

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	MCCLAREN 1
Doc ID	1383923

All Electric Logs Run

Comp Density/Comp Neutron PE
Dual Induction
Micro
Sonic

BASIC

energy services, L.P.

TREATMENT REPORT

Customer WOOLSEY OPERATING CO. Lease No. _____ Date 12-19-2017
 Lease MCCOY Well # 1
 Field Order # 16255 Station PRATT, Ks. Casing 13 3/8" Depth 289' County KIOWA State Ks
 Type Job 13 3/8" C.P. Surface Csg Formation _____ Legal Description 33-305-18W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <u>13 3/8" x 48</u>	Tubing Size <u>48</u>	Shots/Ft <u>CMT</u>		Acid <u>275 SK Common</u>	Rate <u>2% CC</u>	Press <u>14 CF</u>	ISIP
Depth <u>268'</u>	Depth	From	To	Pre Pad <u>(21.20 LFT³)</u>	Max		5 Min.
Volume <u>42 BBL</u>	Volume	From	To	Pad	Min		10 Min.
Max Press <u>750</u>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <u>S.V.</u>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <u>248'</u>	Packer Depth	From	To	Flush <u>39 BBL</u>	Gas Volume		Total Load

Customer Representative ALLAN DICK Station Manager J. WESTERMAN Treater K. LESLEY
 Service Units

<u>78868</u>	<u>84980</u>	<u>20980</u>	<u>19960</u>	<u>19860</u>
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 Driver Names

<u>LESLEY</u>	<u>MARQUEZ</u>	<u>WHEATLEY</u>
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Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
4:30 AM	12-20-17				ON LOCATION - SAFETY MEETING
10:15 AM					RUN 8 JTS. - 13 3/8" x 48# CSG
12:00 PM					CSG. WOULD NOT GO DOWN HOLE
3:00 PM					PULL 3 JTS. CSG. OUT / REEM OUT HOLE
1:30 AM	12-21-17				ATTEMPT TO RUN CSG. AGAIN
4:30 AM					CSG. ON BOTTOM
4:55 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
5:35 AM	200		10	5	H ₂ O AHEAD
5:40 AM	100		59	5	MIX 275 SKS COMMON @ 15.6 PPG
5:52 AM	50		0	5	START DISPLACEMENT
5:59 AM	100		35	4	SLOW RATE
6:00 AM	150		39	3	CMT. @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 10 BBL TO PIT
JOB COMPLETE, THANKS - KEVEN LESLEY					

Customer <i>WOOLSEY OPERATING</i>	Lease No.	Date <i>12/21/17</i>
Lease <i>MCCAREN</i>	Well # <i>1</i>	12/21/18
Field Order # <i>160256</i>	Station <i>PRATT, KS.</i>	Casing <i>8 5/8"</i>
		Depth <i>1500'</i>
Type Job <i>1400' 8 5/8" S.P. Intermediate Csg.</i>	Formation	County <i>KIOWA</i>
		State <i>Ks.</i>
		Legal Description <i>33-305-18W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <i>8 5/8" x 23#</i>	Tubing Size	Shots/Ft	<i>CMT.</i>	Acid <i>125 SK Common</i>	<i>w/3% CL</i>	RATE	PRESS <i>10.5 CF</i>
Depth <i>1476'</i>	Depth	From	To	Pre Pad <i>@ 1.21 CU FT</i>	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1000</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>1434'</i>	Packer Depth	From	To	Flush <i>93 BBL</i>	Gas Volume		Total Load

Customer Representative <i>ALAN DICK</i>	Station Manager <i>J. WESTERMAN</i>	Treater <i>K. LESLEY</i>
Service Units <i>86531</i>	<i>84981</i>	<i>19843</i>
<i>19959</i>	<i>19918</i>	
Driver Names <i>LESLEY</i>	<i>FRANKLIN</i>	<i>CLYMER</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:30 AM	<i>1-2-18</i>				<i>ON LOCATION SAFETY MEETING</i>
8:45 PM					<i>RUN 35 JTS. 8 5/8" x 23# CSG.</i>
					<i>BASKET - #1</i>
					<i>CENTRALIZER - #1</i>
11:00 PM					<i>CSG. ON BOTTOM</i>
11:15 PM					<i>HOOK UP TO CSG. / BREAK CIRC. W/ RIG</i>
2:50 AM	<i>300</i>		<i>5</i>	<i>5</i>	<i>H2O AHEAD</i>
2:55 AM	<i>250</i>		<i>27</i>	<i>5</i>	<i>MIX 125 SKS. COMMON @ 15.6 PPG</i>
3:00 AM					<i>SHUT DOWN - DROPT. R. PLUG</i>
3:10 AM	<i>0</i>		<i>0</i>	<i>5</i>	<i>START DISPLACEMENT</i>
3:27 AM	<i>500</i>		<i>85</i>	<i>4</i>	<i>SLOW RATE</i>
3:30 AM	<i>600</i>		<i>93</i>	<i>3</i>	<i>PLUG DOWN</i>
					<i>CIRC. THRU JIB</i>
					<i>Ⓞ</i>
					<i>JOB COMPLETE,</i>
					<i>THANKS +</i>
					<i>KEVEN LESLEY</i>

Customer <i>Wootse, Operating Co</i>	Lease No.	Date <i>1/11/18</i>	
Lease <i>M'Carren</i>	Well # <i>1</i>		
Field Order # <i>16357</i>	Station <i>Pratt KS</i>	Casing <i>4" P.P.</i>	Depth <i>1530</i>
Type Job <i>Plug to Abandon</i>		Formation <i>242</i>	Legal Description
		County <i>Kiowa</i>	State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4" P.P.</i>				Pre Pad	Max		5 Min.	
Depth <i>1530'</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>1530'</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>500</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>4"</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative <i>Allen Dick</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Scott Graves</i>
Service Units <i>96817 78982 86779 70959 19967</i>		
Driver Names <i>Scott McCarren Dillon</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:30</i>					<i>On Location Safety Meeting P. 90</i>
<i>6:59</i>	<i>220</i>			<i>5</i>	<i>Pump H2O 1530'</i>
<i>7:02</i>	<i>260</i>		<i>15</i>	<i>5</i>	<i>Start Cement 80sks 60/40 P02</i>
<i>7:07</i>	<i>140</i>		<i>20.37</i>	<i>5</i>	<i>Start Displacement</i>
<i>7:10</i>	<i>0</i>		<i>11.8</i>	<i>0</i>	<i>Shut down</i>
					<i>770'</i>
<i>8:06</i>	<i>120</i>			<i>5</i>	<i>Pump H2O</i>
<i>8:07</i>	<i>120</i>		<i>3</i>	<i>5</i>	<i>Start Cement 50sks 60/40 P02</i>
<i>8:10</i>	<i>70</i>		<i>12.73</i>	<i>3</i>	<i>Start Displacement</i>
<i>8:10</i>	<i>0</i>		<i>1.0</i>	<i>0</i>	<i>Shut down</i>
					<i>60'</i>
<i>8:22</i>	<i>50</i>			<i>3</i>	<i>Start Cement 30sks 60/40 P02</i>
<i>8:25</i>	<i>0</i>		<i>7.64</i>	<i>0</i>	<i>Shut down Circulated</i>
					<i>Put hole</i>
<i>9:22</i>	<i>20</i>			<i>3</i>	<i>Start Cement 25sks 60/40 P02</i>
<i>9:25</i>	<i>0</i>		<i>6.36</i>	<i>0</i>	<i>Shut down</i>
					<i>Mouse hole</i>
<i>9:27</i>	<i>20</i>			<i>3</i>	<i>Start Cement 15sks 60/40 P02</i>
<i>9:30</i>	<i>0</i>		<i>3.82</i>	<i>0</i>	<i>Shut down</i>
					<i>wash up equipment</i>
					<i>Job Complete</i>



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company LLC
 125 N Market
 Suite 1000
 Wichita Kansas 67202+1729
 ATTN: Bill Klaver

33/30S/18W/Kiowa

McClaren #1

Job Ticket: 63267

DST#: 1

Test Start: 2018.01.04 @ 18:23:00

GENERAL INFORMATION:

