

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
--	---

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	O'BRATE-GRAY 1-11
Doc ID	1645201

Tops

Name	Top	Datum
Anhydrate	1961	872
Base	2057	776
Heebner	4044	-1211
Lansing	4094	-1261
BKC	4543	-1710
Marmaton	4564	-1731
Pawnee	4636	1803
Fort Scott	4662	-1829
Cherokee	4678	-1845
Morrow	4794	-1961
St. Gen	4805	-1972
RTD	5000	-2167
LTD	4994	-2161



Form 185-2J

**QUASAR ENERGY SERVICES, INC.**

3288 FM 51

Gainesville, Texas 76240

Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com



QUASAR  
ENERGY SERVICES, INC.

www.quasarenergyservices.com

**FRACTURING | ACID | CEMENT | NITROGEN**

<b>BID #:</b> 5359		<b>AFE#/PO#:</b>				
<b>TYPE / PURPOSE OF JOB:</b> SURFACE			<b>SERVICE POINT:</b> Liberal, KS			
<b>CUSTOMER:</b> AMERICAN WARRIOR			<b>WELL NAME:</b> OBRATE GRAY 1-11			
<b>ADDRESS:</b> PO BOX 399			<b>LOCATION:</b> CHARLESTON, KS			
<b>CITY:</b> GARDEN CITY	<b>STATE:</b> KS	<b>ZIP:</b> 67846	<b>COUNTY:</b> GRAY	<b>STATE:</b> KS		
<b>DATE OF SALE:</b> 5/11/2012						
QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED	UNIT PRICE	AMOUNT
80	1000	L	Mile	Mileage - Pickup - Per Mile	\$5.31	\$ 424.80
160	1010	L	Mile	Mileage - Equipment Mileage - Per Mile	\$8.30	\$ 1,328.00
1	5622	L	Per Well	Pumping Service Charge -1	\$2,315.25	\$ 2,315.25
3	1020	L	Per Unit/HR	Wait - Per Unit Per Hour	\$550.00	\$ 1,650.00
<b>Subtotal for Pumping &amp; Equipment Charges</b>						<b>\$ 5,718.05</b>
QTY.	CODE	YD	UNIT	MATERIALS	UNIT PRICE	AMOUNT
205	5630	L	Per Sack	Cement - Class A	\$16.54	\$ 3,390.70
1	4800	L	Each	Texas Pattern Saw Tooth 8 5/8"	\$343.98	\$ 343.98
600	5770	L	Per Lb.	Calcium Chloride	\$1.46	\$ 876.00
48	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut	\$2.65	\$ 127.20
400	5850	L	Per Lb.	Gypsum	\$1.00	\$ 400.00
400	5900	L	Per Lb.	Sodium Metasilicate (SMS) C-45	\$2.32	\$ 928.00
<b>Subtotal for Material Charges</b>						<b>\$ 6,065.88</b>
<b>MANHOURS: 0</b>		<b># WORKERS: 3</b>		<b>TOTAL</b>		\$ 11,783.93
<b>WORKERS</b>			<b>DISCOUNT:</b>		<b>DISCOUNT</b>	\$ 1,178.39
			<b>DISCOUNTED TOTAL</b>			<b>\$ 10,605.54</b>
<b>MANHOURS: 0</b> <b># WORKERS: 3</b> Chad Hinz Jesse Paxton Ruben Martinez				<b>DISCOUNTED TOTAL</b> \$ <b>10,605.54</b>		
<b>STAMPS &amp; NOTES:</b>				As of 9/22/15 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.		
				<b>CUSTOMER SIGNATURE &amp; DATE</b>		
				Signature: Juan Carlos	Date: 5/11/22	
*All accounts are past due net 30 days following the date of invoice. A finance charge of 1-1/2% per month or 18% annual percentage rate will be charged on all past due accounts.				Print Name:		





QUASAR ENERGY SERVICES, INC.

3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336
Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2J

5/11/12
CEMENTING JOB LOG

CEMENTING JOB LOG

Company: AMERICAN WARRIOR Well Name: OBRATE GRAY 1-11
Type Job: SURFACE AFE #:
CASING DATA
Size: 8 5/8 Grade: J-55 Weight: 24
Casing Depths Top: 0 Bottom: 490
Drill Pipe: Size: 0 Weight: 0
Tubing: Size: 0 Weight: 0 Grade: 0 TD (ft): 498
Open Hole: Size: 12 1/4 T.D. (ft): 498
Perforations From (ft): To: Packer Depth(ft):
CEMENT DATA
Spacer Type:
Amt. Sks Yield ft^3/sk Density (PPG)
LEAD: Excess
Amt. Sks Yield ft^3/sk Density (PPG)
TAIL: CLASS A 2%SMS, 2%GY, 3%CaCl, 1/4#POLY Excess
Amt. 205 Sks Yield 1.86 ft^3/sk Density (PPG) 13.33
WATER:
Lead: gals/sk: Tail: 9.75 gals/sk: Total (bbls): 47.6
Pump Trucks Used: 210-DP11
Bulk Equipment: 228 660-20
Disp. Fluid Type: FRESH Amt. (Bbls.) 29 Weight (PPG): 8.33
Mud Type: Weight (PPG):

COMPANY REPRESENTATIVE: CEMENTER: Chad Hinz

Table with columns: TIME (AM/PM), PRESSURES PSI (Casing, Tubing, ANNULUS), FLUID PUMPED DATA (TOTAL, RATE), REMARKS. Includes entries for 000, 0740, 0815, 0828.

