



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1193737  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1193737

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	White 5-8
Doc ID	1193737

All Electric Logs Run

Sonic
Micro
Dual IND.
Dual Comp. Porosity



# ALLIED OIL & GAS SERVICES, LLC 061963

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Groesbeek

DATE <u>11-16-13</u>	SEC. <u>8</u>	TWP. <u>10</u>	RANGE <u>10</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 AM</u>	JOB FINISH <u>12 AM</u>
LEASE <u>White</u>	WELL # <u>5-8</u>	LOCATION <u>Ellsworth cell line N to road</u>			COUNTY <u>Ellsworth</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>1 1/2 E. Sims</u>				

CONTRACTOR Duke &  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D.  
CASING SIZE 8 5/8 DEPTH 374.11  
TUBING SIZE DEPTH  
DRILL PIPE 4 1/2 DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15 FT  
PERFS.  
DISPLACEMENT 22.87

OWNER  
CEMENT  
AMOUNT ORDERED 275 SICKS Class A  
3% salt 2% gel

COMMON	<u>275</u>	@	<u>17.90</u>	<u>4,922.50</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>23.40</u>	<u>117.00</u>
CHLORIDE	<u>775</u>	@	<u>.80</u>	<u>620.00</u>
ASC		@		
HANDLING	<u>297.86</u>	@	<u>2.48</u>	<u>737.45</u>
MILEAGE	<u>13.57 x 30x</u>		<u>2.60</u>	<u>1058.40</u>
TOTAL				<u>6,396.95</u>

EQUIPMENT  
PUMP TRUCK CEMENTER Bob Isaac  
# 398 HELPER Ben Maxwell  
BULK TRUCK  
# 609-112 DRIVER Tommy Tijerina  
BULK TRUCK  
# DRIVER

**REMARKS:**

On location - Ran up - had safety meeting  
run 8 5/8 casing - 3% salt circulation - 2% gel  
pump 5 bbl fresh water  
mix 275 SICKS Class A 3% salt 2% gel  
Displace 22.87 bbl fresh water  
show in  
Cement did circulation  
Rig down

**SERVICE**

DEPTH OF JOB	<u>374</u>			
PUMP TRUCK CHARGE	<u>1512.25</u>			
EXTRA FOOTAGE	@			
MILEAGE	<u>Hum 30</u>	@	<u>7.70</u> <u>231.00</u>	
MANIFOLD	@			
	<u>Hum 30</u>	@	<u>4.40</u> <u>132.00</u>	
TOTAL				<u>1,875.25</u>

CHARGE TO: American World  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>Wooden plug</u>	@	<u>107.31</u>	<u>107.31</u>	
	@			
	@			
	@			
TOTAL				<u>107.31</u>

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME: X. STEVE H. STEPHENS  
SIGNATURE: X. Steve H. Stephens

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 8,379.51  
1,675.90  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
6,703.60

Thank you!



CHARGE TO: **AMERICAN WARRIOR**

ADDRESS:

CITY, STATE, ZIP CODE:

TICKET 25797

PAGE 1 OF 2

SERVICE LOCATIONS: 1. **NESS CITY, KS**

WELL/PROJECT NO.: **WHITE S-8** LEASE: **ELLSWORTH** COUNTY/PARISH: **KS.** CITY: **CLAFLIN, KS.** DATE: **23 Nov 13** OWNER:

TICKET TYPE:  SERVICE  SALES CONTRACTOR: **DUKE DRILLING RIGS** RIG NAME/NO.: **S<sup>2</sup> LONGSTRING** SHIPPED VIA: **DELIVERED TO** ORDER NO.:

WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **S<sup>2</sup> LONGSTRING** WELL PERMIT NO.: WELL LOCATION: **N/E TO Co. LINE 10N, 1 1/2 E, S 10**

REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 115	75	MIL			6.00	450.00
578					Pump CHARGE	1	NOB			1500.00	1500.00
402					CENTRALIZERS	8	EA.			70.00	560.00
403					CEMENT BASKETS	1	EA.			300.00	300.00
405					FORMATION PACKER SHOES	1	EA.			1650.00	1650.00
406					LATCH DOWN PLUG & BAFFLE	1	EA.			275.00	275.00
281					MUD FLUSH	500	SPC			1.25	625.00
221					LIQUID KCL	2	SPC			25.00	50.00

