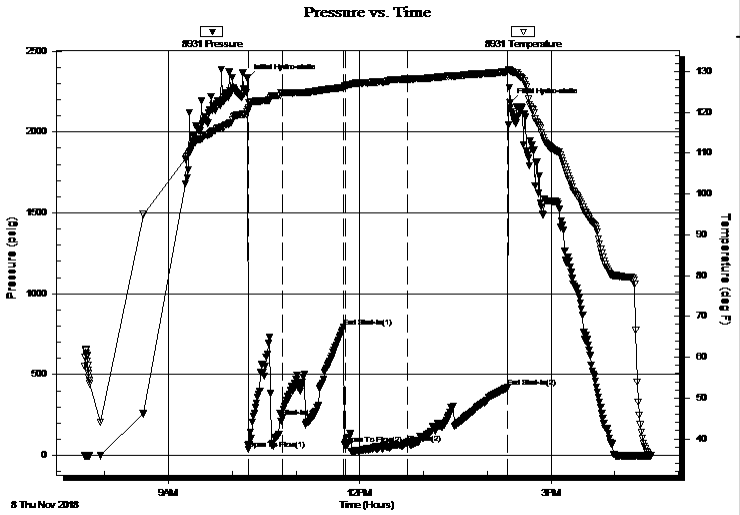
Interval: 4351.00 ft (KB) To 4361.00 ft (KB) (TVD)
Total Depth: 4361.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1587.00 ft (KB)
1575.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8931 **Inside**

Press@RunDepth:	74.94 psig @	4352.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2018.11.08	End Date:	2018.11.08	Last Calib.:	2018.11.08
Start Time:	07:40:58	End Time:	16:34:23	Time On Btm:	2018.11.08 @ 10:14:08
				Time Off Btm:	2018.11.08 @ 14:21:23

TEST COMMENT:
IF: Weak blow . Built to 1 1/4".
ISI: No blow .
FF: Weak blow . Built to 1 1/4".
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.95	120.14	Initial Hydro-static
1	37.02	121.18	Open To Flow (1)
33	237.25	124.81	Shut-In(1)
91	793.44	126.10	End Shut-In(1)
92	65.77	126.42	Open To Flow (2)
151	74.94	128.05	Shut-In(2)
246	420.92	129.96	End Shut-In(2)
248	2180.44	130.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drlg Mud 100%m	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Woolsey Operating Company
125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64902 **DST#: 1**

Test Start: 2018.11.08 @ 07:40:53

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:15:08
Time Test Ended: 16:34:23

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 68

Interval: 4351.00 ft (KB) To 4361.00 ft (KB) (TVD)
Total Depth: 4361.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

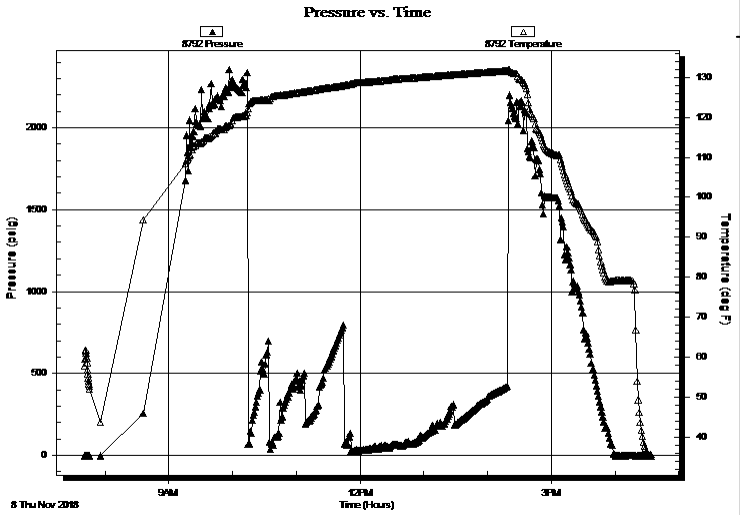
Reference Elevations: 1587.00 ft (KB)
1575.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8792 **Outside**

Press@RunDepth: psig @ 4352.00 ft (KB)
Start Date: 2018.11.08 End Date: 2018.11.08
Start Time: 07:40:49 End Time: 16:34:14

Capacity: 8000.00 psig
Last Calib.: 2018.11.08
Time On Btm:
Time Off Btm:

TEST COMMENT:
IF: Weak blow . Built to 1 1/4".
ISI: No blow .
FF: Weak blow . Built to 1 1/4".
FSI: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drlg Mud 100%m	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64902 **DST#: 1**

Test Start: 2018.11.08 @ 07:40:53

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:	5000 ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	5000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drlg Mud 100%m	0.025

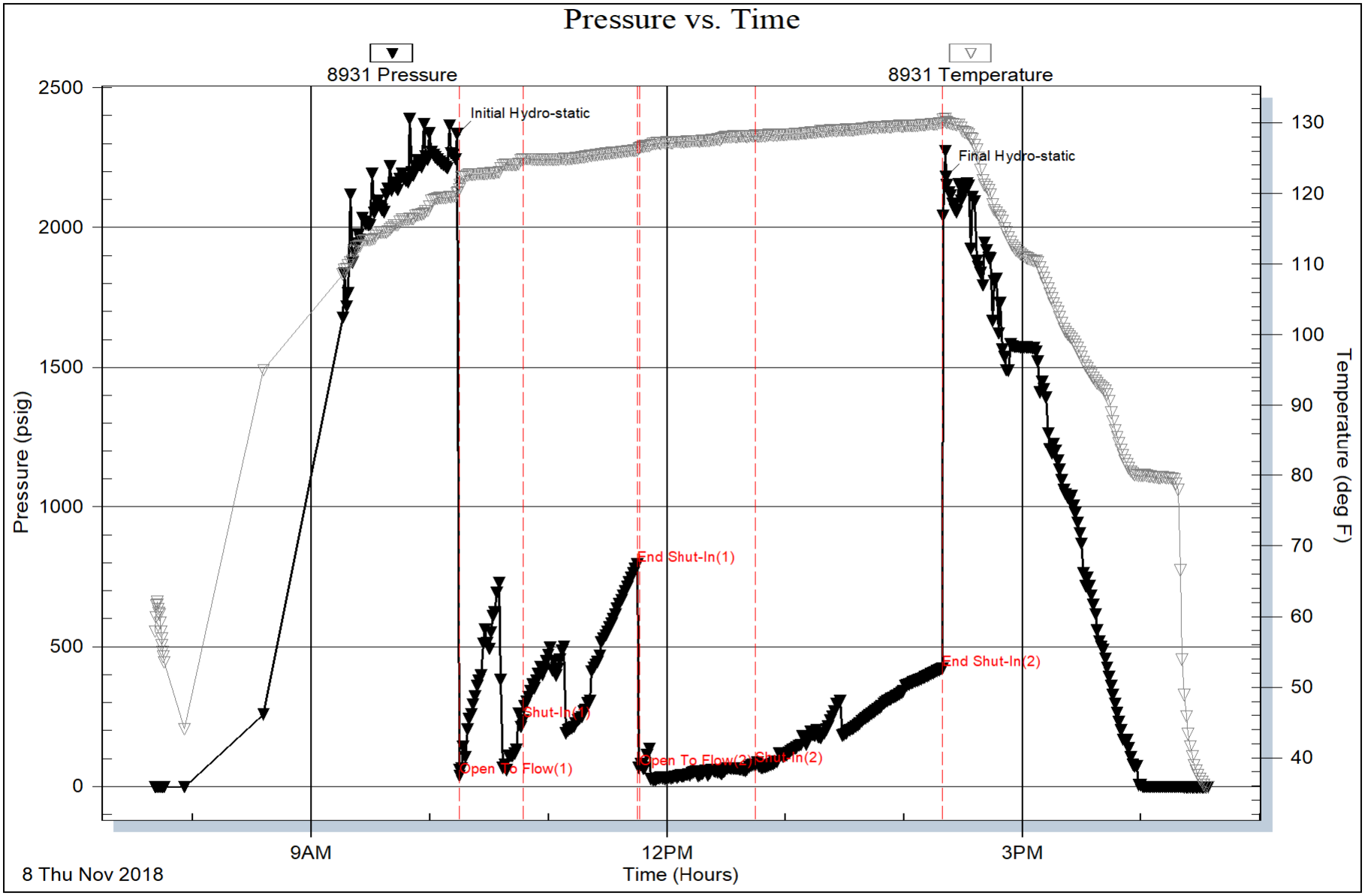
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