**QUASAR ENERGY SERVICES, INC.**

3288 FM 51

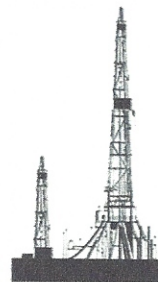
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www.quasarenergyservices.com


**FRACTURING | ACID | CEMENT | NITROGEN**

<b>BID #:</b> 5418		<b>AFE#/PO#:</b> 0	
<b>TYPE / PURPOSE OF JOB:</b> PLUG/PTA		<b>SERVICE POINT:</b> Liberal, KS	
<b>CUSTOMER:</b> AMERICAN WARRIOR		<b>WELL NAME:</b> OBRATE GRAY 1-11	
<b>ADDRESS:</b> PO BOX 399		<b>LOCATION:</b> GARDEN CITY, KS	
<b>CITY:</b> GARDEN CITY	<b>STATE:</b> KS	<b>ZIP:</b> 67846	<b>COUNTY:</b> GRAY
<b>DATE OF SALE:</b> 5/17/2022		<b>STATE:</b> KS	

QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED	UNIT PRICE	AMOUNT
80	1000	L	Mile	Mileage - Pickup - Per Mile	\$5.31	\$ 424.80
160	1010	L	Mile	Mileage - Equipment Mileage - Per Mile	\$8.30	\$ 1,328.00
1	5622	L	Per Well	Pumping Service Charge -1	\$2,315.25	\$ 2,315.25

**Subtotal for Pumping & Equipment Charges \$ 4,068.05**

QTY.	CODE	YD	UNIT	MATERIALS	UNIT PRICE	AMOUNT
250	5660	L	Per Sack	Cement - Lite - A	\$16.54	\$ 4,135.00
54	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut	\$2.65	\$ 143.10

**MANHOURS: 36      # WORKERS: 3      Subtotal for Material Charges \$ 4,278.10**

WORKERS	DISCOUNT:	0%	DISCOUNT	TOTAL	\$	AMOUNT
KIRBY HARPER				\$		8,346.15
CARLOS IBARRA				\$		-
RUBIN MARTINEZ				\$		8,346.15

<b>STAMPS &amp; NOTES:</b>	As of 9/22/15 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.
	<b>CUSTOMER SIGNATURE &amp; DATE</b>
	Signature: <i>Juan C Cervantes</i> Date: _____
	Print Name: _____

\*All accounts are past due net 30 days following the date of invoice. A finance charge of 1-1/2% per month or 18% annual percentage rate will be charged on all past due accounts.





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Form 185-2J

5/17/22

CEMENTING JOB LOG

**CEMENTING JOB LOG**

<b>Company:</b> AMERICAN WARRIOR		<b>Well Name:</b> OBRATE GRAY 1-11	
<b>Type Job:</b> PLUG/PTA		<b>AFE #:</b> 0	
CASING DATA			
Size:	0	Grade:	0
Casing Depths		Top:	0
		Bottom:	0
Drill Pipe:	Size: 4 1/2	Weight:	2040
Tubing:	Size: 0	Weight:	0
		Grade:	0
		TD (ft):	2040
Open Hole:	Size: 7 7/8	T.D. (ft):	2040
Perforations	From (ft): 0	To: 0	Packer Depth(ft): 0
CEMENT DATA			
<b>Spacer Type:</b>			
Amt.	Sks Yield	ft <sup>3</sup> /sk	Density (PPG)
<b>LEAD:</b> CLASS A -- 60/40-4 -- 1/4# CELLFLAKE			
Excess			
Amt.	250	Sks Yield 1.51	ft <sup>3</sup> /sk
		Density (PPG)	13.5
<b>TAIL:</b>			
Excess			
Amt.	Sks Yield	ft <sup>3</sup> /sk	Density (PPG)
<b>WATER:</b>			
Lead:	gals/sk: 7.5	Tail:	gals/sk:
		Total (bbls):	
Pump Trucks Used:	110 - DP07		
<b>Bulk Equipment:</b>			
Disp. Fluid Type:	Amt. (Bbls.)	Weight (PPG):	
Mud Type:		Weight (PPG):	
<b>COMPANY REPRESENTATIVE:</b>		<b>CEMENTER:</b> KIRBY HARPER	

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
1100						ON LOCATION -- SPOT AND RIG UP
1130						DP @ 2040 FT
1204		100		10	4	START PUMPING WATER AHEAD
1208		100		13	4	START MIXING 50 SK LEAD @ 13.5 PPG
1212		100		2	4	START PUMPING WATER BEHIND
1213		100		22	4	START DISPLACING WITH MUD
1218						SHUT DOWN -- PULL DP TO 1110 FT
1255		100		10	4	START PUMPING WATER AHEAD
1258		100		21	4	START MIXING 80 SK LEAD @ 13.5 PPG
1304		100		2	4	START PUMPING WATER BEHIND
1305		100		10	4	START DISPLACING WITH MUD
1308						SHUT DOWN -- PULL DP TO 550 FT
1332		100		15	4	START PUMPING WATER AHEAD
1336		100		13	4	START MIXING 50 SK LEAD @ 13.5 PPG
1339		100		4	4	START DISPLACING WITH WATER
1341						SHUT DOWN -- PULL DP TO 60 FT
1415		50		5	3	PLUG WITH 20 SK LEAD @ 13.5 PPG
1420		50		8	3	PLUG RAT WITH 30 SK LEAD @ 13.5 PPG
1425		50		5	3	PLUG MOUSE WITH 20 SK LEAD @ 13.5 PPG



# **Geological Report**

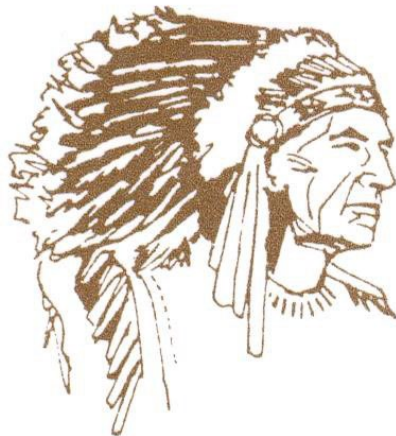
American Warrior, Inc.

