

ORIGINAL

11/02/13

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4058  
Name: American warrior INC  
Address 1: P.O.Box 399  
Address 2: \_\_\_\_\_  
City: Garden City State: KS Zip: 67846 + \_\_\_\_\_  
Contact Person: Kevin Wiles SRE  
Phone: (620) 275-2963  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co. Inc  
Wellsite Geologist: Jim Musgrove  
Purchaser: NCRA

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

7-8-2011	7-15-2011	10-17-2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - <sup>159</sup> 22-655-00-00

Spot Description: SE. sec 16-19s-10w

SE NW NE SE Sec. 16 Twp. 19 S. R. 10  East  West

2,168 Feet from  North /  South Line of Section

766 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Rice

Lease Name: A.C. Pulliam Well #: 1-16

Field Name: Chase-Silica

Producing Formation: Douglas Sand

Elevation: Ground: 1764 Kelly Bushing: 1772

Total Depth: 3400 Plug Back Total Depth: 3372

Amount of Surface Pipe Set and Cemented at: 357 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: 12000 ppm Fluid volume: 600 bbls

Dewatering method used: Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: CONFIDENTIAL Permit #: \_\_\_\_\_

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**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. One copy of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: \_\_\_\_\_

Title: Production Supt. Date: 11-1-11

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: 11-02-11 - 11-02-13
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: NS Date: 11-7-11

Operator Name: American warrior INC Lease Name: A.C. Pulliam Well #: 1-16  
 Sec. 16 Twp. 19 S. R. 10  East  West County: Rice

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no. Submit Copy)</i>  List All E. Logs Run: <b>Micro,DCPL, Dual IND</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Topeka</td> <td>2560</td> <td>-788</td> </tr> <tr> <td>Heebner</td> <td>2825</td> <td>-1053</td> </tr> <tr> <td>Toronto</td> <td>2845</td> <td>-1073</td> </tr> <tr> <td>Douglas Sand</td> <td>2875</td> <td>-1103</td> </tr> <tr> <td>KC</td> <td>2968</td> <td>1196</td> </tr> <tr> <td>BKC</td> <td>3248</td> <td>-1471</td> </tr> <tr> <td>ARB</td> <td>3319</td> <td>-1547</td> </tr> </table>	Name	Top	Datum	Topeka	2560	-788	Heebner	2825	-1053	Toronto	2845	-1073	Douglas Sand	2875	-1103	KC	2968	1196	BKC	3248	-1471	ARB	3319	-1547
Name	Top	Datum																							
Topeka	2560	-788																							
Heebner	2825	-1053																							
Toronto	2845	-1073																							
Douglas Sand	2875	-1103																							
KC	2968	1196																							
BKC	3248	-1471																							
ARB	3319	-1547																							

CASING RECORD <input checked="" 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
Surface	12-1/4	8-5/8	23	357	Class A	250	3%cc/2%gel
Production	7-7/8	5-1/2	14	3397	EA-2	150	D-air/flocele

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				

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
4	2875'-2893'	1500 gal 15% HCl/Acc w/ 30,000% 20/40 sand no cross linker gel KCC	same

TUBING RECORD: Size: <u>2-3/8</u> Set At: <u>3300</u> Packer At: <u>none</u> Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____																
Estimated Production Per 24 Hours	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">Oil</td> <td style="width:10%;">Bbls.</td> <td style="width:10%;">Gas</td> <td style="width:10%;">Mcf</td> <td style="width:10%;">Water</td> <td style="width:10%;">Bbls.</td> <td style="width:10%;">Gas-Oil Ratio</td> <td style="width:10%;">Gravity</td> </tr> <tr> <td>SI</td> <td> </td> <td>SI</td> <td> </td> <td>SI</td> <td> </td> <td> </td> <td> </td> </tr> </table>	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity	SI		SI		SI			
Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity										
SI		SI		SI													

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>2875-2893</u>
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CHARGE TO: *American Warrior* **CONFIDENTIAL**  
 ADDRESS: *NOV 11 2 2011*  
 CITY, STATE, ZIP CODE: *KCC*

