

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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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	FAMILY FARM 4-9
Doc ID	1664497

All Electric Logs Run

Stacked-Micro
Dual Comp Porosity
Dual Induction
Microresistivity

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	FAMILY FARM 4-9
Doc ID	1664497

Tops

Name	Top	Datum
Anhydrite	1449	918
Base	1481	886
Heebner	3973	-1606
Lansing	4063	-1696
Bkc	4421	-2054
Marmaton	4439	-2072
Fort Scott	4591	-2224
Cherokee	4614	-2247
Miss Warsaw	4661	-2294
Miss Osage	4667	2320
RTD	4687	-2320
LTD	4690	-2323



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
 Po Box 359
 Garden City, Ks. 67846
 ATTN: Kevin Timson

9-24S-21W Hodgeman co

Family Farm #4-9

Job Ticket: 69526 **DST#: 1**
 Test Start: 2022.08.03 @ 01:23:01

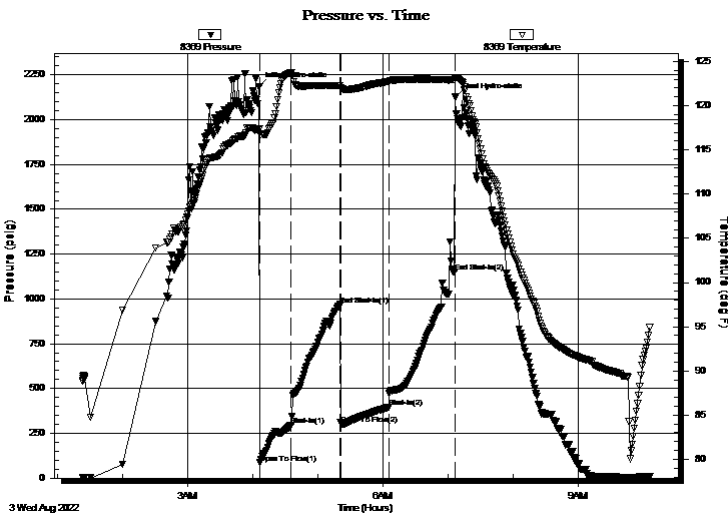
GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:06:21 Tester: Eric Burgess
 Time Test Ended: 10:06:01 Unit No: 80
 Interval: **4394.00 ft (KB) To 4480.00 ft (KB) (TVD)** Reference Elevations: 2367.00 ft (KB)
 Total Depth: 4480.00 ft (KB) (TVD) 2354.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 395.24 psig @ 4398.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.03 End Date: 2022.08.03 Last Calib.: 2022.08.03
 Start Time: 01:23:02 End Time: 10:06:01 Time On Btm: 2022.08.03 @ 04:05:41
 Time Off Btm: 2022.08.03 @ 07:06:40

TEST COMMENT: IF:Strong Building Blow built 84.76" (30)
 IS: 6.1" Blow Back (45)
 FF:Strong Building Blow built 42.91" (45)
 FS:2.67" Blow Back (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.04	117.34	Initial Hydro-static
1	85.01	116.81	Open To Flow (1)
30	295.82	123.74	Shut-In(1)
75	968.17	122.26	End Shut-In(1)
76	302.84	122.03	Open To Flow (2)
120	395.24	122.77	Shut-In(2)
181	1149.27	122.93	End Shut-In(2)
181	2125.21	123.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
181.00	OSMCW 15%M 85%W	0.89
252.00	GOMCW 20%G 15%O 40%W 25%M	3.69
252.00	GMMCO 25%G 40%O 10%W 25%M	3.69
63.00	VSOCM 5%O 95%M	0.92
0.00	937' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

American Warrior Inc.
 Po Box 359
 Garden City, Ks. 67846
 ATTN: Kevin Timson

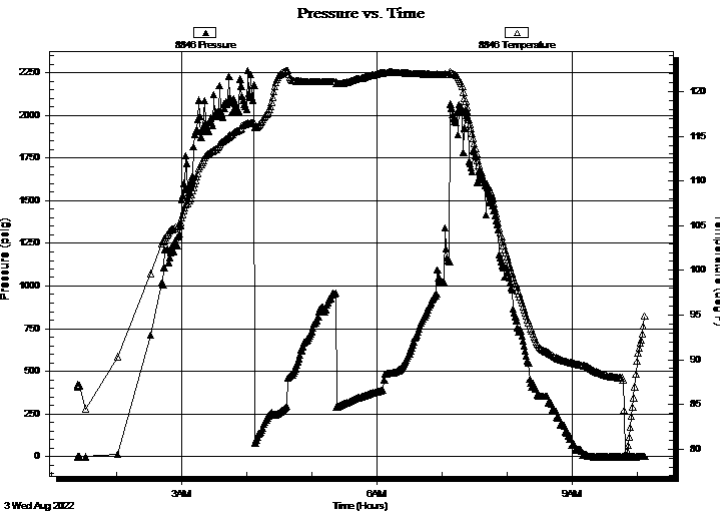
9-24S-21W Hodgeman co
Family Farm #4-9
 Job Ticket: 69526 **DST#: 1**
 Test Start: 2022.08.03 @ 01:23:01

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:06:21 Tester: Eric Burgess
 Time Test Ended: 10:06:01 Unit No: 80
Interval: 4394.00 ft (KB) To 4480.00 ft (KB) (TVD) Reference Elevations: 2367.00 ft (KB)
 Total Depth: 4480.00 ft (KB) (TVD) 2354.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8846 Inside
 Press@RunDepth: psig @ 4398.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.03 End Date: 2022.08.03 Last Calib.: 1899.12.30
 Start Time: 01:23:51 End Time: 10:07:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built 84.76" (30)
 IS: 6.1" Blow Back (45)
 FF:Strong Building Blow built 42.91" (45)
 FS:2.67" Blow Back (60)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
181.00	OSMCW 15%M 85%W	0.89
252.00	GOMCW 20%G 15%O 40%W 25%M	3.69
252.00	GMMCO 25%G 40%O 10%W 25%M	3.69
63.00	VSOCM 5%O 95%M	0.92
0.00	937' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

9-24S-21W Hodgeman co

Po Box 359
Garden City, Ks. 67846

Family Farm #4-9

Job Ticket: 69526

DST#: 1

ATTN: Kevin Timson

Test Start: 2022.08.03 @ 01:23:01

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
181.00	OSMCW 15%M 85%W	0.890
252.00	GOMCW 20%G 15%O 40%W 25%M	3.685
252.00	GMWCO 25%G 40%O 10%W 25%M	3.685
63.00	VSOCM 5%O 95%M	0.921
0.00	937' GIP	0.000

Total Length: 748.00 ft

Total Volume: 9.181 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

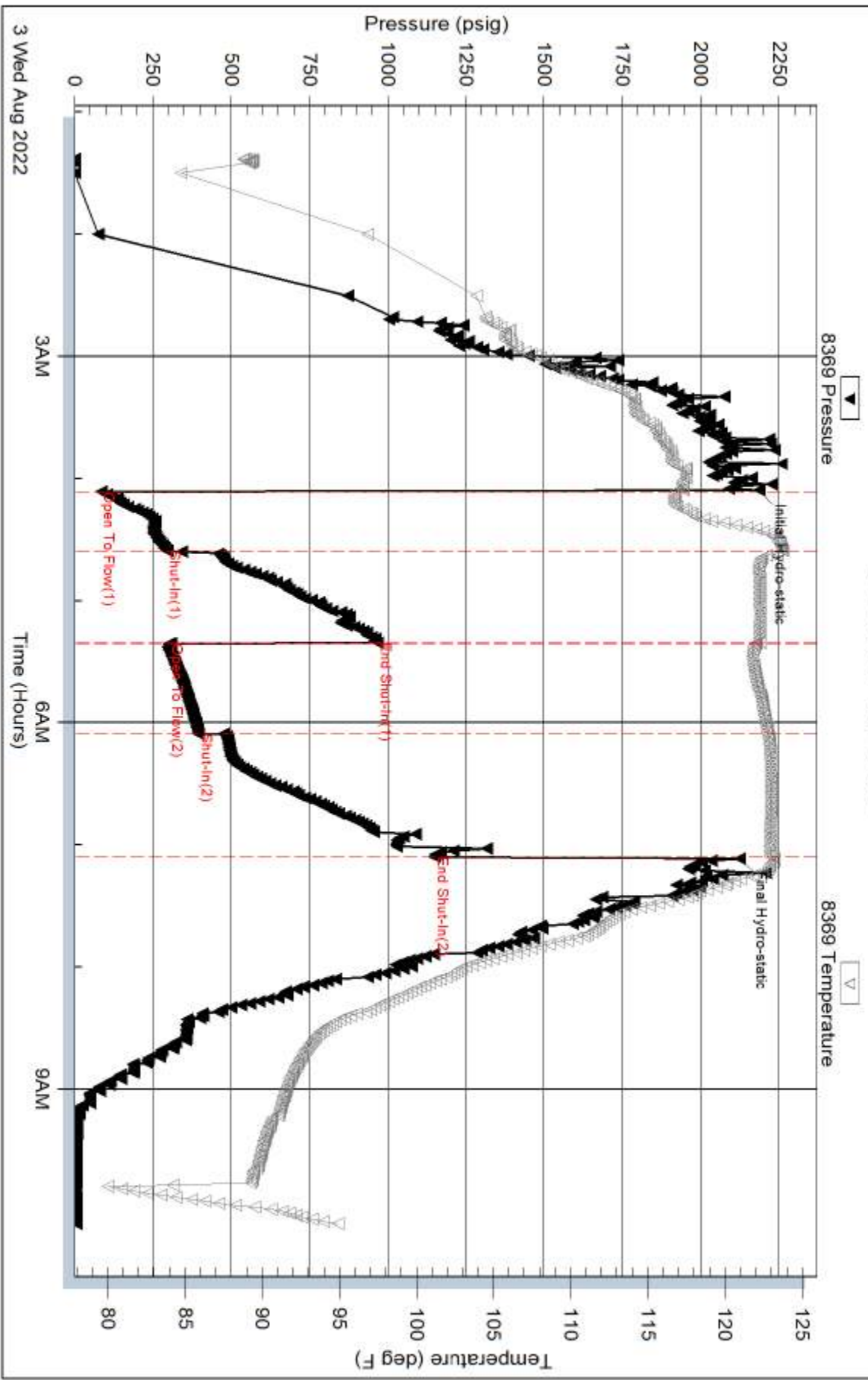
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



