

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	American Warrior, Inc.
Well Name	CHRISTOPHER 1-15
Doc ID	1662993

Tops

Name	Top	Datum
Anhydrite	2621	585
Base	2643	563
Topeka	3761	-555
Heebner	3987	-781
LKC	4031	-825
Stark	4272	-1066
BKC	4340	-1134
Marmaton	4384	-1178
Fort Scott	4530	-1324
Cherokee	4561	-1355
Johnson	4624	1469
Morrow	4675	-1469
RTD	4700	-1494





**CEMENT TREATMENT REPORT**

Customer: American Warrior	Well: Christopher # 1-15	Ticket: WP-3143
City, State: Winona KS	County: Logan KS	Date: 7/28/2022
Field Rep: Jesse	S-T-R: 15-12S-36W	Service: Surface

**Downhole Information**

Hole Size:	12 1/4 in
Hole Depth:	480 ft
Casing Size:	8 5/8 in
Casing Depth:	479 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	29.3 bbls

**Calculated Slurry - Lead**

Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	480 ft
Annular Volume:	35.3 bbls
Excess:	
Total Slurry:	94.2 bbls
Total Sacks:	375 sx

**Calculated Slurry - Tail**

Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE	TOTAL	REMARKS
			BBLs	BBLs	
8:45a			-		Arrival
8:50a			-		Safety meeting
9:00a			-		Rig up
9:15a			-		Circulate hole
9:23a	5.1	240.0	5.0	5.0	H2O ahead
9:26a	6.0	600.0	94.2	99.2	Mixed 375 sks of H-325 @ 14.8 ppg @ 480'
9:45a	6.3	450.0	29.0	128.2	Displaced H2O
10:00a				128.2	Plug down
10:03a				128.2	Wash up
10:09a				128.2	Rig down
10:35a				128.2	Depart location
					Circulated 5 bbl to pit

CREW		UNIT		SUMMARY	
Cementer:	Jesse	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael	230	5.8 bpm	430 psi	128 bbls
Bulk #1:	Tyler	194/253			
Bulk #2:					



Customer		American Warrior		Lease & Well #		Christopher # 1-15		Date	
Service District		Oakley KS		County & State		Logan KS		Legals S/T/R	
Job Type		Surface		IN		SWD		New Well?	
Equipment #		78		PROD		YES		No	
Driver		Jesse		Lockout/Tagout		Warning Signs & Flagging		Ticket #	
230		Michael		Eye Protection		Fall Protection		7/28/2022	
194/253		Tyler		Respiratory Protection		Slip/Trip/Fall Hazards		Job #	
				FRC/Protective Clothing		Overhead Hazards		Specific Job Sequence/Expectations	
				Hearing Protection		Additional concerns or issues noted below		Muster Point/Medical Locations	
								WP-3143	
<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>									
<b>Comments</b>									
<b>Product/Service Code</b>									
<b>Description</b>									
<b>Unit of Measure</b>									
<b>Quantity</b>									
<b>Net Amount</b>									
CP015	H-325			sack	375.00				\$8,100.00
MO15	Light Equipment Mileage			mi	35.00				\$70.00
MO10	Heavy Equipment Mileage			mi	70.00				\$280.00
MO20	Ton Mileage			tn	663.00				\$994.50
RO61	Service Supervisor			day	1.00				\$264.00
DO10	Depth Charge: 0-500'			job	1.00				\$960.00
CO60	Cement Blending & Mixing Service			sack	375.00				\$504.00
CO35	Cement Data Acquisition			job	1.00				\$240.00
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>									
<b>Based on this job, how likely is it you would recommend HSI to a colleague?</b>									
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely									
						Total Taxable \$		Tax Rate:	
						Net:		\$11,412.50	
						Sale Tax:		\$	
						Total:		\$ 11,412.50	
HSI Representative: <i>Jesse Jones</i>									

**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.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 P.O. Box 399  
 Garden City, Ks 67846  
 ATTN: Marc Downing

