

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: Woolsey Operating Company	Well: Farney B-1	Ticket: WP1085
City, State:	County: Barber, Kansas	Date: 1/13/2021
Field Rep: Allen Dick	S-T-R: 34-33s-12w	Service: Cement - Surface

Downhole Information	Calculated Slurry - Lead	Calculated Slurry - Tail
Hole Size: 14.75 in	Blend:	Blend: 60:40:2 + 3% CC + 1/4# C/F
Hole Depth: 228 ft	Weight: ppg	Weight: 14.8 ppg
Casing Size: 10 3/4 in	Water / Sx: gal / sx	Water / Sx: 5.2 gal / sx
Casing Depth: 223 ft	Yield: ft³ / sx	Yield: 1.21 ft³ / sx
Tubing / Liner: in	Annular Bbls / Ft.: bbs / ft.	Annular Bbls / Ft.: bbs / ft.
Depth: ft	Depth: ft	Depth: ft
Tool / Packer:	Annular Volume: 0.0 bbls	Annular Volume: 0 bbls
Tool Depth: ft	Excess:	Excess:
Displacement: 19.9 bbls	Total Slurry: 0.0 bbls	Total Slurry: 48.5 bbls
	Total Sacks: #DIV/0! sx	Total Sacks: 225 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
3:15 AM			-	-	On location - spot equipment - job and safety - rig up
					Run 10 3/4" casing and break circulation with rig
					Rig up to cement pump
7:00 AM					Start fresh water via casing
			5.0	5.0	Fresh water in - start cement
			48.5	53.5	Cement in - start displacement
			10.0	63.5	Cement circulates
7:30 AM			9.9	73.4	Displacement in - stop pump - close valve on casing
				73.4	
				73.4	
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CREW	UNIT	SUMMARY		
Cementer: Mark Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator: Riley Osborn	179-522	#DIV/0! bpm	#DIV/0! psi	73 bbls
Bulk #1: Ron Gilley	527-533			
Bulk #2: Kevin Brungardt	913			



CEMENT TREATMENT REPORT					
Customer:	Woolsey Operating Company,LLC	Well:	Farney B-1	Ticket:	wp1122
City, State:		County:	Barber Kanasa	Date:	1/24/2021
Field Rep:		S-T-R:	34 33s 12w	Service:	longstring

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	h plug	Blend:	H-LD
Hole Depth:	5247 ft	Weight:	13.7 ppg	Weight:	15 ppg
Casing Size:	5 1/2 in	Water / Sx:	6.9 gal / sx	Water / Sx:	5.9 gal / sx
Casing Depth:	5217 ft	Yield:	1.43 ft ³ / sx	Yield:	1.49 ft ³ / sx
Tubing / Liner:	in	Annular Bbbs / Ft.:	bbs / ft.	Annular Bbbs / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbbs	Annular Volume:	0 bbbs
Tool Depth:	ft	Excess:		Excess:	
Displacement:	123.0 bbbs	Total Slurry:	12.0 bbbs	Total Slurry:	46.0 bbbs
		Total Sacks:	50 sx	Total Sacks:	175 sx

TIME	RATE	PSI	STAGE TOTAL		REMARKS
			BBLs	BBLs	
3:00 AM			-	-	on location Job and safety
3:30 AM					start casing
					scratchers on joints 4,5,12,13
					turbolizers on joints 1,2,3,4,5,10,11,12,13,14
6:40 AM					on bottom rig up and circulate
7:30 AM					stop circulating
7:40am	1.0		4.9	4.9	plug rat hole
	1.0		3.0		plug mouse hole
7:50 AM					start cement via casing
			12.0	12.0	mix 50sacks scavenger
			46.0	46.0	mix tall cement mix 175 sacks of H-LD
8:25 AM					cement in and shut down pump
8:30 AM					wash pump and lines
8:35 AM					start displacement
	3.0		110.0		slow rate to 3bpm
9:00 AM	1.5	1,000.0	122.0		bump plug and shut down ...took from 1000psi to 1500psi
					release psi plug did hold

	CREW		UNIT	SUMMARY		
	Average Rate	Average Pressure		Total Fluid		
Cementer:	M Brungardt		916	1.6 bpm	1,000 psi	298 bbbs
Pump Operator:	R Osborn		179/522			
Bulk #1:	G Mclamore		181/533			
Bulk #2:						



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64507

DST#: 1

Test Start: 2021.01.18 @ 19:14:32

GENERAL INFORMATION:

Formation: **Cherokee/Congl.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:33:53

Time Test Ended: 05:26:37

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 4574.00 ft (KB) To 4674.00 ft (KB) (TVD)

Reference Elevations: 1550.00 ft (KB)

Total Depth: 4674.00 ft (KB) (TVD)

1537.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8367

Press@RunDepth: 64.17 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.01.18

End Date:

2021.01.19

Last Calib.:

2021.01.19

Start Time: 19:14:33

End Time:

05:26:37

Time On Btm:

2021.01.18 @ 22:31:38

Time Off Btm:

2021.01.19 @ 02:03:38

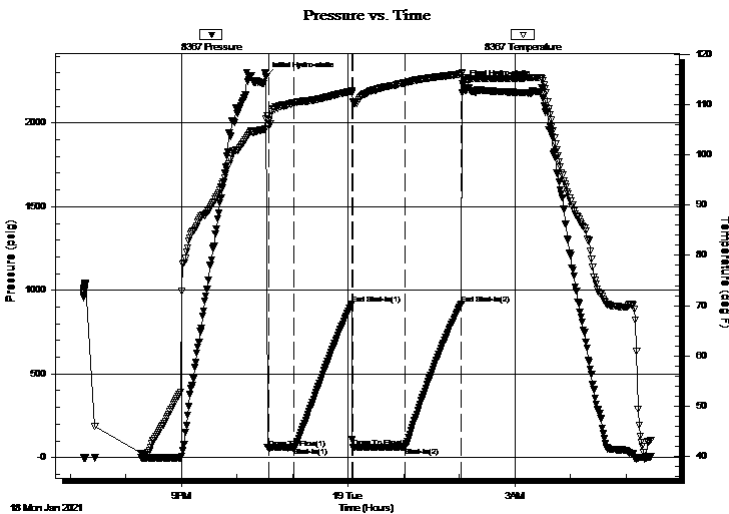
TEST COMMENT: 30- IF- BOB 12 mins. Built to 22.47"

60- IS- No blow

60- FF- BOB instantly. Built to 202.31"

60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.32	107.13	Initial Hydro-static
3	56.90	106.94	Open To Flow (1)
31	59.38	110.23	Shut-In(1)
93	918.31	112.65	End Shut-In(1)
94	61.33	110.47	Open To Flow (2)
150	64.17	114.24	Shut-In(2)
211	919.23	116.03	End Shut-In(2)
212	2233.24	115.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64507

DST#: 1

Test Start: 2021.01.18 @ 19:14:32

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 6800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M	0.425

