

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 # \_\_\_\_\_

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

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 #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

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

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

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

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

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

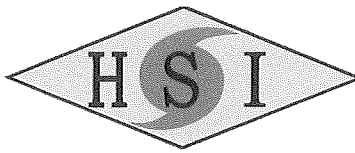
Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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**CEMENT TREATMENT REPORT**

Customer: <b>WOOLSEY OPERATING</b>	Well: <b>MILLS "A" #1</b>	Ticket: <b>ICT 3843</b>
City, State:	County: <b>BARBER , KS</b>	Date: <b>7/19/2020</b>
Field Rep: <b>ALAN DICK</b>	S-T-R: <b>31-30S-14W</b>	Service: <b>8 5/8" SURFACE</b>

Downhole Information	
Hole Size:	<b>12 1/4 in</b>
Hole Depth:	<b>315 ft</b>
Casing Size:	<b>8 5/8 in</b> 23#
Casing Depth:	<b>311 ft</b>
Tubing / Liner:	<b>in</b>
PLUG Depth:	<b>291 ft</b>
Tool / Packer:	
Depth:	<b>ft</b>
Displacement:	<b>18.5 bbls</b>

Calculated Slurry	
Weight:	<b>14.8 # / sx</b>
Water / Sx:	<b>5.18 gal / sx</b>
Yield:	<b>1.21 ft³ / sx</b>
Bbls / Ft.:	
Depth:	<b>315 ft</b>
Annular Volume:	<b>0 bbls</b>
Excess:	<b>125%</b>
Total Slurry:	<b>43.0 bbls</b>
Total Sacks:	<b>200 sx</b>

Product	% / #	#
Class A	<b>60.00</b>	<b>11280</b>
Poz	<b>40.00</b>	<b>5920</b>
Gel	<b>2.00</b>	<b>344</b>
CaCl	<b>3.00</b>	<b>516</b>
Gypsum		
Metso		
Kol Seal		
Flo Seal	<b>0.25</b>	<b>50</b>
Salt (bww)		
<b>Total</b>		<b>18,110</b>

TIME	RATE	PSI	BBLs	REMARKS
4:30AM				ON LOCATION
6:00AM				RUN 7 JTS 8 5/8"X 23# CASING
6:50AM				CSG. ON BOTTOM
6:55AM				HOOK UP TO CSG. BREAK CIRCULATION WITH RIG PUMP
7:10AM	5.0	150.0	10.0	H2o AHEAD
7:12AM	5.0	150.0	43.0	MIX 200 SKS CEMENT @ 14.8 PPG
7:22AM	5.0	-		START DISPLACEMENT
7:30AM	3.0	100.0	18.5	CEMENT @ DESIRED DEPTH
				CIRCULATED 10 BBL TO PIT
				JOB COMPLETE,
				THANKS!

CREW	UNIT	SUMMARY		
Cementer: <b>LESLEY</b>	<b>75</b>	Average Rate	Average Pressure	Total Fluid
Pump Operator: <b>OSBOURNE</b>	<b>524-322</b>	4.5 bpm	100 psi	72 bbls
Bulk #1: <b>EJ McGRAW</b>				
Bulk #2:				



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Woolsey Operating Company LLC

**31-30s-14w Barber Co. Ks.**

125 N Market STE 1000  
Wichita, Ks. 67202

**Mills A-1**

Job Ticket: 60655

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2020.07.22 @ 02:28:22

## GENERAL INFORMATION:

Formation: **Emporia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:44:52

Time Test Ended: 09:43:52

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 3100.00 ft (KB) To 3152.00 ft (KB) (TVD)**

Reference Elevations: 1733.00 ft (KB)

Total Depth: 3152.00 ft (KB) (TVD)

1720.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8931 Inside**

Press@RunDepth: 443.93 psig @ 3101.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.07.22

End Date:

2020.07.22

Last Calib.:

2020.07.22

Start Time: 02:28:27

End Time:

09:43:51

Time On Btm:

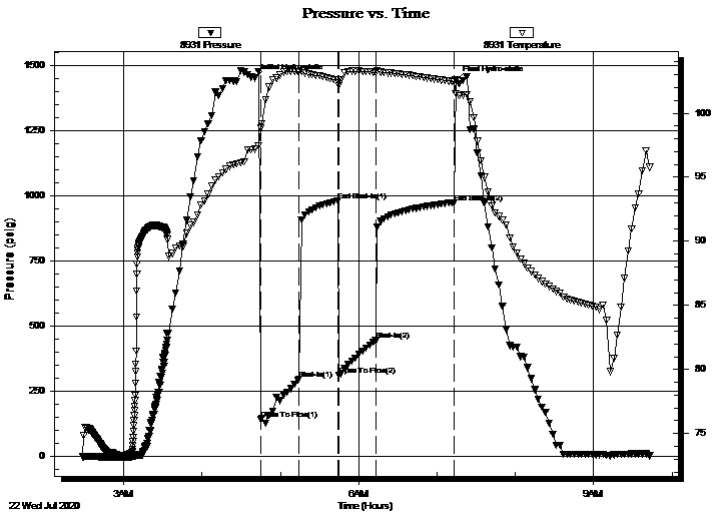
2020.07.22 @ 04:40:22

Time Off Btm:

2020.07.22 @ 07:14:22

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 1 min. Built to 177.55".  
IS: Strong Blow . B.O.B. in 20 mins. Built t 36.29".  
FF: Strong Blow . B.O.B. immediate. Built to 158.38".  
FS: Strong Blow . B.O.B. in 7 mins. Built to 104". G.T.S. in Shut In.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1452.76	97.17	Initial Hydro-static
5	140.80	98.83	Open To Flow (1)
34	294.33	103.26	Shut-In(1)
64	980.99	102.58	End Shut-In(1)
65	310.32	102.16	Open To Flow (2)
93	443.93	103.18	Shut-In(2)
153	974.37	102.46	End Shut-In(2)
154	1444.88	101.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
441.00	OSMCW 3%g 97%w	6.19
189.00	GV SOMCW 10%g 2%o 3%g 85%w	2.65
315.00	GOMCW 20%g 15%o 5%g 60%w	4.42
0.00	2,155' G.I.P.	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Woolsey Operating Company LLC

**31-30s-14w Barber Co. Ks.**

125 N Market STE 1000  
Wichita, Ks. 67202

**Mills A-1**

Job Ticket: 60655

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2020.07.22 @ 02:28:22

## GENERAL INFORMATION:

Formation: **Emporia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:44:52

Time Test Ended: 09:43:52

**Interval: 3100.00 ft (KB) To 3152.00 ft (KB) (TVD)**

Total Depth: 3152.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Reference Elevations: 1733.00 ft (KB)

1720.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 8788 Outside**

Press@RunDepth: psig @ 3101.00 ft (KB)

Start Date: 2020.07.22 End Date: 2020.07.22

Start Time: 02:28:48 End Time: 09:44:27

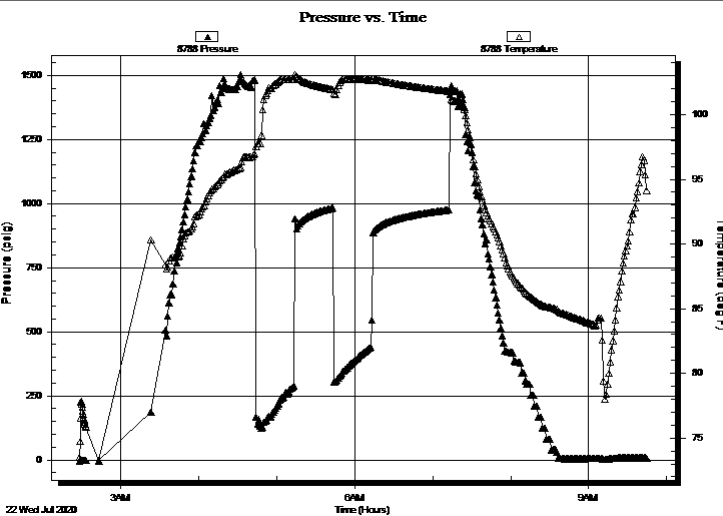
Capacity: 8000.00 psig

Last Calib.: 2020.07.22

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 1 min. Built to 177.55".  
IS: Strong Blow . B.O.B. in 20 mins. Built t 36.29".  
FF: Strong Blow . B.O.B. immediate. Built to 158.38".  
FS: Strong Blow . B.O.B. in 7 mins. Built to 104". G.T.S. in Shut In.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
441.00	OSMCW 3% <i>m</i> 97% <i>w</i>	6.19
189.00	GVSOMCW 10% <i>g</i> 2% <i>o</i> 3% <i>m</i> 85% <i>w</i>	2.65
315.00	GOMCW 20% <i>g</i> 15% <i>o</i> 5% <i>m</i> 60% <i>w</i>	4.42
0.00	2,155' G.I.P.	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Woolsey Operating Company LLC