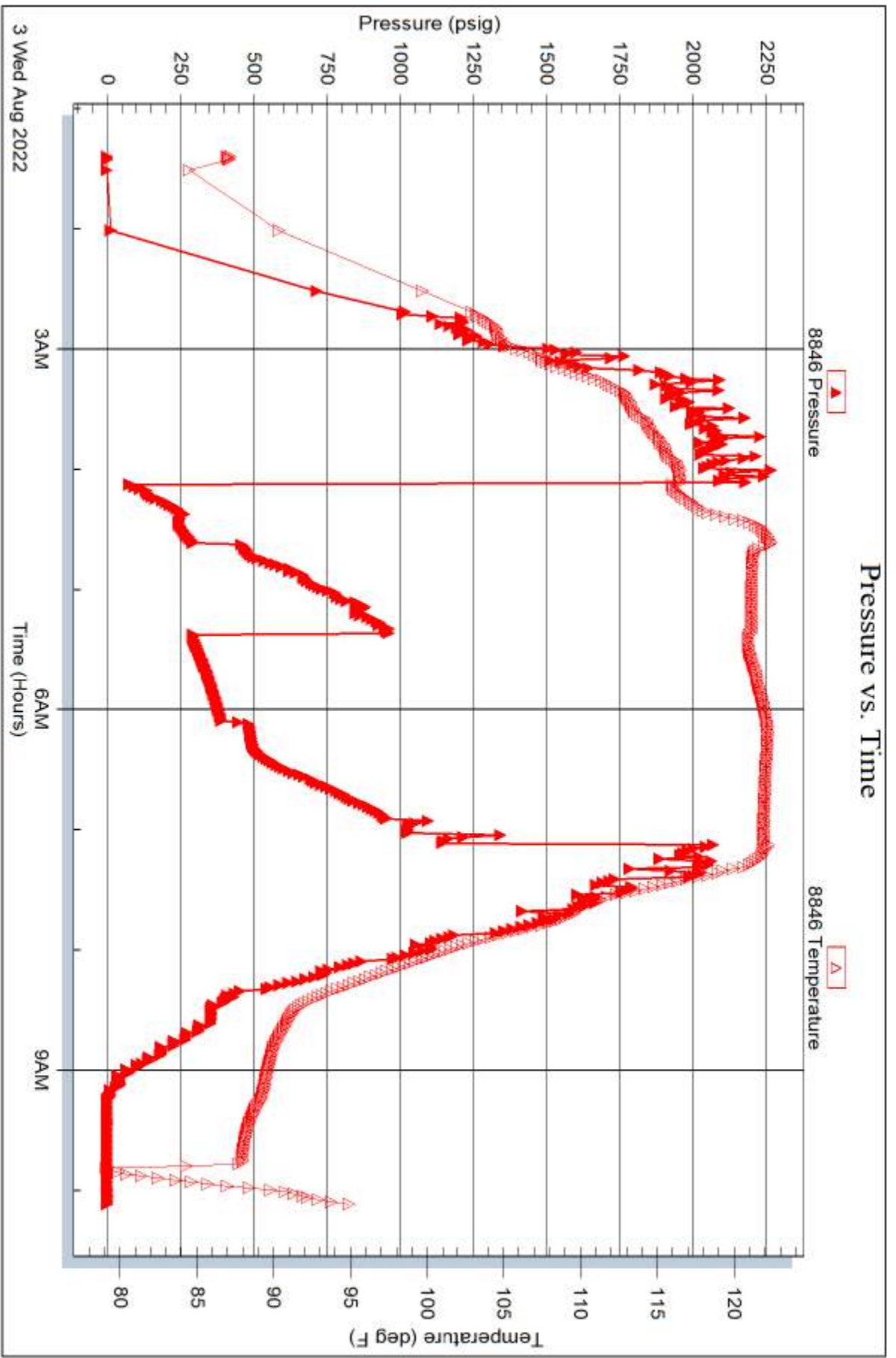
Serial #: 8846

Inside

American Warrior Inc.

Family Farm #4-9

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 69526

Printed: 2022.08.03 @ 11:51:36



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 359
Garden City, KS 67846

ATTN: Kevin Timson

Family Farm #4-9

9-24S-21W Hodgeman,KS

Start Date: 2022.08.03 @ 01:23:01

End Date: 2022.08.03 @ 10:06:01

Job Ticket #: 69526 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.08.08 @ 16:02:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.
PO Box 359
Garden City, KS 67846
ATTN: Kevin Timson

9-24S-21W Hodgeman,KS

Family Farm #4-9

Job Ticket: 69526 **DST#: 1**
Test Start: 2022.08.03 @ 01:23:01

GENERAL INFORMATION:

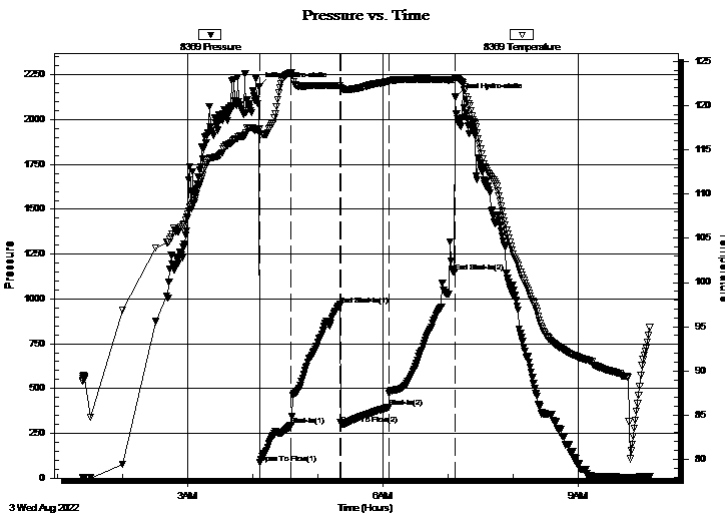
Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:06:21
Time Test Ended: 10:06:01
Interval: **4394.00 ft (KB) To 4480.00 ft (KB) (TVD)**
Total Depth: 4480.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80
Reference Elevations: 2367.00 ft (KB)
2354.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 Outside

Press@RunDepth: 395.24 psig @ 4398.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.08.03 End Date: 2022.08.03 Last Calib.: 2022.08.03
Start Time: 01:23:02 End Time: 10:06:01 Time On Btm: 2022.08.03 @ 04:05:41
Time Off Btm: 2022.08.03 @ 07:06:40

TEST COMMENT: IF:Strong Building Blow built 84.76" (30)
IS: 6.1" Blow Back (45)
FF:Strong Building Blow built 42.91" (45)
FS:2.67" Blow Back (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.04	117.34	Initial Hydro-static
1	85.01	116.81	Open To Flow (1)
30	295.82	123.74	Shut-In(1)
75	968.17	122.26	End Shut-In(1)
76	302.84	122.03	Open To Flow (2)
120	395.24	122.77	Shut-In(2)
181	1149.27	122.93	End Shut-In(2)
181	2125.21	123.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
181.00	OSMCW 15%M 85%W	0.89
252.00	GOMCW 20%G 15%O 40%W 25%M	3.69
252.00	GMMCO 25%G 40%O 10%W 25%M	3.69
63.00	VSOCM 5%O 95%M	0.92
0.00	937' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 359
Garden City, KS 67846

ATTN: Kevin Timson

9-24S-21W Hodgeman, KS

Family Farm #4-9

Job Ticket: 69526

DST#: 1

Test Start: 2022.08.03 @ 01:23:01

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:21

Time Test Ended: 10:06:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

Interval: **4394.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2367.00 ft (KB)

2354.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8846

Inside

Press@RunDepth: psig @ 4398.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.03 End Date: 2022.08.03