Total Length: 30.00 ft Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

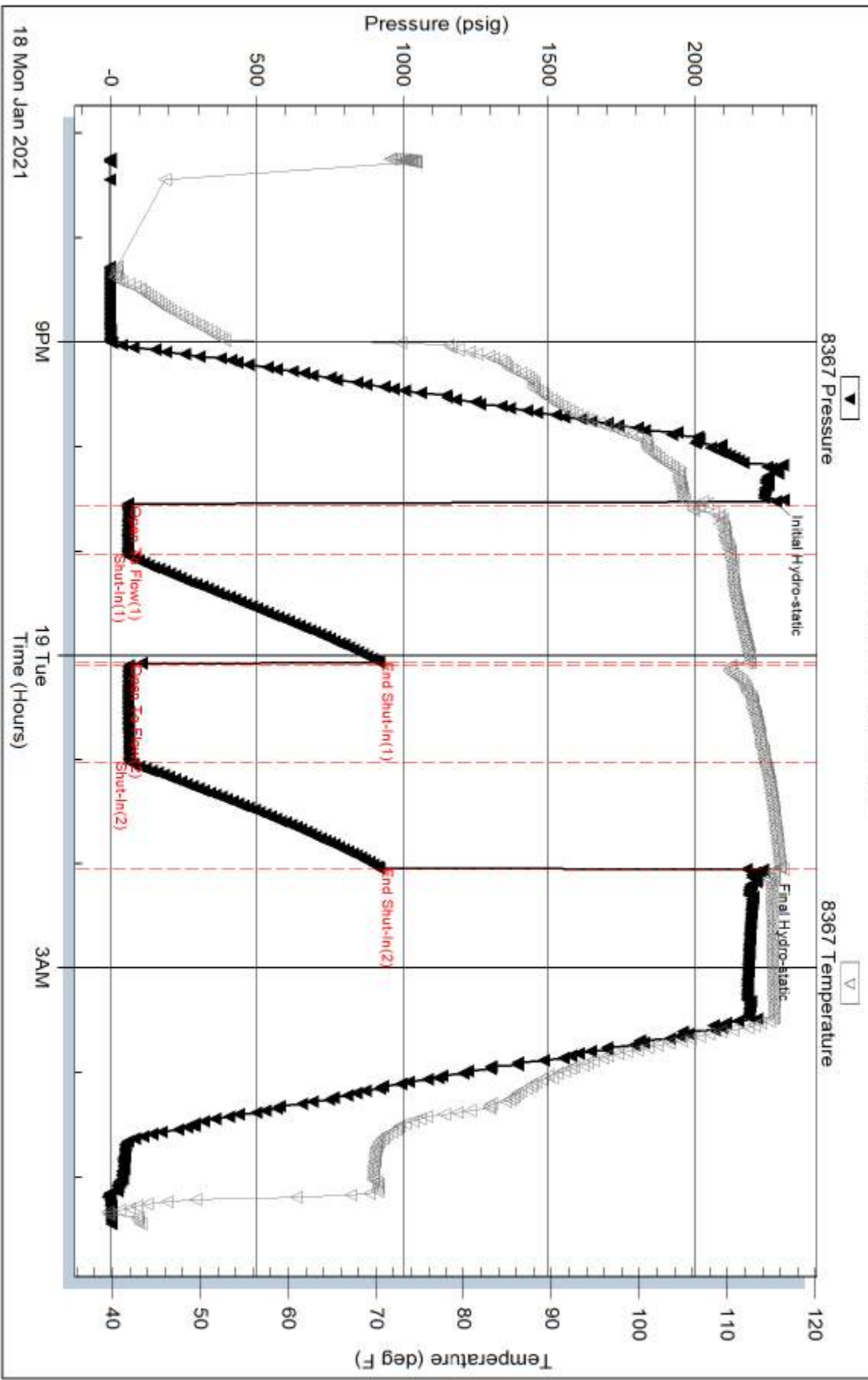
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 6771