Formation: **Lansing-Stanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:56:50

Time Test Ended: 02:04:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/106

Interval: **4398.00 ft (KB) To 4416.00 ft (KB) (TVD)**

Reference Elevations: 2151.00 ft (KB)

Total Depth: 4416.00 ft (KB) (TVD)

2139.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8653

Inside

Press@RunDepth: 91.00 psig @ 4399.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.04

End Date:

2018.01.05

Last Calib.:

2018.01.05

Start Time: 18:23:01

End Time:

02:04:10

Time On Btm:

2018.01.04 @ 20:55:00

Time Off Btm:

2018.01.05 @ 00:00:30

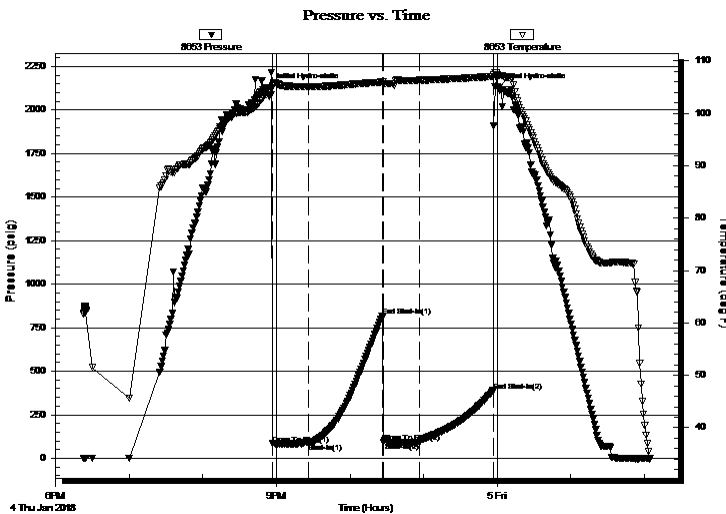
TEST COMMENT: I.F. 30 Minutes/ Tool slide 8 feet/ Blow at open 5 inch and built to 6 1/2 inch

I.S.I. 60 Minutes/ No blow back

F.F. 30 Minutes/ Dead no blow / Flush tool no help

F.S.I. 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.04	103.56	Initial Hydro-static
2	83.25	104.89	Open To Flow (1)
31	85.21	105.07	Shut-In(1)
92	815.01	105.96	End Shut-In(1)
92	91.11	105.52	Open To Flow (2)
122	91.00	106.31	Shut-In(2)
182	388.64	107.03	End Shut-In(2)
186	2127.92	107.24	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%	0.59

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company LLC
 125 N Market
 Suite 1000
 Wichita Kansas 67202+1729
 ATTN: Bill Klaver

33/30S/18W/Kiowa

McClaren #1

Job Ticket: 63267

DST#: 1

Test Start: 2018.01.04 @ 18:23:00

GENERAL INFORMATION:

Formation: **Lansing-Stanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:56:50

Time Test Ended: 02:04:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/106

Interval: **4398.00 ft (KB) To 4416.00 ft (KB) (TVD)**

Reference Elevations: 2151.00 ft (KB)

Total Depth: 4416.00 ft (KB) (TVD)

2139.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8737

Press@RunDepth: 390.92 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.04

End Date: 2018.01.05

Last Calib.: 2018.01.05

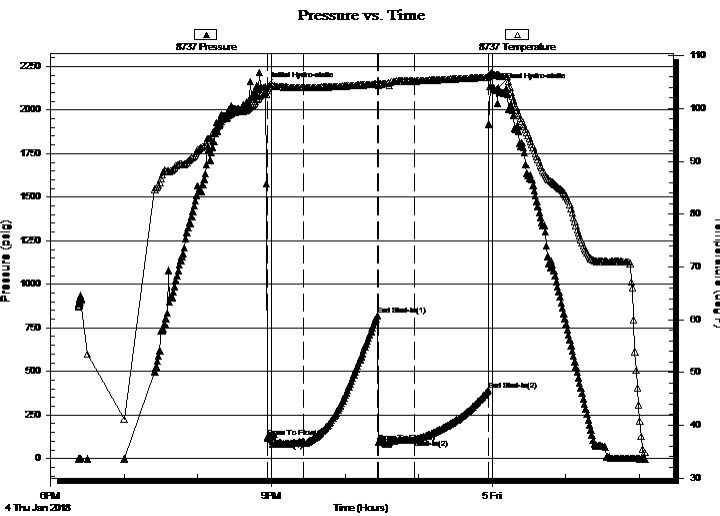
Start Time: 18:23:01

End Time: 02:04:10

Time On Btm: 2018.01.04 @ 20:55:00

Time Off Btm: 2018.01.05 @ 00:04:40

TEST COMMENT: I.F. 30 Minutes/ Tool slide 8 feet/ Blow at open 5 inch and built to 6 1/2 inch
 I.S.I. 60 Minutes/ No blow back
 F.F. 30 Minutes/ Dead no blow / Flush tool no help
 F.S.I. 60 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.32	102.67	Initial Hydro-static
2	123.18	103.34	Open To Flow (1)
31	97.17	103.96	Shut-In(1)
92	821.37	104.64	End Shut-In(1)
92	93.00	104.37	Open To Flow (2)
122	108.62	105.22	Shut-In(2)
182	390.92	105.93	End Shut-In(2)
190	2127.44	106.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

33/30S/18W/Kiowa

125 N Market
Suite 1000
Wichita Kansas 67202+1729
ATTN: Bill Klaver

McClaren #1

Job Ticket: 63267

DST#: 1

Test Start: 2018.01.04 @ 18:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud 100%	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8653