**O'Brate-Gray #1-11**

723' FSL & 2174' FWL

Sec 11, T24s, R30w

Gray County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
O'Brate-Gray #1-11  
723' FSL & 2174' FWL  
Sec. 11, T24s, R30w  
Gray County, Kansas  
API # 15-069-20513-00-00

Drilling Contractor: Duke Drilling Co. Rig #9

Geologist: Kevin Timson

Spud Date: May 10, 2022

Completion Date: May 17, 2022

Elevation 2820' G.L.  
2833' K.B.

Directions: From the SE side of Garden City, KS at the intersection of Hwy 400 and Pole Line Rd, go East on Pole Line Rd 8 miles to Rd 5. Go North 1 mile on Rd 5 to C Rd. Go East ½ mile and North into.

Casing: 493' 8 5/8" #24 Surface Casing

Samples: 3950' to RTD 10' Wet & Dry

Drilling Time: 3950' to RTD

Electric Logs: Pioneer Energy Services  
"D.Schmidt" Stacked-Micro

Drillstem Tests: One "Eric Burgess" Trilobite Testing

Problems: None

# Formation Tops

O'Brate-Gray #1-11

Sec. 11, T24s, R30w

723' FSL & 2174' FWL

Anhydrite	1961' +872
Base	2057' +776
Heebner	4044' -1211
Lansing	4094' -1261
Bkc	4543' -1710
Marmaton	4564' -1731
Pawnee	4636' -1803
Fort Scott	4662' -1829
Cherokee	4678' -1845
Morrow	4794' -1961
St. Gen	4805' -1972
RTD	5000' -2167
LTD	4994' -2161

## Sample Description(s)

**Morrow Sandstone: (4794' -1961)** Sandstone. Gray, no glauconite. Fairly rounded, fairly sorted. Fair cemented. Good stain, good saturation, SFO. Good odor. Good full cut florescence. 1700 unit hotwire.

## Drill Stem Tests

### DST #1

#### Morrow

Interval (4756' – 4821') Anchor Length: 65'

IHP - 2334#

IFP - 30" -WSB

ISI - 30" -No Return

FFP - 10" -No blow

FSIP - Pull Tool

FHP -2273#

BHT -NA

Recovery: 1' Mud

43-33#

53#

33#

NA



## Structural Comparison

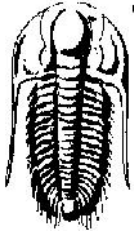
	American Warrior, Inc.		American Warrior, Inc.		American Warrior, Inc.
	O'Brate-Gray #1-11		Tegeler #1-14		Gates #8-16
	Sec 11, T24s, R30w		Sec 14, T24s, R30w		Sec 16, T24s, R30w
Formation	723' FSL & 2174' FWL		375' FNL & 1747' FEL		2300' FNL & 1750' FWL
Heebner	4044' -1211	+9	4066' -1220	-20	4054' -1191
Lansing	4094' -1261	+8	4115' -1269	-12	4112' -1249
BKc	4543' -1710	+21	4577' -1731	-6	4567' -1704
Marmaton	4564' -1731	+19	4596' -1750	-8	4586' -1723
Pawnee	4636' -1803	+21	4670' -1824	-5	4661' -1798
Fort Scott	4662' -1829	+28	4703' -1857	-2	4690' -1827
Cherokee	4678' -1845	+29	4720' -1874	-6	4702' -1839
Morrow	4794' -1961	+38	4845' -1999	+11	4835' -1972
St. Genieve	4805' -1972	+57	4875' -2029	+18	4853' -1990

## Summary

The location for the O'Brate-Gray #1-11 well was found via 3-D seismic. The new well ran structurally as expected. One DST was conducted, which did not recover commercial quantities of oil. After all the data had been examined, the decision was made to plug and abandon O'Brate-Gray #1-11.

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 Po Box 399  
 Garden City Ks. 67846  
 ATTN: Kevin Timson

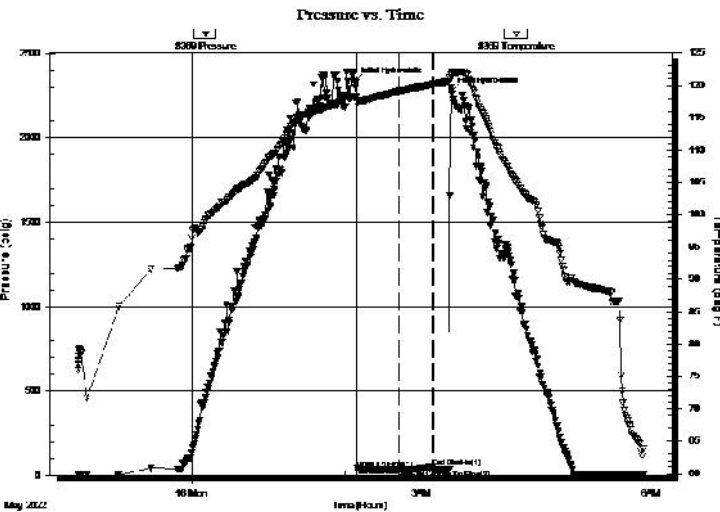
**11-24S-30W Gray Co**  
**O'Brate-Gray #1-11**  
 Job Ticket: 68942 **DST#: 1**  
 Test Start: 2022.05.15 @ 22:31:02

## GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 02:09:32  
 Tester: Eric Burgess  
 Time Test Ended: 05:54:41  
 Unit No: 80  
**Interval: 4756.00 ft (KB) To 4821.00 ft (KB) (TVD)**  
 Reference Elevations: 2833.00 ft (KB)  
 Total Depth: 4821.00 ft (KB) (TVD)  
 2820.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

**Serial #: 8369 Outside**  
 Press@RunDepth: 32.52 psig @ 4763.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.05.15 End Date: 2022.05.16 Last Calib.: 2022.05.16  
 Start Time: 22:31:03 End Time: 05:54:42 Time On Btm: 2022.05.16 @ 02:07:22  
 Time Off Btm: 2022.05.16 @ 03:23:42

**TEST COMMENT:** IF:Weak Blow died back to only surface bubbles in bucket (30)  
 IS:No Blow Back (30)  
 FF:No Blow pulled tool per Geo (10)



## PRESSURE SUMMARY

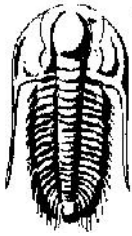
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2333.76	118.14	Initial Hydro-static
3	42.61	117.27	Open To Flow (1)
35	32.52	119.07	Shut-In(1)
62	52.50	120.16	End Shut-In(1)
63	32.97	120.17	Open To Flow (2)
77	2272.98	121.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100%M	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
Po Box 399  
Garden City Ks. 67846  
ATTN: Kevin Timson

**11-24S-30W Gray Co**  
**O'Brate-Gray #1-11**  
Job Ticket: 68942 **DST#: 1**  
Test Start: 2022.05.15 @ 22:31:02

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 02:09:32 Tester: Eric Burgess  
Time Test Ended: 05:54:41 Unit No: 80  
**Interval: 4756.00 ft (KB) To 4821.00 ft (KB) (TVD)** Reference Elevations: 2833.00 ft (KB)  
Total Depth: 4821.00 ft (KB) (TVD) 2820.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

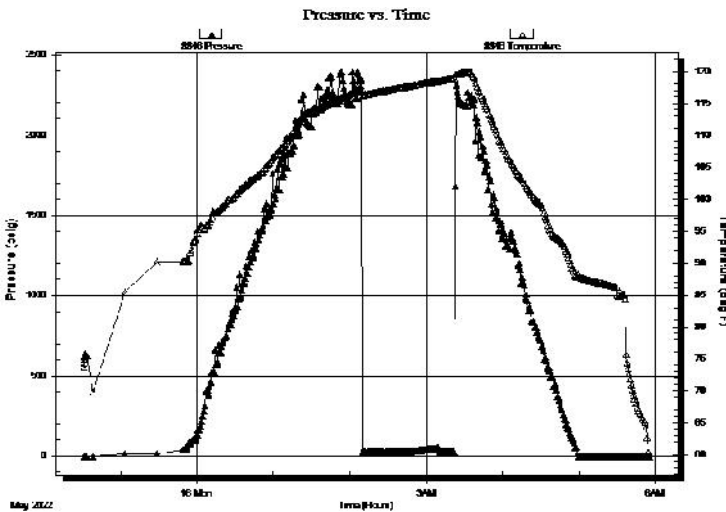
## Serial #: 8846

**Outside**

Press@RunDepth: psig @ 4763.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.05.15 End Date: 2022.05.16 Last Calib.: 1899.12.30  
Start Time: 22:31:33 End Time: 05:55:22 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF:Weak Blow died back to only surface bubbles in bucket (30)  
IS:No Blow Back (30)  
FF:No Blow pulled tool per Geo (10)

## PRESSURE SUMMARY



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

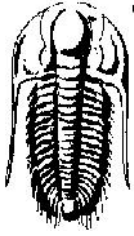
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100%M	0.00

## Gas Rates

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





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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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Garden City Ks. 67846  
ATTN: Kevin Timson