**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 *[Signature]*

DATE SIGNED: **23 Nov 13** TIME SIGNED: **1400**  A.M.  P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	5410.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	5243.68
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	10,653.68
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Ellsworth TAX	548.15
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	11,201.83
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

SWIFT OPERATOR: *[Signature]* APPROVAL: *[Signature]*

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

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 25797

CUSTOMER AMERICAN WARRIOR WELL WHITE 5-8 DATE 23 Nov 13 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
276						FLOCELE	50	lbs			2.50	125.00
283						SALT	900	lbs			.20	180.00
284						CALSEAL	8	bx			35.00	280.00
292						HALAD-322	125	lbs			8.00	1000.00
290						D-AIR	2	sqz			42.00	84.00
325						STANDARD CEMENT EA-2	175	bx			14.50	2537.50
581						SERVICE CHARGE					2.00	350.00
583						MILEAGE CHARGE	183.25	TOTAL WEIGHT	75	LOADED MILES	687.18	687.18

CONTINUATION TOTAL 5243.68

JOB LOG

SWIFT Services, Inc.

DATE 23 Nov 13 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE WHITE S-8 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 25797

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							ON LOCATION
	0940							START PIPE 5 1/2-15.5" RTD @ 3600 SET @ 3449 SHOE JT - 42' CENTRALIZER 1,2,3,4,6,8,10,12, BASKETS. 5
	1145				✓		900	SET PACKER SHADE - CIRCULATE.
	1240	6	12		✓		300	Pump 500 gal MUD FLUSH
		6	20		✓		300	Pump 20 Bbl KCL FLUSH
	1248		7					PLUG RH-30sx
	1251	4	35		✓			MIX 145sx EA-2
	1304							WASH OUT Pump & LINES.
	1306	6			✓			START DISPLACING PLUG
	1320				✓		1500	PLUG DOWN LATCH PLUG IN
	1322				✓			RELEASE PSI - DRY
	1325							WASH TRUCK
	1400							JOB COMPLETE THANKS #115 JASON DUSTY ROB





## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Jim Musgrove

**White #5-8**

**8-16s-10w Ellsworth,KS**

Start Date: 2013.11.21 @ 18:08:47

End Date: 2013.11.22 @ 03:30:16

Job Ticket #: 55775                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.26 @ 07:57:22



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Jim Musgrove

**8-16s-10w Ellsworth, KS**

**White #5-8**

Job Ticket: 55775      **DST#: 1**  
Test Start: 2013.11.21 @ 18:08:47

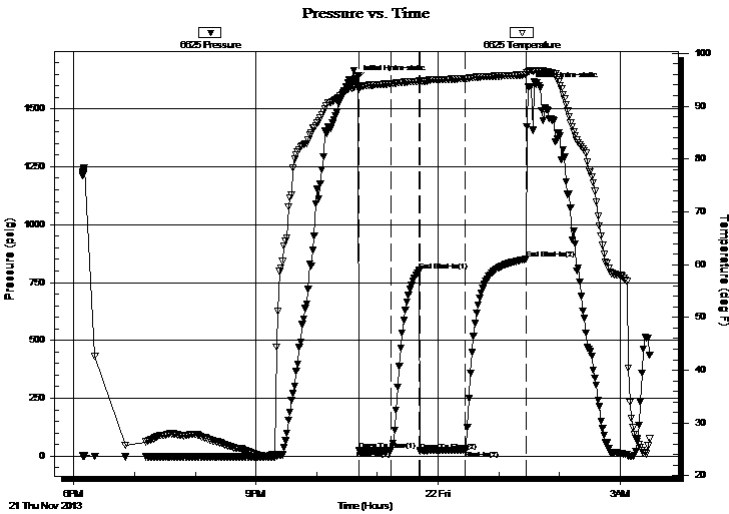
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 22:41:46  
Time Test Ended: 03:30:16  
Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**  
Total Depth: 3326.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1856.00 ft (KB)  
1848.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6625      Outside**  
Press@RunDepth: 27.23 psig @ 3322.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.11.21      End Date: 2013.11.22      Last Calib.: 2013.11.21  
Start Time: 18:08:47      End Time: 03:30:16      Time On Btm: 2013.11.21 @ 22:40:16  
Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 2 1/2"  
30- IS- No blow  
45- FF- Built very slow ly to 1"  
60- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.05	93.78	Initial Hydro-static
2	24.08	93.62	Open To Flow (1)
34	24.23	94.28	Shut-In(1)
62	801.83	94.73	End Shut-In(1)
62	21.68	94.64	Open To Flow (2)
107	27.23	95.25	Shut-In(2)
167	851.19	95.96	End Shut-In(2)
170	1595.36	96.66	Initial Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO, 10%G 30%M 60%O	0.20