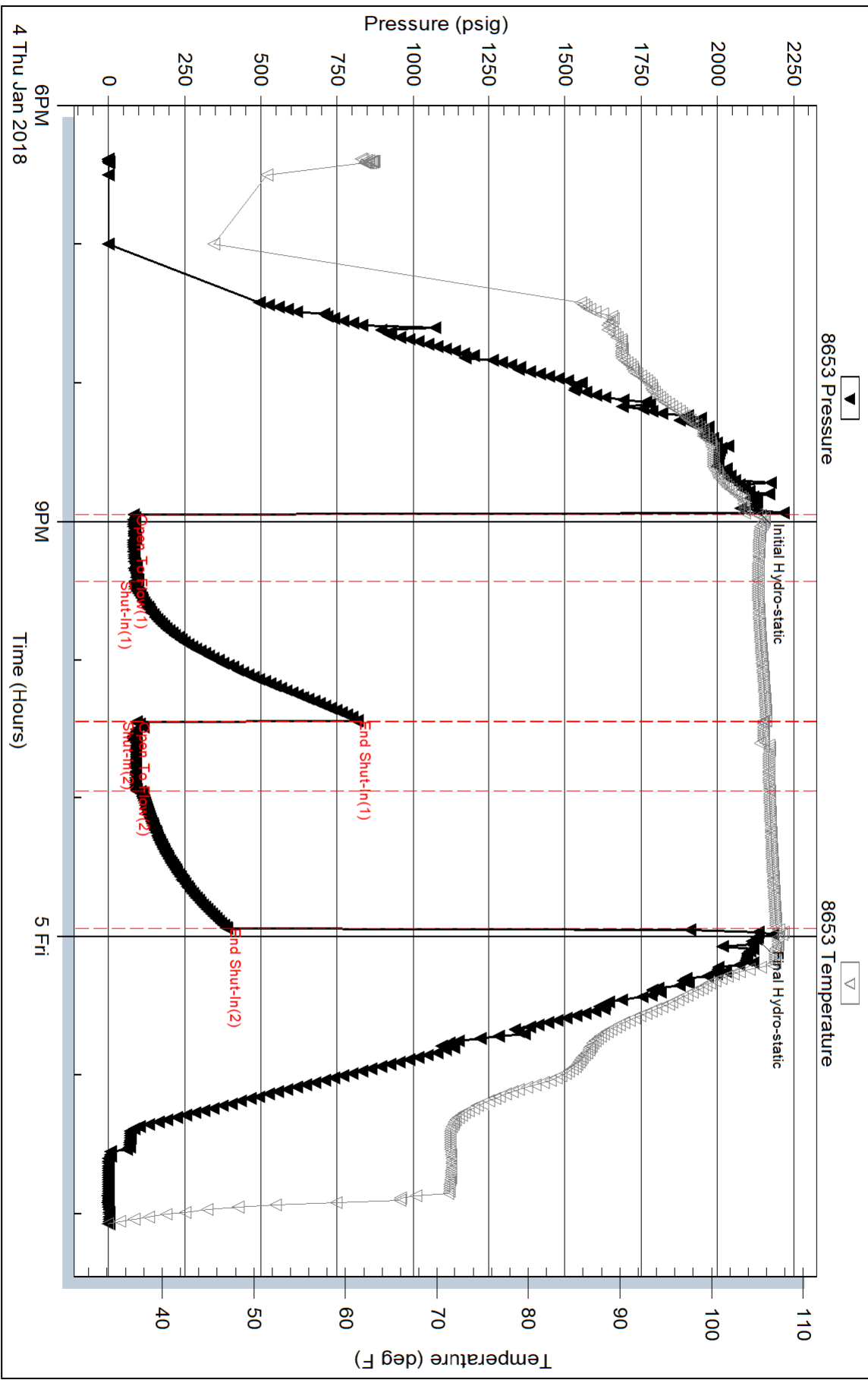
Inside

Woodsey Operating Company LLC

McClaren #1

DST Test Number: 1

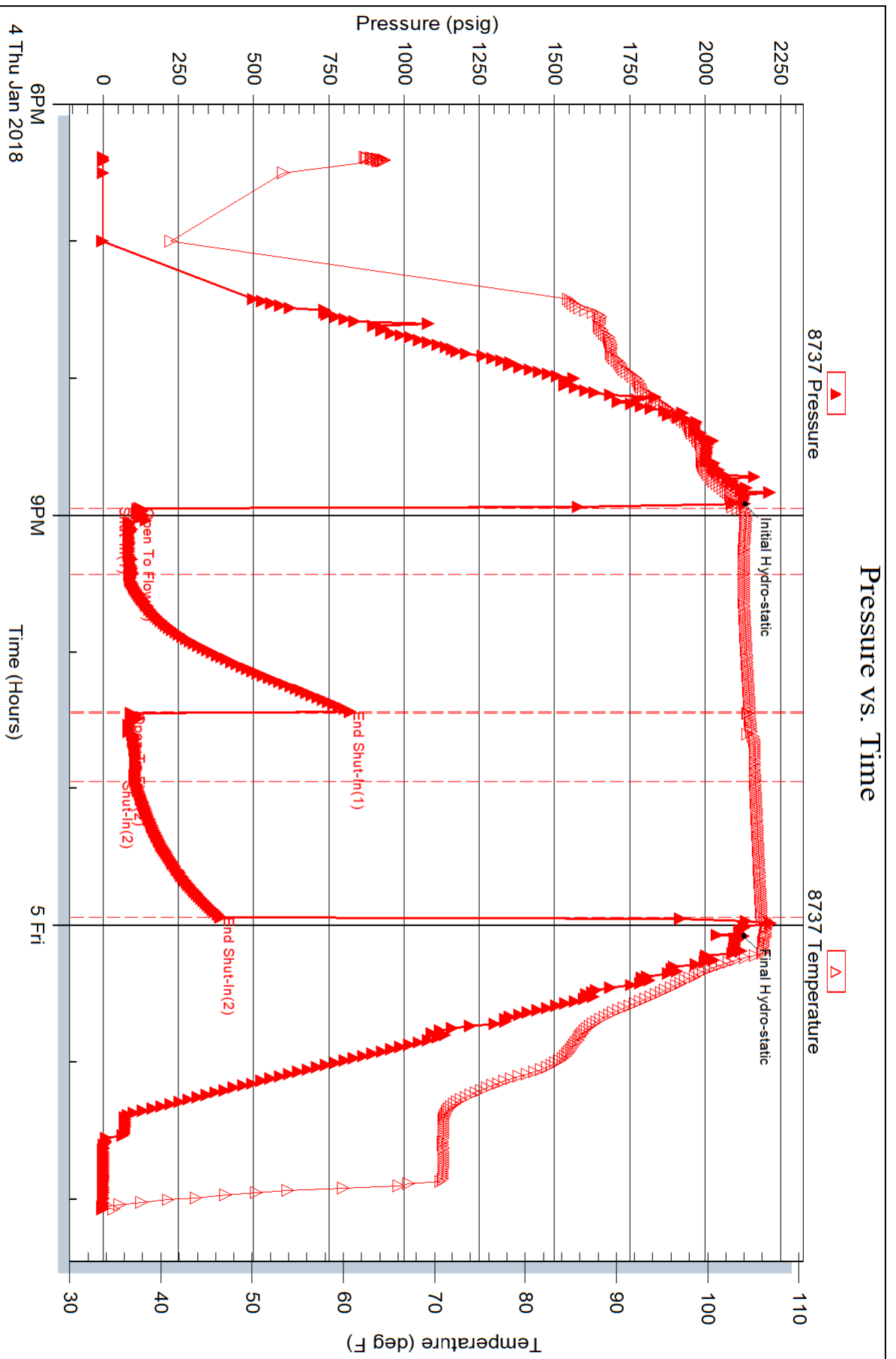
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63267

Printed: 2018.01.05 @ 07:00:37





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63646

DST#: 2

ATTN: Bill Klaver

Test Start: 2018.01.06 @ 15:59:37

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:52

Time Test Ended: 23:23:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4854.00 ft (KB) To 4900.00 ft (KB) (TVD)

Reference Elevations: 2151.00 ft (KB)

Total Depth: 4900.00 ft (KB) (TVD)

2139.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 28.01 psig @ 4855.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.06

End Date:

2018.01.06

Last Calib.:

2018.01.06

Start Time:

15:59:38

End Time:

23:23:22

Time On Btm:

2018.01.06 @ 18:17:52

Time Off Btm:

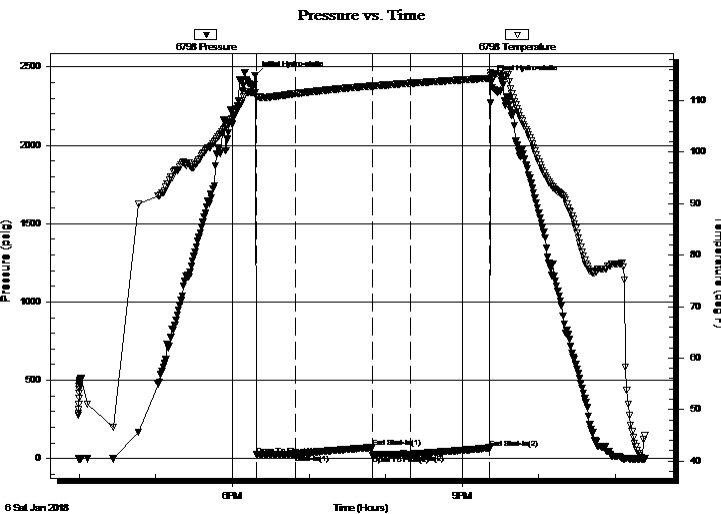
2018.01.06 @ 21:22:07

TEST COMMENT: IF: Weak Blow , Built to 1 3/4 inch

IS: No Blow Back

FF: Weak 1/4 inch Blow

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2446.95	111.53	Initial Hydro-static
1	24.11	110.71	Open To Flow (1)
32	27.91	111.39	Shut-In(1)
92	70.77	112.86	End Shut-In(1)
92	22.72	112.86	Open To Flow (2)
122	28.01	113.40	Shut-In(2)
184	68.46	114.36	End Shut-In(2)
185	2419.58	114.93	Final Hydro-static

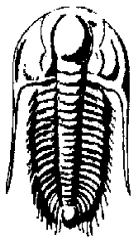
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63646