Last Calib.: 1899.12.30

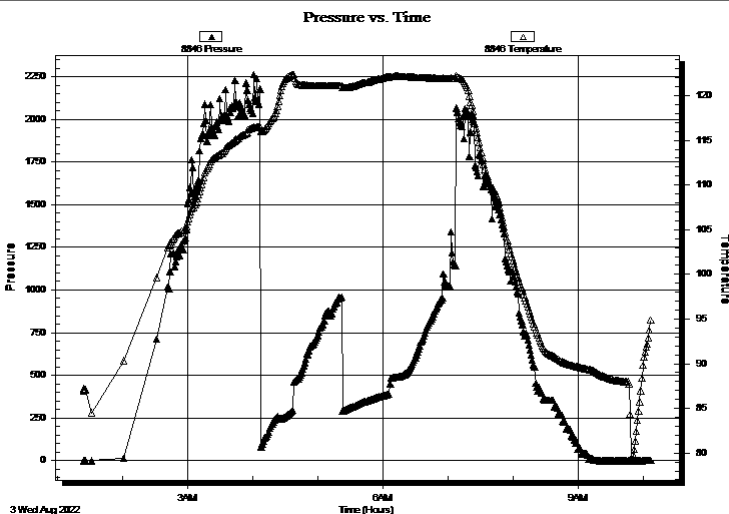
Start Time: 01:23:51 End Time: 10:07:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built 84.76" (30)
IS: 6.1" Blow Back (45)
FF:Strong Building Blow built 42.91" (45)
FS:2.67" Blow Back (60)

PRESSURE SUMMARY



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

Length (ft)	Description	Volume (bbl)
181.00	OSMCW 15%M 85%W	0.89
252.00	GOMCW 20%G 15%O 40%W 25%M	3.69
252.00	GMMCO 25%G 40%O 10%W 25%M	3.69
63.00	VSO 5%O 95%M	0.92
0.00	937' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

9-24S-21W Hodgeman,KS

PO Box 359
Garden City, KS 67846

Family Farm #4-9

Job Ticket: 69526

DST#: 1

ATTN: Kevin Timson

Test Start: 2022.08.03 @ 01:23:01

Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.88 inches	Volume: 61.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 62.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4394.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Em Tool	3.00			4377.00	
Jars	5.00			4382.00	
Safety Joint	3.00			4385.00	
Packer	4.00			4389.00	31.00 Bottom Of Top Packer
Packer	5.00			4394.00	
Stubb	1.00			4395.00	
Perforations	2.00			4397.00	
Change Over Sub	1.00			4398.00	
Recorder	0.00	8369	Outside	4398.00	
Recorder	0.00	8846	Inside	4398.00	
Blank Spacing	63.00			4461.00	
Change Over Sub	1.00			4462.00	
Perforations	15.00			4477.00	
Bullnose	3.00			4480.00	86.00 Bottom Packers & Anchor
Total Tool Length:	117.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.
PO Box 359
Garden City, KS 67846
ATTN: Kevin Timson

9-24S-21W Hodgeman,KS
Family Farm #4-9
Job Ticket: 69526 **DST#: 1**
Test Start: 2022.08.03 @ 01:23:01

Mud and Cushion Information

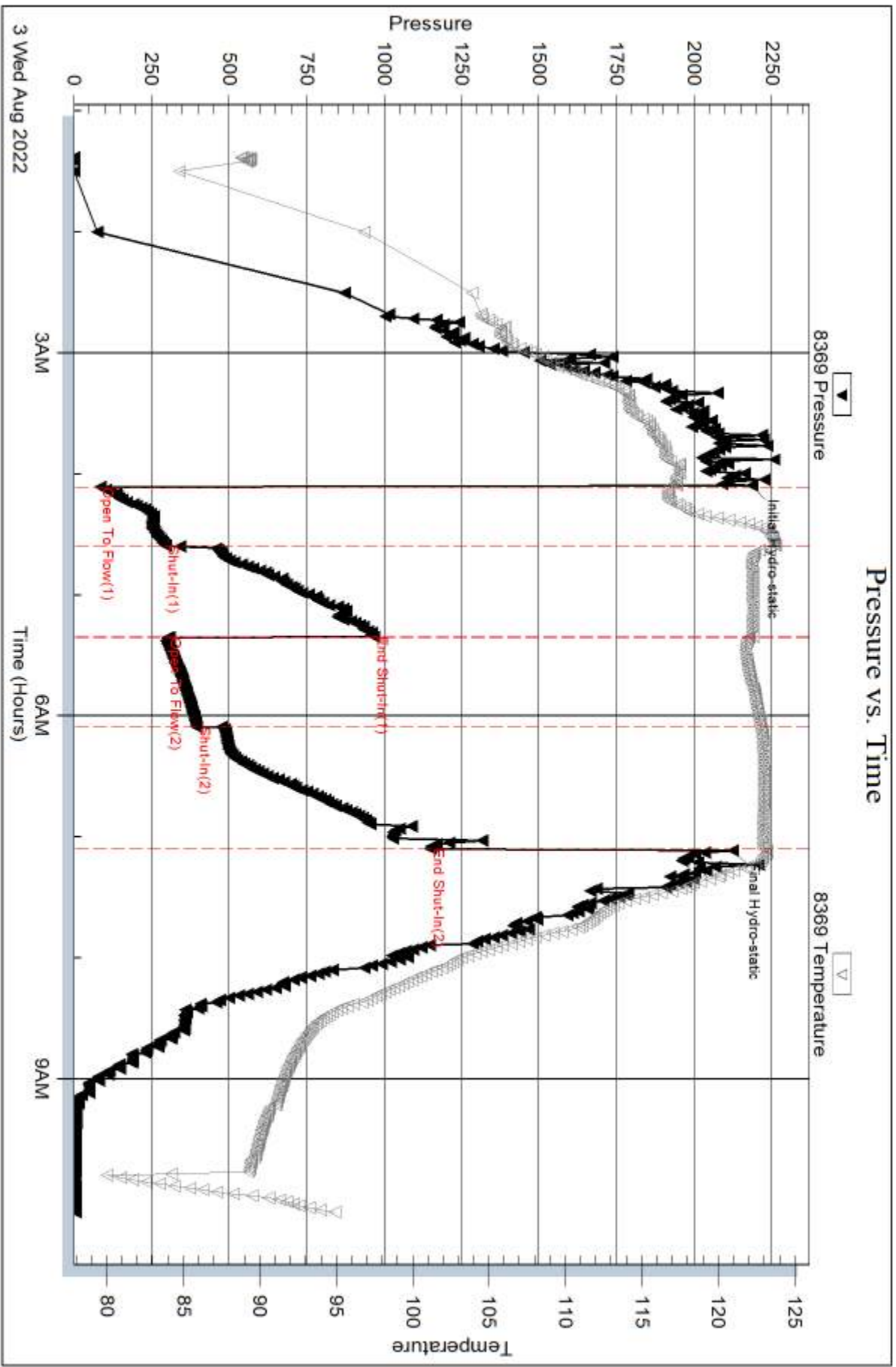
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
181.00	OSMCW 15%M 85%W	0.890
252.00	GOMCW 20%G 15%O 40%W 25%M	3.685
252.00	GMWCO 25%G 40%O 10%W 25%M	3.685
63.00	VSOCM 5%O 95%M	0.921
0.00	937' GIP	0.000

Total Length: 748.00 ft Total Volume: 9.181 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