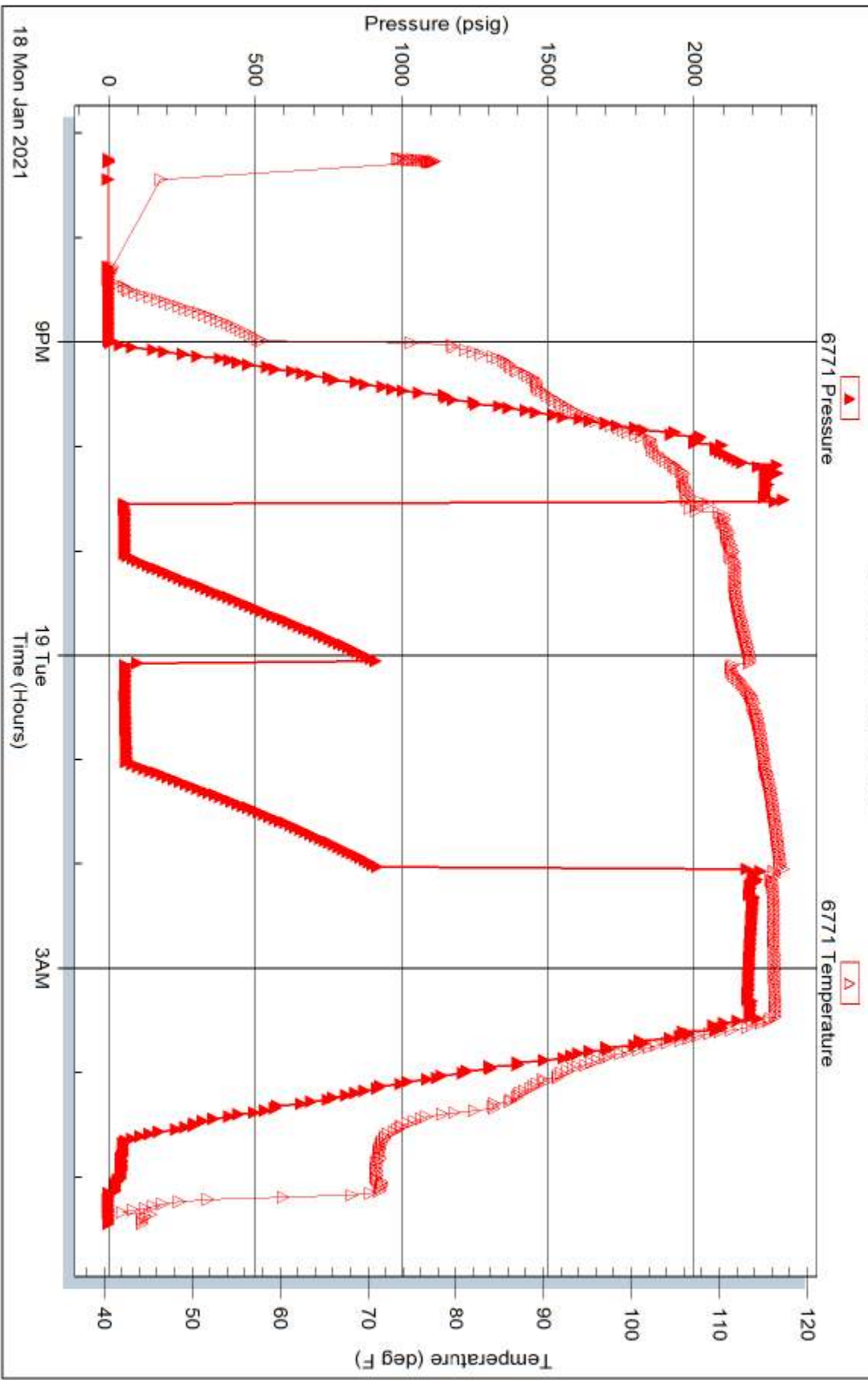
Inside

Woodsey Operating Company, LLC

Famey B #1

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64508

DST#: 2

Test Start: 2021.01.19 @ 16:00:46

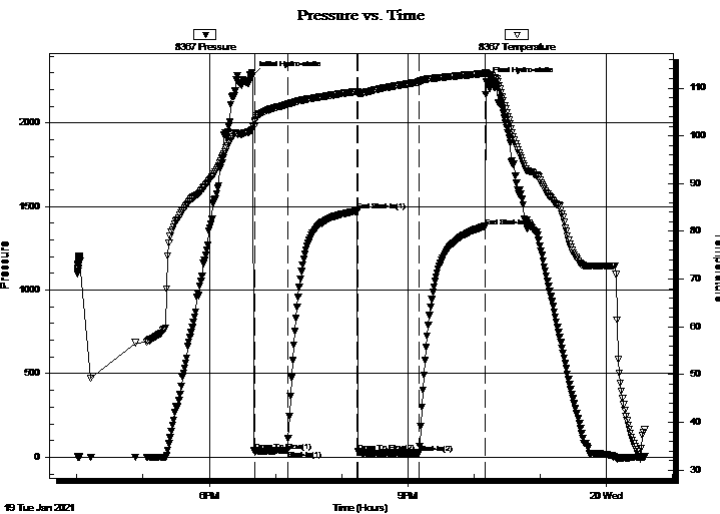
GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:41:22
 Time Test Ended: 00:34:36
 Interval: **4674.00 ft (KB) To 4709.00 ft (KB) (TVD)**
 Total Depth: 4709.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1550.00 ft (KB)
 1537.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8367

Press@RunDepth: 25.93 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.01.19 End Date: 2021.01.20 Last Calib.: 2021.01.20
 Start Time: 16:00:47 End Time: 00:34:36 Time On Btm: 2021.01.19 @ 18:39:52
 Time Off Btm: 2021.01.19 @ 22:11:07

TEST COMMENT: 30- IF- BOB 30 secs. Built to 333.34"
 60- IS- No blow
 60- FF- BOB instantly. Opened 2" to guage.
 60- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.83	102.11	Initial Hydro-static
2	33.07	102.90	Open To Flow (1)
31	43.57	106.55	Shut-In(1)
95	1472.07	109.30	End Shut-In(1)
95	32.00	108.90	Open To Flow (2)
151	25.93	111.25	Shut-In(2)
211	1381.43	113.06	End Shut-In(2)
212	2248.84	113.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM, 5%O 95%M	0.43
0.00	GTS(TSTM)	0.00

* 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

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64508

DST#: 2

Test Start: 2021.01.19 @ 16:00:46

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:22

Time Test Ended: 00:34:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 4674.00 ft (KB) To 4709.00 ft (KB) (TVD)

Total Depth: 4709.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1550.00 ft (KB)

1537.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 4675.00 ft (KB)

Start Date: 2021.01.19

End Date: 2021.01.20

Start Time: 16:00:58

End Time: 00:34:47

Capacity: 8000.00 psig

Last Calib.: 2021.01.20

Time On Btm:

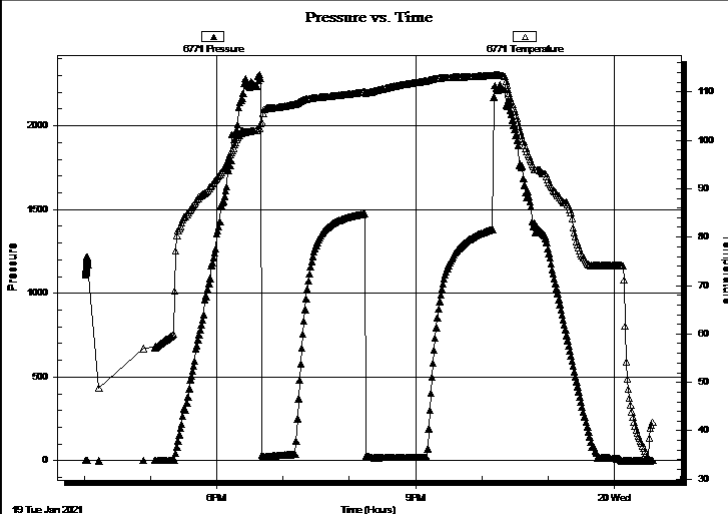
Time Off Btm:

TEST COMMENT: 30- IF- BOB 30 secs. Built to 333.34"

60- IS- No blow

60- FF- BOB instantly. Opened 2" to guage.

60- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM, 5%O 95%M	0.43
0.00	GTS(TSTM)	0.00

Gas Rates

	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

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64508

DST#: 2

Test Start: 2021.01.19 @ 16:00:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.38 in³

Resistivity: ohm.m

Salinity: 7800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM, 5%O 95%M	0.425
0.00	GTS(TSTM)	0.000

Total Length: 30.00 ft Total Volume: 0.425 bbl

Num Fluid Samples: 0

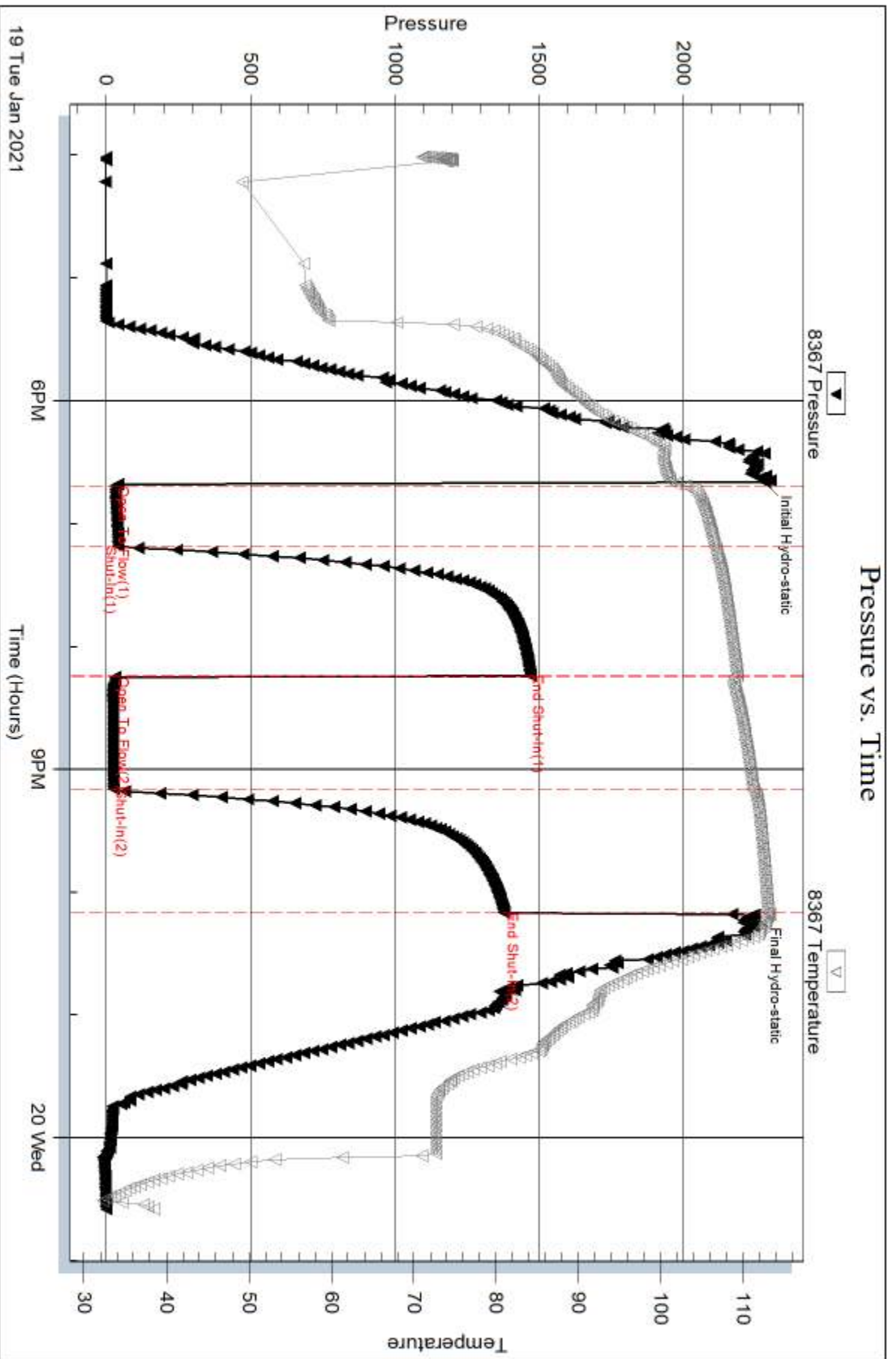
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