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**8-16s-10w Ellsworth,KS**

PO Box 399  
Garden City, KS 67846

**White #5-8**

Job Ticket: 55775

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.11.21 @ 18:08:47

## Tool Information

Drill Pipe:	Length: 3282.00 ft	Diameter: 3.75 inches	Volume: 44.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3286.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 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			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Packer	4.00			3281.00	20.00 Bottom Of Top Packer
Packer	5.00			3286.00	
Stubb	1.00			3287.00	
Perforations	1.00			3288.00	
Change Over Sub	1.00			3289.00	
Drill Pipe	32.00			3321.00	
Change Over Sub	1.00			3322.00	
Recorder	0.00	6625	Outside	3322.00	
Recorder	0.00	8679	Inside	3322.00	
Bullnose	4.00			3326.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**8-16s-10w Ellsworth, KS**

PO Box 399  
Garden City, KS 67846

**White #5-8**

Job Ticket: 55775

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2013.11.21 @ 18:08:47

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GMCO, 10%G 30%M 60%O	0.205

Total Length: 15.00 ft      Total Volume: 0.205 bbl

Num Fluid Samples: 0

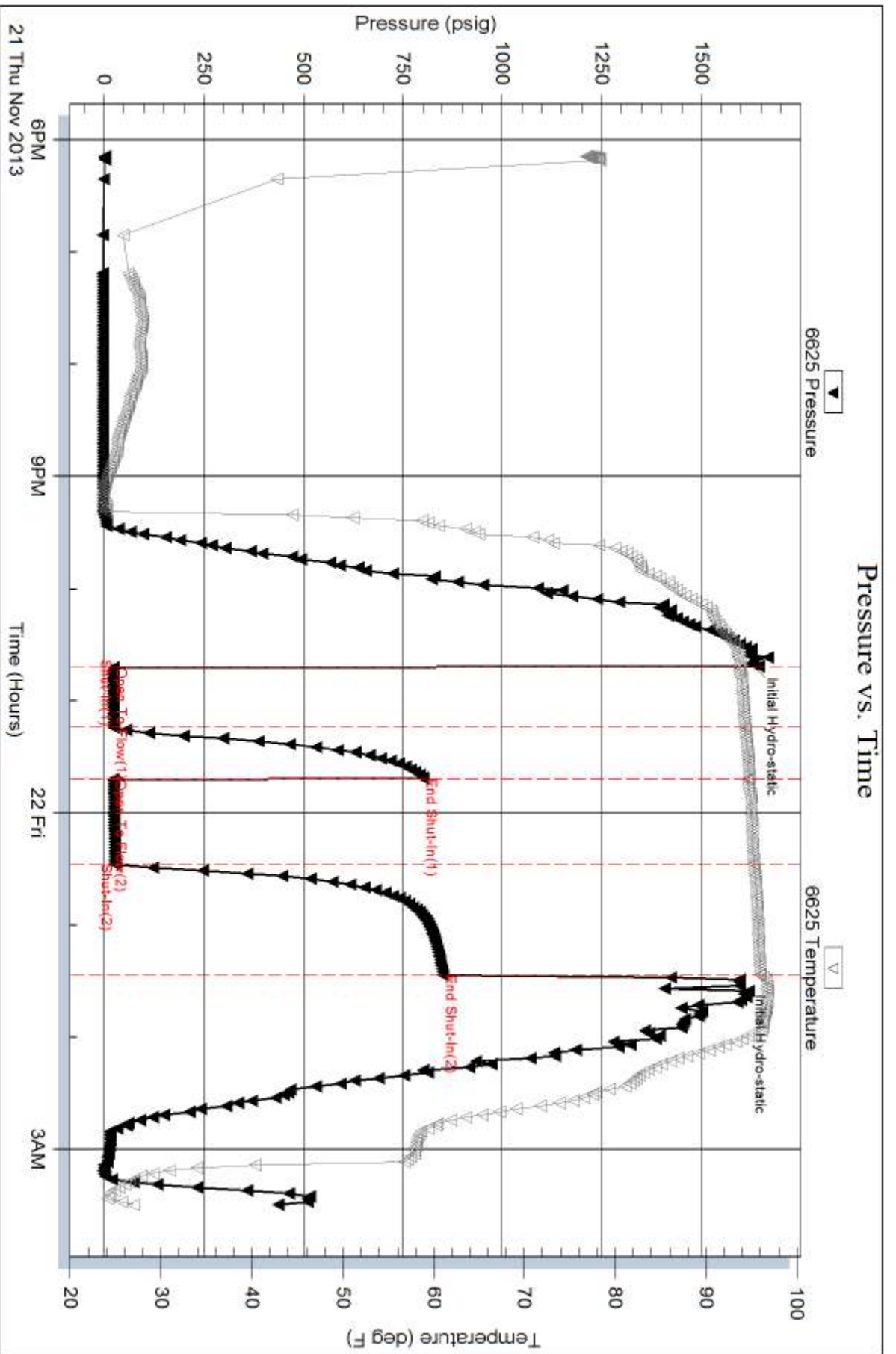
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