**15-12-36 Logan, Ks**  
**Christopher 1-15**  
 Job Ticket: 67995 **DST#: 1**  
 Test Start: 2022.08.01 @ 01:57:21

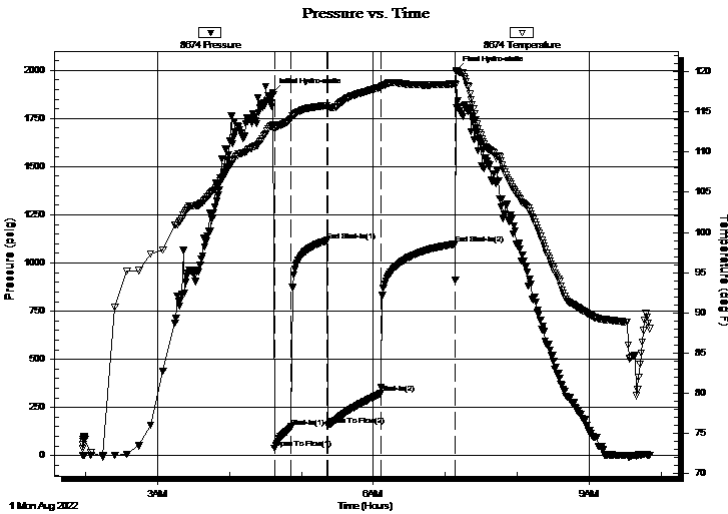
## GENERAL INFORMATION:

Formation: **Topeka- Deer Creek**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:37:21  
 Time Test Ended: 09:50:21  
 Interval: **3861.00 ft (KB) To 3931.00 ft (KB) (TVD)**  
 Total Depth: 3961.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3206.00 ft (KB)  
 3195.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8674 Outside**  
 Press@RunDepth: 322.51 psig @ 3862.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.08.01 End Date: 2022.08.01 Last Calib.: 2022.08.01  
 Start Time: 01:57:26 End Time: 09:50:20 Time On Btm: 2022.08.01 @ 04:35:51  
 Time Off Btm: 2022.08.01 @ 07:08:51

TEST COMMENT: IF: BOB in 9 mins. 14 1/2  
 IS: No return.  
 FF: BOB in 10 mins. 23  
 FS: No return. 15-30-45-60

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.34	113.28	Initial Hydro-static
2	38.32	112.95	Open To Flow (1)
16	149.59	114.18	Shut-In(1)
46	1116.64	115.79	End Shut-In(1)
46	155.87	115.46	Open To Flow (2)
90	322.51	118.04	Shut-In(2)
152	1098.28	118.49	End Shut-In(2)
153	1999.43	120.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
441.00	mcw 90%w 10%m	4.55
315.00	mcw 60%w 40%m	4.42

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Inc  
P.O. Box 399  
Garden City, Ks 67846  
ATTN: Marc Downing