DST#: 2

ATTN: Bill Klaver

Test Start: 2018.01.06 @ 15:59:37

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:52

Time Test Ended: 23:23:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4854.00 ft (KB) To 4900.00 ft (KB) (TVD)

Total Depth: 4900.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2151.00 ft (KB)

2139.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6806 Outside

Press@RunDepth: psig @ 4855.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.06

End Date:

2018.01.06

Last Calib.:

2018.01.06

Start Time: 15:59:38

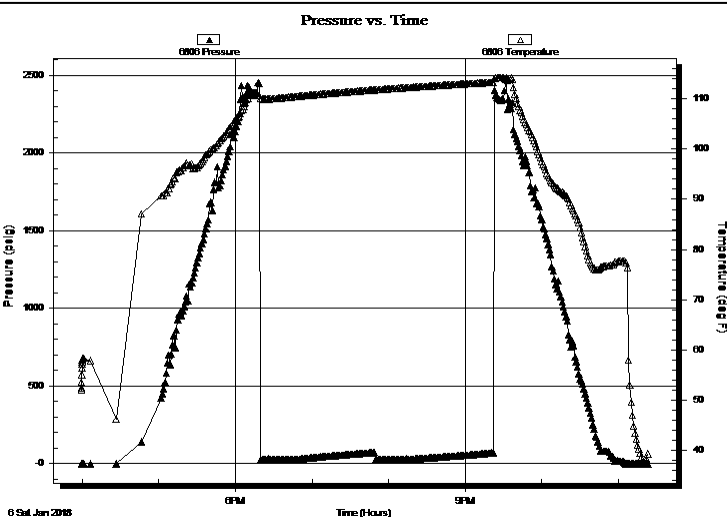
End Time:

23:23:37

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 1 3/4 inch
IS: No Blow Back
FF: Weak 1/4 inch Blow
FS: No Blow Back



PRESSURE SUMMARY

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

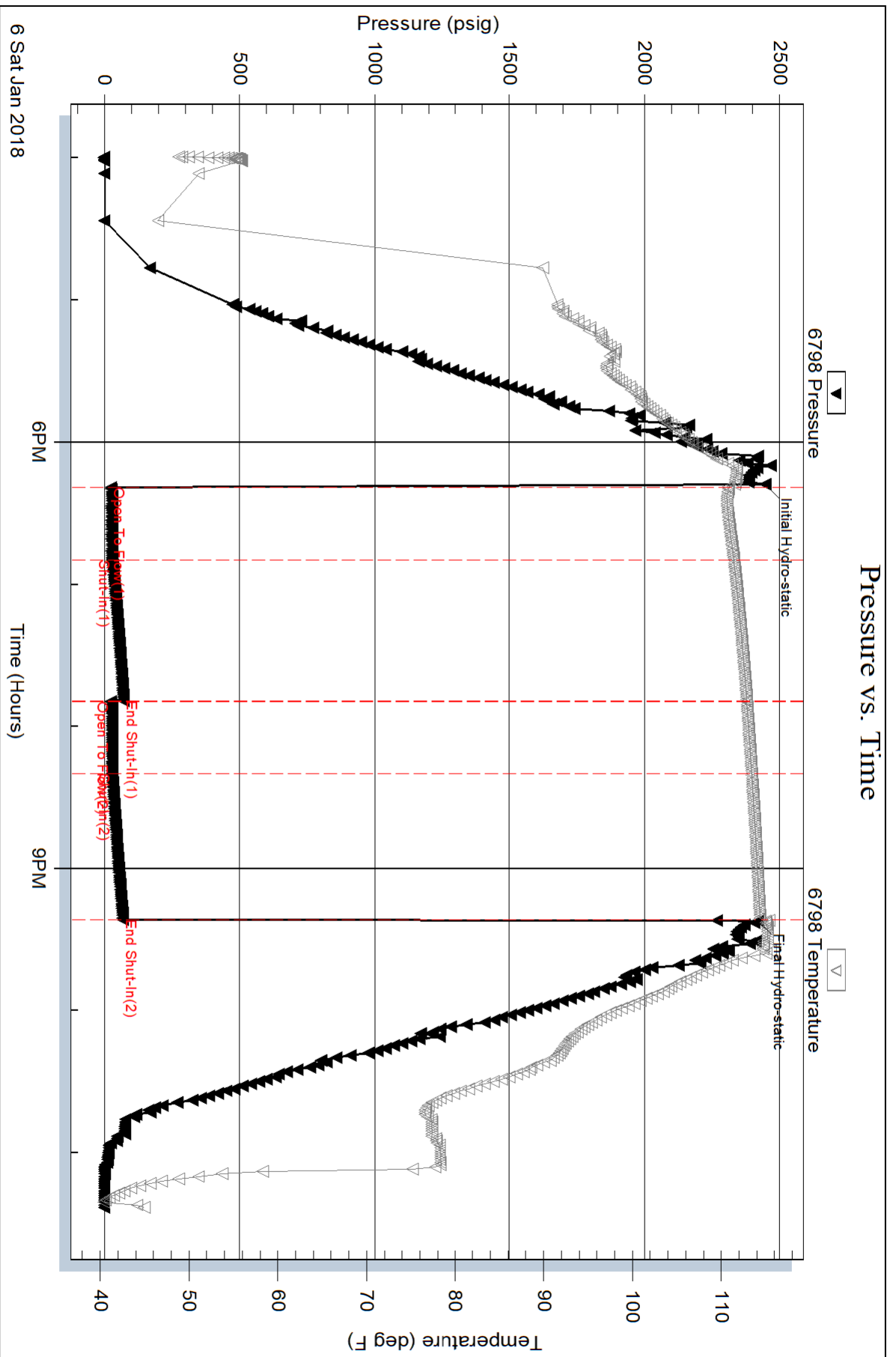
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