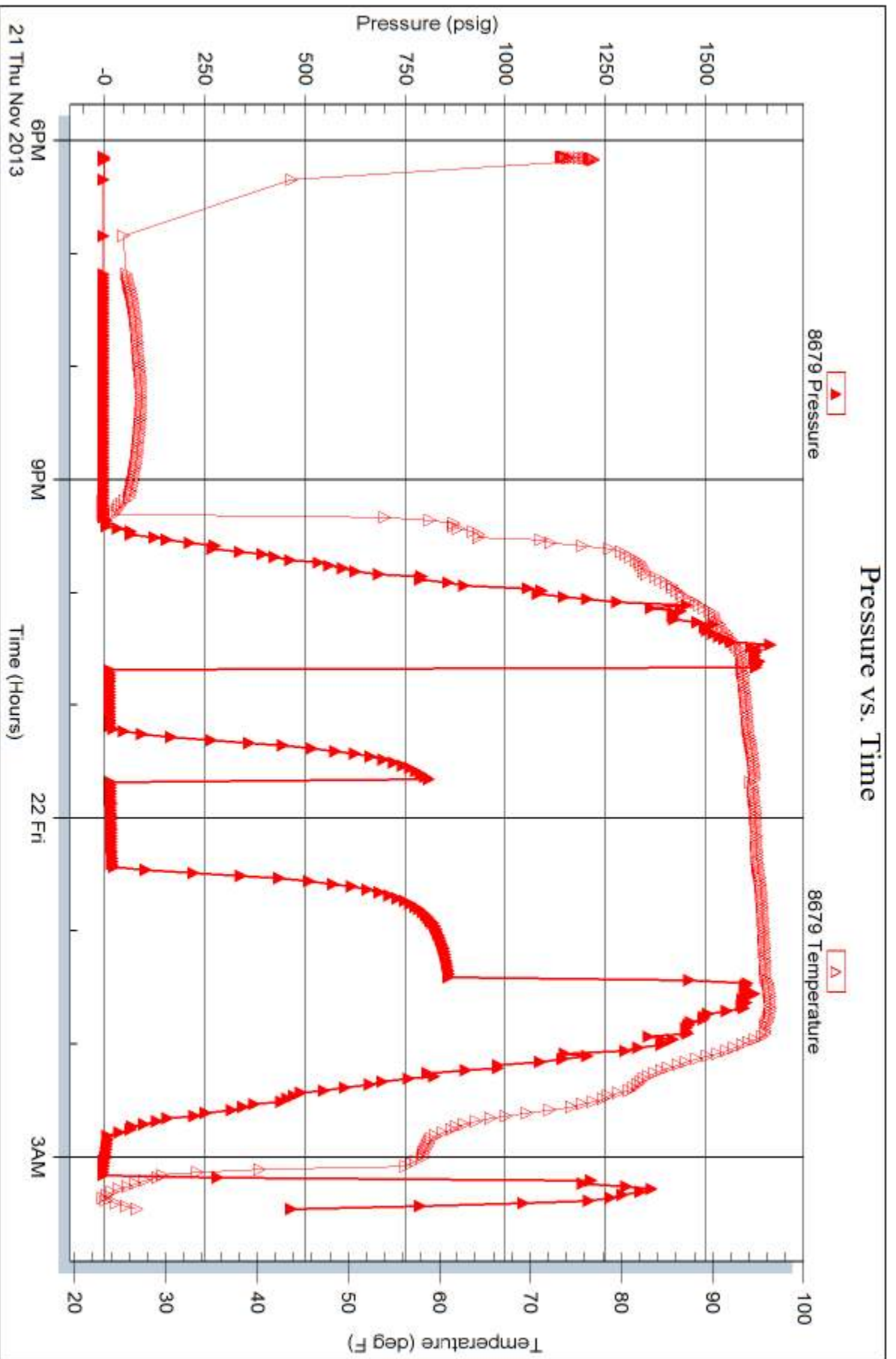
Serial #: 8679

Inside

American Warrior, Inc.

White #5-8

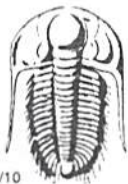
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55775

Printed: 2013.11.26 @ 07:57:25



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55775

Well Name & No. White #5-8 Test No. 1 Date 11/21/13  
 Company American Hammer, Inc Elevation 1856 KB 1848 GL  
 Address 3118 Cummings Rd. PO Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jim Musgrove Rig Duke 8  
 Location: Sec. 8 Twp. 16S Rge. 10W Co. Ellsworth State KS

Interval Tested 3286-3326 Zone Tested Arbuckle  
 Anchor Length 40' Drill Pipe Run 3282 Mud Wt. 9.4  
 Top Packer Depth 3281 Drill Collars Run \_\_\_\_\_ Vis 52  
 Bottom Packer Depth 3286 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 3326 Chlorides 5900 ppm System LCM Tr

Blow Description IF - Slowly built to 2 1/2"  
ISI - No blow  
FF - Built very slowly to 1"  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>GMCO</u>	<u>10</u>	<u>60</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 96° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1643</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1747</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>1808</u>
(C) First Final Flow <u>24</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>2241</u>
(D) Initial Shut-In <u>802</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0126</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0329</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>124 RT x 2</u>	Comments <u>Loaded tools</u>