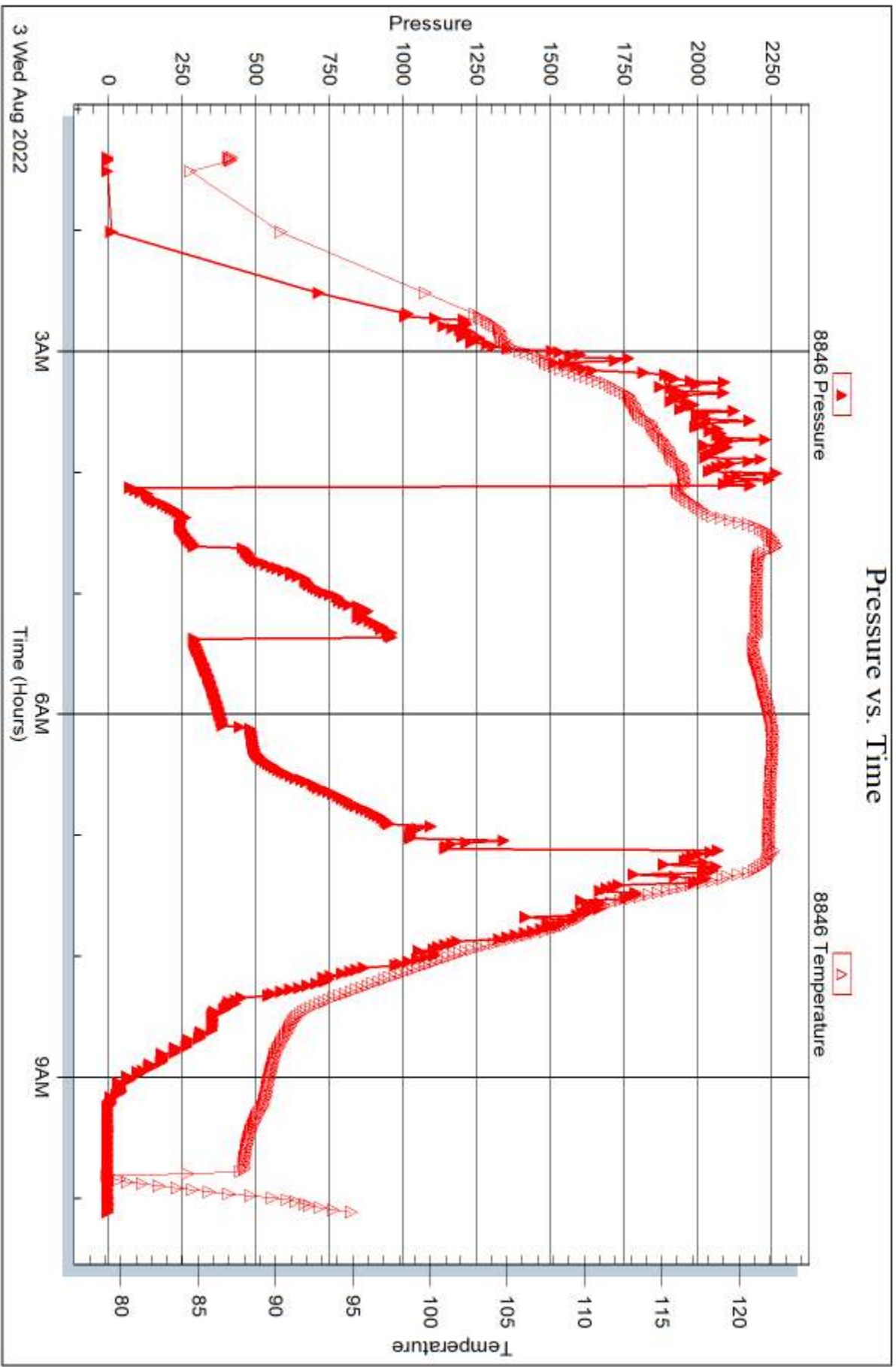
Serial #: 8846

Inside

American Warrior Inc.

Family Farm #4-9

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 359
Garden City, KS 67846

ATTN: Kevin Timson

Family Farm #4-9

9-24S-21W Hodgeman,KS

Start Date: 2022.08.04 @ 09:30:03

End Date: 2022.08.04 @ 15:45:12

Job Ticket #: 69527 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.08.08 @ 15:54:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 359
 Garden City, KS 67846
 ATTN: Kevin Timson

9-24S-21W Hodgeman,KS

Family Farm #4-9

Job Ticket: 69527 **DST#: 2**
 Test Start: 2022.08.04 @ 09:30:03

GENERAL INFORMATION:

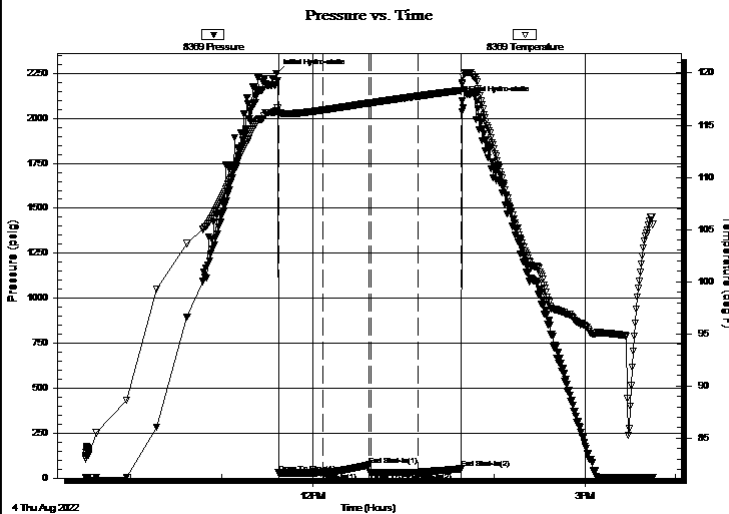
Formation: **Miss Osage**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:37:23
 Time Test Ended: 15:45:12
 Interval: **4593.00 ft (KB) To 4677.00 ft (KB) (TVD)**
 Total Depth: 4677.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 2367.00 ft (KB)
 2354.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8369

Outside

Press@RunDepth: 32.75 psig @ 4597.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.04 End Date: 2022.08.04 Last Calib.: 2022.08.04
 Start Time: 09:30:04 End Time: 15:45:13 Time On Btm: 2022.08.04 @ 11:36:03
 Time Off Btm: 2022.08.04 @ 13:38:53

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (30)
 IS:No Blow Back (30)
 FF:No Blow (30)
 FS:No Blow Back (30)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.24	116.35	Initial Hydro-static
2	29.09	116.19	Open To Flow (1)
31	30.13	116.45	Shut-In(1)
62	74.04	117.13	End Shut-In(1)
63	32.22	117.14	Open To Flow (2)
94	32.75	117.78	Shut-In(2)
123	52.59	118.34	End Shut-In(2)
123	2095.98	119.05	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 359
 Garden City, KS 67846
 ATTN: Kevin Timson

9-24S-21W Hodgeman,KS

Family Farm #4-9

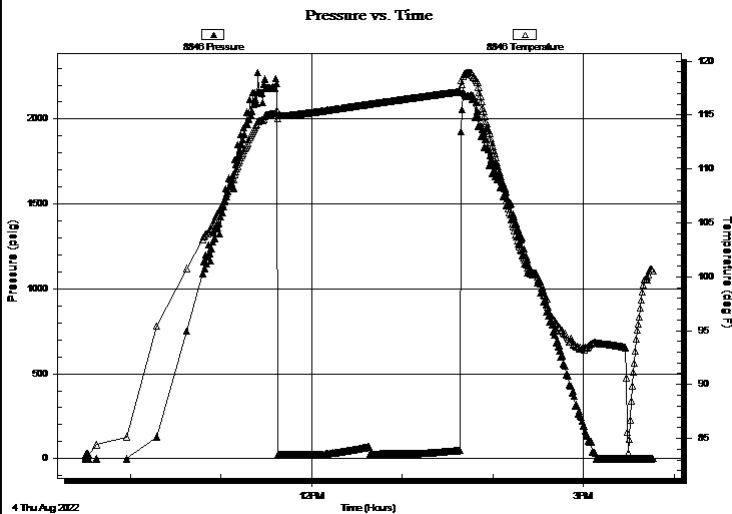
Job Ticket: 69527 **DST#: 2**
 Test Start: 2022.08.04 @ 09:30:03

GENERAL INFORMATION:

Formation: **Miss Osage**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:37:23
 Time Test Ended: 15:45:12
Interval: 4593.00 ft (KB) To 4677.00 ft (KB) (TVD)
 Total Depth: 4677.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 2367.00 ft (KB)
 2354.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8846 Inside
 Press@RunDepth: psig @ 4597.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.04 End Date: 2022.08.04 Last Calib.: 1899.12.30
 Start Time: 09:30:32 End Time: 15:45:51 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (30)
 IS:No Blow Back (30)
 FF:No Blow (30)
 FS:No Blow Back (30)



PRESSURE SUMMARY

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

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.
PO Box 359
Garden City, KS 67846
ATTN: Kevin Timson

9-24S-21W Hodgeman,KS
Family Farm #4-9
Job Ticket: 69527 **DST#: 2**
Test Start: 2022.08.04 @ 09:30:03

Tool Information

Drill Pipe:	Length: 4387.00 ft	Diameter: 3.88 inches	Volume: 64.16 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	24000.00 lb
			<u>Total Volume: 65.05 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	67000.00 lb
Depth to Top Packer:	4593.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	84.00 ft				
Tool Length:	115.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			4563.00	
Shut In Tool	5.00			4568.00	
Hydraulic tool	5.00			4573.00	
Em Tool	3.00			4576.00	
Jars	5.00			4581.00	
Safety Joint	3.00			4584.00	
Packer	4.00			4588.00	31.00 Bottom Of Top Packer
Packer	5.00			4593.00	
Stubb	1.00			4594.00	
Perforations	2.00			4596.00	
Change Over Sub	1.00			4597.00	
Recorder	0.00	8369	Outside	4597.00	
Recorder	0.00	8846	Inside	4597.00	
Blank Spacing	63.00			4660.00	
Change Over Sub	1.00			4661.00	
Perforations	13.00			4674.00	
Bullnose	3.00			4677.00	84.00 Bottom Packers & Anchor
Total Tool Length:	115.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.
PO Box 359
Garden City, KS 67846
ATTN: Kevin Timson

9-24S-21W Hodgeman,KS
Family Farm #4-9
Job Ticket: 69527 **DST#: 2**
Test Start: 2022.08.04 @ 09:30:03