**11-24S-30W Gray Co**  
**O'Brate-Gray #1-11**  
Job Ticket: 68942      **DST#: 1**  
Test Start: 2022.05.15 @ 22:31:02

## Mud and Cushion Information

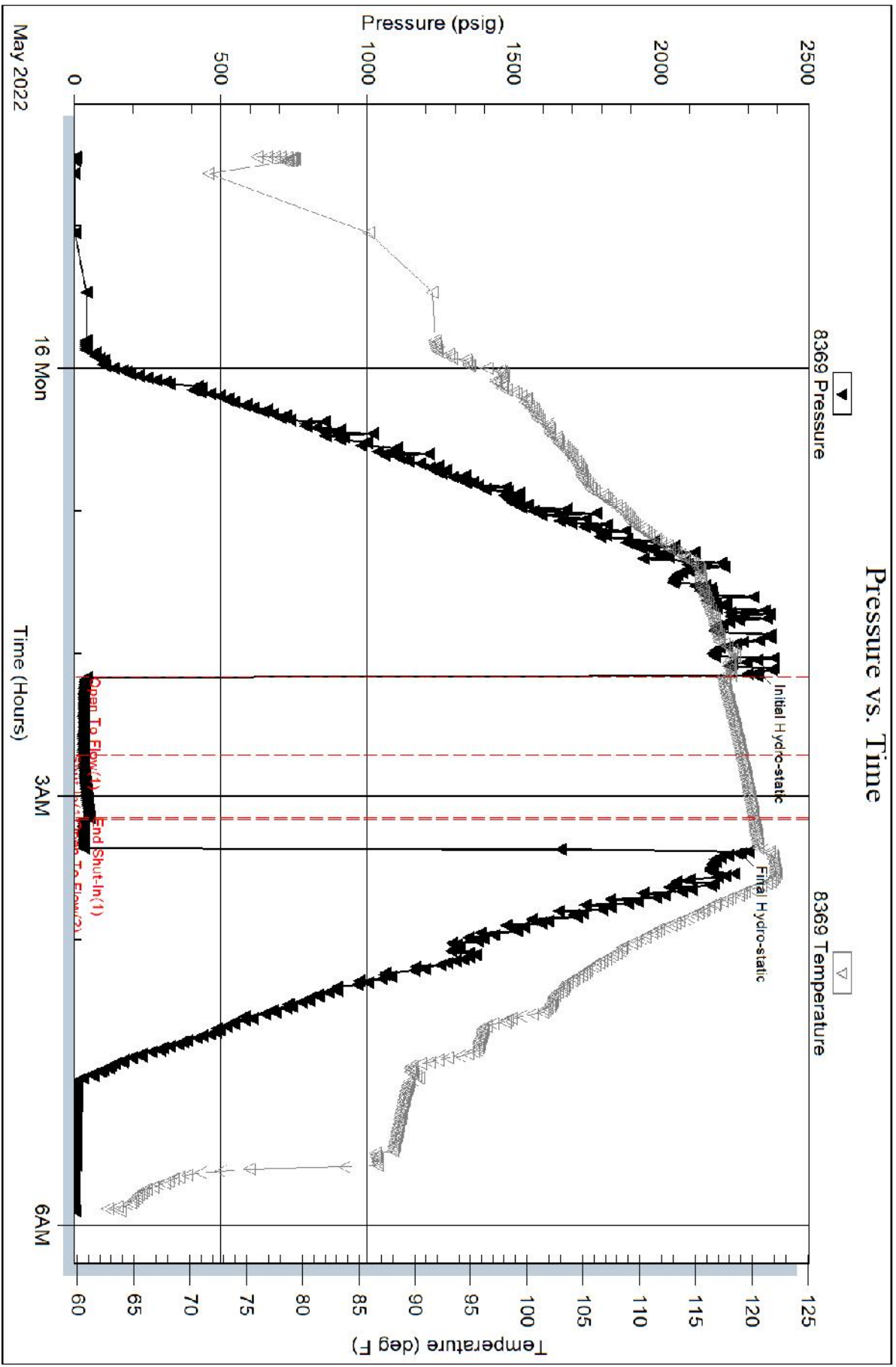
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100%M	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

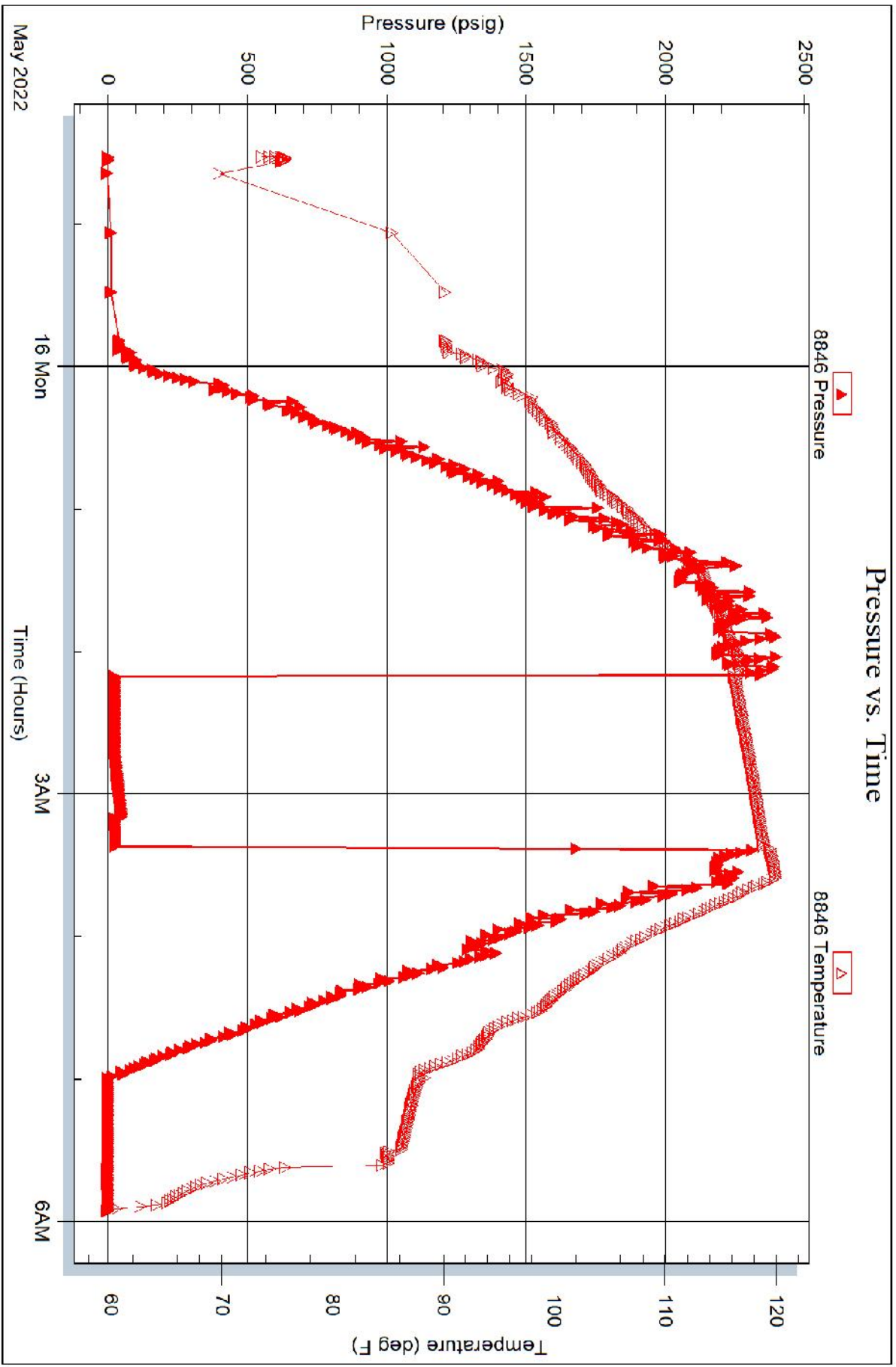


Serial #: 8846

Outside American Warrior Inc.