* Recovery from multiple tests

Gas Rates

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

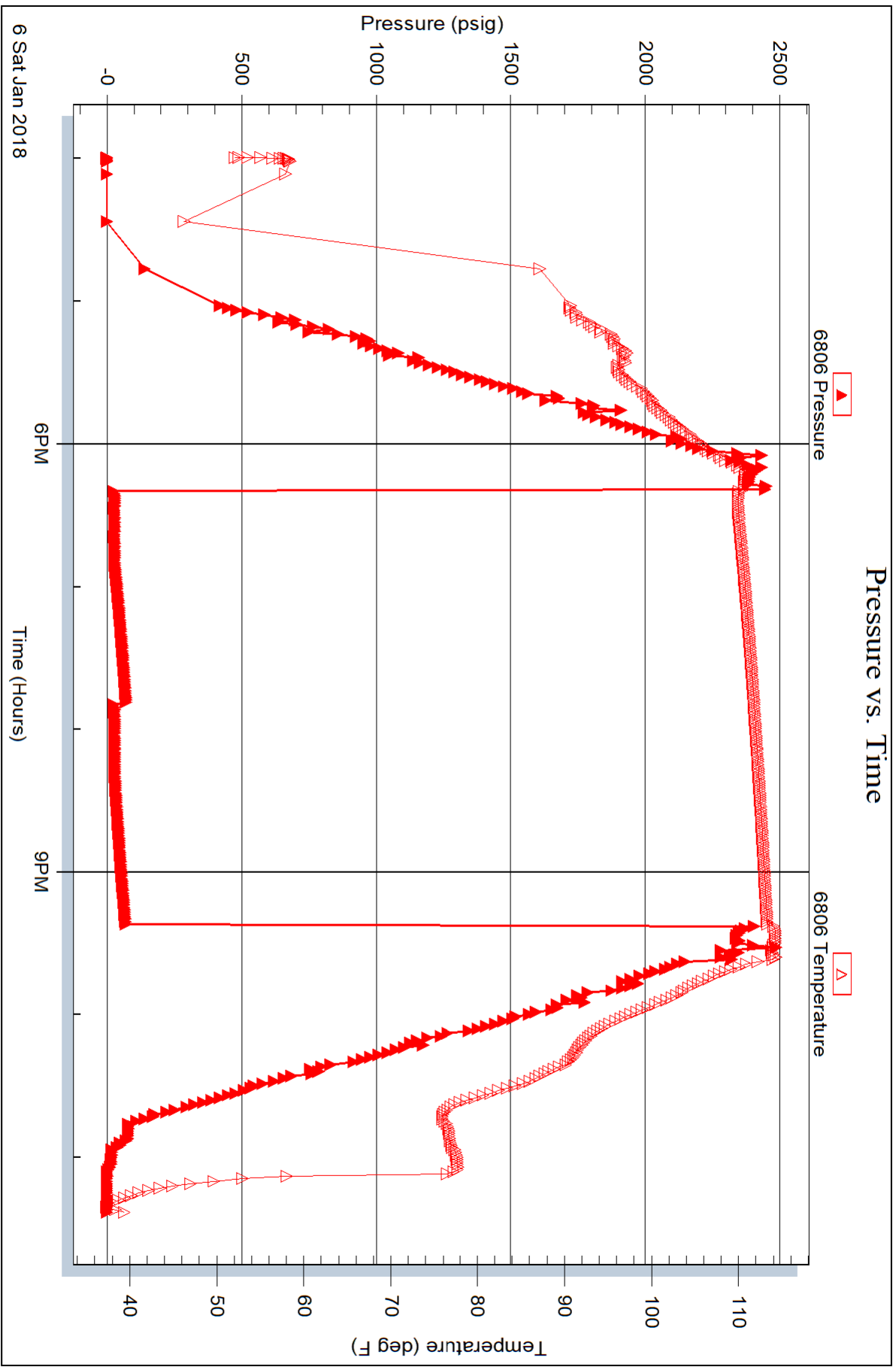


Serial #: 6806

Outside Woodsey Operating Company LLC

McClaren 1

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63647

DST#: 3

ATTN: Bill Klaver

Test Start: 2018.01.07 @ 19:15:33

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:03:48

Time Test Ended: 00:44:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 5028.00 ft (KB) To 5058.00 ft (KB) (TVD)

Reference Elevations: 2151.00 ft (KB)

Total Depth: 5058.00 ft (KB) (TVD)

2139.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6798 Inside

Press@RunDepth: psig @ 5029.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.07 End Date: 2018.01.08

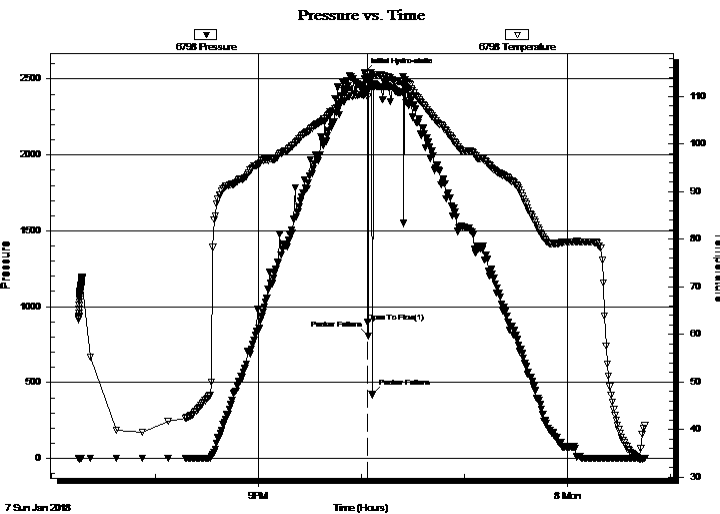
Last Calib.: 2018.01.08

Start Time: 19:15:34 End Time: 00:44:48

Time On Btm: 2018.01.07 @ 22:01:48

Time Off Btm: 2018.01.07 @ 22:24:18

TEST COMMENT: IF: Packer Failure, Tried To Reset, Still Failed, Pulled Test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2543.38	110.28	Initial Hydro-static
2	898.63	109.92	Open To Flow (1)
3	807.99	111.50	Packer Failure
5	425.48	114.07	Packer Failure
23	2516.98	113.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Mud	1.81

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63647

DST#: 3

ATTN: Bill Klaver

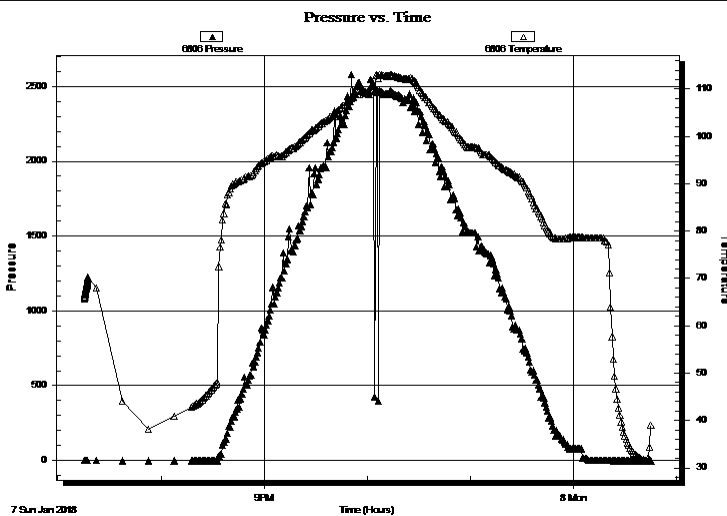
Test Start: 2018.01.07 @ 19:15:33

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:03:48
Time Test Ended: 00:44:48
Interval: **5028.00 ft (KB) To 5058.00 ft (KB) (TVD)**
Total Depth: 5058.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2151.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6806 Outside
Press@RunDepth: psig @ 5029.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.01.07 End Date: 2018.01.08 Last Calib.: 2018.01.08
Start Time: 19:15:34 End Time: 00:44:48 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Packer Failure, Tried To Reset, Still Failed, Pulled Test