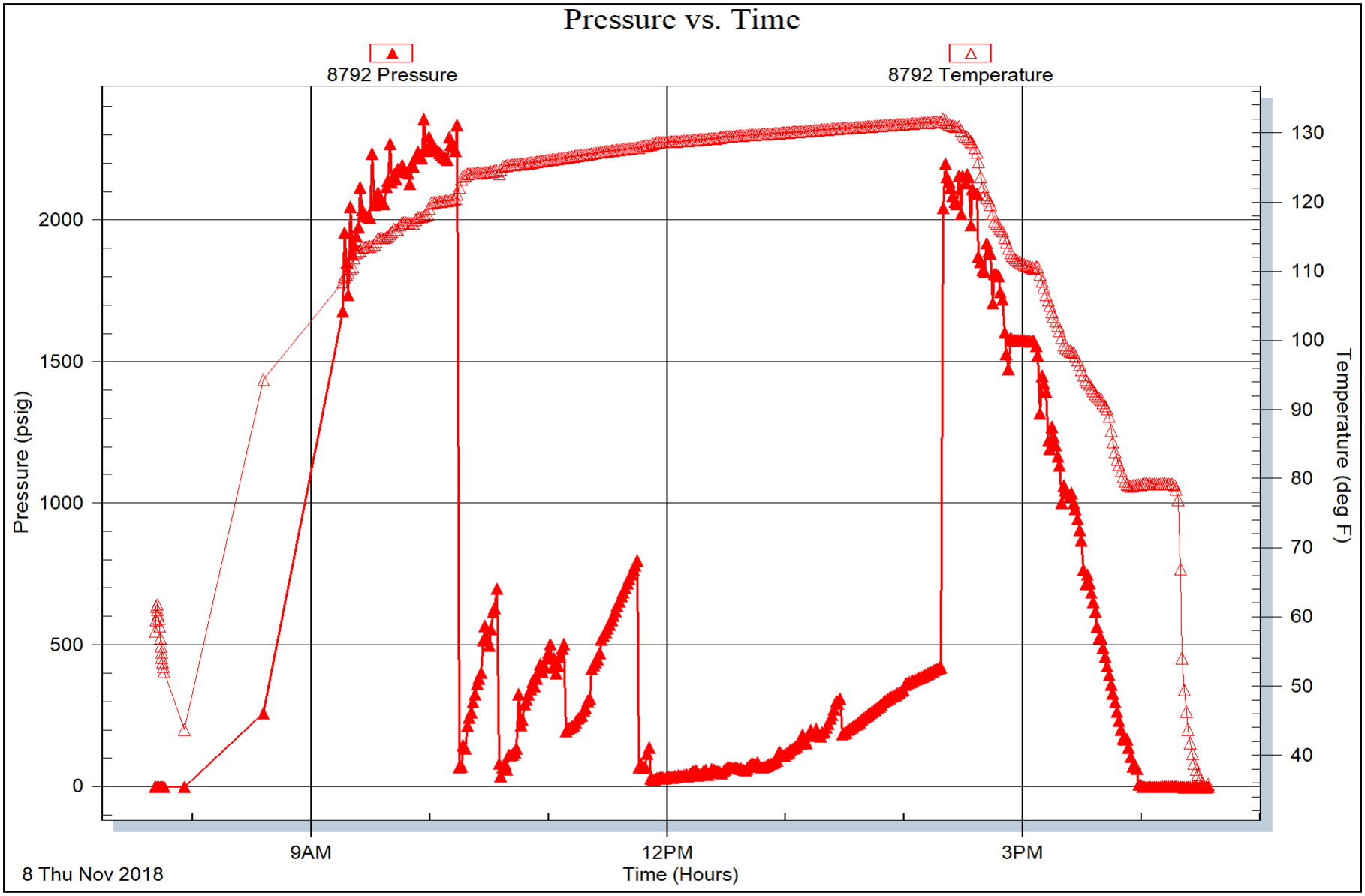
Recovery Comments:

Serial #: 8931 **Inside** Woolsey Operating Company Gerber #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64902 Printed: 2018.11.08 @ 17:16:13

Serial #: 8792 **Outside** Woolsey Operating Company Gerber #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64902 Printed: 2018.11.08 @ 17:16:13

DRILL STEM TEST REPORT

Woolsey Operating Company

125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64903 **DST#: 2**

Test Start: 2018.11.08 @ 23:56:51

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:31:36
Time Test Ended: 09:19:51

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68

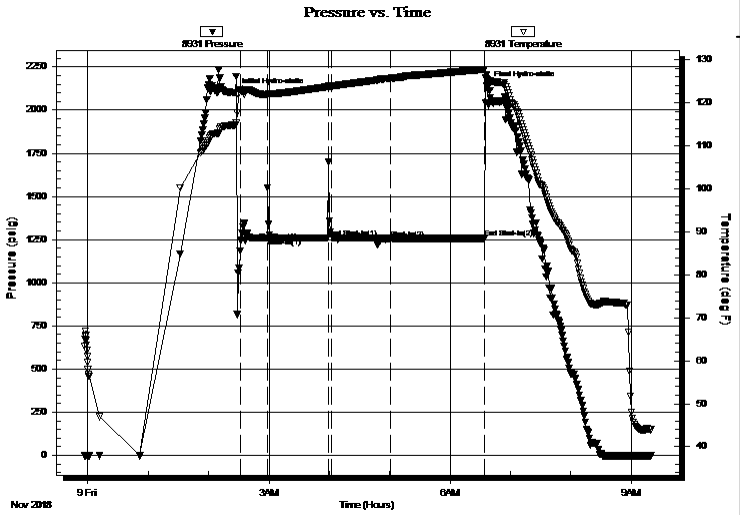
Interval: 4361.00 ft (KB) To 4376.00 ft (KB) (TVD)
Total Depth: 4376.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1587.00 ft (KB)
1575.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8931 **Inside**

Press@RunDepth:	1257.35 psig @	4362.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2018.11.08	End Date:	2018.11.09	Last Calib.:	2018.11.09
Start Time:	23:56:56	End Time:	09:19:51	Time On Btm:	2018.11.09 @ 02:26:36
				Time Off Btm:	2018.11.09 @ 06:36:36

TEST COMMENT: IF: Weak blow . Built to 4 1/2". Tool slid 20' - tool plugged (14' perforated anchor)
ISI: No blow .
FF: No blow .
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.54	114.81	Initial Hydro-static
5	1245.24	122.73	Open To Flow (1)
32	1260.23	121.82	Shut-In(1)
93	1259.42	123.70	End Shut-In(1)
96	1275.17	123.82	Open To Flow (2)
155	1257.35	125.65	Shut-In(2)
248	1257.57	127.70	End Shut-In(2)
250	2143.48	125.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	Oil scum GM 10%g 90%m	0.30

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Woolsey Operating Company
125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64903 **DST#: 2**

Test Start: 2018.11.08 @ 23:56:51

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:31:36
Time Test Ended: 09:19:51

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68

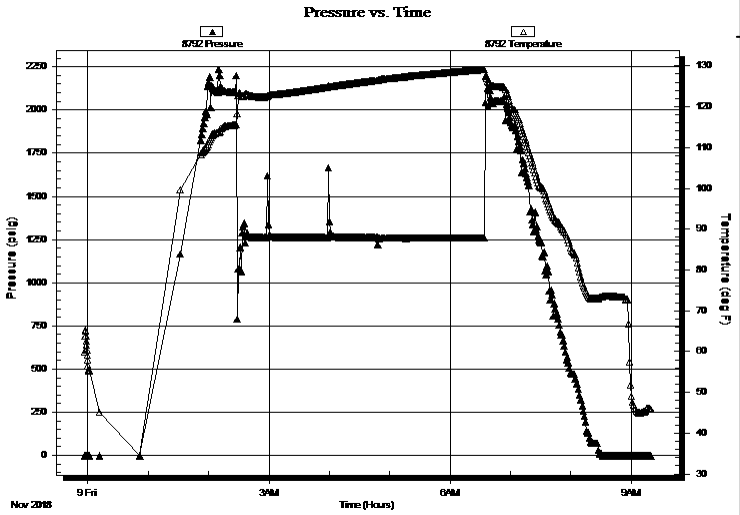
Interval: 4361.00 ft (KB) To 4376.00 ft (KB) (TVD)
Total Depth: 4376.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1587.00 ft (KB)
1575.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8792 **Outside**