**31-30s-14w Barber Co. Ks.**

125 N Market STE 1000  
Wichita, Ks. 67202

**Mills A-1**

Job Ticket: 60655

**DST#: 1**

ATTN: Bill Klaver

Test Start: 2020.07.22 @ 02:28:22

## 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:

80000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 7500.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
441.00	OSMCW 3%m 97%w	6.186
189.00	GVSOMCW 10%g 2%o 3%m 85%w	2.651
315.00	GOMCW 20%g 15%o 5%m 60%w	4.419
0.00	2,155' G.I.P.	0.000

Total Length: 945.00 ft      Total Volume: 13.256 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

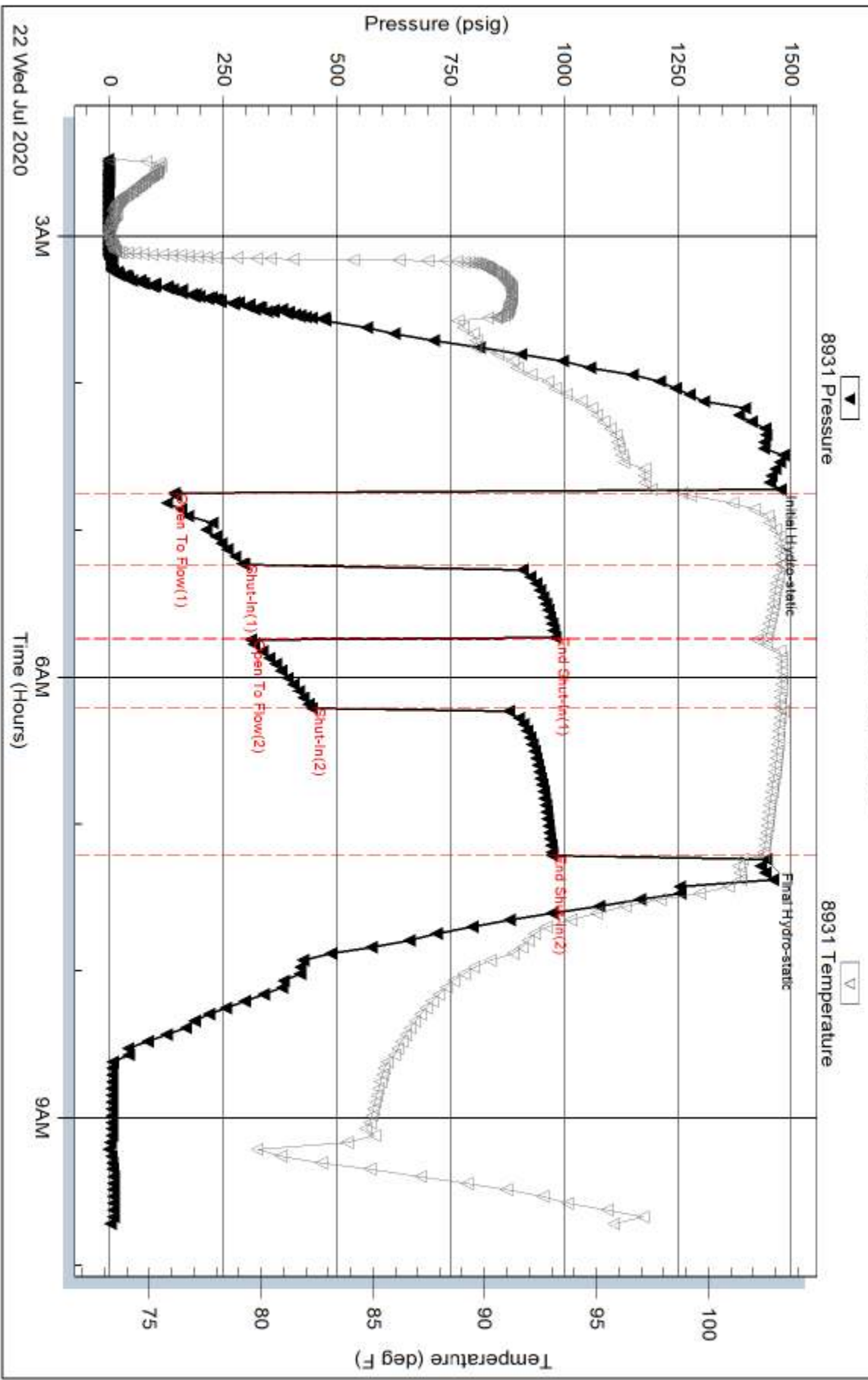
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .09 @ 75 Degrees = 80,000 Chlorides.