**15-12-36 Logan, Ks**  
**Christopher 1-15**  
Job Ticket: 67995      **DST#: 1**  
Test Start: 2022.08.01 @ 01:57:21

### Mud and Cushion Information

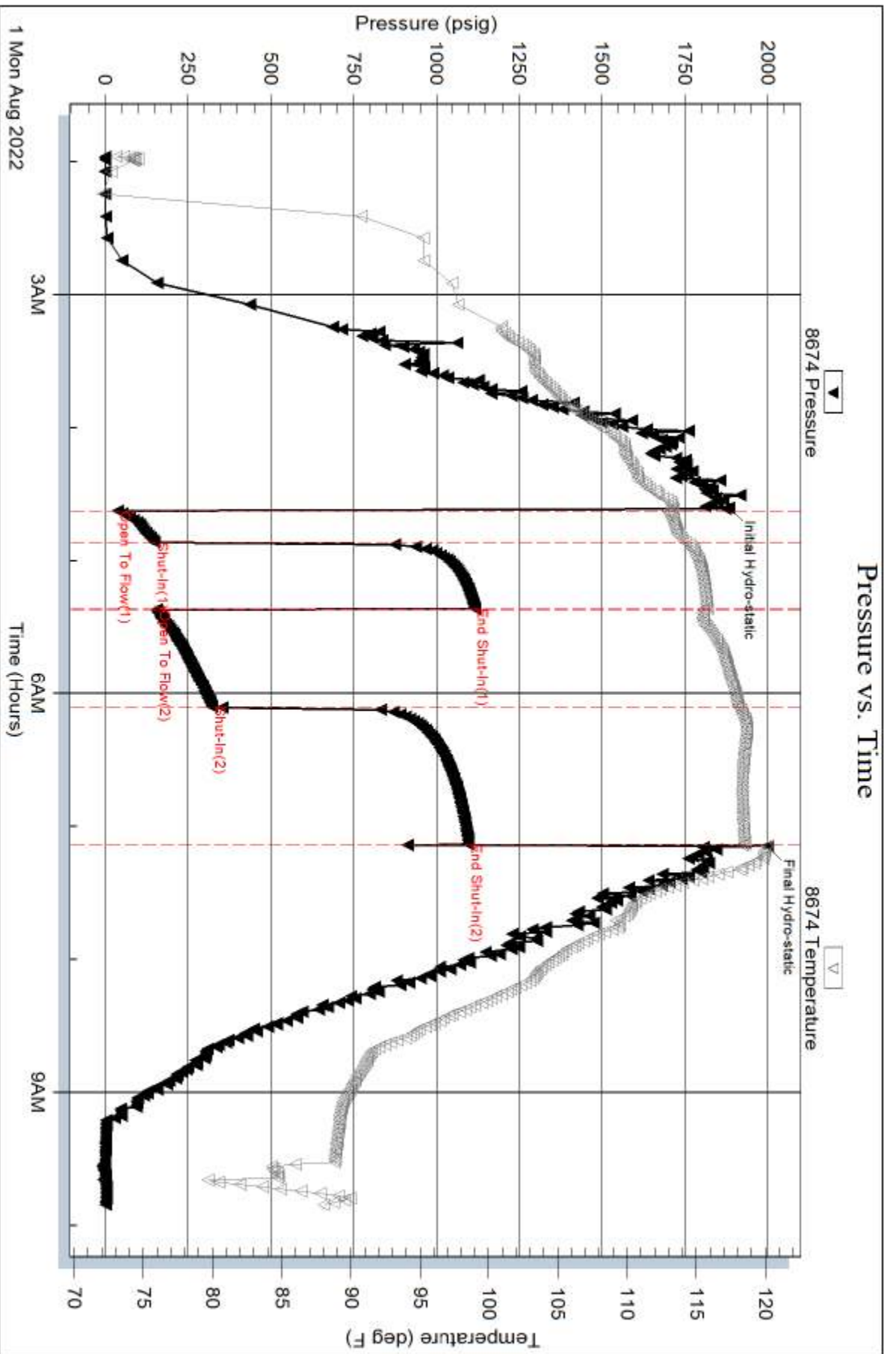
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 17000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2300.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
441.00	mcw 90%w 10%m	4.546
315.00	mcw 60%w 40%m	4.419

Total Length: 756.00 ft      Total Volume: 8.965 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .39@71=17000