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TICKET  
20968

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. *Ness City KS* WELL/PROJECT NO. *1-16* LEASE *AC Polliam* COUNTY/PARISH *Rice* STATE *KS* CITY *Chase* DATE *15 Jul 11* OWNER  
 2. TICKET TYPE  SERVICE CONTRACTOR *DUKE* RIG NAME/NO. *8* SHIPPED *CT* DELIVERED TO *location* ORDER NO.  
 3. WELL TYPE *oil* WELL CATEGORY *Development* JOB PURPOSE *cement long string* WELL PERMIT NO. WELL LOCATION *16-19S-10W*  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM	
575		1			MILEAGE TRK 114	80	mi		5.00	400.00
578		1			Pump Charge	1	ea		1400.00	1400.00
402		1			Centralizers	5 1/2	in	6	ea	390.00
403		1			Basket	5 1/2	in	1	ea	230.00
407		1			insert float shoe	5 1/2	in	1	ea	300.00
406		1			Latch Brown Plug & baffle	5 1/2	in	1	ea	225.00
290		1			D-AIR			2	gal	35.00
281		1			MUDFLUSH	500	gal		1.00	500.00
221		1			KCL liquid	2	gal		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  
 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	UN-DECIDED	DIS-AGREE		AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	3565.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	4483.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub total	8048.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Rice TAX 17.3%	383.43
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	8431.43
<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 *AD Campbell* APPROVAL

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 15 Jul 11 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-14 LEASE AC Pulliam JOB TYPE cement long string TICKET NO. 20968

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sks SA-2 w/ haled 322 5 1/2" 14" casing 81 joints RTD 3400' LTD 3371'
								Cementizers 2,4,7,9,11,13 Basket #4 Shoe joint 20' baffle @ 3379' Duke #8
	0930							on loc TRK 114
	1050							start 5 1/2" 14" casing in well
	1200							Drop ball - circulate
	1300	1 3/4	12			300		Pump 500 gal mud flush
		4 1/4	20			300		Pump 20 bbl KCL flush
	1300	4 3/4	7			200		Mix cement for RH MH (30sk5-20sk5)
	1313	4 3/4	70			200		mix 125 sks SA-2 cement @ 15.3 ppf wash pump & line
	1320							Drop latch down plug
	1330	6 3/4				300		Displace plug
		6 3/4	75			800		
			82			1700		LAND Plug
	1345							Release pressure to truck
	1350							Wash truck
								Rack up
	1420							job complete
								Thank DAVE & DAVID & Braine

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**JAMES C. MUSGROVE**

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

Office (620) 588-4250

Res. Claffin (620) 587-3444

American Warrior Inc.  
A.C. Pulliam #1-16  
SE-NW-NE-SE (2168' FSL & 766' FEL)  
Section 16-19s-10w  
Rice County, Kansas  
Page 1

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

- Contractor:** Duke Drilling Company (Rig #8)
- Commenced:** June 8, 2011
- Completed:** July 15, 2011
- Elevation:** 1772' K.B; 1770' D.F; 1764' G.L.
- Casing program:** Surface; 8 5/8" @ 357'  
Production; 5 1/2" @ 3399'
- Sample:** Samples saved and examined 2700' to the Rotary Total Depth.
- Drilling time:** One (1) foot drilling time recorded and kept 2700 ft to the Rotary Total Depth.
- Measurements:** All depths measured from the Kelly Bushing.
- Drill Stem Tests:** There were three (3) Drill Stem Tests ran by Trilobite Testing.
- Electric Log:** By Log Tech; Dual Induction, Dual Compensated Porosity and Micro Log.

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<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	455	+1317
Base Anhydrite	476	+1296
Topeka	2560	-788
Heebner	2825	-1053
Toronto	2845	-1073
Douglas	2857	-1085
Douglas Sand	2875	-1103
Brown Lime	2945	-1173
Lansing	2968	-1196
Base Kansas City	3248	-1471
Conglomerate	3267	-1495
Arbuckle	3319	-1547
Quartzite	3326	-1554
Rotary Total Depth	3400	-1628
Log Total Depth	3397	-1625

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

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

**TOPEKA SECTION**

2868-2888' Limestone; tan, fossiliferous/oolitic, brown and dark brown stain, show of free oil and questionable odor in fresh samples.

**TORONTO SECTION**

2846-2856' Limestone; white and gray, chalky, poor visible porosity, no shows.

**DOUGLAS SECTION**

2875-2893' Sand; gray, tan, very fine grained, sub rounded, fair sorting, friable, fair intergranular porosity, micaceous, shaley in part, fair to good stain and saturation, show of free oil and good odor in fresh samples.