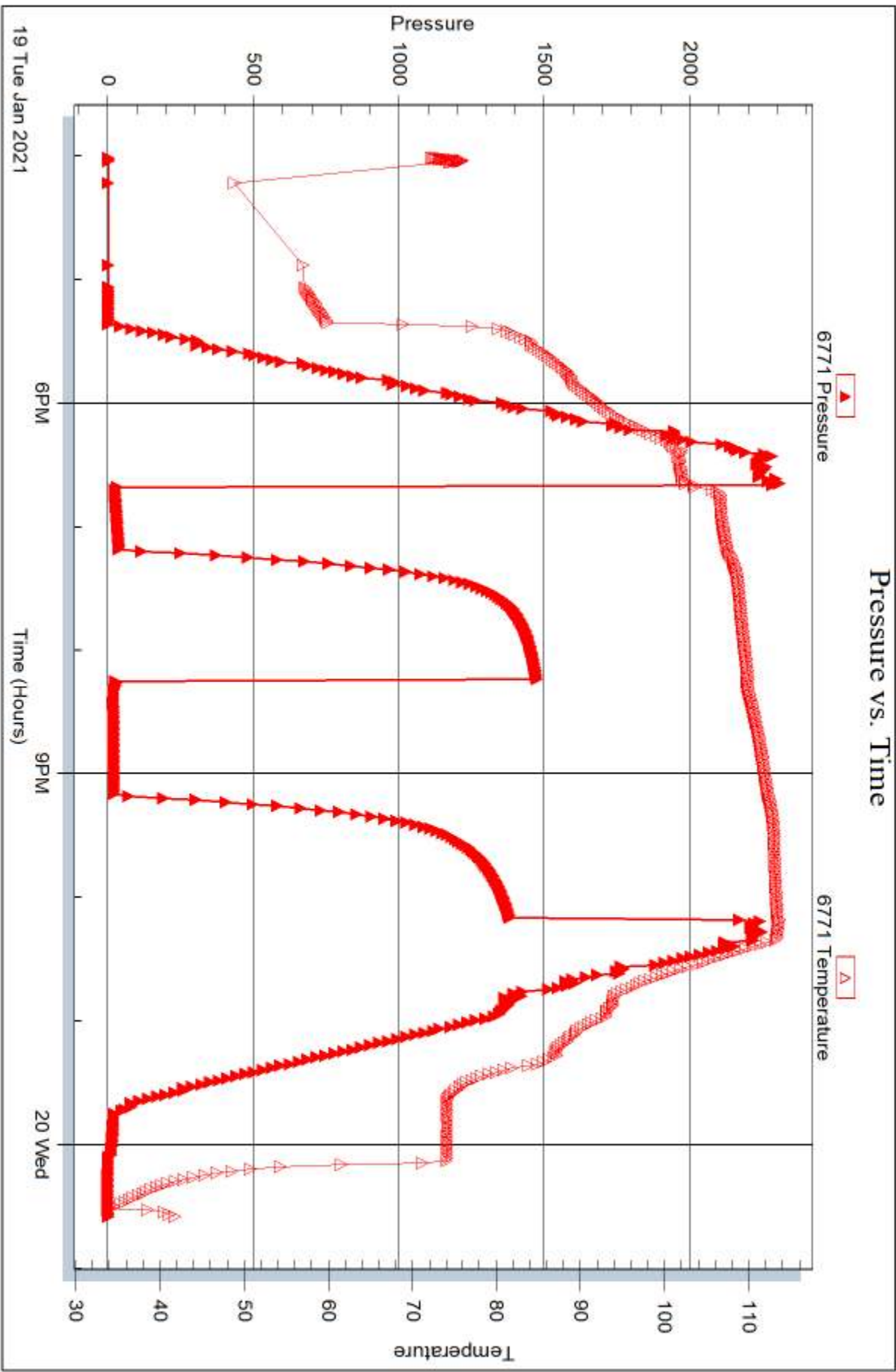
Serial #: 6771

Inside

Woodsey Operating Company, LLC

Famey B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64508

Printed: 2021.01.20 @ 07:33:54



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64509

DST#: 3

Test Start: 2021.01.20 @ 23:53:49

GENERAL INFORMATION:

Formation: **Misener Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:48:10

Time Test Ended: 11:54:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 4920.00 ft (KB) To 5045.00 ft (KB) (TVD)

Reference Elevations: 1550.00 ft (KB)

Total Depth: 5045.00 ft (KB) (TVD)

1537.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 6771

Inside

Press@RunDepth: 711.66 psig @ 4921.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.01.20 End Date: 2021.01.21

Last Calib.: 2021.01.21

Start Time: 23:53:50 End Time: 11:54:39

Time On Btm: 2021.01.21 @ 03:47:40

Time Off Btm: 2021.01.21 @ 07:50:40

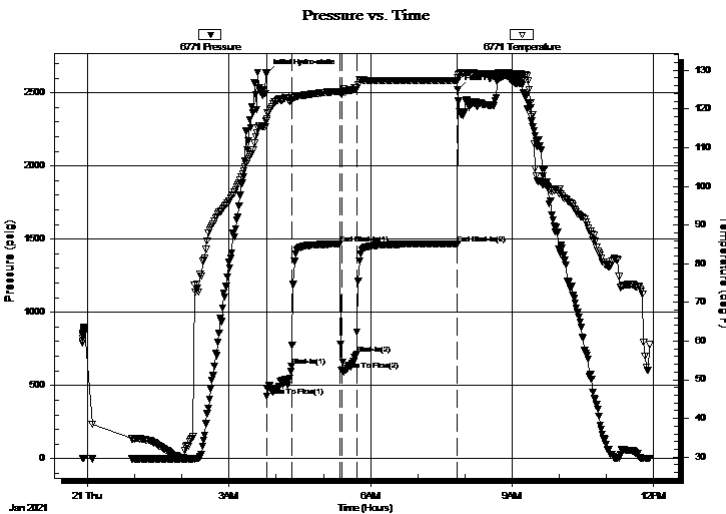
TEST COMMENT: 030- IF- BOB 1 min. GTS 2mins.