PRESSURE SUMMARY

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

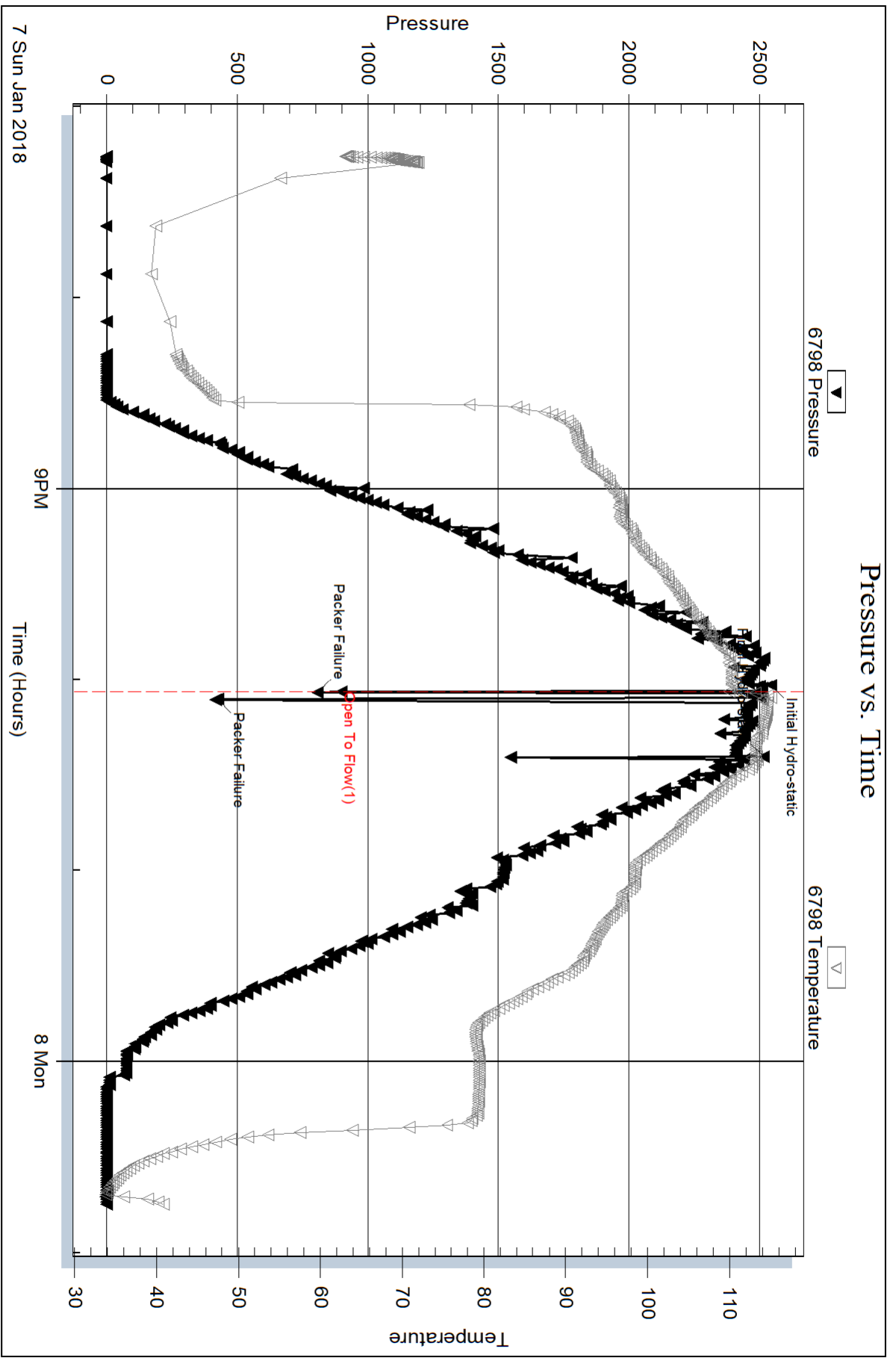
Recovery

Length (ft)	Description	Volume (bbl)
240.00	Mud	1.81

Gas Rates

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

* Recovery from multiple tests

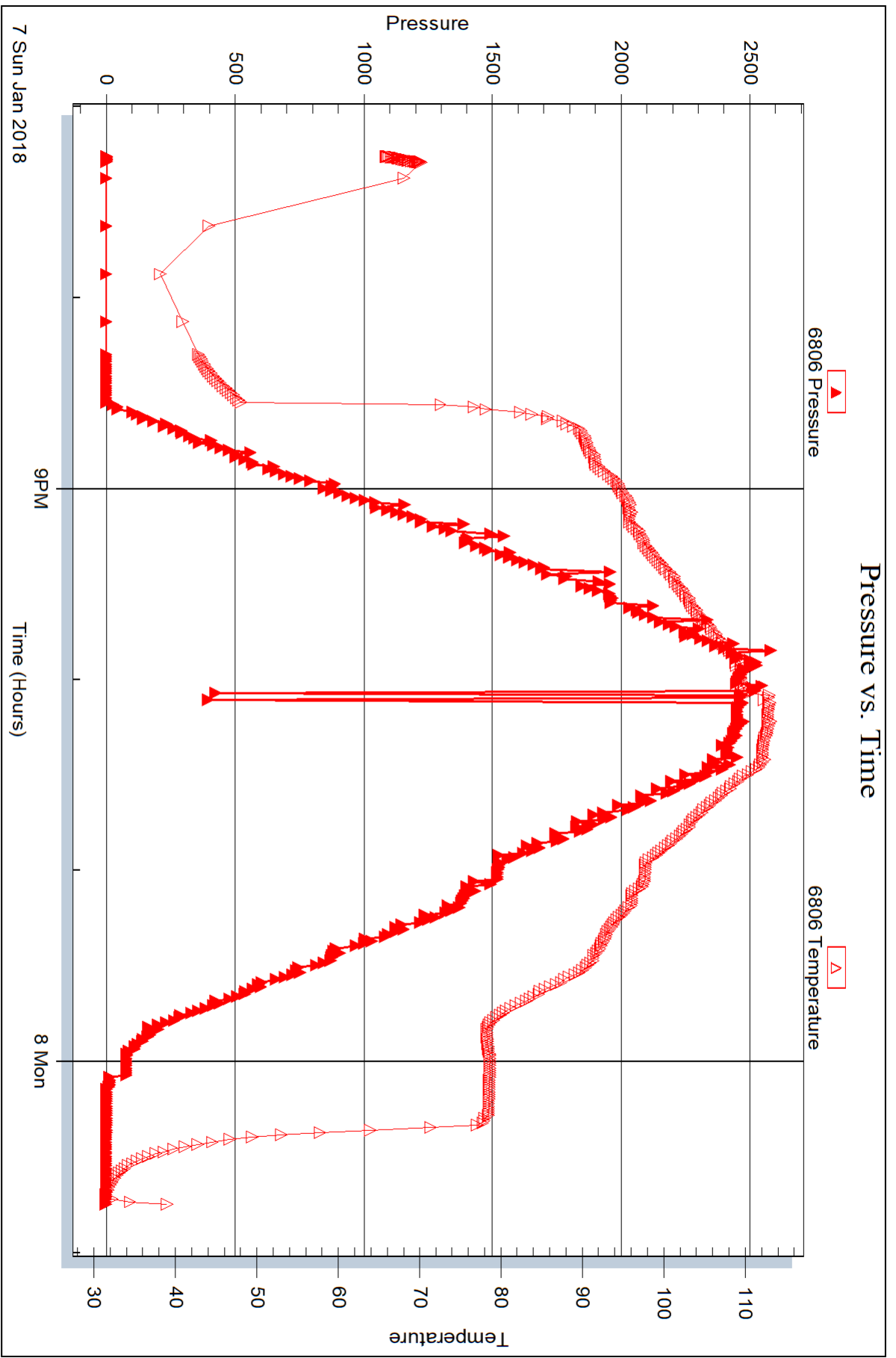


Serial #: 6806

Outside Woodsey Operating Company LLC

McClaren 1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63647

Printed: 2018.01.08 @ 07:15:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63648

DST#: 4

ATTN: Bill Klaver

Test Start: 2018.01.08 @ 07:03:43

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:22:58

Time Test Ended: 15:08:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4980.00 ft (KB) To 5058.00 ft (KB) (TVD)

Reference Elevations: 2151.00 ft (KB)

Total Depth: 5058.00 ft (KB) (TVD)

2139.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 88.70 psig @ 4981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.08

End Date:

2018.01.08

Last Calib.:

2018.01.08

Start Time:

07:03:44

End Time:

15:08:43

Time On Btm:

2018.01.08 @ 09:19:43

Time Off Btm:

2018.01.08 @ 12:55:28

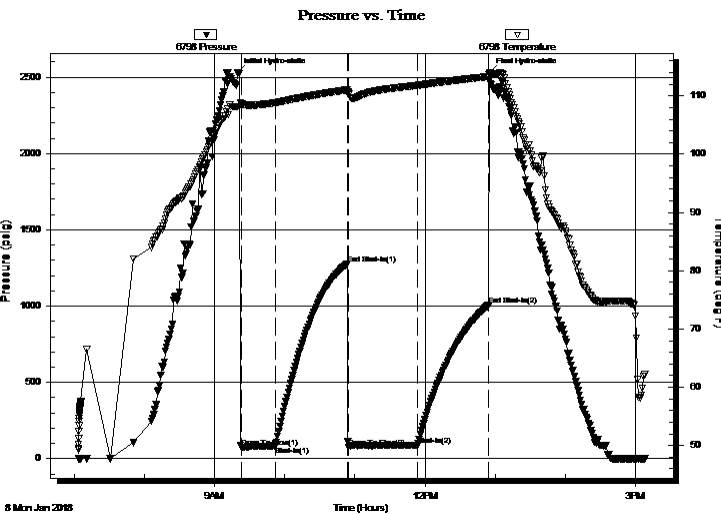
TEST COMMENT:

IF: Strong Blow , BOB in 4 minutes

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 12 minutes, TSTM, Caught Sample

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2531.86	108.18	Initial Hydro-static
4	71.65	108.63	Open To Flow (1)
33	83.50	108.82	Shut-In(1)
94	1276.53	111.03	End Shut-In(1)
95	75.57	110.60	Open To Flow (2)
154	88.70	111.80	Shut-In(2)
215	1007.30	113.30	End Shut-In(2)
216	2529.84	113.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
130.00	GCM 5%G 95%M	0.68