**LANSING SECTION**

2968-2982' Limestone; tan, gray, finely crystalline, fossiliferous, chalky, poor visible porosity, no shows.

2985-2993' Limestone; gray, white, sub oomoldic, chalky, poor visible porosity, no shows.

3012-3020' Limestone; tan, gray, fossiliferous, oolitic, chalky, questionable stain, no show of free oil and faint odor in fresh samples.

3025-3030' Limestone; gray, dark gray, oolitic, dense, poor porosity, no shows.

3035-3044' Limestone; white, gray, oolitic, fair porosity, brown stain, trace of free oil and faint odor in fresh samples.

3056-3070' Limestone; tan, brown, oomoldic, good oomoldic porosity, few oolitic, brown stain, show of free oil and odor in fresh samples.

**Drill Stem Test #1 3022-3070'**

Times: 30-30-45-45

Blow: Strong, gas to surface 5 minutes  
Gas gauged as follows:  
10 minutes 535,600 cfgpd  
20 minutes 481,600 cfgpd  
30 minutes 434,400 cfgpd  
2<sup>nd</sup> opening  
10 minutes 447,900 cfgpd  
20 minutes 447,900 cfgpd  
30 minutes 447,900 cfgpd  
40 minutes 447,900 cfgpd

Recovery: 65' mud

Pressures: ISIP 492 psi  
FSIP 481 psi  
IFP 140-166 psi  
FFP 149-164 psi  
HSH 1522-1466 psi

3110-3120' Limestone; cream, tan, gray, fossiliferous, few sub oomoldic, chalky, trace pyrite, no shows.

3126-3140' Limestone; cream, tan, finely crystalline, oolitic, oomoldic, poorly developed oomoldic porosity, slightly chalky, no shows.

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3145-3158' Limestone; gray, tan, cream, finely crystalline, oolitic, oomoldic, fair oomoldic porosity, fair stain, fair show of free oil and questionable odor samples broken.

Drill Stem Test #2 3086-3168'

Times: 30-30-30-30

Blow: weak

Recovery: 10' mud

Pressures: ISIP 63 psi  
FSIP 62 psi  
IFP 15-19 psi  
FFP 14-18 psi  
HSH 1524-1480 psi

3176-3182' Limestone; tan, cream, fossiliferous, few oolitic, scattered porosity, questionable stain, no show of free oil and no odor in fresh samples.

3190-3210' Limestone; cream, tan, finely crystalline, few fossiliferous, slightly chalky, no shows.

3216-3226' Limestone; cream, buff, fossiliferous, trace stain, trace free oil, odor samples broken.

CONGLOMERATE SECTION

3284-3290' Trace sand; clear, very fine grained, scattered porosity, trace stain, plus trace white, yellow chert, trace black edge staining, no show of free oil and questionable odor in fresh samples.

ARBUCKLE SECTION

3319-3324' Dolomite; white, cream, medium to coarse crystalline, fair intercrystalline porosity, fair stain, fair show of free oil and fair odor in fresh samples.

Drill Stem Test #3 3230-3327' (log measurements 3227-3324')

Times: 30-30-30-45

Blow: Fair to strong

Recovery: 1700' gas in pipe  
95' clean oil  
60' muddy gassy oil  
(20% gas, 50% oil, 30% mud)  
60' very heavy oil and gas cut mud  
(10% gas, 40% oil, 50% mud)

Pressures: ISIP 1096 psi  
FSIP 1094 psi  
IFP 20-67 psi  
FFP 69-101 psi  
HSH 1636-1609 psi

QUARTZITE SECTION

3326-3350' Quartz; pink, white, angular, plus white, clear sand, and varied colored micas.

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3350-3400' Quartz; and loose unconsolidated sands and abundant micaceous shales.