(G) Final Shut-In <u>851</u>	<input type="checkbox"/> Sampler <u>384.40</u>	<u>11/22 @ 1520</u>
(H) Final Hydrostatic <u>1599</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1534.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1534.40</u>	

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative Brennan L

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.



**JAMES C. MUSGROVE**

Petroleum Geologist  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.  
White #5-8  
NW-NE-SE-NW  
(1490' FNL & 2259' FWL)  
Section 8-16s-10w  
Ellsworth County, Kansas  
Page 1

**5 1/2" Production/Disposal Casing Set**

**Contractor:** Duke Drilling Co. (Rig #8)  
**Commenced:** November 16, 2013  
**Completed:** November 23, 2013  
**Elevation:** 1856' K.B; 1854' D.F; 1848' G.L.  
**Casing program:** Surface; 8 5/8" @ 374'  
Production; none.  
**Sample:** Samples saved and examined 2600' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2600 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There was one (1) Drill Stem Test ran by Trilobite Testing Co.  
**Electric Log:** By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log, Micro and Sonic.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	667	+1189
Base Anhydrite	693	+1163
Heebner	2886	-1030
Toronto	2905	-1049
Douglas	2914	-1058
Brown Lime	2986	-1130
Lansing	3001	-1145
Base Kansas City	3295	-1439
Simpson Sand	3318	-1462
Arbuckle	3325	-1469
Rotary Total Depth	3600	-1744
Log Total Depth	3607	-1751

(All tops and zones corrected to Electric Log measurements).