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63648

DST#: 4

ATTN: Bill Klaver

Test Start: 2018.01.08 @ 07:03:43

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:22:58

Time Test Ended: 15:08:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4980.00 ft (KB) To 5058.00 ft (KB) (TVD)

Reference Elevations: 2151.00 ft (KB)

Total Depth: 5058.00 ft (KB) (TVD)

2139.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6806

Outside

Press@RunDepth: psig @ 4981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.08

End Date: 2018.01.08

Last Calib.: 2018.01.08

Start Time: 07:03:44

End Time: 15:08:58

Time On Btm:

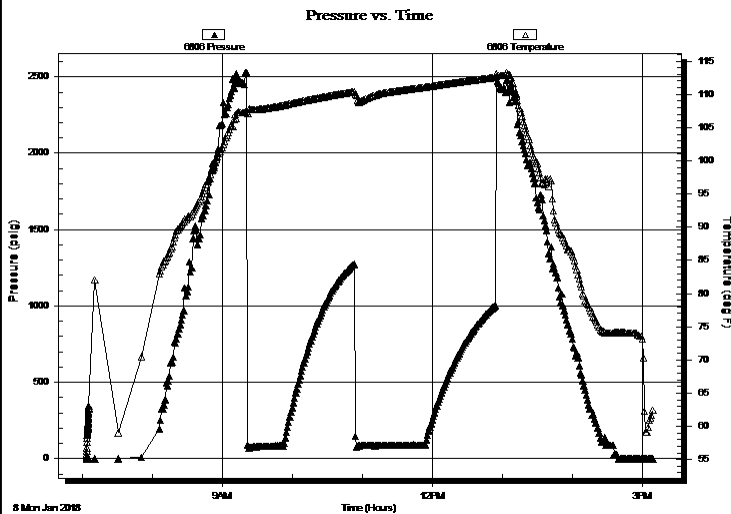
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 12 minutes, TSTM, Caught Sample

FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
130.00	GCM 5%G 95%M	0.68

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

33-30S-18W Kiowa

125 N Market Suite 1000
Wichita Kansas 67202

McClaren 1

Job Ticket: 63648

DST#: 4

ATTN: Bill Klaver

Test Start: 2018.01.08 @ 07:03:43

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
130.00	GCM 5%G 95%M	0.677

Total Length: 130.00 ft Total Volume: 0.677 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

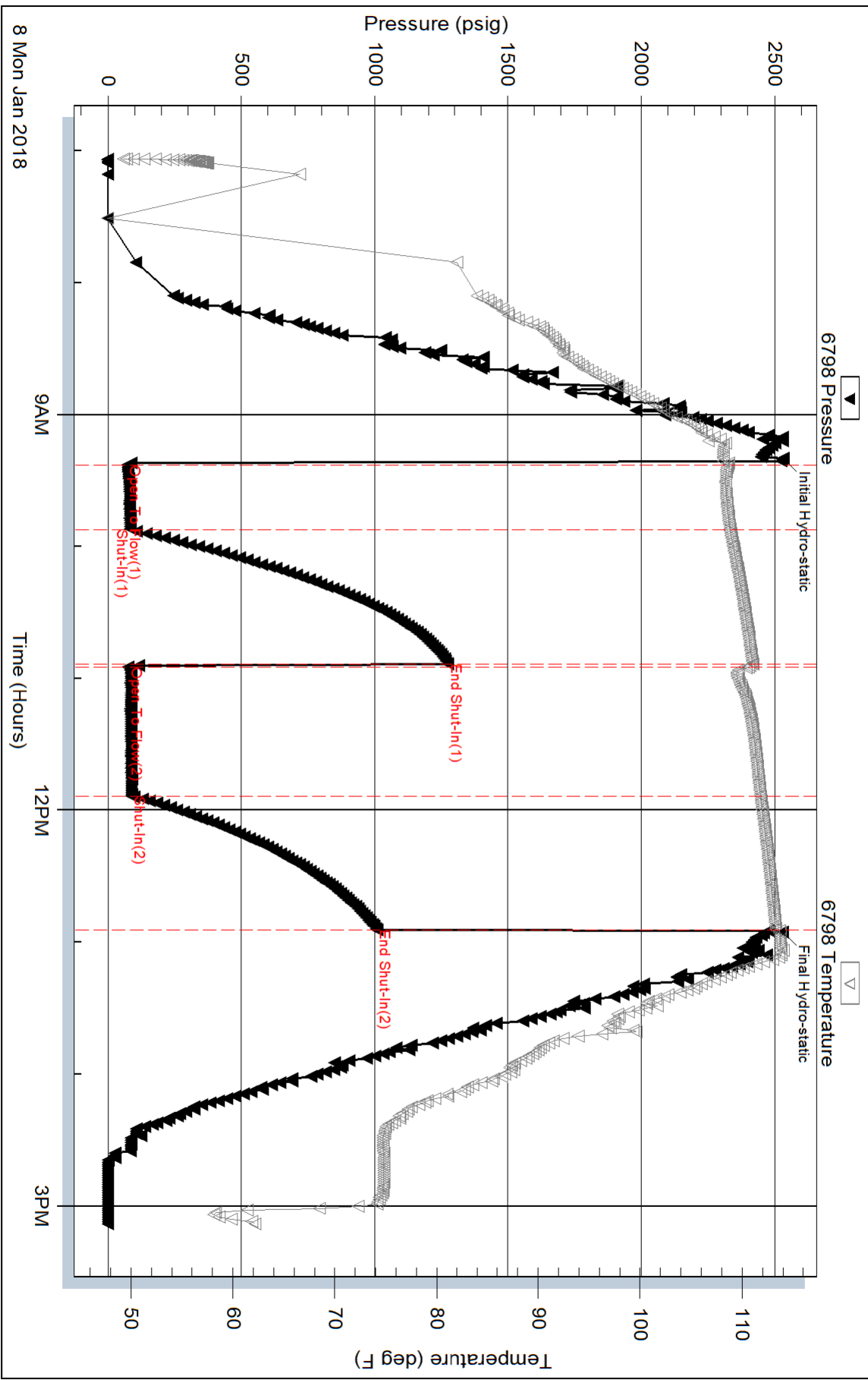
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