O/Bate-Gray #1-11

DST Test Number: 1







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Kevin Timson

**O'Brate-Gray #1-11**

**11-24S-30W Gray,KS**

Start Date: 2022.05.15 @ 22:31:02

End Date: 2022.05.16 @ 05:54:41

Job Ticket #: 68942                      DST #: 1

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

Printed: 2022.05.19 @ 11:02:23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City KS 67846  
ATTN: Kevin Timson

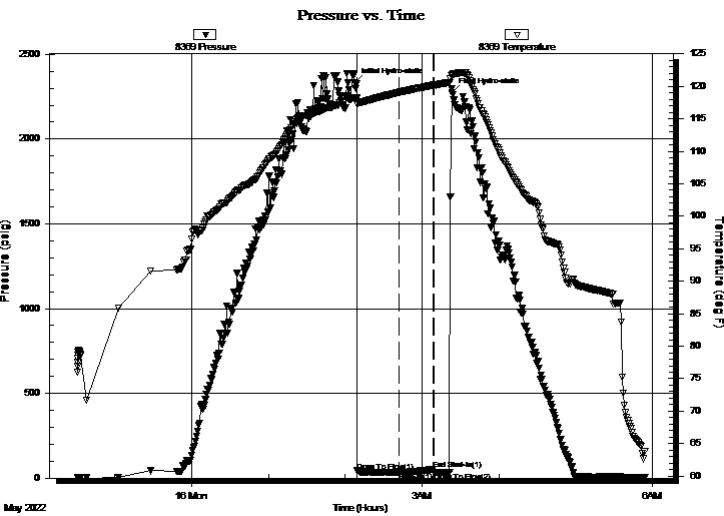
**11-24S-30W Gray,KS**  
**O'Brate-Gray #1-11**  
Job Ticket: 68942      **DST#: 1**  
Test Start: 2022.05.15 @ 22:31:02

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:09:32  
Time Test Ended: 05:54:41  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Eric Burgess  
Unit No: 80  
Interval: **4756.00 ft (KB) To 4821.00 ft (KB) (TVD)**  
Reference Elevations: 2833.00 ft (KB)  
Total Depth: 4821.00 ft (KB) (TVD)      2820.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 13.00 ft

**Serial #: 8369      Outside**  
Press@RunDepth: 32.52 psig @ 4763.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.05.15      End Date: 2022.05.16      Last Calib.: 2022.05.16  
Start Time: 22:31:03      End Time: 05:54:42      Time On Btm: 2022.05.16 @ 02:07:22  
Time Off Btm: 2022.05.16 @ 03:23:42

TEST COMMENT: IF:Weak Blow died back to only surface bubbles in bucket (30)  
IS:No Blow Back (30)  
FF:No Blow pulled tool per Geo (10)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2333.76	118.14	Initial Hydro-static
3	42.61	117.27	Open To Flow (1)
35	32.52	119.07	Shut-In(1)
62	52.50	120.16	End Shut-In(1)
63	32.97	120.17	Open To Flow (2)
77	2272.98	121.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100%M	0.00

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
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ATTN: Kevin Timson

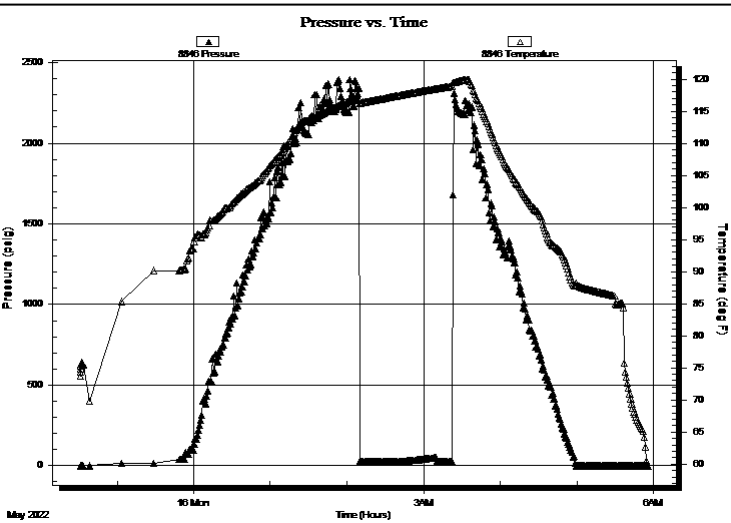
**11-24S-30W Gray, KS**  
**O'Brate-Gray #1-11**  
Job Ticket: 68942 **DST#: 1**  
Test Start: 2022.05.15 @ 22:31:02

### GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:09:32  
Time Test Ended: 05:54:41  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Eric Burgess  
Unit No: 80  
Interval: **4756.00 ft (KB) To 4821.00 ft (KB) (TVD)**  
Reference Elevations: 2833.00 ft (KB)  
Total Depth: 4821.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches  
Hole Condition: Fair  
KB to GR/CF: 13.00 ft