Press@RunDepth:	psig @	4362.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2018.11.08	End Date:	2018.11.09	Last Calib.:	2018.11.09
Start Time:	23:56:49	End Time:	09:19:44	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Weak blow . Built to 4 1/2". Tool slid 20' - tool plugged (14' perforated anchor)
ISI: No blow .
FF: No blow .
FSI: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	Oil scum GM 10%g 90%m	0.30

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64903 **DST#: 2**

Test Start: 2018.11.08 @ 23:56:51

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:	8000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	8000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	Oil scum GM 10%g 90%m	0.300

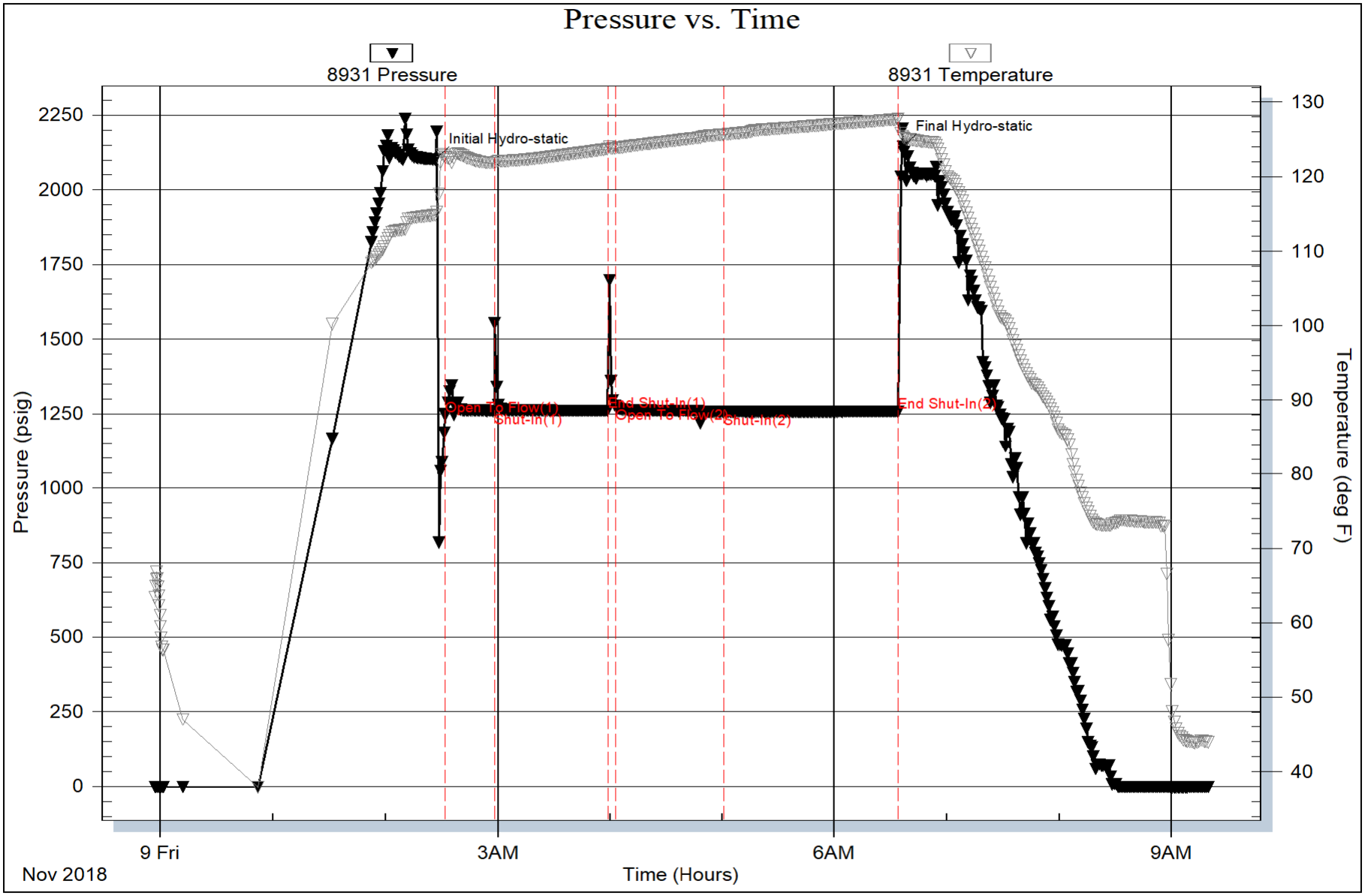
Total Length: 61.00 ft Total Volume: 0.300 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

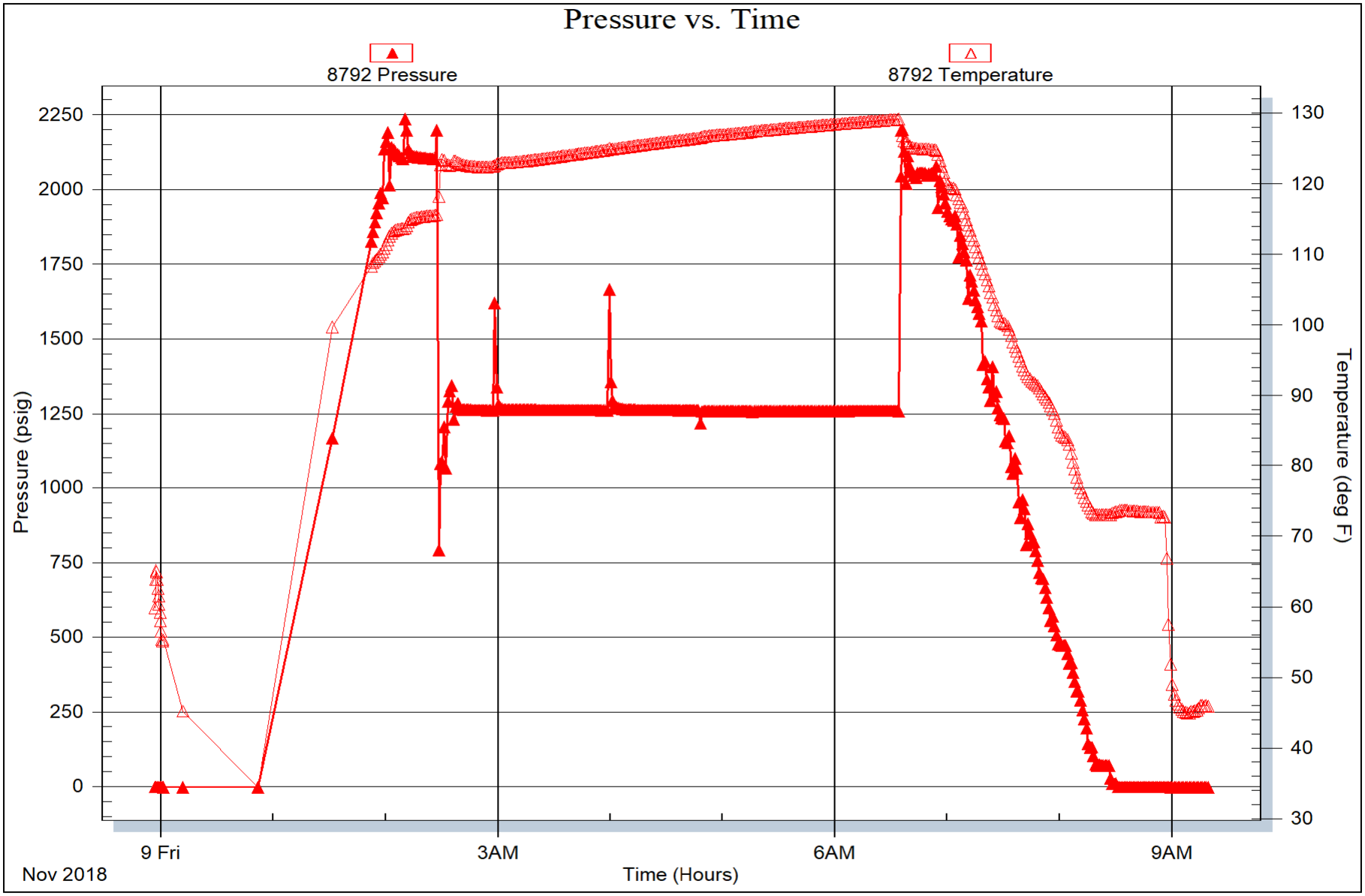
Recovery Comments:

Serial #: 8931 **Inside** Woolsey Operating Company Gerber #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64903 Printed: 2018.11.09 @ 10:13:41

Serial #: 8792 **Outside** Woolsey Operating Company Gerber #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64903 Printed: 2018.11.09 @ 10:13:41

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Woolsey Operating Company
125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64904 **DST#: 3**

Test Start: 2018.11.10 @ 11:30:42

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:32:57
Time Test Ended: 20:53:42

Interval: 4740.00 ft (KB) To ~~457.00~~ 4757 ft (KB) (TVD)
Total Depth: 4757.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68

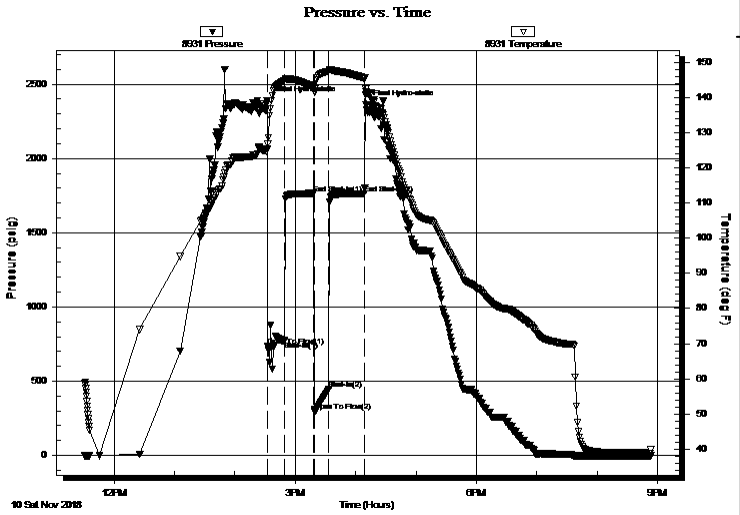
Reference Elevations: 1587.00 ft (KB)
1575.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8931 **Inside**

Press@RunDepth: 444.22 psig @ 4741.00 ft (KB)
Start Date: 2018.11.10 End Date: 2018.11.10
Start Time: 11:30:47 End Time: 20:53:42

Capacity: 8000.00 psig
Last Calib.: 2018.11.10
Time On Btm: 2018.11.10 @ 14:31:57
Time Off Btm: 2018.11.10 @ 16:10:27

TEST COMMENT:
IF: Strong blow . B.O.B. in 2 mins. Built to 56.09".
ISI: Weak blow . Built to 4 1/2".
FF: Strong blow . B.O.B. in 2 mins. Built to 63.72".
FSI: Strong blow . Built to 56.83".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.49	125.28	Initial Hydro-static
1	736.20	126.93	Open To Flow (1)
18	772.86	144.95	Shut-In(1)
47	1764.11	143.19	End Shut-In(1)
48	295.76	141.59	Open To Flow (2)
62	444.22	147.44	Shut-In(2)
97	1763.72	145.58	End Shut-In(2)
99	2363.42	141.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	MW 1%m 99%w	0.60
248.00	Oil scum MW 1%m 99%w	3.48
248.00	OMCGW 5%o 5%m 20%g 70%w	3.48
250.00	OGCMW 5%o 25%g 25%m 45%w	3.51
0.00	G.I.P. 100%g	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Woolsey Operating Company

125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64904 **DST#: 3**

Test Start: 2018.11.10 @ 11:30:42

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:32:57
Time Test Ended: 20:53:42

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 68

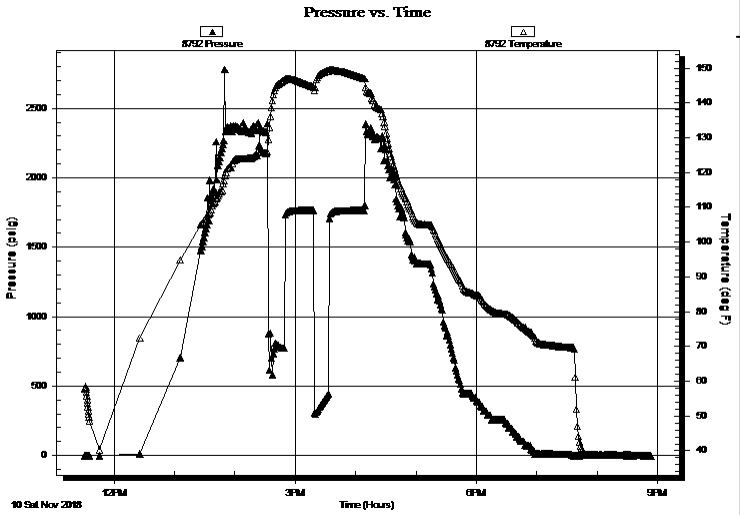
Interval: 4740.00 ft (KB) To 457.00 ft (KB) (TVD)
Total Depth: 4757.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1587.00 ft (KB)
1575.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8792 **Outside**

Press@RunDepth:	psig @	4741.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2018.11.10	End Date:	2018.11.10	Last Calib.:	2018.11.10
Start Time:	11:30:42	End Time:	20:53:37	Time On Btm:	
				Time Off Btm:	

TEST COMMENT:
IF: Strong blow . B.O.B. in 2 mins. Built to 56.09".
ISI: Weak blow . Built to 4 1/2".
FF: Strong blow . B.O.B. in 2 mins. Built to 63.72".
FSI: Strong blow . Built to 56.83".



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
121.00	MW 1%m 99%w	0.60
248.00	Oil scum MW 1%m 99%w	3.48
248.00	OMCGW 5%o 5%m 20%g 70%w	3.48
250.00	OGCMW 5%o 25%g 25%m 45%w	3.51
0.00	G.I.P. 100%g	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

125 N Market STE 1000
Wichita, Ks. 67202

ATTN: Bill Klaver

10-31s-7w Harper Co KS

Gerber #1

Job Ticket: 64904 **DST#: 3**

Test Start: 2018.11.10 @ 11:30:42

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:	89000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	5000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	MW 1%m 99%w	0.595
248.00	Oil scum MW 1%m 99%w	3.479
248.00	OMCGW 5%o 5%m 20%g 70%w	3.479
250.00	OGCMW 5%o 25%g 25%m 45%w	3.507
0.00	G.I.P. 100%g	0.000