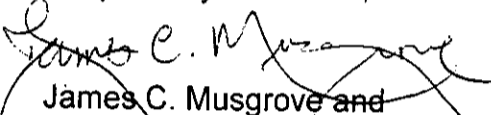

**Rotary Total Depth**            **3400**  
**Log Total Depth**            **3397**

**Recommendations:**

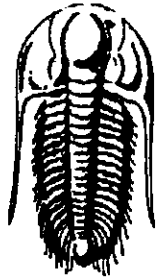
5 1/2" production casing was set and cemented and the following zones should be tested in the A.C. Pulliam #1-16:

- |                     |           |           |
|---------------------|-----------|-----------|
| 1. Arbuckle         | 3320-3326 | perforate |
| 2. Conglomerate     | 3284-3287 | perforate |
| 3. Lansing 'G' Zone | 3056-3070 | perforate |
| 4. Lansing 'F' Zone | 3037-3042 | perforate |
| 5. Douglas Sand     | 2875-2893 | perforate |

Respectfully submitted;

  
James C. Musgrove and  
Kurt Talbott,  
Petroleum Geologists  


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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Jim Musgrove

**16-19s-10w Rice,KS**

**AC Pulliam #1-16**

Start Date: 2011.07.12 @ 11:59:05

End Date: 2011.07.12 @ 17:36:09

Job Ticket #: 43511                      DST #: 1

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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American Warrior Inc.

AC Pulliam #1-16

16-19s-10w Rice,KS

DST # 1

LKC "G"

2011.07.12





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**AC Pulliam #1-16**  
**16-19s-10w Rice, KS**  
Job Ticket: 43511      DST#: 1  
Test Start: 2011.07.12 @ 11:59:05

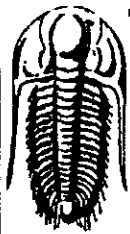
**Tool Information**

Drill Pipe:	Length: 3010.00 ft	Diameter: 3.80 inches	Volume: 42.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 42.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3022.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 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			3003.00	
Shut In Tool	5.00			3008.00	
Hydraulic tool	5.00			3013.00	
Packer	5.00			3018.00	20.00      Bottom Of Top Packer
Packer	4.00			3022.00	
Stubb	1.00			3023.00	
Perforations	2.00			3025.00	
Change Over Sub	1.00			3026.00	
Recorder	0.00	8017	Inside	3026.00	
Recorder	0.00	8352	Outside	3026.00	
Drill Pipe	30.00			3056.00	
Change Over Sub	1.00			3057.00	
Perforations	10.00			3067.00	
Bullnose	3.00			3070.00	48.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**AC Pulliam #1-16**

PO Box 399  
Garden City, KS 67846

**16-19s-10w Rice, KS**

Job Ticket: 43511      **DST#: 1**

ATTN: Jim Musgrove

Test Start: 2011.07.12 @ 11:59:05

## 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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

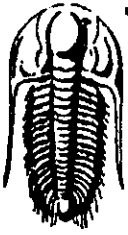
Length ft	Description	Volume bbl
65.00	Mud	0.912

Total Length: 65.00 ft      Total Volume: 0.912 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

American Warrior Inc.