**Serial #: 8846 Outside**  
Press@RunDepth: psig @ 4763.00 ft (KB)  
Capacity: 8000.00 psig  
Start Date: 2022.05.15 End Date: 2022.05.16 Last Calib.: 1899.12.30  
Start Time: 22:31:33 End Time: 05:55:22 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF:Weak Blow died back to only surface bubbles in bucket (30)  
IS:No Blow Back (30)  
FF:No Blow pulled tool per Geo (10)



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100%M	0.00

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
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Garden City KS 67846  
ATTN: Kevin Timson

**11-24S-30W Gray,KS**  
**O'Brate-Gray #1-11**  
Job Ticket: 68942      **DST#: 1**  
Test Start: 2022.05.15 @ 22:31:02

**Tool Information**

Drill Pipe:	Length: 4557.00 ft	Diameter: 3.88 inches	Volume: 66.64 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	24000.00 lb
			<u>Total Volume: 67.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4756.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4726.00	
Shut In Tool	5.00			4731.00	
Hydraulic tool	5.00			4736.00	
Em Tool	3.00			4739.00	
Jars	5.00			4744.00	
Safety Joint	3.00			4747.00	
Packer	4.00			4751.00	31.00      Bottom Of Top Packer
Packer	5.00			4756.00	
Stubb	1.00			4757.00	
Perforations	5.00			4762.00	
Change Over Sub	1.00			4763.00	
Recorder	0.00	8369	Outside	4763.00	
Recorder	0.00	8846	Outside	4763.00	
Blank Spacing	31.00			4794.00	
Change Over Sub	1.00			4795.00	
Perforations	23.00			4818.00	
Bullnose	3.00			4821.00	65.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>96.00</b>				



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**O'Brate-Gray #1-11**  
Job Ticket: 68942      **DST#: 1**  
Test Start: 2022.05.15 @ 22:31:02

## Mud and Cushion Information

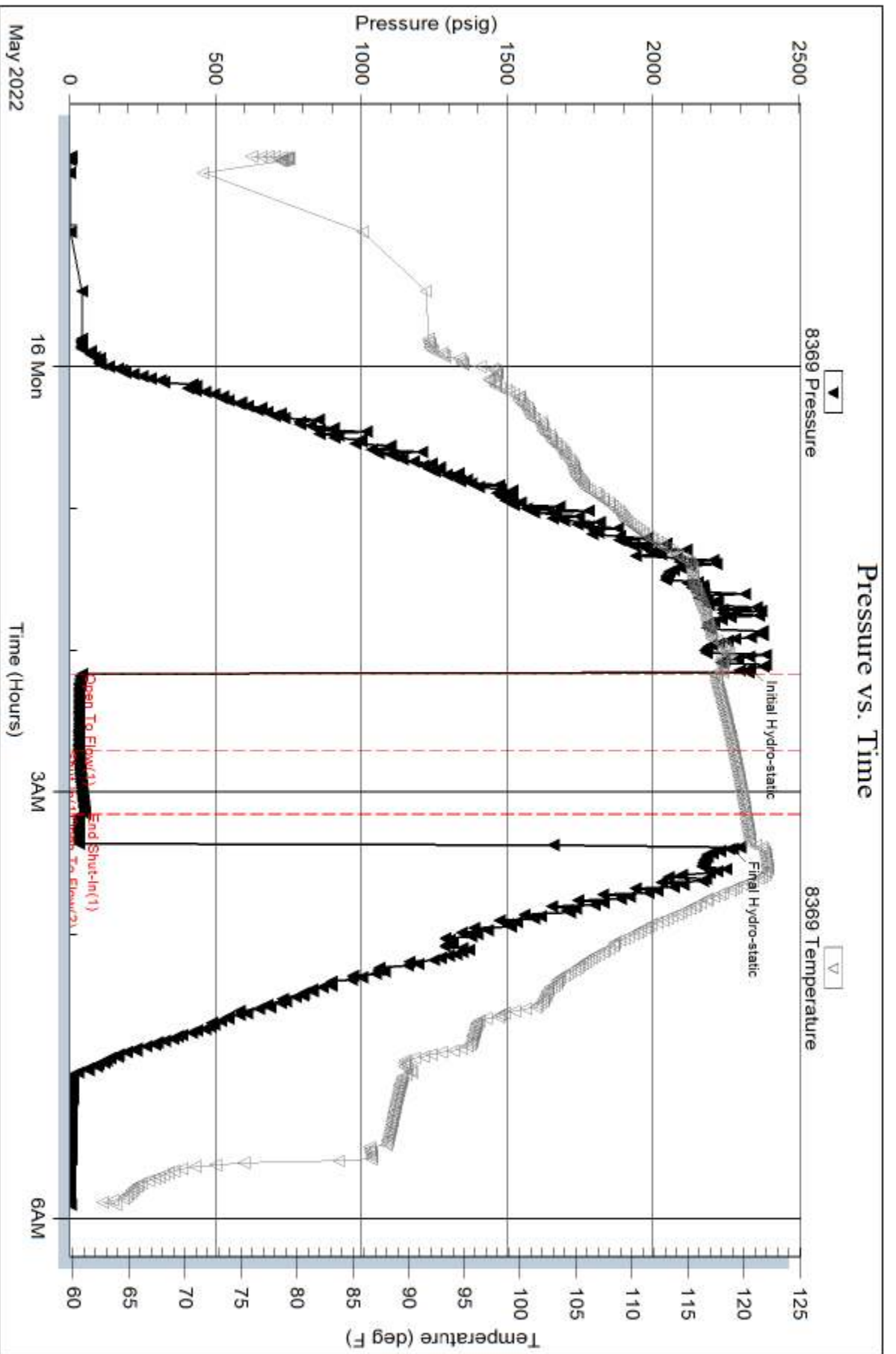
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100%M	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