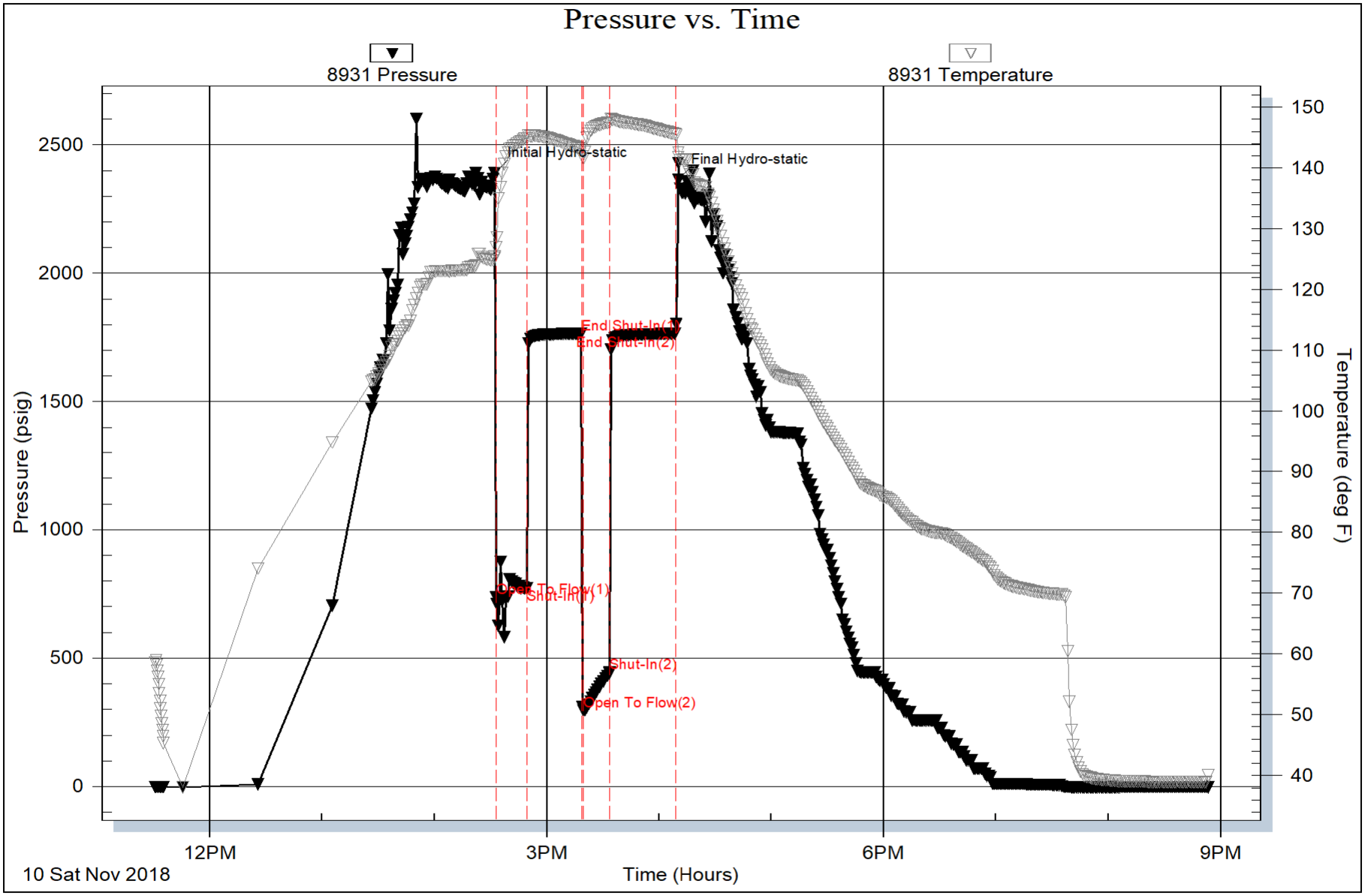
Total Length: 867.00 ft Total Volume: 11.060 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

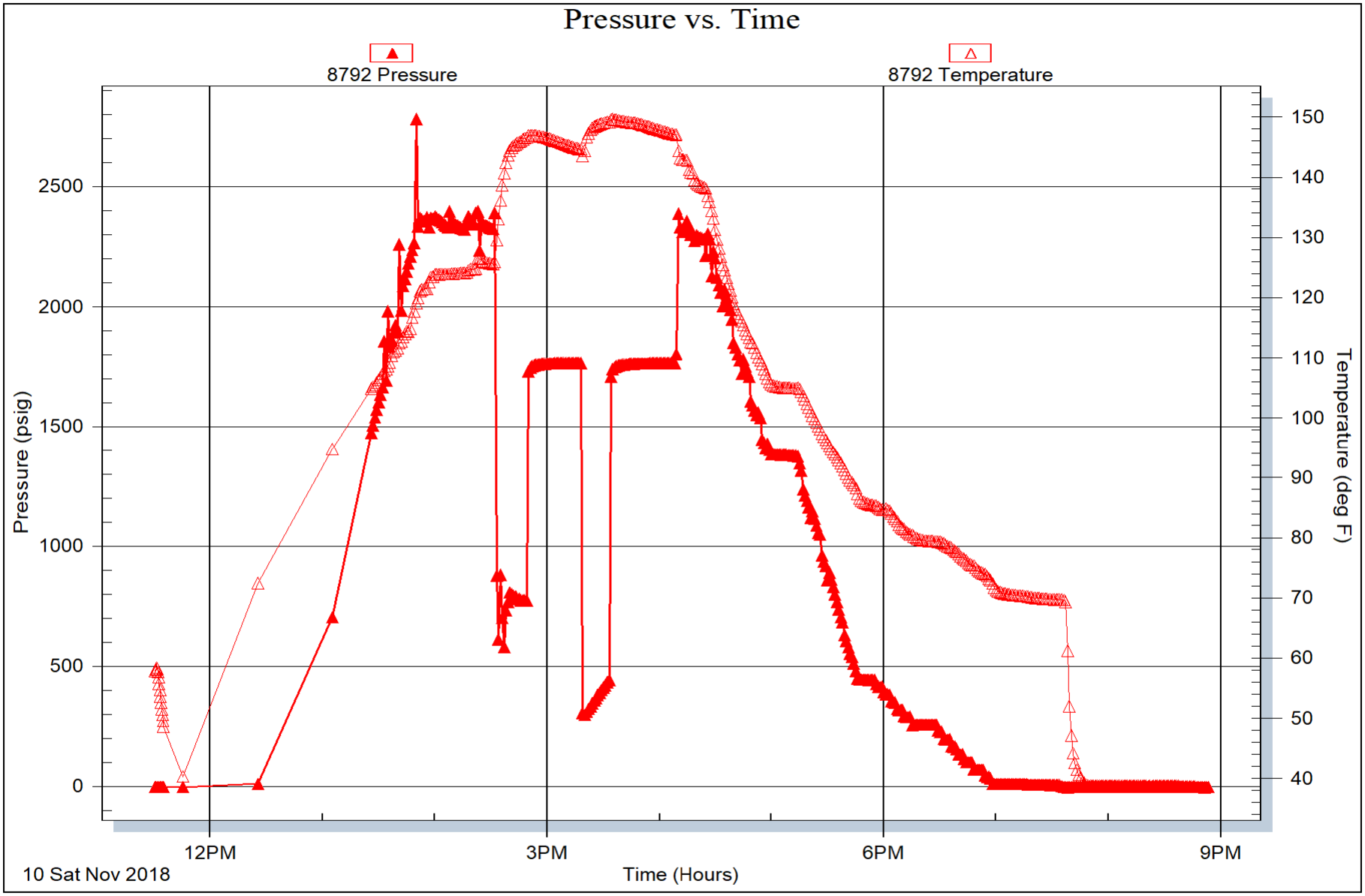
Recovery Comments: 1209 FT of Gas In Pipe. 100%g

Serial #: 8931 **Inside** Woolsey Operating Company Gerber #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 64904 Printed: 2018.11.10 @ 21:47:39

Serial #: 8792 **Outside** Woolsey Operating Company Gerber #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 64904 Printed: 2018.11.10 @ 21:47:40

Woolsey Operating Company, LLC

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

Well Name: GERBER #1
Location: Section 10 - Township 31 South - Range 7 West
License Number: 33168 **Region:** Harper County, Kansas
Spud Date: November 2, 2018 **Drilling Completed:** November 11, 2018
Surface Coordinates: 2450' FSL & 1250' FEL
W/2 NW NE SE
Bottom Hole Coordinates:
Ground Elevation (ft): 1575' **K.B. Elevation (ft):** 1587'
Logged Interval (ft): 2000' **To:** 4850' **Total Depth (ft):** 4850'
Formation: Topeka >>> Simpson
Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company,LLC
Address: 125 N. Market, Suite 1000
Wichita, KS 67202

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Spud at 7:15 pm on 11/2/2018, set 6 joints of 8 5/8" new casing at 268' KB (tally 254'), cement with 225 sx 60/40 poz mix. Plug down at 3 am on 11/3/2018. Cement did circulate.
Production Casing:

Deviation Surveys: 3/4 at 270', 3/4 at 999', 1/2 at 1504', 1/2 at 2013', 1.2 at 2300', 1/4 at 2459'. See detail for deeper surveys.
Pipe Strap @ 3851', Strap: 3853.09', Board: 3851.85', Strap 1.24' long. No corrrection was made to the board.
Fossil Drilling Rig 3 Bit Record:
1) 12 1/4" Varel RR in at 0' out at 270', 5 1/2 hours.
2) 7 7/8" Hughs Tool DP 605X PDC in at 270'

Gas Detector: Pason Systems
Mud System: Mud-Co. Brad Bortz, Engineer
DST's: Trilobite Testing,
E-Logs: ELI, Dual Induction Laterolog w/sp, CNL-FDC w/PE, GR & Caliper, Sonic w/GR, Gus Phanestiel Engineer
Directional Tools by Integrity Directional
Company Man: Alan Dick, WOC

DSTs

DST #1. Mississippi, 4351'-4361', 30"-60"-60"-90", IFP: weak 1" blow, FFP: feeble 1 1/2" blow, Recovered: 5' drilling mud. IHP 2333, IFP 37-237, ICIP 793, FFP 66-75, FCIP 421, FHP 2130. BHT N/A

DST #2, Mississippi, 4361'-4376', 30"-60"-60"-90", IFP: Weak 1 1/2' blow, FFP: Weak 4 1/2" blow (tool slid 22'), Recovered: 61' VSOGCM (<1%O, 10%G, 90%M). IHP 2100, IFP 1245-1258, ICIP 1259, FFP 1275-1257, FCIP 1257, FHP 2143. BHT N/A. Test considered a misrun, tool plugged throughout test.

DST #3, Simpson, 4740'-4757', 15"-30"-15"-30", Strong blow, Recovered: 1209' GIP, 250' OGCMW (25%G, 5%O, 45%W, 25%M), 248' OMCGW (20%G, 5%O, 70%W, 5%M), 248' MW/Scum of oil, 121' MW, API Rw 0.16 @41 deg, chl. 89,000 ppm, IHP 2389, IFP 736-773, ICIP 1764, FFP 296-444, FCIP 1764, FHP 2363, BHT 125 deg.

CREWS

Rick Barriger, Tool Pusher
Kevin Clifft, Morning
Pablo Luna, Days
Chris Staats, Evening

ROCK TYPES

Anhy, Bent, Brec, Cht, Clyst, Coal, Congl, Sdy dolo, Shy dolo, Dol, Gyp, Sdy lmst, Lmst, Mrlst, Salt, Shale, Sltst, Ss, Black sh, Gry sh, Shale, Shysltst, Sltysh, Ss 2, Shale 3, Silty dol, Dol lmst, Dol 2, Granite wash, Lmst, Calc dol, Shale 3

ACCESSORIES

MINERAL: Anhy, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Ferrpel, Ferr, Glau, Gyp, Marl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Chlorite, Dol, Sand, Slty

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, Fuss, Oomoldic

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Ssstrg, Carbsh, Clystn, Dol

Grysh, Gryslt, Lms, Sandylms, Sh, Sltstn

TEXTURE: Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest

Log

Curve Track 1: ROP (min/ft), Gamma (API) | Depth | Lithology | Oil Shows | Geological Descriptions | TG, C1-C5: TG (units), C1 (units), C2 (units), C3 (units), C4 (units), C5 (units)

Bill Klaver
Geologist

****
Woolsey Operating Company LLC
Gerber #1
Sec. 10 - Twp 31S - Rge 7W
2450' FSL & 1250' FEL
W/2 NW NE SE
Harper County, Kansas
Field: DeQuoin
GL 1575' KB 1587'
AP # 15-077-22178-00-00
****

Ten foot samples and one minute drill time were collected from 2700' to rotary total depth. Samples were delivered to the Survey at the completion of the test.
****

The following tests were used for structural comparison: Colorado O&G Mathes #1, C SE NE, 10-T31S-R7W, Kathol Petroleum's Mathes #2, C SW NE, 10-T31S-R7W, B&H Petroleum's Mollohan 1-A OWWO, NW NW NE, 15-T31S-R7W.
****

7 am Progress:
November 2, 2018 MIRT/Spud
November 3, 2018 WOC
November 4, 2018 Drilling at 1730'
November 5, 2018 Drilling at 2710'
November 6, 2018 Drilling at 3475'
November 7, 2018 Drilling at 3905'
November 8, 2018 TOOH for DST #1 4361'
November 9, 2018 TOOH with DST #2
November 10, 2018 CFS 4757'/Simpson
November 11, 2018 TOOH for e-logs at 4850'

Scale Change (2020')
clean adjust gas trap (2030')
ONAGA 2303 (-716)
WABAUNSEE 2356 (-769)
spl box left open (2455')
TOOH at 2459' Pick up directional tools
Trap out of mud Morning tower (2550')
Oh! did we close spl box? (2605')