060- IS- BOB instantly

015- FF- BOB instantly

135- FS- BOB instantly

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2630.98	117.05	Initial Hydro-static
1	427.72	117.37	Open To Flow (1)
32	629.88	122.25	Shut-In(1)
94	1466.82	124.54	End Shut-In(1)
96	602.55	123.92	Open To Flow (2)
115	711.66	125.39	Shut-In(2)
243	1468.96	127.40	End Shut-In(2)
243	2520.64	127.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	<20bbbls, CO	0.00
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	14.00	443.18
Last Gas Rate	0.75	2.00	255.92
Max. Gas Rate	0.75	15.00	458.78

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1
Job Ticket: 64509 **DST#: 3**
Test Start: 2021.01.20 @ 23:53:49

GENERAL INFORMATION:

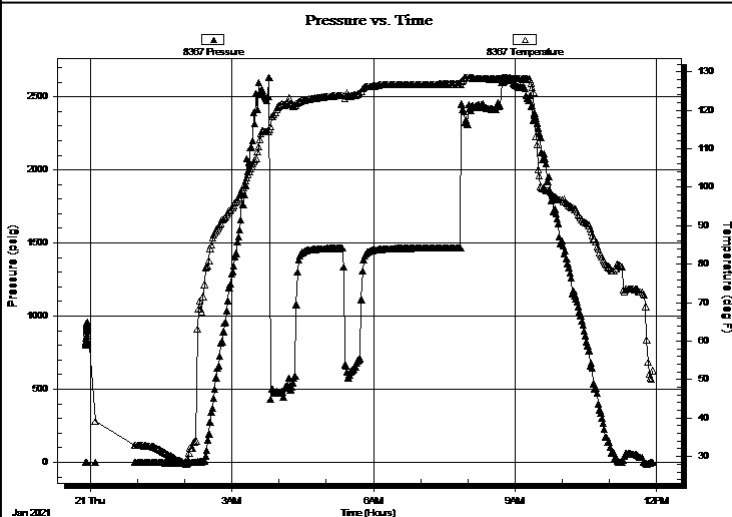
Formation: **Misener Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:48:10 Tester: Brannan Lonsdale
Time Test Ended: 11:54:39 Unit No: 73

Interval: **4920.00 ft (KB) To 5045.00 ft (KB) (TVD)** Reference Elevations: 1550.00 ft (KB)
Total Depth: 5045.00 ft (KB) (TVD) 1537.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8367

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2021.01.20 End Date: 2021.01.21 Last Calib.: 2021.01.21
Start Time: 23:54:03 End Time: 11:55:22 Time On Btm:
Time Off Btm:

TEST COMMENT: 030- IF- BOB 1 min. GTS 2mins.
060- IS- BOB instantly
015- FF- BOB instantly
135- FS- BOB instantly



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	<20bbls, CO	0.00
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	14.00	443.18
Last Gas Rate	0.75	2.00	255.92
Max. Gas Rate	0.75	15.00	458.78

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64509

DST#: 3

Test Start: 2021.01.20 @ 23:53:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	<20bbbls, CO	0.000
0.00	GTS	0.000

Total Length:

ft

Total Volume:

bbbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64509

DST#: 3

Test Start: 2021.01.20 @ 23:53:49

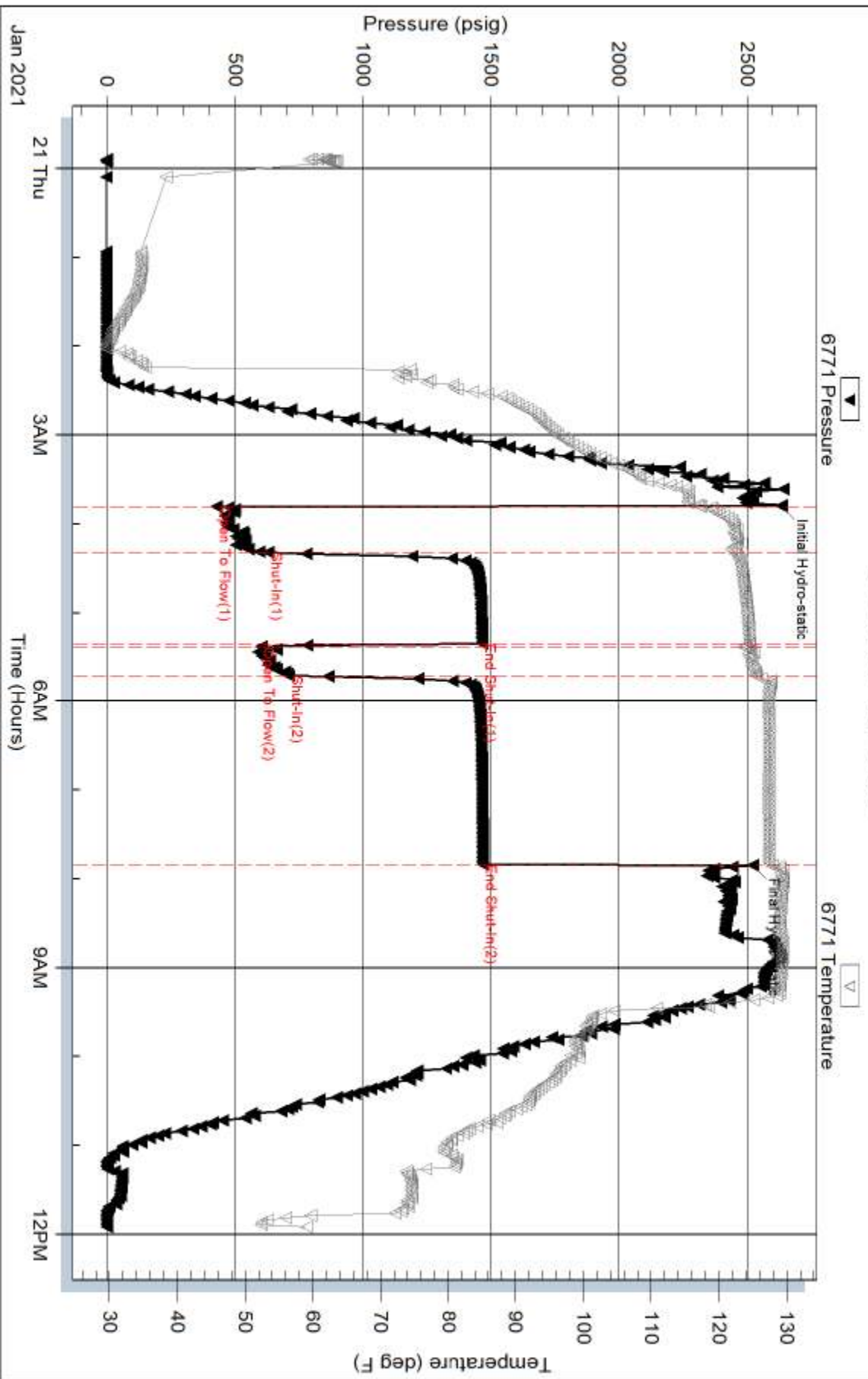
Gas Rates Information

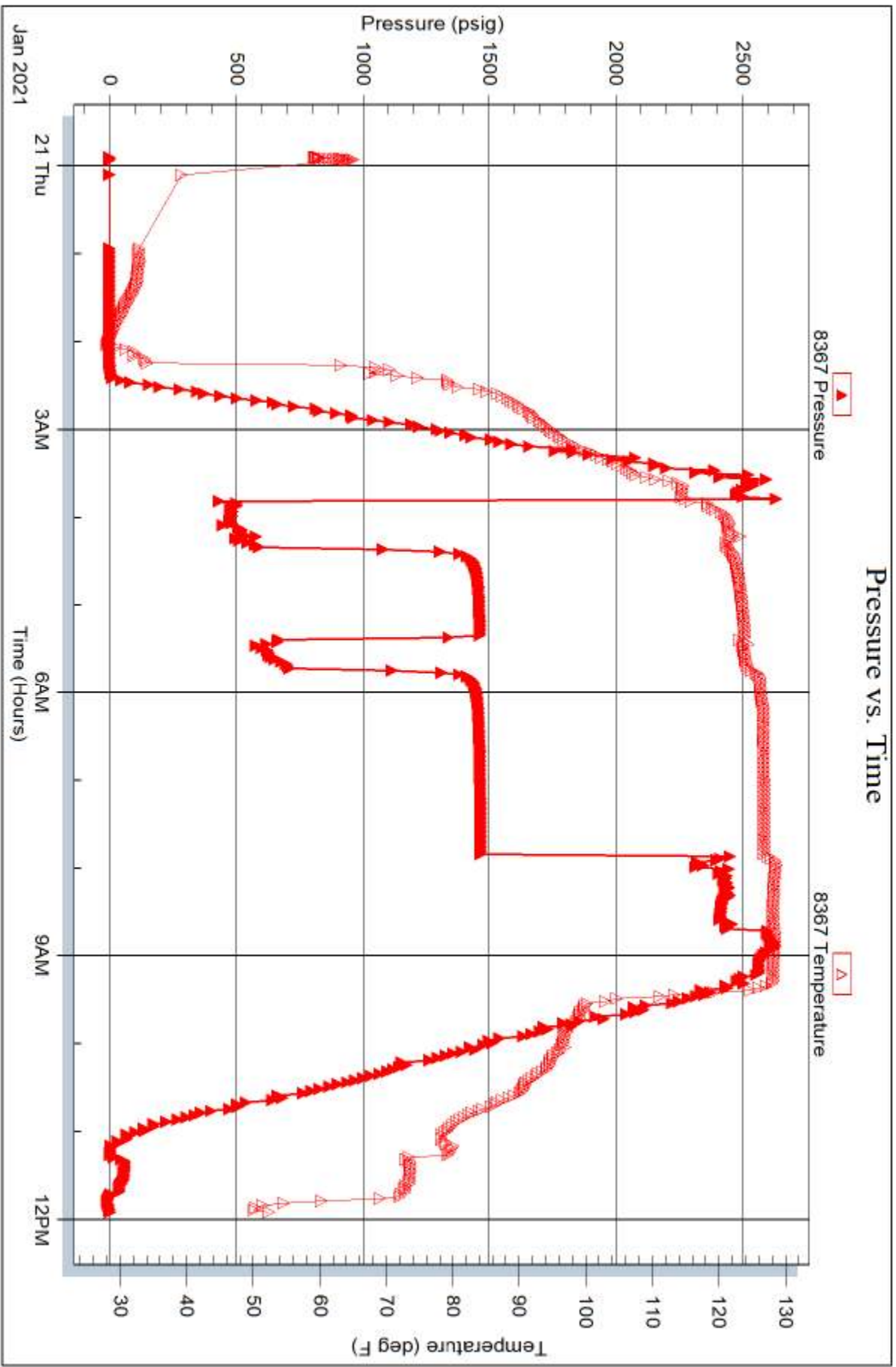
Temperature: 60 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.75	14.00	443.18
1	20	0.75	13.00	427.57
1	30	0.75	15.00	458.78
2	10	0.75	2.00	255.92

Pressure vs. Time







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64510

DST#: 4

Test Start: 2021.01.22 @ 15:04:25

GENERAL INFORMATION:

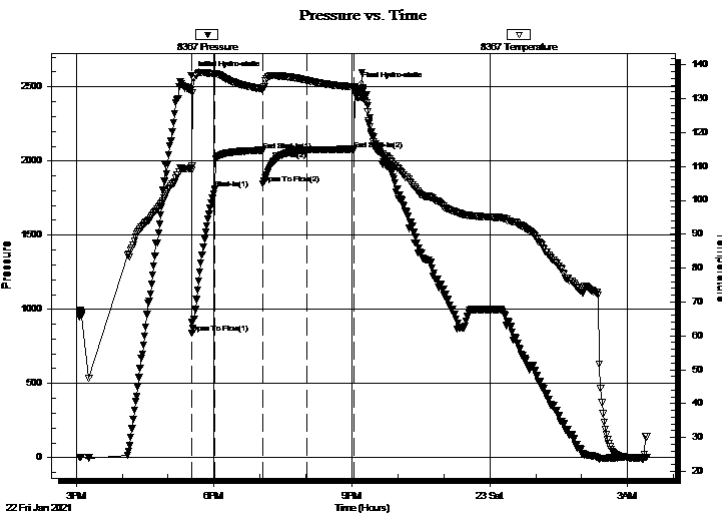
Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:31:01
 Tester: Brannan Lonsdale
 Time Test Ended: 03:26:00
 Unit No: 73
 Interval: **5130.00 ft (KB) To 5164.00 ft (KB) (TVD)**
 Reference Elevations: 1550.00 ft (KB)
 Total Depth: 5164.00 ft (KB) (TVD)
 1537.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 13.00 ft

Serial #: 8367

Outside

Press@RunDepth: 2071.98 psig @ 5131.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.01.22 End Date: 2021.01.23 Last Calib.: 2021.01.23
 Start Time: 15:04:26 End Time: 03:26:00 Time On Btm: 2021.01.22 @ 17:30:16
 Time Off Btm: 2021.01.22 @ 21:03:46

TEST COMMENT: 30- IF- BOB instantly. GTS 4 mins.
 60- IS- Slowly built to 2"
 60- FF- BOB 2 mins
 60- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2575.67	109.63	Initial Hydro-static
1	838.43	110.17	Open To Flow (1)
31	1810.48	137.31	Shut-In(1)
93	2072.94	132.83	End Shut-In(1)
94	1844.72	132.72	Open To Flow (2)
151	2071.98	135.43	Shut-In(2)
212	2079.71	133.51	End Shut-In(2)
214	2499.40	132.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4280.00	SMW, 5%M 95%W	60.67
0.00	GTS	0.00

* 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

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64510

DST#: 4

Test Start: 2021.01.22 @ 15:04:25

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:01

Time Test Ended: 03:26:00

Interval: 5130.00 ft (KB) To 5164.00 ft (KB) (TVD)

Total Depth: 5164.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Reference Elevations: 1550.00 ft (KB)

1537.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 5131.00 ft (KB)

Start Date: 2021.01.22

End Date:

2021.01.23

Capacity: 8000.00 psig

Last Calib.:

2021.01.23

Start Time: 15:04:15

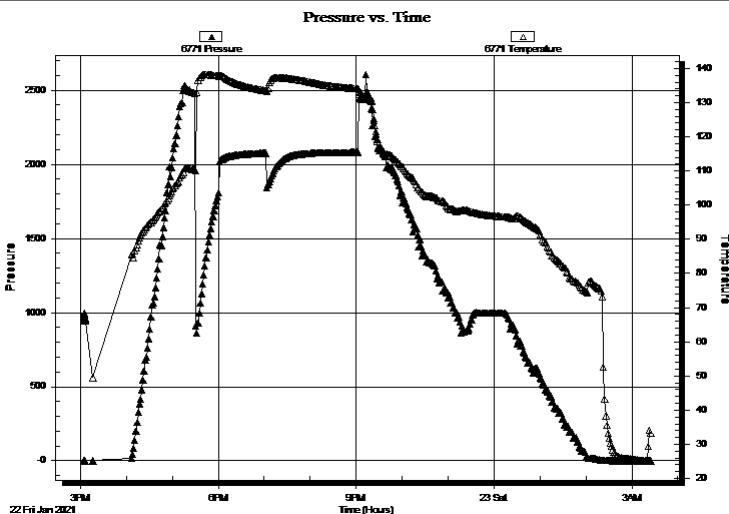
End Time:

03:25:49

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- BOB instantly. GTS 4 mins.
60- IS- Slowly built to 2"
60- FF- BOB 2 mins
60- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
4280.00	SMW, 5%M 95%W	60.67
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company, LLC

34-33S-12W Barber, KS

125 N. Market
Suite 1000
Wichita, KS 67202
ATTN: Bill Klaver

Farney B #1

Job Ticket: 64510

DST#: 4

Test Start: 2021.01.22 @ 15:04:25

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 6800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 22000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4280.00	SMW, 5%M 95%W	60.671
0.00	GTS	0.000

Total Length: 4280.00 ft Total Volume: 60.671 bbl

Num Fluid Samples: 0

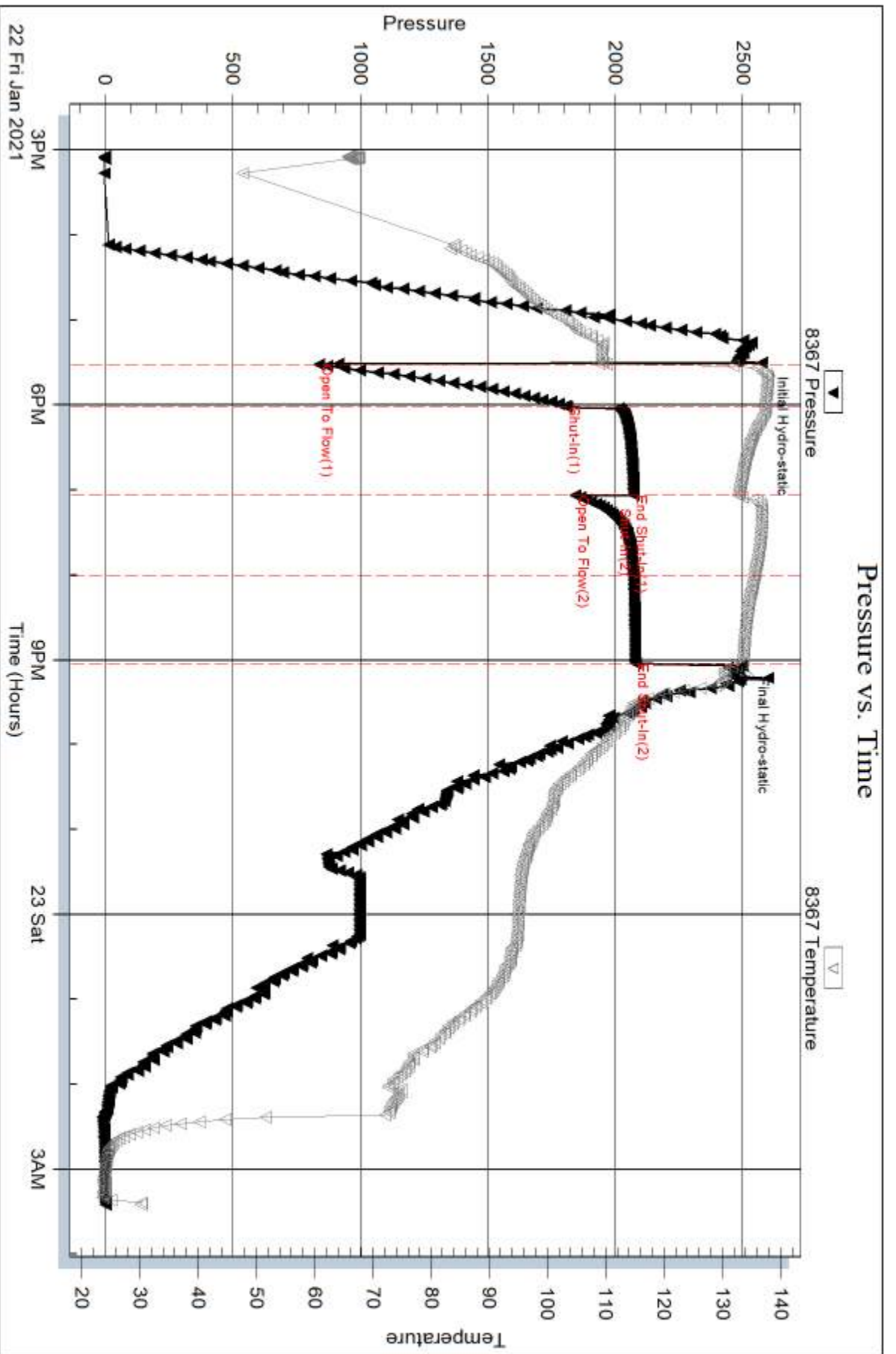
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .46@46deg