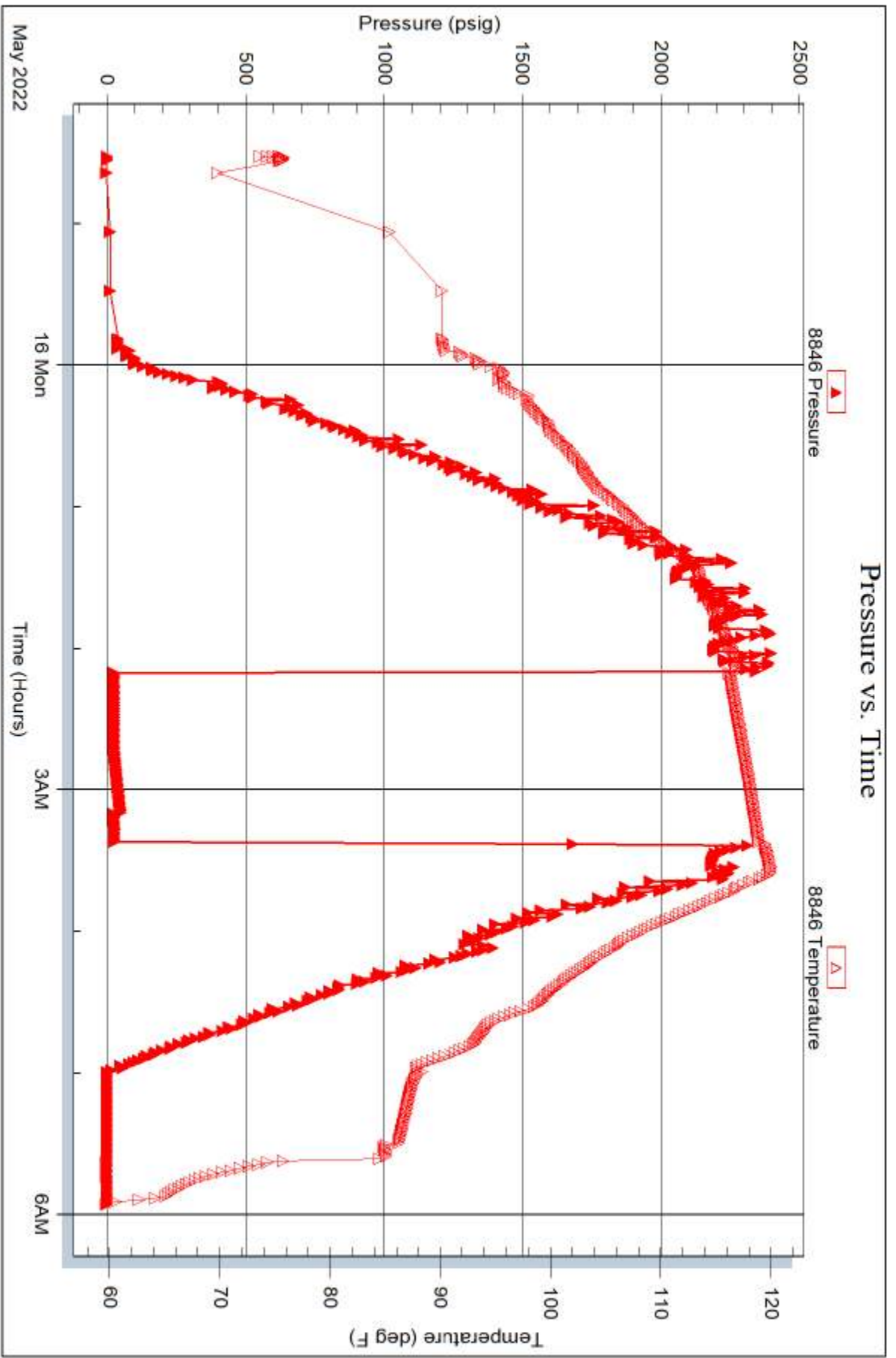


Serial #: 8846

Outside American Warrior Inc.

OBrate-Gray #1-11

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68942**

Well Name & No. O'Brate - Gray #1-11 Test No. 1 Date 5/15/22  
 Company American Warrior, Inc Elevation 2833 KB 2820 GL  
 Address Abot 399 Garden City, KS 67846  
 Co. Rep / Geo. Kerin Timson Rig Duke 9  
 Location: Sec. 11 Twp 21S Rge. 30W Co. Gray State KS

Interval Tested 4756' - 4821 Zone Tested Marrow  
 Anchor Length 65' Drill Pipe Run 4559 Mud Wt. 9.1  
 Top Packer Depth 4748 Drill Collars Run 180' Vis 60  
 Bottom Packer Depth 4752 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4821 Chlorides 2500 ppm System LCM 3  
 Blow Description FF: weak Blow died back to only surface bubbles in bit (30)  
ISI: No Blow Back (30)  
FF: No Blow Pulled tool per Geo (10)  
FSF:

Rec	Feet of	%gas	%oil	%water	%mud
1	M			100	

Rec Total 1 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2334  Test 1950 T-On Location 2125  
 (B) First Initial Flow 43  Jars 300 T-Started 2231  
 (C) First Final Flow 33  Safety Joint \_\_\_\_\_ T-Open 0212  
 (D) Initial Shut-In 53  Circ Sub \_\_\_\_\_ T-Pulled 0324  
 (E) Second Initial Flow 33  Hourly Standby \_\_\_\_\_ T-Out 0554  
 (F) Second Final Flow \_\_\_\_\_  Mileage 238 110rt 330 Comments Out of Area Stay  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ loaded tools 5/17 4:15  
 (H) Final Hydrostatic 2273  Straddle \_\_\_\_\_  EM Tool -350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2830 Total 2480 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative JS  
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