2700: shl gr lt gry firm
2710' 7 am Nov. 5, 2018
HOWARD 2716 (-1129)
lst wht off wht f xln gran soft chlky
lst wht off w ht f xln soft chlky gran
Mud-Co. 2743' wt. 9.5+ vis. 35 wl. N/C chl. 36000
lst wht f xln soft chlky, tr foss frags, tr calc xln fill, lst wht tan gry/brn mott f med xln gran soft chlky arg foss frags
shl gry blk, silty gritty
shl gr drk gry med gry firm silty gritty
sh gry medrk gry silty gritty tr sndy
shl gry medk lt gry silty gritty tr sndy
sst lt gry clstrs, f vf grnd, sub ang grns, prly srtd, fria, soft crumbly, inter gran por, mic, arg silty, blk carb flecks
sst off wht gry lt gry f vf grnd sub ang grns prlty srted, prly cem calc cem, sub fria to soft crumbly, mic silty, arg,
shl gry med gry soft, sst lt gry clstrs, f vf grnd sub ang grns, prly srtd, prly cem fria, arg silty mic
TOPEKA 2907 (-1320)
lst off wht lt gry mott f xln bkn blky ang arg vry chlky soft gran
lst off wht lt gry f xln soft chlky gran tr foss frags, tr calc xln fill, mstly soft chlky mushy
lst crm/gry mott f vf lxn gran sub chlky soft gran arg, tr foss frags, gry arg silty
lst gry tan, crm/gry mott f xln blky ang gran sub chlky pcs, foss frags, mstly soft dns tr arg
xx
shl gry, drk gry blk, blky ang firm pcs, sndy, clr f grnd, w/srted hvy clay fill much blk carb flecks, lst crm tan, crm gry mott f xln blky ang gran sub chlky soft , foss frags
lst crm gry tan mott f vf xln gran sub chlky foss frags, soft chlky arg
shl gry med gry, silty soft, lst tan lt gry wht mott f xln gran soft sub chlky, tr foss frags, arg silts
shl gry lt gry soft silty lst tan gry lt gry mott f xln gran soft blky ang arg silty,
KANWAKA 3080 (-1493)
lst tan crm lt brn f vf xln dn shrd blky ang tr sub chlky micro foss frags, tr calc xln fill,
shl med gry, gry/lt gry/green, silty gritty, mic, tr blk carb flecks
Displace mud at 3092' Had a 200 vis after displacement!
shl gry drk gry, lt gry/green silty gritty, tr mic, tr blk carb flecks
Bit balled up?
shl drk gry, gry, gry w/green tint, silty fnly gritty, tr fnlysndy, mic, blk carb flecks
shl gry med gry blk gritty fnly sndy, blk carb flecks, mic in most
bit ball
shl gry med gry tr gry w/green tint, blky ang firm pcs, silty fnly sndy, mic, blk carb flecks
shl gry med gry silty, gritty, fnly sndy in prt, mic, blk carb flecks
shl gry drk gry gry w/green tint, fnly gritty, fnly sndy in prt, mic, blk carb material
lst gry drk gry, tan gry mott, f vf xln dns hrd blky ang pcs, sub chlky tr foss frags, arg in prt,
lst crm buff tan f xln blky ang sub chlky micro foss frags, flky, lst tan brn f vf xln dns hrd blky ang pcs, calc xln fill
lst crm tan buff, brn tint, f xln gran sub chlky foss frags, soft flky, spls wsh wht
connection, survey during gas response pumps down
shl drk gry blk, blk carb, blky ang firm pcs, wxy grsy text, abun gas bubs
lst tan brn f vf xln dns hrd blky ang micro foss frags, tr chlky
HEEBNER 3288 (-1701)
shl drk gry blk, blk carb, blky ang firm pcs, wxy grsy text, abun gas bubs
TORONTO 3312 (-1725)
sst wht clstrs, f vf grnd, sub ang grns, w/srtd, sub fria, blky ang clstrs, mstly tite dns, arg, tr mic, lst wht off wht crm f xln blky ang sub chlky, soft dns
lst wht off wht f xln dns tr sub chlky micro foss frags,
DOUGLAS 3343 (-1756)
lst wht off wht f xln gran sub chlky micro foss frags, calic xln fill, moldic pp por, calc xln refill, tr chrty, chrt lst gry frsh shrp
lst crm lt gry tan f sli med xln blky ang dns sub chlky foss frags, calc xln fill, gritty sndy in prt, tr snd grrn inclu
lst crm gry tan buff f sli med xln, blky ang dns pcs, foss frags, crsly in prt, calc xln fill, sndy gritty in prt, snd grn inclu
Scale Change (3400')
shl gry dull gry, soft tr firm pcs, silty tr sndy, mic, tr carb flecks
shl gr lt dull gry silty gritty, tr fnly sndy, flky firm pcs, mic, tr blk carb flecks
shl gry dull gry silty gritty, mic blk carb flks, sst gry f grnd, sub ang grns, prly srtd, vry arg, clay fill, mic
shl gry drk gry silty gritty, sndy in prt, mic, blk carb flecks, sst gry clstrs, vf grnd sub ang grns, prly srted, packed tite, tr sub fria, mic arg, silty/clay fill
3475' 7 am Tuesday Nov. 6, 2018
shl gry drk gry silty gritty, mic, sndy, aa
shl gry med gry, silty gritty, mic, blk carb flecks
HASKELL 3516 (-1929)
lst drk tan brn f vf xln dns hrd blky ang, micro foss, crs cal xln fill, shls aa, bec blky ang firm pcs
shl gry drk gry blky ang firm pcs, tr blk carb mat,
shl gry med gry silty sndy, sst/slstn gry vf grnd w/srted, ang grns, prly srted, sub fria, very arg hvy clay fill, mic, blk carb flecks
STALNAKER 3562 (-1975)
sst wht off wht clssstrs, vf grnd, sub ang grns w/srrted w/cem blky ang dns clstrs, sub fria to hrd, tr mic blk carb flecks, clay fill NS
CFS; Circ 3568'
sst clstrs, wht lt gry tint, f grnd, sub ang grns, w/srted, w/cem, sub fria, inter grain por, clay fill, mic, tr blk carb flecks
CFS; CFS 3579'
sst wht lt gry clstrs, f vf grnd, sub ang grns, w/srted w/cem calc cem, sub fria to tite dns, glau, tr blk carb flecks
sst wht lt gry clstrs, f vf grnd, sub ang grns, w/srted, w/cem sub fria calc cem, tr dns tite blky clstrs, glau
sst wht tr lt tan, lt gry clstrs, f vf grnd sub ang grns, w/srted, w/cem, calc cem, tr tite dns, blky ang clstrs, glau
sst wht, lst gry tan blky ang clstrs, f vf grnd, sub ang grns, w/srted, w/cem calc cem, glau, tr arg clay fill, incr shl gry, med gry silty sndy
sst lt gry/wht blky ang clstrs, f vf grnd, sub ang grns, w/srted, well tr prly cem, calc cem, glau, incr shls, gry med gry silty sndy
sst aa, sh gry med drk gry silty gritty, sndy tr mic, blk carb flecks
shl gry med drk gry silty gritty, mic in prt, blky carb flecks, bedded/banded
shl gry ddrk med gry blky ang firm pcs, tr silty gritty, bedded/banded, blk carb flecks
shl gry drk med gry blky ang firm pcs, silty gritty, tr sndy, mic in prt, blk carb flecks, bedded/banded
shl gry drk gry, drk gry/blk w/redish tint, silty gritty tr sndy, blky ang pcs, trmic tr blk carb flecks
shl gry blk, drk gry red tint,, blk carb, blky ang firm pcs, wxy grsy text abun gas bubs
shl gry drk gry gry blk, tr blk carb text, blky ang firm pcs, tr gritty, gas bubs
work on pump down 4 hours
KANSAS CITY 3828 (-2241)
lst crm tan lt brn in prt f xln blky ang dns pcs, foss frags, sli chlky, calc xln fill, arg in prt, soft gran chlky in prt
TOOH at 3851' Lay down directional tools
IOLA 3850 (-2263)
lst crm tan off wht tr buff f xln blky ang sub chlky foss frags, calc xln fill, inter xln foss mold por
lst wht crm tan f xln blky ang sub chlky pcs, foss frags, calc xln fill, inter xln por foss mold por
lst crm tan buff f xln gran soft sub chlky foss frags, moldic/pp por, lst tan gry f xln soft sub chlky dns
3905' 7 am Wednesday Nov. 7, 2018
lst crm buff tan f xln blky ang pcs, sub chlky foss frags, tr foss mold por, calc xln fill, mstly dnsy chlky, spls wsh wht, chrt tan lt gry shrp frsh opaq
lst wht off wht buff f vf xln soft chlky foss frags, mstly dns chlky gran spls wsh wht
lst crm tan off wht buff f xln gran blky ang chlky foss frags w/calc xln fill, inter xln por, foss mold por, brn stain, SSFO, tr gas bubs, sli odor in 30" spl, none in 45" spl
geologist cable hung up drill time 3956'-3977' ??
Circ 3956'; Mud-Co. 3956' wt. 9.4 vis. 46 wl. 10.4 chl. 5000 lcm 2# bbl
CFS
STARK 3965 (-2378)
shl gry drk gry blk, blky ang gry wxy pcs, lst tan, gry tan mott f vf xln blky chlky soft pcs, foss frags
SWOPE 3971 (-2384)
lst gry tan lt brn f xln dns hrd blky ang frag foss ool, oomold/foss mold por, inter xln por, gran soft chlky
CFS; Circ 3980'
lst wht crm gry tan f xln soft blky sub chlky foss frags, dns lst tan gry f mic xln dns hrd blky ang chrt lt gry shrp frsh