Mud and Cushion Information

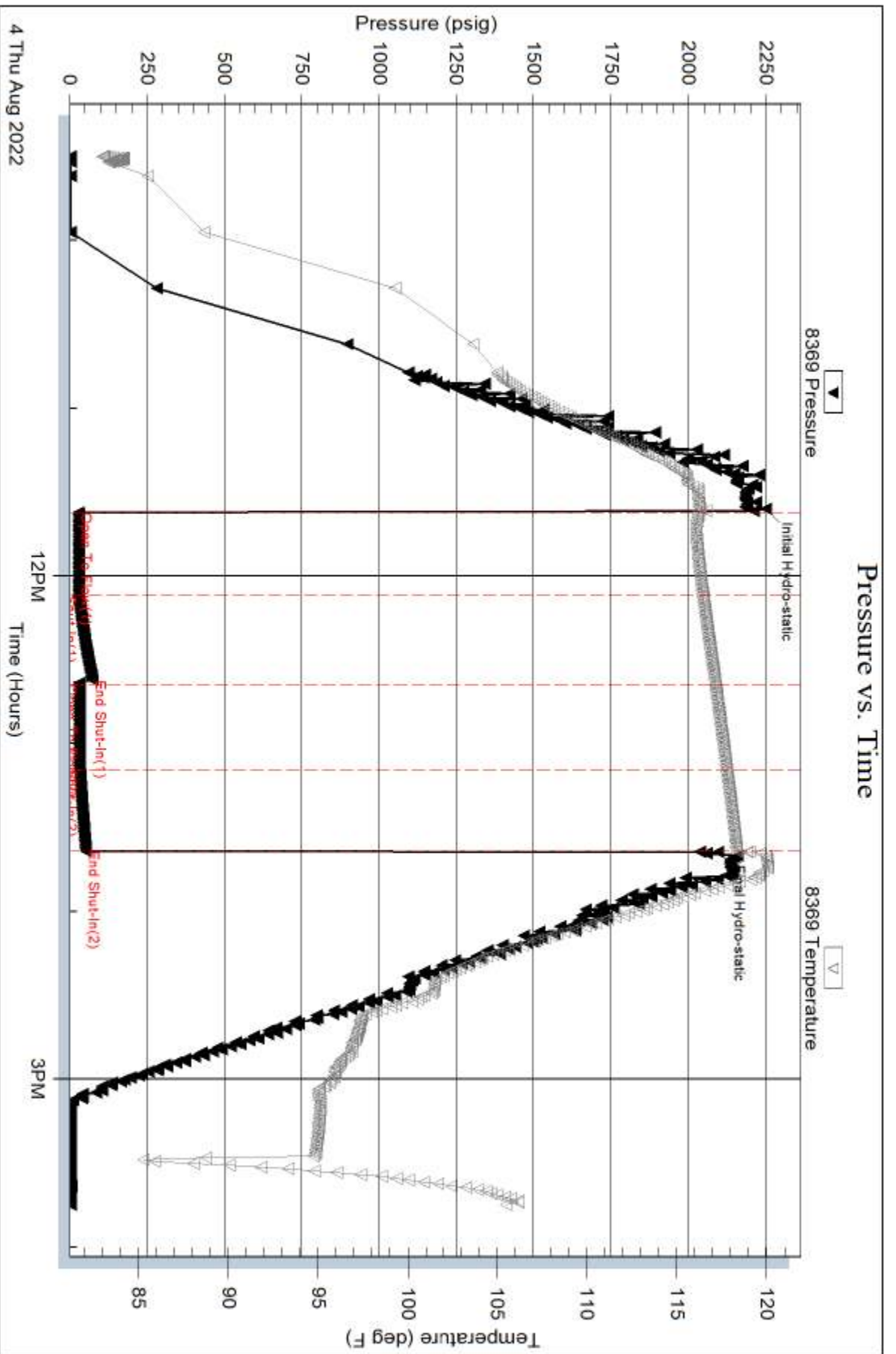
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



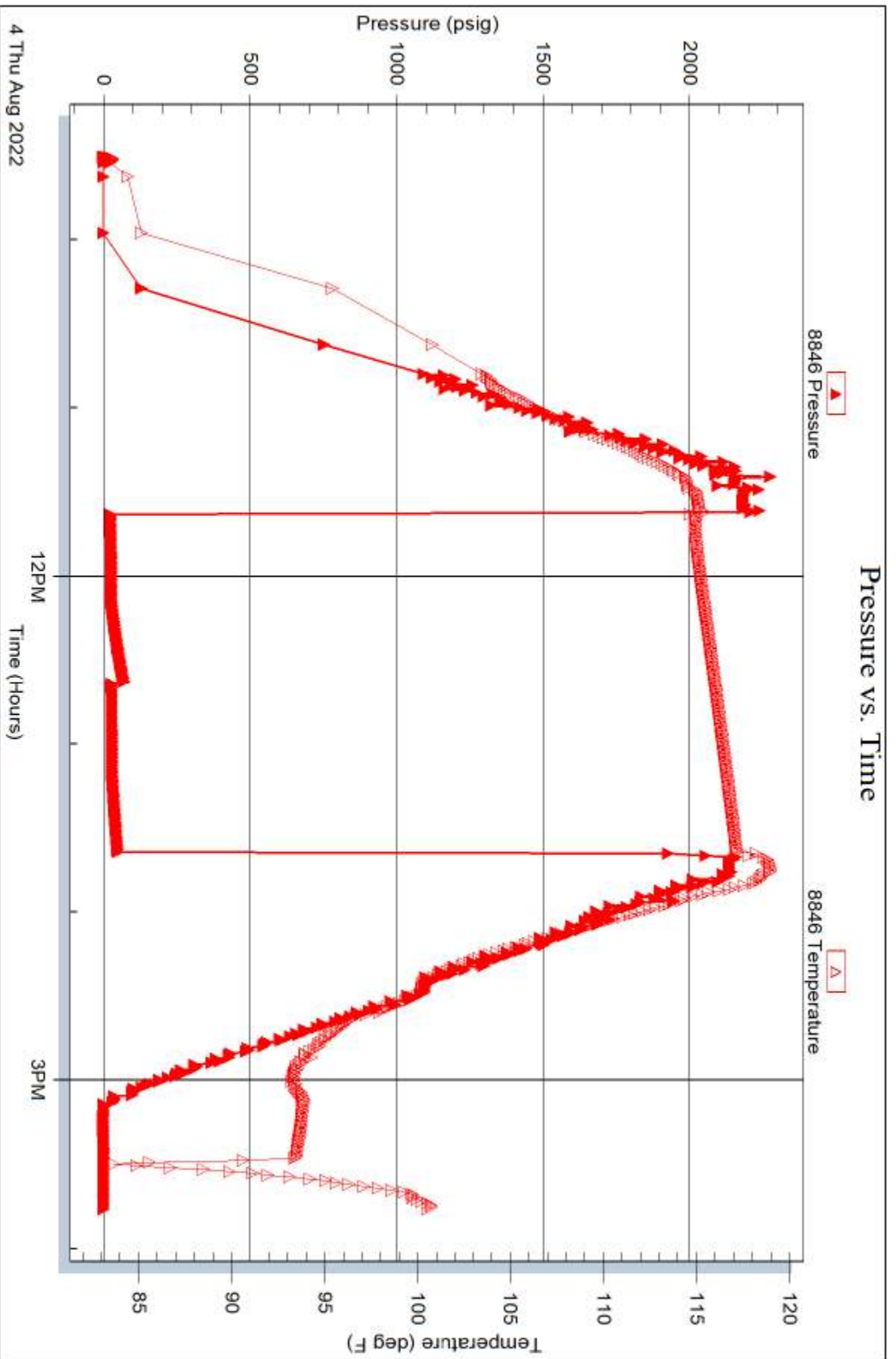
Serial #: 8846

Inside

American Warrior Inc.

Family Farm #4-9

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69527

Printed: 2022.08.08 @ 15:54:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69526

Well Name & No. Family Farm #4-9 Test No. 1 Date 8-2-22
 Company American Warrior Inc Elevation 2367 KB 2354 GL
 Address Po Box 359 Garden City, KS. 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 9
 Location: Sec. 9 Twp 24S Rge. 21w Co. Hodgeman State KS

Interval Tested 4374-4480 Zone Tested Altamont
 Anchor Length 86' Drill Pipe Run 4203 Mud Wt. 9.4
 Top Packer Depth 4386 Drill Collars Run 181 Vis 50
 Bottom Packer Depth 4390 Wt. Pipe Run Ø WL 10.0
 Total Depth 4480 Chlorides 4000 ppm System LCM 2
 Blow Description FF: Strong Building Blow built 84.76" (30)
FSI: 6.1" Blow Back (45)
FF: Strong Building Blow built 42.91" (45)
FSI: 2.67" Blow Back (60)

Rec	Feet of	%gas	%oil	%water	%mud
	<u>937' GIP</u>				
Rec <u>63</u>	Feet of <u>VSOCM</u>		<u>5</u>		
Rec <u>252</u>	Feet of <u>GMWCO</u>	<u>25</u>	<u>40</u>	<u>10</u>	<u>25</u>
Rec <u>+26 252</u>	Feet of <u>GANCW</u>	<u>20</u>	<u>15</u>	<u>40</u>	<u>25</u>
Rec <u>181</u>	Feet of <u>DSMCW</u>			<u>85</u>	<u>15</u>

Rec Total 748 BHT _____ Gravity _____ API RW 39 @ 91 °F Chlorides 14,000 ppm

(A) Initial Hydrostatic 2186 Test 1950 T-On Location OOK
 (B) First Initial Flow 85 Jars 300 T-Started 0123
 (C) First Final Flow 296 Safety Joint _____ T-Open 0411
 (D) Initial Shut-In 968 Circ Sub _____ T-Pulled 0705
 (E) Second Initial Flow 303 Hourly Standby _____ T-Out 1006
 (F) Second Final Flow 395 Mileage 152 148rt 222 Comments _____
 (G) Final Shut-In 1149 Sampler _____
 (H) Final Hydrostatic 2125 Straddle _____ EM Tool -350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total 2472 Sub Total -350
 Total 2122 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69527