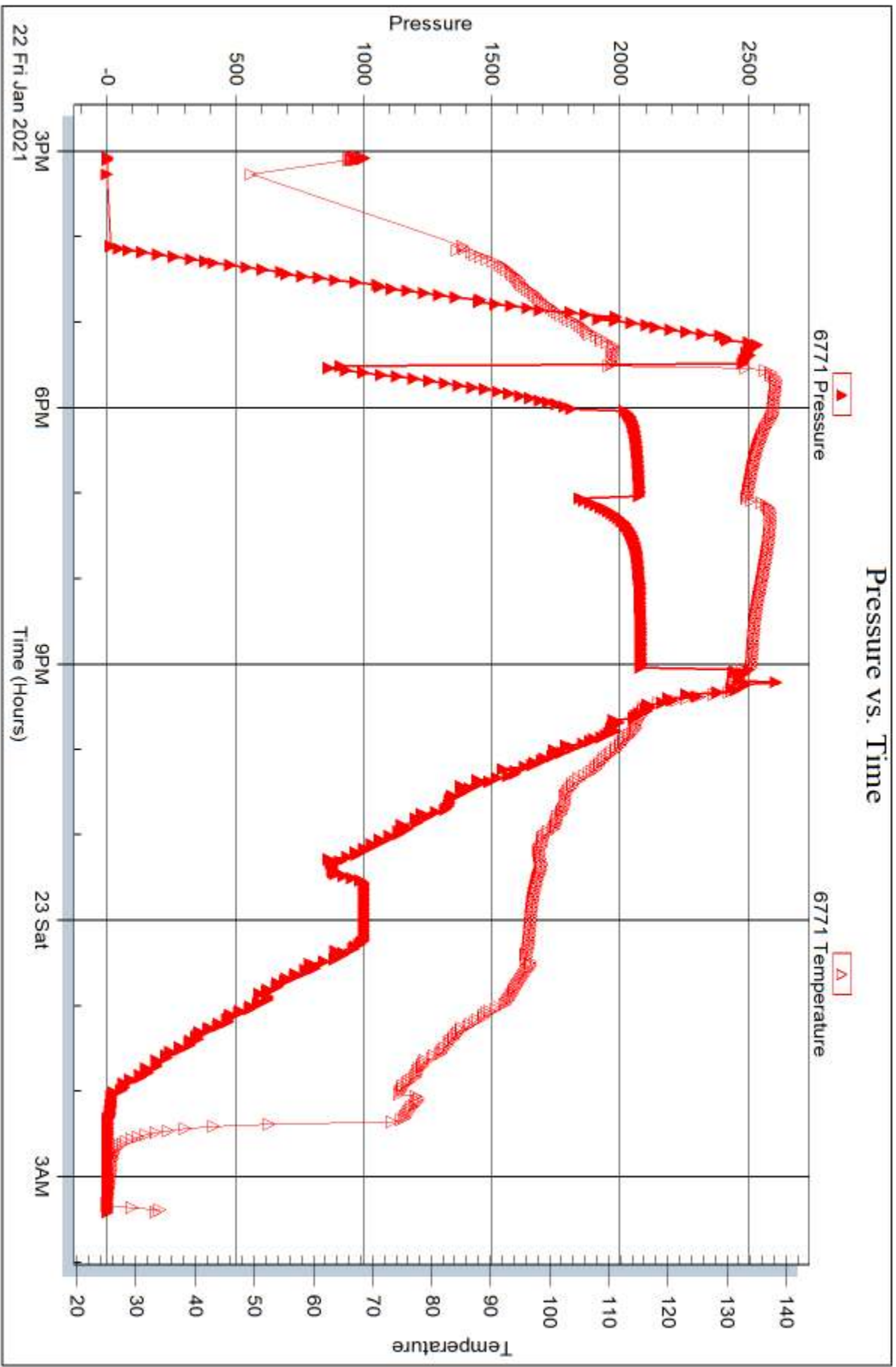
Serial #: 6771

Inside

Woodsey Operating Company, LLC

Famey B #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64510

Printed: 2021.01.23 @ 08:40:31

Woolsey Operating Company, L.L.C

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

Well Name: **FARNEY B-1** Section 34 - Township 33 South - Range 12 West
 Location: **15007-24375-00-00** License Number: **33168** Drilling Completed: **January 23, 2021**
 Spud Date: **January 12, 2021** NE NW NW SE
 Surface Coordinates: **2720' FNL & 2170' FEL** Barber County, Kansas
 Bottom Hole Coordinates: **K.B. Elevation (ft): 1550'**
 Ground Elevation (ft): **3000'** To: **5247'** Total Depth (ft): **5247'**
 Logged Interval (ft): **3000'** To: **5247'** Casing Depth (ft): **3000'**
 Type of Drilling Fluid: **Chemical Mud** Printed by **MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com**

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

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 9:30 pm on 1/12/21. Set 5 joints of 10 3/4" X 32.75#/ft new casing at 223' KB (tally 208') with 225 x 60/40 poz (by HSI). Plug down at 7:30 am on 1/13/21. Cement did circulate.
 Production casing (by HSI) casing for producer in the Missener and the Missisippian.
 Deviation Surveys: .75 at 228', 1 at 714', 1 at 994', .50 at 4674', .50 at 5045', .3 at 5247'.
 Pipe Strap at 4674'; strap: 4679.67'; depth: 4677.65'; strap 2.02' long. No correction to the board was made.
 Duke Rig 7 Bit record:
 1) 14.75' SD3 in at 0' out at 228', 6.25 hrs
 2) 7/8" Taurus 5-16 BDC in at 228' out at 5111', 101 hrs.
 3) 7/8" JZ PL16 POC in at 5111' out at 5247' 5 hrs on bit.
 Gas Detector: Pason System
 Mud System: Mud Co., Justin Whiting, Engineer
 DST: Trobe Testing, Brannon Lonsdale, Tester
 E-Logs: ELI, Dual Induction Laterolog WSP, CNL-FDC w/PE, GR and Calper, Sonk w/ GR

DS'Ts
 DST #1 Lower Cherokee, 4574-4674, 30"-60"-60"-60", SB, BOB in 12 min. Rec: 30' Mud, IHP 2278, IFF 57-59, ISIP 918, FFP 61-64, FHP 2233, BHT 116 deg.
 DST #2 Missisippian, 4674-4709, 30"-60"-60"-60", IFF SB BOB 90 seconds, FFP 67S/7 minutes, TSTM, Rec: 30' SOCM, (5%O, 95%W), IHP 2285, IFF 33-44, ISIP 1472, FFP 32-26, FHP 1469, FHP 1381, FHP 2249, BHT 113 deg.
 DST #3 Missener Sand, 4920-5045, 30"-60"-60"-60", SB, GTS in 2 minutes, Mud/OIS 13" into 2nd flow period, 430 MCF, (5%O, 95%W), IHP 2631, FFP 2631, ISIP 1467, FFP 603-712, FHP 1469, FHP 2521, Oil gravity 23, BHT 127 deg.
 DST #4 Simpson Sand, 5130 - 5164, 30"-60"-60"-60", SB, BOB instantly, GTS 4 Min???, No gauge, would not light. Rec 4280 MW, 5% M, 95% W, IHP 2576, IFF 338-1810, ISIP 2073, FFP 1845-2072, FHP 2080, FHP 2499, BHT 134 deg

CREWS
 Tim Arel, Pusher
 Charles Stout, Morning
 Scott Edwards, Days
 Steven "Skippy" Green, Evening

ROCK TYPES

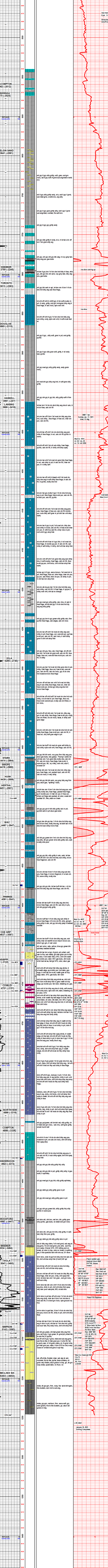
Shy dolo	Shale	Shale 3
Anhy	Silt	Silty dol
Bent	SS	Dol lmst
Blt	Sst	Dol 2
Cht	Sstms	Granite shale
Clyst	Gry sh	Lmst
Calc	Shale	Calc dol
Coal	Shylst	Shale 3
Congl	Shylst	
Sdy dolo	Sh	

ACCESSORIES

Chlorite	Pellet	Grysh
Dol	Polite	Lms
Sand	Plant	Sandylms
Silty	Sstms	Siltstn
Brecfrag	Fuss	
Calc	Fuss	
Carb	Comoidic	
Chalk		
Chlt		
Dol		
Ferrel		
Four		
Glau		
Gyp		
Marl		
Nodule		
Phos		
Pyr		
Salt		
Sandy		
Silt		

TEXTURE

Bl	Blocky
Ch	Chalky
Cry	Cryarhy
Md	Mudst
Fl	Fluoin
L	Lithogr
Mc	Microdn
P	Packet
W	Wackest



Woolsey Operating Co., LLC
 Sec 34 Twp 33S - Rng 12W
 NE NW NW SE
 Barber County, Kansas
 Filed: Greenlake
 A # 607 15-2875-80-00
 GL 1507 KB 1507

Samples were poor the entire hole. SS-20, sh, sh shale. Drilling fluid properties were always ideal. Hole conditions were sticky or excess fill on tray.

Mud Co. Check @ 5164
 V is 7.2
 W is 1.1
 WL 10.4
 LCM 42

LTD 524
 -January 23, 2021
 Drilling Completed.