**AC Pulliam #1-16**

PO Box 399  
Garden City, KS 67846

**16-19s-10w Rice, KS**

Job Ticket: 43511

DST#: 1

ATTN: Jim Musgrove

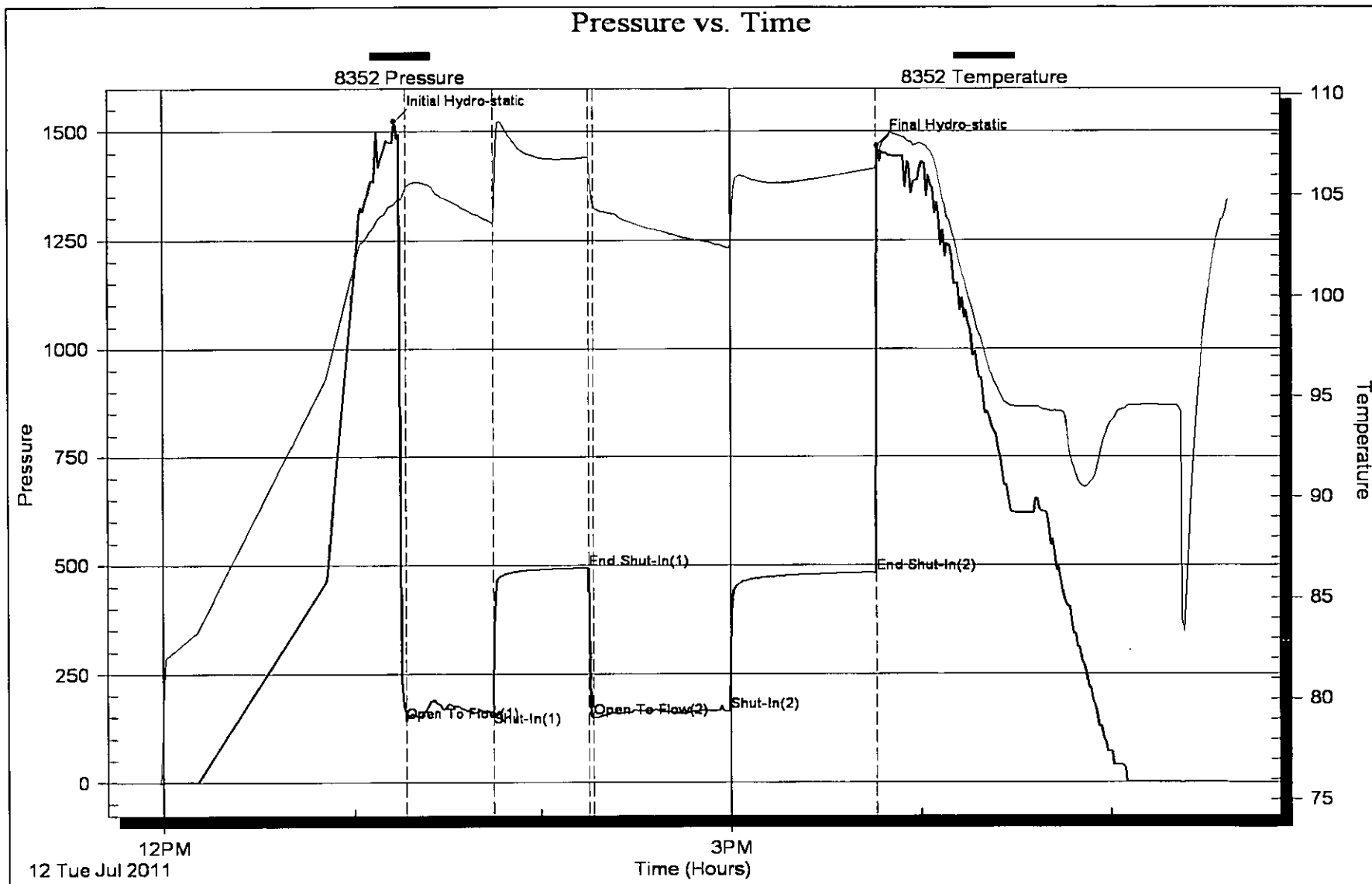
Test Start: 2011.07.12 @ 11:59:05

## Gas Rates Information

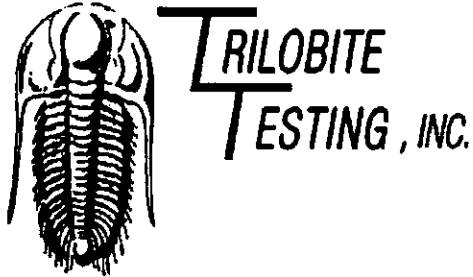
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.50	65.00	535.61
1	20	0.50	57.00	481.64
1	30	0.50	50.00	434.42
2	10	0.50	52.00	447.91
2	20	0.50	52.00	447.91
2	30	0.50	52.00	447.91
2	40	0.50	52.00	447.91







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Jim Musgrove

**16-19s-10w Rice,KS**

**AC Pulliam #1-16**

Start Date: 2011.07.13 @ 05:12:05

End Date: 2011.07.13 @ 09:57:59

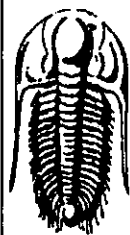
Job Ticket #: 43512                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**AC Pulliam #1-16**

PO Box 399  
Garden City, KS 67846

**16-19s-10w Rice, KS**

ATTN: Jim Musgrove

Job Ticket: 43512

**DST#: 2**

Test Start: 2011.07.13 @ 05:12:05

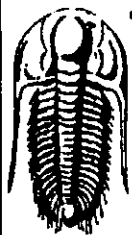
## Tool Information

Drill Pipe:	Length: 3072.00 ft	Diameter: 3.80 inches	Volume: 43.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 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: 43.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3086.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 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			3067.00	
Shut In Tool	5.00			3072.00	
Hydraulic tool	5.00			3077.00	
Packer	5.00			3082.00	20.00 Bottom Of Top Packer
Packer	4.00			3086.00	
Stubb	1.00			3087.00	
Perforations	3.00			3090.00	
Change Over Sub	1.00			3091.00	
Recorder	0.00	8017	Inside	3091.00	
Recorder	0.00	8352	Outside	3091.00	
Drill Pipe	63.00			3154.00	
Change Over Sub	1.00			3155.00	
Perforations	10.00			3165.00	
Bullnose	3.00			3168.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior Inc.