Well Name & No. Family Farm #4-9 Test No. 2 Date 8/14/22
 Company American Union Inc Elevation 2367 KB 2354 GL
 Address PO Box 359 Garden City, KS. 67846
 Co. Rep / Geo. Kevin J. Rig Duke 9
 Location: Sec. 9 Twp 24S Rge. 21W Co. Hobbs State KS

Interval Tested 4593-4677 Zone Tested Miss Osage
 Anchor Length 84' Drill Pipe Run 4387 Mud Wt. 9.2
 Top Packer Depth 4585 Drill Collars Run 181 Vis 48
 Bottom Packer Depth 4589 Wt. Pipe Run Ø WL 8.4
 Total Depth 4677 Chlorides 3000 ppm System LCM 2
 Blow Description IF: weak Building Blow built .25" in bucket (30)
IS: No Blow Back (30)
FP: No Blow (30)
FSE: no blow back (30)

Rec	Feet of	%gas	%oil	%water	%mud
5	Mud			100	

Rec Total 5 BHT 119 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2250 Test 1950 T-On Location 0840
 (B) First Initial Flow 29 Jars 300 T-Started 0930
 (C) First Final Flow 30 Safety Joint _____ T-Open 1141
 (D) Initial Shut-In 74 Circ Sub _____ T-Pulled 1345
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 1545
 (F) Second Final Flow 33 Mileage 152 222 Comments _____
 (G) Final Shut-In 53 Sampler _____
 (H) Final Hydrostatic 2096 Straddle _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 2472 MP/DST Disc't _____

Approved By _____ Our Representative RB
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
 Po Box 359
 Garden City, Ks. 67846
 ATTN: Kevin Timson

9-24S-21W Hodgeman co

Family Farm #4-9

Job Ticket: 69527 **DST#: 2**
 Test Start: 2022.08.04 @ 09:30:03

GENERAL INFORMATION:

Formation: **Miss Osage**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:37:23
 Time Test Ended: 15:45:12
 Interval: **4593.00 ft (KB) To 4677.00 ft (KB) (TVD)**
 Total Depth: 4677.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 2367.00 ft (KB)
 2354.00 ft (CF)
 KB to GR/CF: 13.00 ft

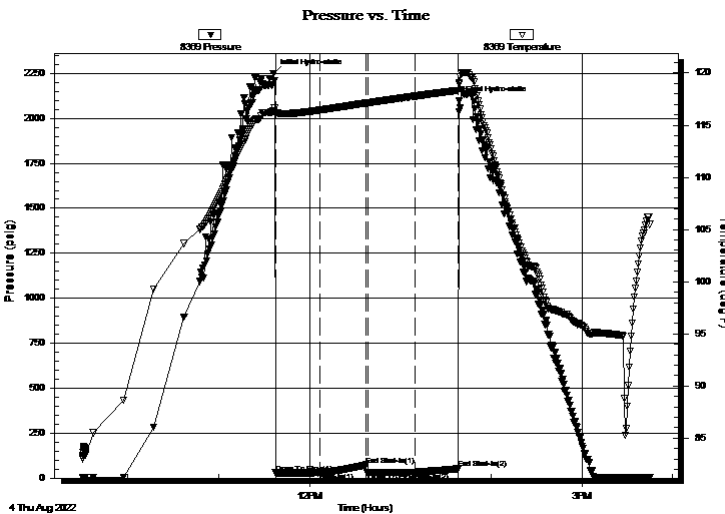
Serial #: 8369

Outside

Press@RunDepth: 32.75 psig @ 4597.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.04 End Date: 2022.08.04 Last Calib.: 2022.08.04
 Start Time: 09:30:04 End Time: 15:45:13 Time On Btm: 2022.08.04 @ 11:36:03
 Time Off Btm: 2022.08.04 @ 13:38:53

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (30)
 IS:No Blow Back (30)
 FF:No Blow (30)
 FS:No Blow Back (30)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.24	116.35	Initial Hydro-static
2	29.09	116.19	Open To Flow (1)
31	30.13	116.45	Shut-In(1)
62	74.04	117.13	End Shut-In(1)
63	32.22	117.14	Open To Flow (2)
94	32.75	117.78	Shut-In(2)
123	52.59	118.34	End Shut-In(2)
123	2095.98	119.05	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.
Po Box 359
Garden City, Ks. 67846
ATTN: Kevin Timson

9-24S-21W Hodgeman co

Family Farm #4-9

Job Ticket: 69527

DST#: 2

Test Start: 2022.08.04 @ 09:30:03

GENERAL INFORMATION:

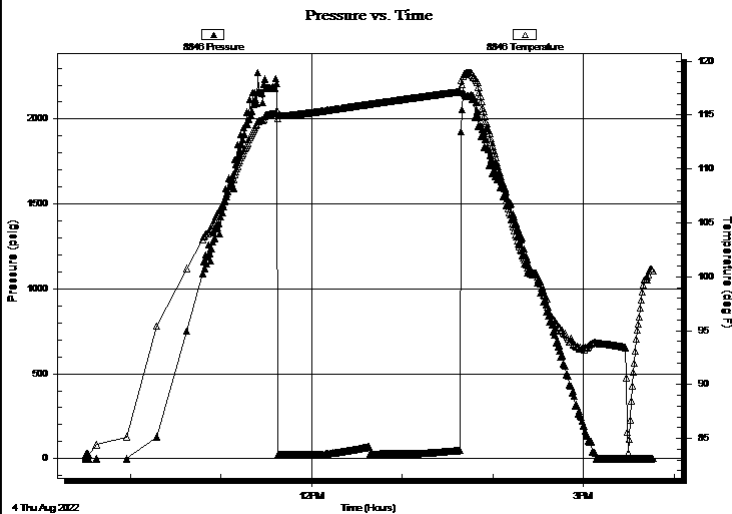
Formation: **Miss Osage**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 11:37:23 Tester: Eric Burgess
Time Test Ended: 15:45:12 Unit No: 80
Interval: 4593.00 ft (KB) To 4677.00 ft (KB) (TVD) Reference Elevations: 2367.00 ft (KB)
Total Depth: 4677.00 ft (KB) (TVD) 2354.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8846

Inside

Press@RunDepth: psig @ 4597.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.08.04 End Date: 2022.08.04 Last Calib.: 1899.12.30
Start Time: 09:30:32 End Time: 15:45:51 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (30)
IS:No Blow Back (30)
FF:No Blow (30)
FS:No Blow Back (30)



PRESSURE SUMMARY

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

Recovery

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

9-24S-21W Hodgeman co

Po Box 359
Garden City, Ks. 67846

Family Farm #4-9

Job Ticket: 69527

DST#: 2

ATTN: Kevin Timson

Test Start: 2022.08.04 @ 09:30:03

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: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

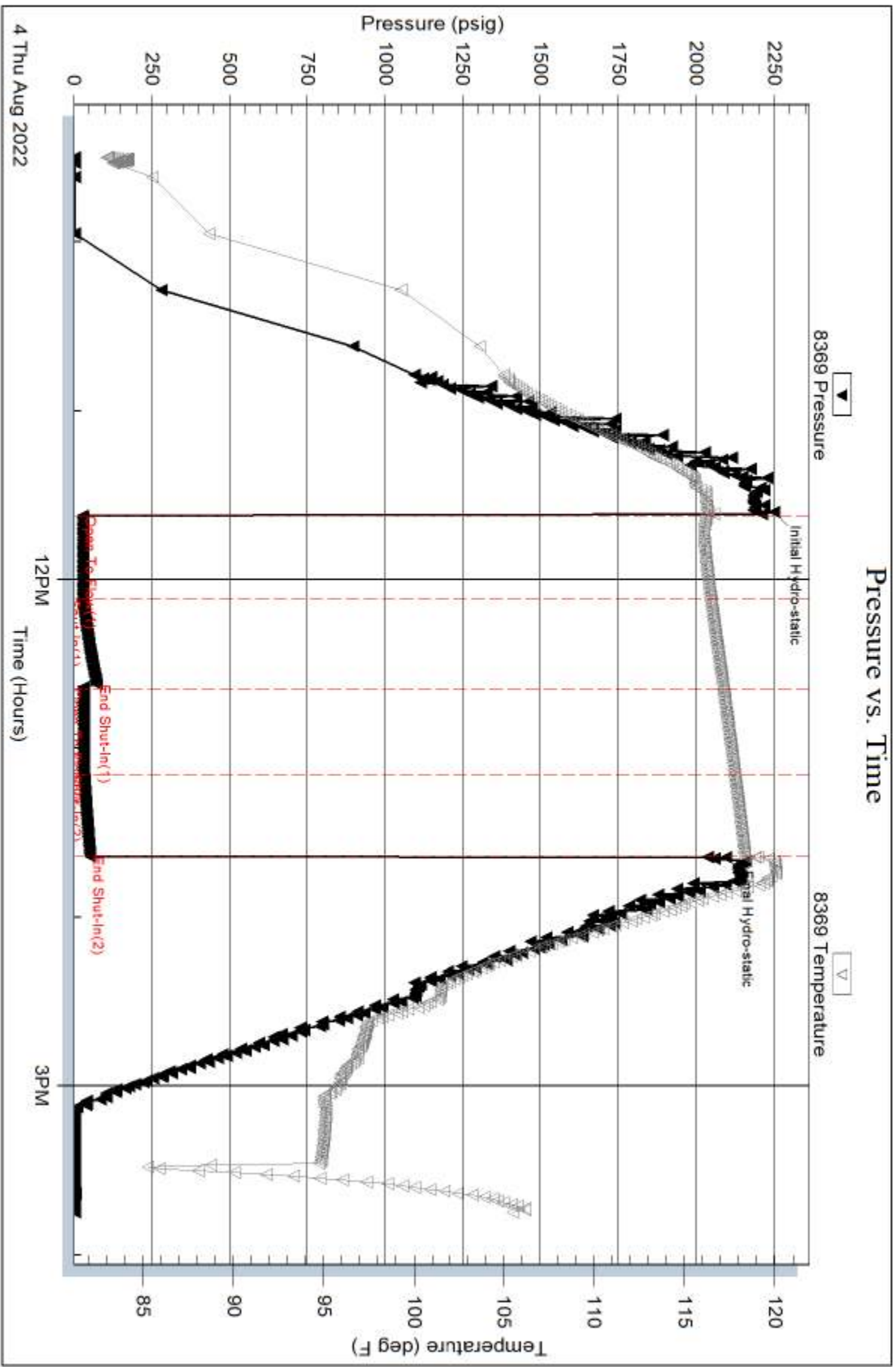
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