### Pressure vs. Time



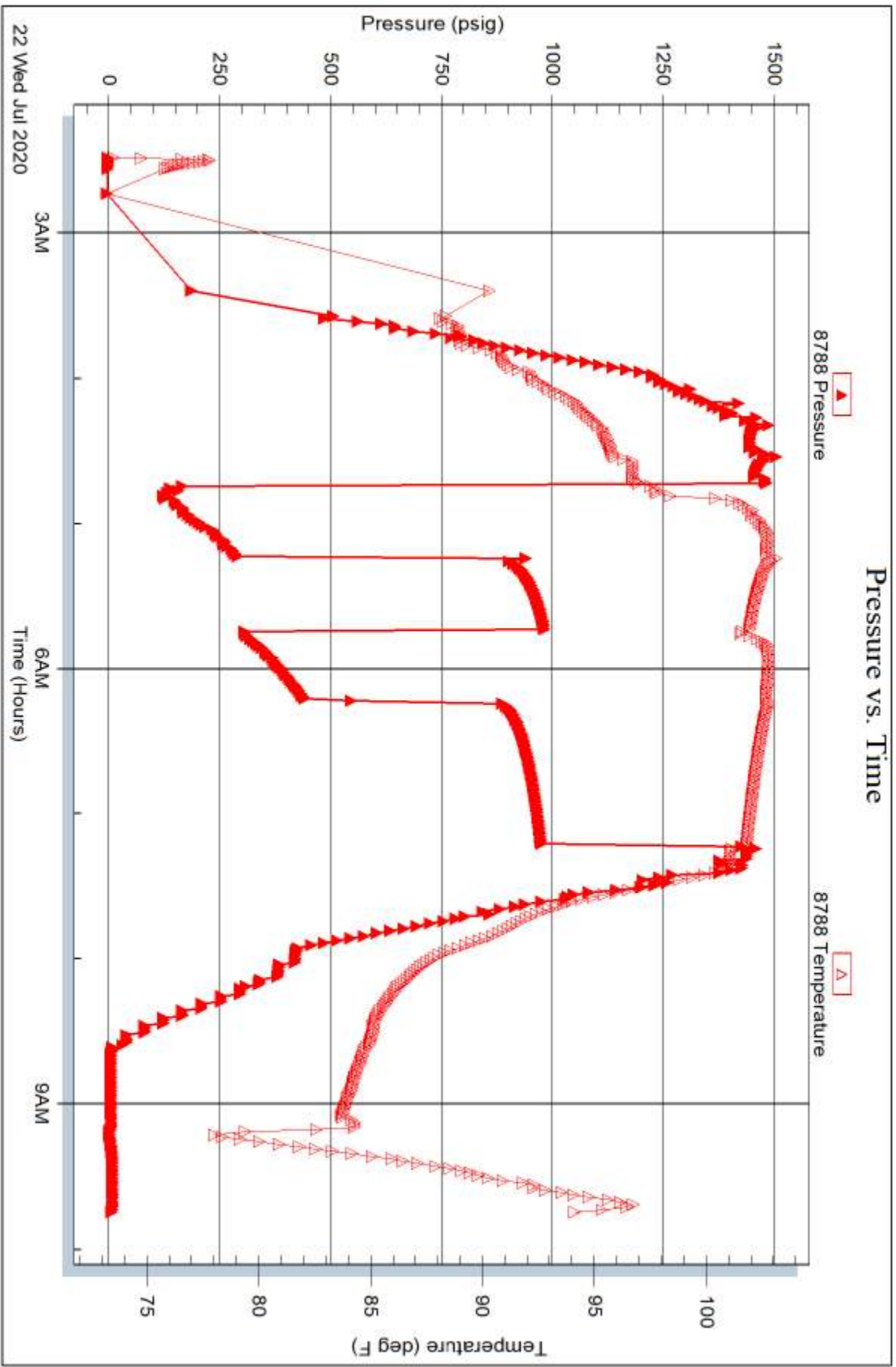


Serial #: 8788

Outside Woodsey Operating Company LLC

MIS A-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60655

Printed: 2020.07.22 @ 11:07:33

Woolsey Operating Company, LLC

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

Well Name: AP: MILLS A-1 15-007-24369-000
Location: Section 31 - Township 30 South - Range 14 West
License Number: 33168
Spud Date: July 18, 2020
Surface Coordinates: App C NW 1/4 SW 1/4 2200' FSL & 725' FWL
Bottom Hole Coordinates: 1763' K.B. Elevation (ft): 1776'
Ground Elevation (ft): 2600' To: 3980' Total Depth (ft): 3980'
Formation: Shawnee >>> Lansing
Type of Drilling Fluid: Chemical Mud
Printed by Mudlog from WellSight Systems 1-800-447-1534 www.WellSight.com

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

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

Surface Casing: Set 7 joints of new 8 5/8" X 23#/ft at 311' KB w/200 ex 60/40 poz (By HSI). Plug down at 7:30 am on July 19, 2020. Cement did circulate.
Production Casing: None ran

Deviation Surveys: 1/2 at 315', 1/2 at 796', 1/4 at 1199', 1/4 at 1802, 3/4 at 2303', 3/4 at 2804', 1 at 3152', 1/4 at 3980'
Pipe Strap @ 3152' Board: 3179.25', Strap: 3178.20', Strap 1.05' short. No correction was made to the board.
Duke Drilling Rig 7 Bit Record:
1) 12 1/4" RT RR in at 0' out at 315'
2) 7 7/8" Tauxex PL 516 (5 blade) in at 315', out at 3980' made 3665' in 61.75 hours, average 59' per hour.