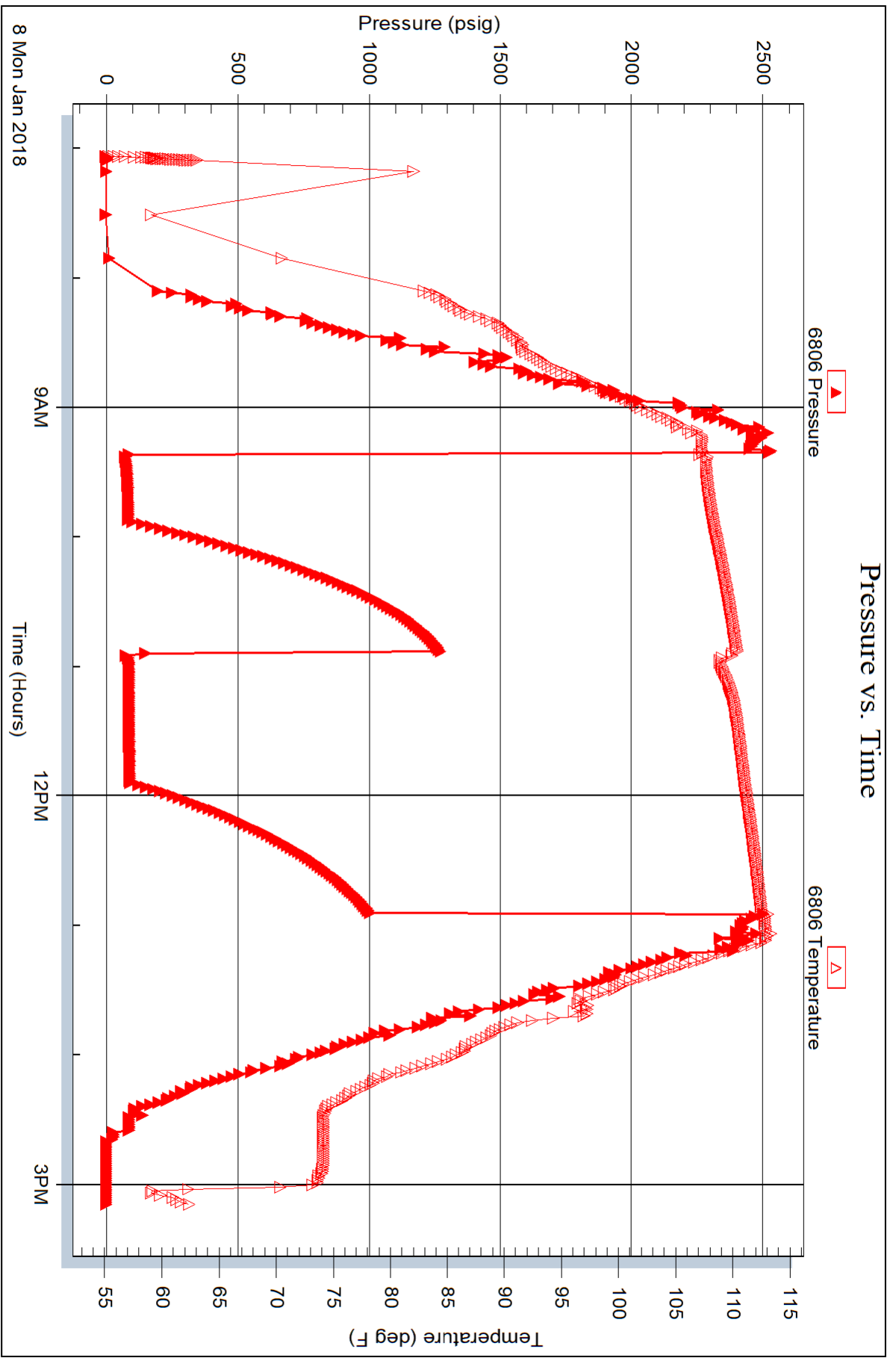


Serial #: 6806

Outside Woodsey Operating Company LLC

McClaren 1

DST Test Number: 4



Woolsey Operating Company, LLC

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

Well Name: **McCLAREN #1** Section: **Township S09N Range 18 West**
 Location: **15-097-2133-00-06** Section: **33** Range: **18** West: **Kiowa County Kansas**
 License Number: **15-097-2133-00-06** Section: **33** Range: **18** West: **Kiowa County Kansas**
 Spud Date: **December 19, 2017** Drilling Completed: **January 10, 2018**
 Surface Coordinates: **400' FSL & 400' FWL**
NE SW SW SW

Bottom Hole Coordinates: **2139'** K.B. Elevation (ft): **5541'**
 Ground Elevation (ft): **2139'** Logged Interval (ft): **3800'**
 Formation: **Topeka >>> Viola**
 Type of Drilling Fluid: **Chemical Mud**
 To: **5543'** Total Depth (ft): **5540'**

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

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

COMMENTS
 Surface Casing: Set 9 joints of new 13.38" 4.58Wt/cft casing at 289' K (tally 274') with 275 sx Common, 14# celloflake, 3% cc (by Basic) Plug down 5.35' ann on 12/21. Cement cid circulate. Set 35 Jts 8 5/8" X 23#/FT intermediate at 149'1" KB W/185 sx
 Production Casing: None, test was plugged as D/A
 Deviation Surveys: 3/4 at 290', 3/4 at 1065', 1/4 at 1566', 1/4 at 2100', 1/2 at 2803, 1/4 at 3104', 1/4 at 3606', 3/4 at 4290', 1/4 at 4416', Board: 4421.33' Strap: 4422.04', Strap .71' long.
 Fossil Drilling Rig 3 Bit Record:
 1) 17 1/2" RT in at 0' out at 21' 8.25 hours
 2) 7 7/8" RR in at 0' out at 290', with blade reamer 6 hours
 3) 7 7/8" Varel Tool Co. PDC in at 290' out at 5385'
 4) 12 1/4" Milltooth RR in at 290' out at 1476'
 5) 7 7/8" Varel HE 23 RR in at 5385' out at 5420'
 6) 7 7/8" Varel HE 21 in at 5420' out at 5540'

Gas Detector: Pason Systems
 Mud System: Mud-Co. Justin Whiting, Mud Engineer
 DSTs: Triobex Testing, Ken Swinney, Lead Cason, Testers
 E-Logs: ELI, Big Gus Franzenstiel, Engineer

DSTs
 DST #1 Lansing (Stanton) 4398'-4416', 30"-60"-30"-60", Fair 6" blow (tool sid 8" after opening), Rec: 130' mud, IHP 2130, IFF 83-85, ICP 815, FCP 388, FHP 2127, BHT 1105
 DST #2 Altamont, 4854'-4900', 30"-60"-30"-60", WB, Rec: 10' Mud, IHP 2447, IFF 24-28, ICP 71, FFP 23-28, FCP 68, FHP 2420, BHT 115
 DST #3 Mississippi, 4928'-5058', Misrun, packers failed, DP, Rec: 240' Mud
 DST #4 Mississippi, 5080'-5058', 30"-60"-60"-60", SB GTS 21' into FFP, Rec: 4853' GIP, 130' GCM (5%G, 95%M), IHP 2532, IFF 72-83, ICP 1276, FFP 76-89, FCP 1007, FHP 2530, BHT 1144 deg.

CREWS
 Daylights: Pablo Luma
 Evening: Gary Axtell
 Morning: Chris Statts

ROCK TYPES

Anhy	Shy dolo	Stst	Shale 1
Bent	Dol	Ss	Silty dol
Brec	Do	Black sh	Dol Imst
Chrt	Gyp	Gry sh	Sh
Chst	Gyp Imst	Shale	Dol 2
Coal	Mst	Shalyst	Granite wash
Congl	Salt	Shalyst	Lmst
Sdy dolo	Shale	Ss 2	Calc dol
			Shale 3

ACCESSORIES

Chlorite	Pelec	Grysh
Dol	Pellet	Gryslt
Sand	Pisolate	Lms
Sily	Plant	Sandylms
	Fern	Sh
	Fuss	Ststn
	Oomoldic	

TEXTURE

Bound
Chaiky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microdn
Mudst
Packet
Wackest

MINERAL

Anhy	Arg	Bent	Bit	Brecfrag	Calc	Carb	Chtdk	Chrt	Dol	Ferrel	Glau	Gyp	Mst	Nodule	Phos	Pyr	Salt	Sandy	Silt
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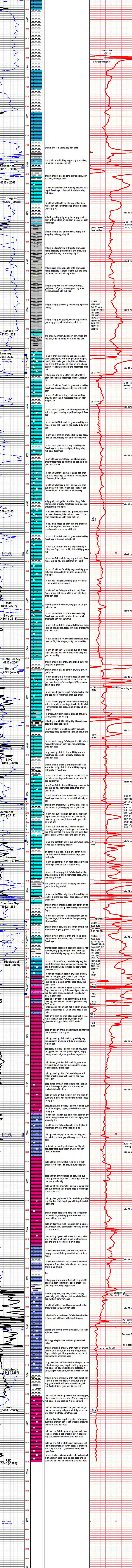
FOSSIL

Algae	Amph	Belm	Bioclst	Brach	Cephzoa	Coral	Crin	Echin	Fish	Forum	Fossil	Gastro	Ostra
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STRINGER

Anhy	Coalt	Dol	Ls	Mst	Ss	Ssstrg	Stst	Stststrg	Clyasn	Dol
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Curve Track 1
 ROP (in/hr)
 Gamma (API)



Woolsey Operating Company, LLC
 McClaren #1
 Sec 33 - Twp 38S - Rge 18W
 NE SW SW SW
 Kiowa County, Kansas
 API # 15-097-2133-00-06
 GL: 2139' KB 2151'