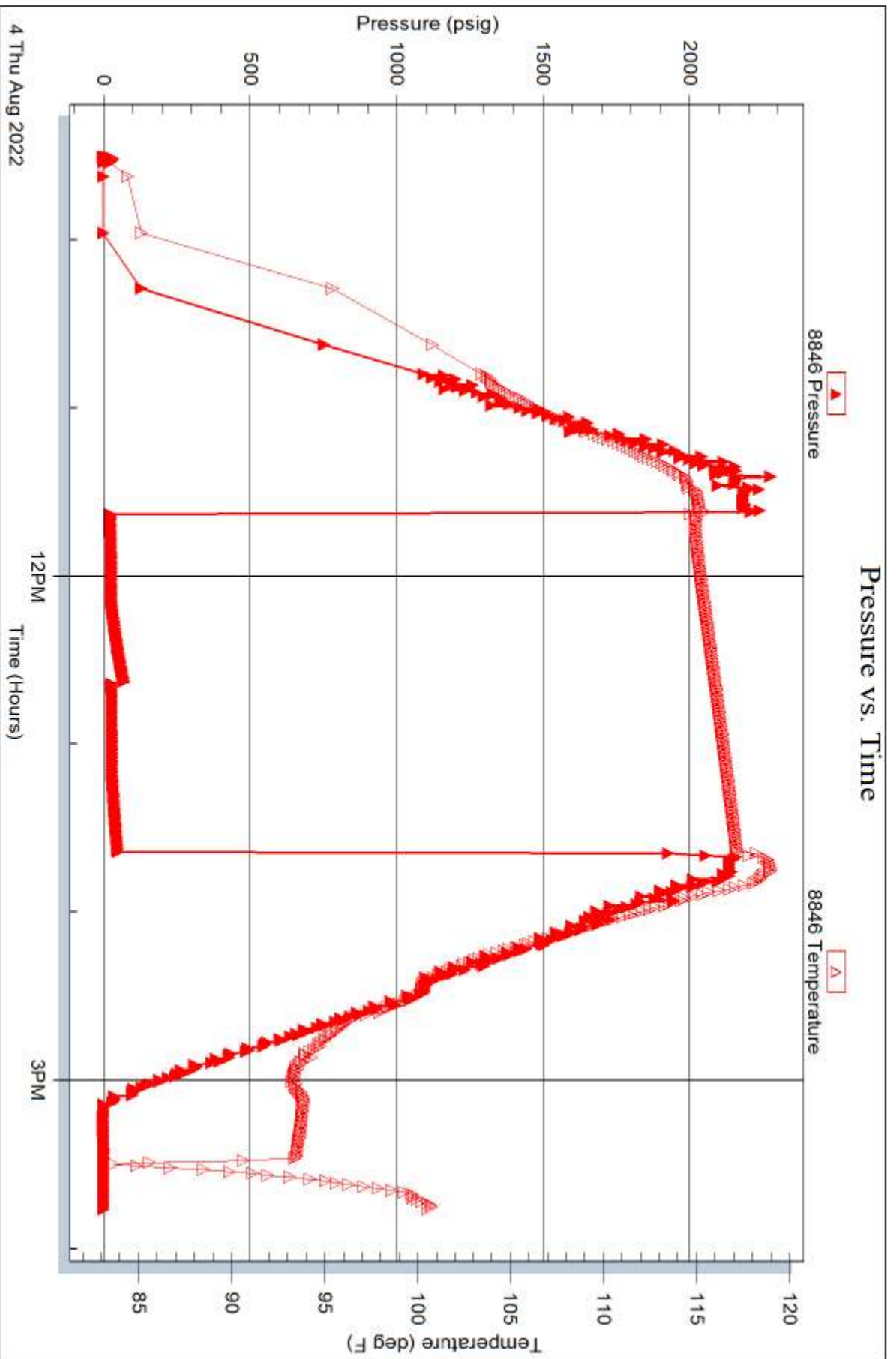
Serial #: 8846

Inside

American Warrior Inc.

Family Farm #4-9

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 69527

Printed: 2022.08.04 @ 16:43:21



CEMENT TREATMENT REPORT

Customer: American Warrior
City, State: Offerle KS
Field Rep: Amelio

Well: Family Farm #4-9
County: Hodgeman KS
S-T-R: 9-24S-21W

Ticket: WP 3153
Date: 7/29/2022
Service: Surface

Downhole Information

Hole Size: 12 1/4 in
Hole Depth: 315 ft
Casing Size: 8 5/8 in
Casing Depth: 313 ft
Tubing / Liner: in
Depth: ft
Tool / Packer: ft
Tool Depth: ft
Displacement: 18.7 bbbls

Calculated Slurry - Lead

Blend: H-325
Weight: 14.8 ppg
Water / Sx: 6.9 gal / sx
Yield: 1.41 ft³ / sx
Annular Bbls / Ft.: 0.0735 bbs / ft.
Depth: 313 ft
Annular Volume: 23.0 bbbls
Excess:
Total Slurry: 62.7 bbbls
Total Sacks: 250 sx

Calculated Slurry - Tail

Blend:
Weight: ppg
Water / Sx: gal / sx
Yield: ft³ / sx
Annular Bbls / Ft.: bbs / ft.
Depth: ft
Annular Volume: 0 bbls
Excess:
Total Slurry: 0.0 bbbls
Total Sacks: 0 sx

STAGE TOTAL
TIME RATE PSI BBLs BBLs REMARKS

4:33 PM	-	-	-	-	Arrived on location
4:43 PM	-	-	-	-	Safety meeting
4:53 PM	-	-	-	-	Rigged up
8:36 PM	3.0	150.0	5.0	5.0	Water ahead
8:38 PM	5.5	250.0	62.7	67.7	Mixed 250 sacks H-325 cement @ 14.8 ppg mud scale verified
8:56 PM	4.2	200.0	18.7	86.4	Begin displacement
9:01 PM		150.0		86.4	Plug down and shut in with 5 bbls cement circulated to pit
9:03 PM				86.4	Wash up and rigged down
9:30 PM				86.4	Left location
				86.4	

CREW		UNIT	
Cementer:	John	64	
Pump Operator:	Jose V	208	
Bulk #1:	Kate	205	
Bulk #2:			

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.2 bpm	188 psi	86 bbbls



Customer	American Warrior	Lease & Well #	Family Farm # 4-9	Date	8/5/2022
Service District	Oakley KS	County & State	Hodgeman KS	Legals S/IR	9-24S-21W
Job Type	<i>Long String</i>	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	78	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures		

Equipment #	78	Jesse	<input checked="" type="checkbox"/> Hard hat <input checked="" type="checkbox"/> H2S Monitor <input checked="" type="checkbox"/> Safety Footwear <input checked="" type="checkbox"/> FRC/Protective Clothing <input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Required Permits <input checked="" type="checkbox"/> Slip/Trip/Fall Hazards <input checked="" type="checkbox"/> Overhead Hazards <input type="checkbox"/> Additional concerns or issues noted below	<input type="checkbox"/> Warning Signs & Flagging <input type="checkbox"/> Fall Protection <input checked="" type="checkbox"/> Specific Job Sequence/Expectations <input checked="" type="checkbox"/> Muster Point/Medical Locations
230	Michael	Tyler	<input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Eye Protection <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Additional Chemical/Acid PPE <input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Additional concerns or issues noted below	<input type="checkbox"/> Warning Signs & Flagging <input type="checkbox"/> Fall Protection <input checked="" type="checkbox"/> Specific Job Sequence/Expectations <input checked="" type="checkbox"/> Muster Point/Medical Locations
527-254					