**AC Pulliam #1-16**

PO Box 399  
Garden City, KS 67846

**16-19s-10w Rice,KS**

Job Ticket: 43512      **DST#: 2**

ATTN: Jim Musgrove

Test Start: 2011.07.13 @ 05:12:05

**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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.93 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5100.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

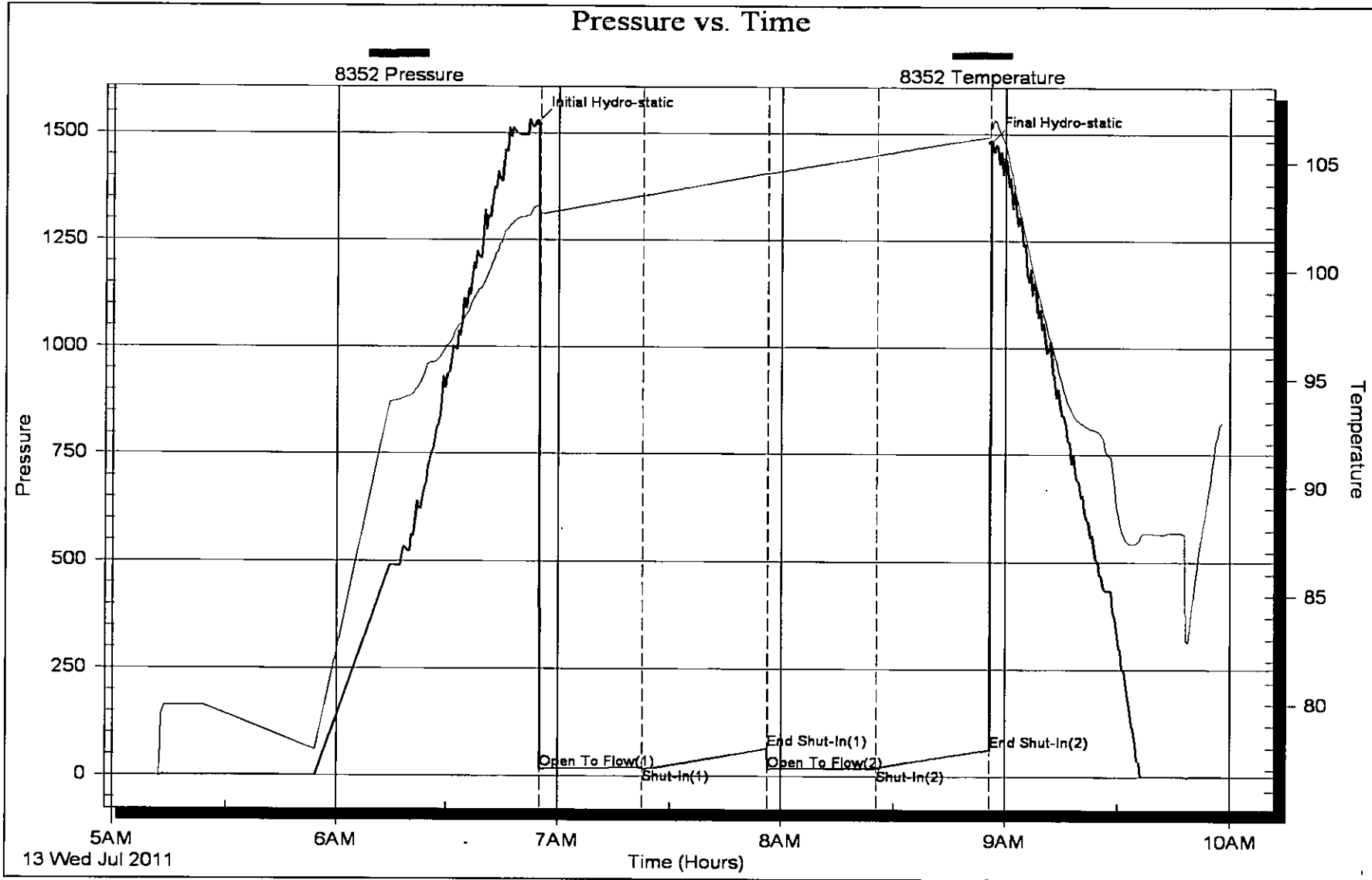
Length ft	Description	Volume bbl
10.00	Mud	0.140