HUSHPUCKNEY 4000 (-2416)
shl gry drk gry blk, blky ang firm pcs, wxy grsy pcs, gas bubs, lst tan lt gry f xln blky sub chlky foss frags, moldic pp por
HERTHA 4009 (-2422)
lst tan crm lt brn f xln tr sli chlky foss frags, calc xln fill, foss mold, vug por, inter xln por, faint odor, tan brn stain, gas bubs lite brn SFO on break
lst tan lt gry f vf xln dns chlky gran, foss frags, tr calc xln fill, lst tan gry f vf xln dns hrd blky, sub chlky micro foss chrt tan lt gry shrp frsh opaq
lst gry drk gry f vf xln dns hrd blky ang arg sub, chlky, micro foss frags, chlky gran tr arg
B/KC 4065 (-2478)
lst tan drk gry f vf xln dns hrd blky ang arg, silty gritty, sub chlky micro foss frags, chrt tan gry shrp frsh opaq
shl drk gry, gry blk, silty gritty, calc, lst drk fry brn f vf xln dns hrd blky vry arg, chrt drk tan brn shrp frsh opaq
Clean gas trap
lst tan gry tan green f mic xln dns hrd blky ang arg, silty, shl gry drk gry blk, blky ang calc, dns hrd blky ang pcs
MARMATON 4114 (-2527)
lst crm wht off wht f vf xln blky ang dns hrd pcs, tr chlky edge, micro foss frags, tr fin calc xln fill, , shl gry green silty gritty calc
lst wht off wht crm lt tan f vf xln dns hrd blky ang tr chlky edge, micro foss frags, tr micro ool, shl gry green calc, blky ang firm pcs
lst tan lt brn buff mott, f sli med xln blky ang dns pcc, sndy, micro foss frags, calc xln fill, shls gry green calc, blky ang firm pcs
PAWNEE 4177 (-2590)
shl gry drk gry blk, silty gritty, calc, tr blk carb, blky ang firm wxy grsy pcs,
lst crm buff tan f vf xln dns hrd blky ang pcs, micro foss frags, micro ool, inter xln fill, mstly dns hrd, tr sub chlky
shl gry blk carb wxy grsy text, sst lt gry green clstrs, f grnd, sub ang grns, prly srtd, w/cem, pyritic, arg, glau, dns blky ang clstrs, lst tan crm buff f vf xln dns hrd blky ang sndy in prt
CHEROKEE GRP 4224 (-2637)
lst crm tan tr buff f vf xln dns hrd blky ang tr chlky edge, micro xln in prt, micro foss frags in prt, shl gry drk gry blk
lst crm tan buff f xln dns hrd blky ang and micro xln in prt, micro foss frags, tr calc xln fill, tr chlky edge.
shl gry blk silty gritty, sh green brn tr vari color, lst tan gry brn f mic xln dns hrd blky ang arg silty
Short Trip 4295'
lst tan gry brn f vf xln dns hrd blky ang, arg, micro foss frags, calc xln fill, shl gry brn silty gritty
DST #1 4351'-4361' 30"-60"-60"-90" Weak blow Rec: 5' Mud IHP 2333 IFP 37-237 ICIP 793 FFP 66-75 FCIP 421 FHP 2180 BHT N/A
shl gry green blk, tr maroon ratty silty bedded bandd
lst tan brn gry brn f vf xln dns hrd blky ang arg, silty, shl gry blk, maroon tr vari color, silty ratty
shl gry green, vari color, red, yellow, maroo, blk drk green/blue, ratty banded bedded
MISSISSIPPI 4349 (-2762)
DST #1
chrt wht tan brn mott, weath trip text, pp moldic por, gd odor, stain, abun gas bubs, tan brn filmy SFO, chrt frsh shrp w/gran weath trip text edge pp moldic por, blk stain, gas bubs, tan brn stain, filmy SFO
CFS; Circ 4355'
DST #2 4361'-4376' Mis-run Plugged tool
CFS; Circ 4361'
DST #2
chrt wht shrp frsh w/weath trip text edge, wht soft gran edges, pp moldic por, vug por, fair odor, tan brn stain, SSFO, filmy SFO abun gas bubs
CFS; Circ 4371'
chrt wht tan brn mott frsh w/weath gran trip text edge, vug moldic por, fair odor, brn/blk stain, filmy SFO, abun gas bubs
chrt wht trwht tan mott, frsh opaq w/weath gran trip text edge, soft crumbly edge, pp vug moldic por, tan stain, filmy SFO, blk gilson stain, fair gas bubs, sli odor
CFS; Circ 4386'
chrt wht off wht shrp frsh opaq w/weath gran trip text edges, dolo text in prt, pp moldic vug por, incr blk gilsonitic stain, gas bubs, tan brn stain VSSFO, faint odor
CFS; Circ 4396'
chrt wht shrp frsh opaq w/weath gran trip text edges, pp moldic por, dolo text, chrt wht off wht gran weasth text, pp moldic por, odor, blk gilson stain, tan brn stain, gas bubbles, RBSFO, filmy SFO
chr twht off wht shrp frsh opaq w/weath gran trip text edges, tr dolo text, chrt wht weath gran text, pp moldic por, odor, gilsonitic stain, tr brn blk stain tr gas bubs odor
chrt wht , wht tan mott, dolo in prt, weath gran edges, soft gran, pp moldic por, lt tan stain, RBSFO, odor?, tr gas bubs, filmy stain
chrt wht shrp frsh opaq, blky ang tr gran weath edge, tr dolo text, nodor, tr rare gilsonitic stain,
chrt wht off wht, tr lt tan shrp frsh opaq, blky ang pcs, tr gran weath soft text, tr dolo text, pp moldic por, nodor, tr lt stain, NSFO
chrt wht off wht shrp frsh blky ang opaq, dolo text, frsh wht chrt w/weath gran crumbly edge, tr foss, gran pp moldic por
chrt wht off wht shrp frsh opaq, blky ang pcs, dolo crm tan f xln gran ang blky chrty, frsh chrt inclu
chrt off wht tan shrp frsh opaq, blky ang shrp pcs, dolo tan off wht f vf xln gritty sndy, chrty, chrt inclu
lst crm tan off wth f mic xln dns hrd blky ang pcs, micro foss frags, chrty, chrt wht shrp frsh opaq, blky ang pcs
lst wht off wht tan f vf xln dns hrd blky ang pcs, chrt dull wht shrp frsh opaq, foss frag inclu, shl drk gry, gry green blky ang firm pcs, dolo lt blue green, f xln soft sndy gran
COMPTON 4610 (-3023)
lst wht off wht dull tan f micro xln dns hrd blky ang, tr crs foss frags inclu,
KINDERHOOK 4621 (-3034)
shl dull gry, brn/gry silty gritty platey, flky blky firm pcs, tr gas bubs
sh gry drk gry blk, gry/brn silty gritty, gas bubs
DST 3 4740'-4757' 15"-30"-15"-30" Strong blow Rec: 1209' GIP 498' OGCMW 248' MW/SSO 121' MW IHP 2389 IFP 736-773 ICIP 1764 FFP 298-444 FCIP 1764 FHP 2363 BHT 125
shl gry dull gry, dull gry brn silty gritty, platey, blky ang firm pcs, gas bubs
shl gry dull gry blk, silty gritty blky platey firm pcs, micro sndy in prt, gas bubs
shl gry dull gry silty gritty, blky ang firm pcs,
WOODFORD 4711 (-3124)
shl gry blk, reddish brn/blk, blk carb, blky ang firm pcs, pyritic, conglic in prt, abun gas bubs
shl drk gry , gry blk, silty gritty, dolo in prt,
Short trip 4737'
shl gry blk silty gritty dolo text, shl drk gry blk, reddish brn blk blky ang firm pcs, abun gas bubs
DST #3
SIMPSON 4750 (-3163)
dolo drk brn f xln blky dns, succ in r xln, pp por, brn stain, even stain, SFO, gas bubs, faint odor, dolo aa, vry suc/sndy, snd grn inclu
dolo aa, sst wht semi clear clstr, f grnd sub rded grns, w/srted, prly cem, sub fria, silic cem, glau, gilsonite stain, gas bubs, lt transl SFO, filmy RBSFO on break, faint odor in all
CFS; Circ 4755'
CFS; Circ 4757'
Mud-Co. 4757' wt. 9.5 vis. 50 wl. 8.8, chl. 5000 lcm. 2#/bbl
sst wht clr clstrs, f grnd, sub rded, w/srtd, sub fria, fair to prly srtd, fair to poorly cem, silic cem tr gilson stain, sst clstrs tan lt brn, f grnd sub ang, w/srtd sub fria, tr dolo/silic fill, tr tite.
sst wht sli clr clstrs, f grnd, sub ang/sub rded grns, w/srtd, sub fria to tite, blky ang clstrs, tr silic dolo fill, blk min flecks
sst wht/clr clstrs f grnd, sub ang, sub rded/tr sub ang grns, w/srtd, sub fria to tite, tr blky ang hrd clstrs, silic cem and silic/dolomitic fill, blk minc flecks
McLISH 4810 (-3223)
lost returns
shl gry green, teal green silty gritty sndy, snd grn inclu
shl gry green teal green silty gritty, snd grn inclu, sst gry green f vf grnd sub rded grns prly srtd, arg, gry green clay silt fill
shl gry drk gry green, teal green, silty gritty sndy in prt, rded clear fn grnd and grain inclu.
RTD 4850 (-3263)
Circ 4850'

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Woolsey Operating Company LLC
Gerber #1
W/2 NW NE SE
2450' FSL & 1250' FEL
Sec. 10-Twp 31S-Rge 7W
Harper County, Kansas
Field: DuQuoin
GL 1575' KB 1587'
API # 15-077-22178-00-00
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