Comments

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	175.00	\$6,125.00
CP055	H-Plug	sack	50.00	\$700.00
M015	Light Equipment Mileage	mi	140.00	\$280.00
M010	Heavy Equipment Mileage	mi	280.00	\$1,120.00
M020	Ton Mileage	tn	1,449.00	\$2,173.50
R061	Service Supervisor	day	1.00	\$275.00
D015	Depth Charge: 4001'-5000'	job	1.00	\$2,500.00
C060	Cement Blending & Mixing Service	sack	225.00	\$315.00
C050	Cement Plug Container	job	1.00	\$250.00
C035	Cement Data Acquisition	job	1.00	\$250.00
FE130	5 1/2" Cement Basket	ea	1.00	\$300.00
FE135	5 1/2" Turbolizer	ea	9.00	\$1,125.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$375.00
FE165	5 1/2" Port Collar	ea	1.00	\$3,500.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
CP170	Mud Flush	gal	500.00	\$500.00
AF055	Liquid KCL Substitute	gal	5.00	\$150.00
CP137	Liquid Defoamer	gal	1.00	\$73.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

Unlikely	1	2	3	4	5	6	7	8	9	10	Extremely Likely
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total Taxable	\$	-	Tax Rate:	-	Net:	\$20,361.50
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.						
Sale Tax:						\$
Total:						\$ 20,361.50

HSI Representative: *Jesse James*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE

X



CEMENT TREATMENT REPORT

Customer: American Warrior	Well: Family Farm # 4-9	Ticket: WP-3190
City, State: Jetmore KS	County: Hodgeman KS	Date: 8/5/2022
Field Rep: Jesse	S-T-Rt: 9-24S-21W	Service: Long string

Downhole Information

Hole Size: 7 7/8 in
Hole Depth: 4690 ft
Casing Size: 5 1/2 in
Casing Depth: 4687 ft
Tubing / Liner: in
Depth: ft
Tool / Packer: Port collar
Tool Depth: 1525 ft
Displacement: 110.5 bbls

Calculated Slurry - Lead

Blend: H-Long
Weight: 15.0 ppg
Water / Sx: 6.2 gal / sx
Yield: 1.36 ft³ / sx
Annular Bbls / Ft.: 0.0309 bbls / ft.
Depth: 4687 ft
Annular Volume: 144.8 bbls
Excess:
Total Slurry: 42.3 bbls
Total Sacks: 175 sx

Calculated Slurry - Tail

Blend: H-Plug
Weight: 13.8 ppg
Water / Sx: 6.9 gal / sx
Yield: 1.42 ft³ / sx
Annular Bbls / Ft.: bbls / ft.
Depth: ft
Annular Volume: 0 bbls
Excess:
Total Slurry: 12.6 bbls
Total Sacks: 50 sx

STAGE TOTAL
BBLs BBLs REMARKS

TIME	RATE	PSI	BBLs	BBLs	REMARKS
11:00a	-		-	-	Arrival
11:05a	-		-	-	Safety meeting
11:30a	-		-	-	Run float equipment
1:38p	-		-	-	Drop ball
1:40p	-		-	-	Rig up
1:50p	-		-	-	Circulate hole for 1 hour
3:00p	5.2	320.0	5.0	5.0	H2O ahead
3:07p	5.1	330.0	12.0	17.0	Mixed 500 gallons of mud flush
3:08p	5.0	300.0	5.0	22.0	H2O behide
3:08p	3.0	120.0	7.5	29.5	Mixed 30 sks of H-plug @ 13.6 ppg @ Rat hole
3:11p	3.0	120.0	5.0	34.5	Mixed 20 sks of H-plug @ 13.8 ppg @ Mouse hole
3:15p	4.5	550.0	42.3		Mixed 175 sks of H-long @ 15 ppg @ 4687'
3:28p					Shut down and wash up
3:30p					Drop plug
3:33p	7.0	330.0	110.5		Displaced H2O
4:00p	3.0	1,270.0	110.0		Land plug
4:05p					Wash up
4:15p					Rig down
4:45p					Depart location

CREW		UNIT	SUMMARY	
Cementor: Jesse		78	Average Rate	Total Fluid
Pump Operator: Michael		230	4.5 bpm	297 bbls
Bulk #1: Tyler		527-254	418 pci	
Bulk #2:				



CHARGE TO: *American Warrior Inc.*
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 34490

PAGE 1 OF 1

1. SERVICE LOCATIONS <i>Ness City</i>	WELL/PROJECT NO. <i>4-9</i>	LEASE <i>Family Farms</i>	COUNTY/PARISH <i>Hedgesman</i>	STATE <i>KS</i>	CITY	DATE <i>8-12-22</i>	OWNER
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>American Warrior Inc.</i>		RIG NAME/NO.	SHIPPED VIA <i>ET</i>	DELIVERED TO <i>location</i>	ORDER NO.	
3. WELL TYPE <i>oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Port Collar</i>		WELL PERMIT NO.	WELL LOCATION <i>Honston 8-S, 4-E, 2-S, 14-E, 5-into</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>		<i>1</i>			MILEAGE <i>Truck 112</i>	<i>50</i>	<i>mi</i>			<i>7.00</i>	<i>350.00</i>
<i>576D</i>		<i>1</i>			<i>pump charge</i>	<i>1</i>	<i>July</i>			<i>1600.00</i>	<i>1600.00</i>
<i>330</i>		<i>1</i>			<i>5 MD Cement</i>	<i>140</i>	<i>SKS</i>			<i>19.50</i>	<i>2730.00</i>
<i>276</i>					<i>Flocele</i>	<i>50</i>	<i>lbs</i>			<i>3.00</i>	<i>150.00</i>
<i>290</i>		<i>1</i>			<i>D-Air</i>	<i>2</i>	<i>gal</i>			<i>42.00</i>	<i>84.00</i>
<i>105</i>		<i>1</i>			<i>Port Collar Tool Rental w/man</i>	<i>1</i>	<i>eq</i>			<i>300.00</i>	<i>300.00</i>
<i>581</i>		<i>1</i>			<i>Service Charge Cmt</i>	<i>175</i>	<i>SKS</i>			<i>2.00</i>	<i>350.00</i>
<i>583</i>		<i>1</i>			<i>Drayage</i>	<i>1445</i>	<i>lbs</i>	<i>435</i>	<i>T/M</i>	<i>1.00</i>	<i>435.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	<i>5999.00</i>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>Hedgesman</i>	<i>244.80</i>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	<i>6243.80</i>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Preston Deane*

APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8-12-22

PAGE NO. 1

CUSTOMER
American Nuclear Inc.

WELL NO.
4-1

LEASE
Family Farms

JOB TYPE
Part Collar

TICKET NO. 34490

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		LEASE PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	8:45							ON location 2 3/8" 5 1/2" PC 1572'
	9:15		9		✓		1000	Test BS hold ★ open PC
	9:30	3 1/2	400		✓			Injection Rate
	9:35	4	275		✓	400		MIX 140 SKS SMP @ 11.2 Apg displace CMF
		4	5		✓	400		Close PC
	10:00				✓	1000		Test hold ★ Run 4 joints
	10:10	3 1/2	25		✓		400	Reverse Clean
	10:25							wash truck
	10:50							Job Complete Thanks! Proctor, Kirby, Shane
								140 SKS SMP used 15 to pit



American Warrior, Inc.

Kevin Timson - Geologist
 3118 Cummings Rd
 Garden City, KS 67846
 (785) 819-4629 cell
 (620) 275-5067 office

WELL Family Farm #4-9	API #: 15-083-22014-0000	LOCATION: Hodgeman County, KS 1212' FNL & 1968' FEL 9-T24s-R21w	Elevation KB: 2367' GL: 2354' Measurements from KB
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Lithology Key

	Limestone		Shale
	Shaley Limestone		Silty Shale
	Sandy Limestone		Cherty Shale
	Fossil Limestone		Shaley Sandstone
	Cherty Limestone		Sandstone
	Oolitic Limestone		Cherty Dolomite
	Silty Limestone		Dolomite
	Shale Interbed		Oolitic Dolomite
	Limestone Interbed		CFS
	Black Shale		

Curve Data:

Left Column:
 ROP (min/foot)
 Gamma Ray

Right Column:
 Gas (units)
 Density Porosity
 Neutron Porosity

Geologist: Kevin Timson (American Warrior, Inc.)

Drilling Contractor: Duke Rig #9

Drilling time from: 4200' - TD

Samples from: 4200' - RTD

Geological Supervision from: 4200' - TD

Correlating Log: Family Farm #1-9 (AWI 9-24s-21w)

Surface Casing: 8 5/8" 24# set @ 315'

Production Casing: 5 1/2" 15.5# set @ 4685'

RTD: 4687'

LTD: 4690'

Formation	Top	Log Datum	Correlating Well Top	Correlating Well Datum	Correlating Well Structural Comparison
Anhydrite	1449'	+918	NA		NA
Base	1481'	+886	NA		NA
Heebner	3973'	-1606	3961'	-1591	-15
Lansing	4063'	-1696	4050'	-1680	-16
BKC	4421'	-2054	4409'	-2039	-15
Marmaton	4439'	-2072	4433'	-2063	-9
Fort Scott	4591'	-2224	4577'	-2207	-17
Cherokee	4614'	-2247	4603'	-2233	-14
Warsaw	4661'	-2294	4650'	-2280	-14
Osage	4667'	-2300	4656'	-2280	-14
RTD	4687'	-2320	NA		NA
LTD	4690'	-2323	NA		NA

Status: LOC

○

Conclusion- The location for the Family Farm via 3D seismic survey. The new well ran as expected, which recovered commercial quantities from the Marmaton formation. After all the geology had been examined, the decision was made to production casing to further evaluate the well.