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TOPEKA SECTION**

2846-2860' Limestone; gray, cream, finely crystalline, oomoldic, good oomoldic porosity, no shows.

2870-2880' Limestone; gray, cream, chalky, plus trace gray chert.

**TORONTO SECTION**

2905-2914' Limestone; gray, finely crystalline, chalky, few cherty, poorly developed porosity, trace black/gray stain, no show of free oil and no odor.

**LANSING SECTION**

3001-3010' Limestone; white, finely crystalline, fossiliferous, poor porosity, chalky, no shows.

3036-3043' Limestone; white, finely crystalline, oomoldic, sub oomoldic, chalky, poor porosity, trace brown stain, no free oil and no odor.

3052-3066' Limestone; white, oolitic, few oomoldic, chalky, poorly developed porosity, trace brown stain, no show of free oil and no odor.

3083-3094' Limestone; white/gray, finely crystalline, oolitic/fossiliferous, poor porosity, chalky, no shows.

3098-3114' Limestone; white, highly oomoldic, good oomoldic porosity, no shows.

3146-3154' Limestone; gray, slightly cherty, poor porosity, no shows.

3162-3174' Limestone; gray, oolitic, slightly cherty, no shows.

3176-3194' Limestone; cream, oomoldic, fair oomoldic porosity, black stain, no free oil and no odor in fresh samples.

3224-3240' Limestone; gray, finely crystalline, fossiliferous, few oolitic, chalky, no shows.

3262-3270' Limestone; white, cream, slightly fossiliferous, cherty in part, brown stain, no free oil and faint odor in fresh samples.

**SIMPSON SAND SECTION**

3317-3324' Sand; clear, very fine grained, sub rounded, friable, fair stain, show of free oil and good odor in fresh samples.

**ARBUCKLE SECTION**

3325-3333' Dolomite; tan, white, fine and medium crystalline, fair porosity, brown stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #1 3286-3326'

Times: 30-30-45-60

Blow: Weak

Recovery: 15' gassy mud cut oil  
(10% gas, 60% oil, 30% mud)

Pressures: ISIP 802 psi  
FSIP 851 psi  
IFP 24-24 psi  
FFP 21-27 psi  
HSH 1625-1595 psi

- 3333-3347' Dolomite; white, tan, few sucrosic, medium crystalline, brown stain, show of free oil and good odor in fresh samples.
- 3347-3370' Dolomite; as above, oomoldic, good oomoldic porosity, brown stain, show of free oil and good odor in fresh samples.
- 3370-3400' Dolomite; white, brown, finely crystalline, few medium crystalline porosity, trace black stain, no free oil and good odor in fresh samples.
- 3400-3426' Dolomite; white, tan, finely crystalline, sucrosic, few cherty, trace stain, show of free oil (dead) and no odor in fresh samples.
- 3426-3500' Dolomite; white, finely crystalline, slightly cherty, dense in part, no shows.
- 3500-3520' Dolomite; white, cream, finely crystalline, slightly cherty, poor visible porosity, no shows.
- 3520-3550' Dolomite; white/gray, finely crystalline, few medium crystalline, sandy in part, no shows
- 3550-3580' Dolomite; white/gray, fair, finely crystalline, few medium crystalline, fair intercrystalline, few with fair to good vuggy porosity, no shows.
- 3580-3607' Dolomite; as above, few sandy.

Rotary Total Depth 3600  
Log Total Depth 3607

**Recommendations:**

5 1/2" production/disposal casing was set and cemented on the White #5-8.

Respectfully submitted;

*James C. Musgrove & Clint Musgrove*  
James C. Musgrove and  
Clint Musgrove,  
Petroleum Geologists