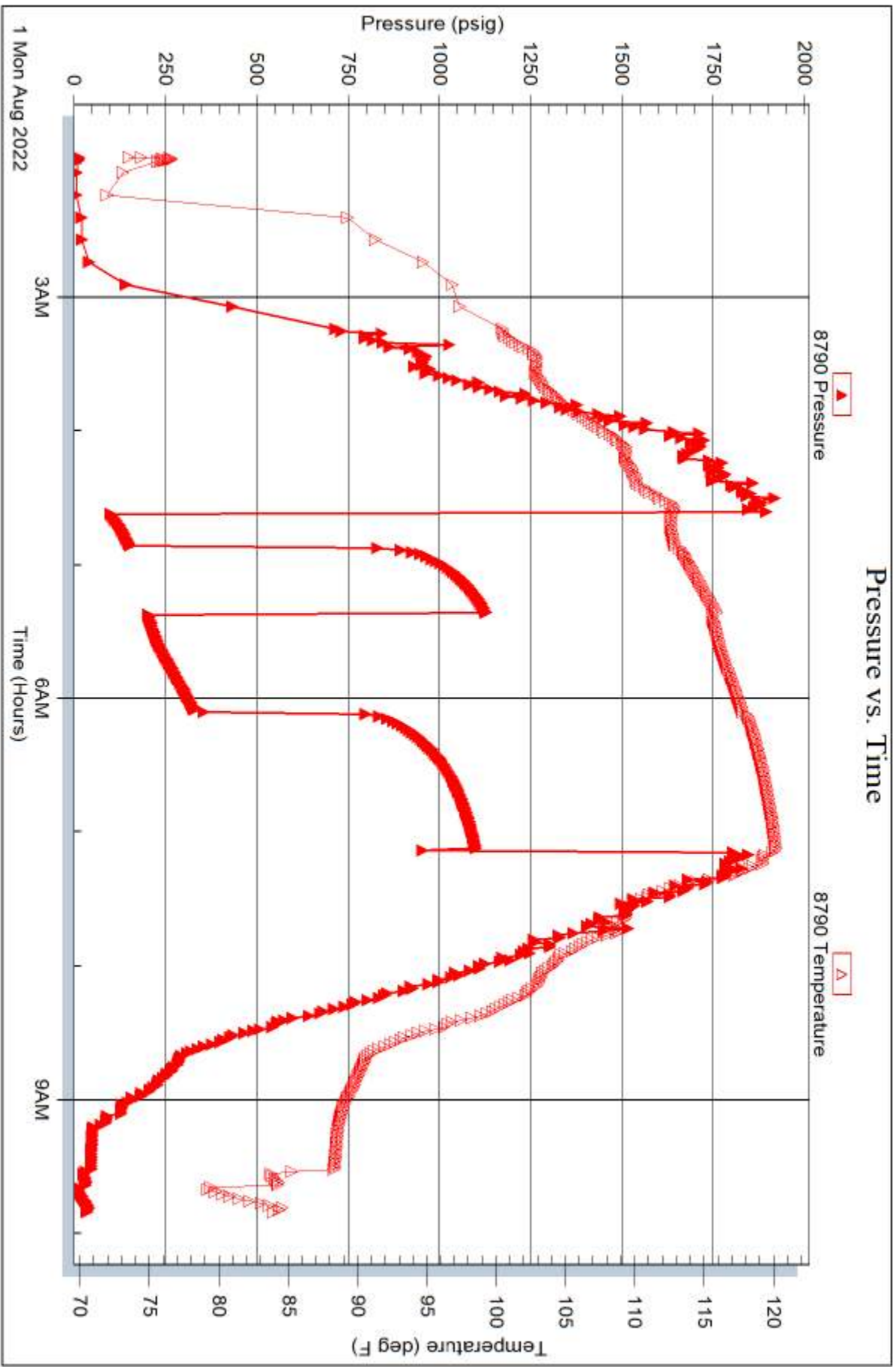
Serial #: 8790

Inside

American Warrior Inc

Christopher 1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67995

Printed: 2022.08.01 @ 13:41:02

**Marc A. Downing**  
**Consulting Petroleum Geologist**

**Geologic Report**

**Drilling Time and Sample Log**

Operator **American Warrior, Inc.** Elevation **3206**  
 Lease **Christopher** No. **1-15** DF **3204** GL **3195**  
 API # **15-109-21648-0000** Casing Record Surface **8 5/8" @ 477'**  
 Field **Wildcat** Production **None**  
 Location **2304' FNL & 1673' FWL** Electrical Surveys **None**  
 Sec. **15** Twp. **12s** Rge. **36w**

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	2621		+585	-20
Base Anhydrite	2643		+563	-19
Topeka	3761		-555	-1
Heebner	3987		-781	+3
LKC	4031		-825	+3
Stark	4272		-1066	+6
BKC	4340		-1134	+8
Marmaton	4384		-1178	+4
Fort Scott	4530		-1324	+1
Cherokee Sh	4561		-1355	+2
Johnson Zone	4624		-1418	-1
Morrow	4675		-1469	+5
Total Depth	4700		-1494	

County **Logan** State **Kansas**

Reference Well For Structural Comparison **Mull Drilling - Andrews #1**  
 SW NE SE Sec. 15-12s-36w

Drilling Contractor **Duke Drilling, Rig #5**  
 Commenced **7-27-22** Completed **8-4-22**  
 Samples Saved From **3650** To **RTD**  
 Drilling Time Kept From **3600** To **RTD**  
 Samples Examined From **3650** To **RTD**  
 Geological Supervision From **3650** To **RTD**

**Summary and Recommendations**

**Due to structural position, DST recovery, and lack of sample shows, it was decided to plug and abandon the well.**

Respectfully Submitted,  
 Marc A. Downing

**ROCK TYPES**  
 shale, red shale, red shale, gray, carbon sh, shale, grn

**ACCESSORIES**  
 STRINGER: Siltstone, green shale, red shale, carb shale

**OTHER SYMBOLS**  
 DST: DST int, DST at, DST in, DST out, DST pipe

**MISC**  
 Daily Report, Digital Photo, Document, Folder, Link, Vertical Log File, Horizontal Log File, Core Log File, Drill Cuttings Rpt

**OIL SHOWS**  
 Even Sh, Spotted Sh, Spotted Sh, Questionable Sh, Dead Oil Sh, Fluorescence

**MINERAL**  
 Chert, dark, Glauconite, Spotted Sh, Chert White