Gas Detector: Pason Systems
Mud System: Chemical Mud, Mud-Co., Brad Bortz, Engineer
DS: Trilobite Testing, Matt Smith Tester
E-Logs: ELI Wireline, Dual Induction Laterolog w/SP, CNL-FDC w/PE, GR and Calliper. Jason Cappelucci, Engineer
Company Rep: Alan Dick

DST #1 Emporia, 3100'-3152': 30"-30'-30'-60". SB BOB both flow periods, (150, 20%G, 5%M, 60%W), 1, 189' GVSMCW (10%G, 25%O, 3%M, 85%W), 4, 41' 140=294, ICP 980, FFP 310-443, FCP 974, FHP 1444, BHT 99 deg, Fluid API Rw .09 at 75 deg, Chl fluids were 80,000 ppm

DST #2 Rec: 2155' GIP 315' GONCVC OSMCW (3%M, 97%W), IHP 1452, FFP 140=294, ICP 980, FFP 310-443, FCP 974, FHP 1444, BHT 99 deg, Fluid API Rw .09 at 75 deg, Chl fluids were 80,000 ppm

Tim Arel, Tool Pusher
Charles Stout, Morning
Scott Edwards, Days
Steven "Skippy" Green, Evening
Uncle Joe Livingston, Drilling Supt.

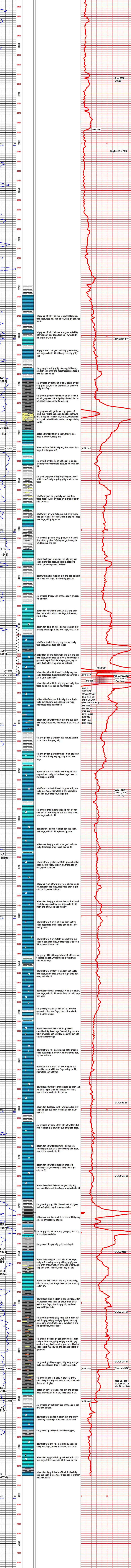
ROCK TYPES table with columns for various rock types and their corresponding symbols.

ACCESSORIES table with columns for various accessories and their corresponding symbols.

MINERAL table with columns for various mineral types and their corresponding symbols.

FOSSIL table with columns for various fossil types and their corresponding symbols.

TEXTURE table with columns for various texture types and their corresponding symbols.



Woolsey Operating Company, LLC
Mills A-1
App C NW 1/4 SW 1/4
Sec 31-T30S-Rge 14W
Barber County, Kansas
Field: Mulberry
GL: 1763' KB: 1776'
API# 15-007-24369-000