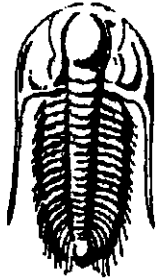
Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Jim Musgrove

**16-19s-10w Rice,KS**

**AC Pulliam #1-16**

Start Date: 2011.07.14 @ 04:28:05

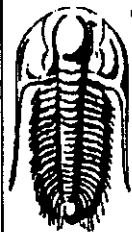
End Date: 2011.07.14 @ 10:18:59

Job Ticket #: 43513                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.

**AC Pulliam #1-16**

PO Box 399  
Garden City, KS 67846

**16-19s-10w Rice, KS**

Job Ticket: 43513

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2011.07.14 @ 04:28:05

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock:                      ft (KB)

Time Tool Opened: 06:08:50

Time Test Ended: 10:18:59

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: **3230.00 ft (KB) To 3327.00 ft (KB) (TVD)**

Total Depth: 3327.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1872.00 ft (KB)

1864.00 ft (CF)

KB to GRVCF: 8.00 ft

**Serial #: 8352**

**Outside**

Press@RunDepth: 101.85 psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.14

End Date:

2011.07.14

Last Calib.:

2011.07.14

Start Time: 04:28:05

End Time:

10:18:59

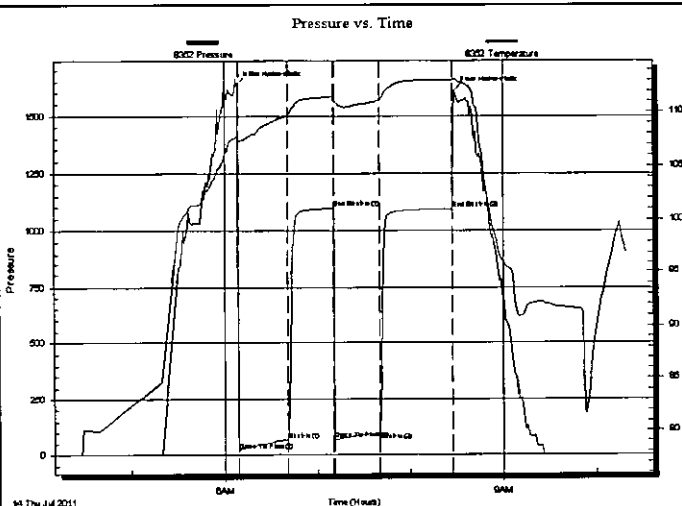
Time On Btm:

2011.07.14 @ 06:07:40

Time Off Btm:

2011.07.14 @ 08:28:10

**TEST COMMENT:** IF:(30min) BOB, 10 min.  
IS:(30min) 1 inch return blow  
FF:(30min) BOB, 4 min  
FS:(45min) Return Blow, BOB 30 min.



## PRESSURE SUMMARY

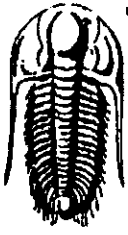
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.81	107.67	Initial Hydro-static
2	20.72	107.21	Open To Flow (1)
33	67.84	109.62	Shut-In(1)
63	1096.94	111.40	End Shut-In(1)
63	69.09	110.95	Open To Flow (2)
92	101.85	111.08	Shut-In(2)
140	1094.00	112.95	End Shut-In(2)
141	1609.61	113.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOM g=10% o=40% n=50%	0.84
60.00	GMO g=20% n=30% o=50%	0.84
95.00	GO g=30% o=70%	1.33
0.00	GIP= 1700ft	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

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

**AC Pulliam #1-16**  
**16-19s-10w Rice,KS**  
Job Ticket: 43513      **DST#: 3**  
Test Start: 2011.07.14 @ 04:28:05

**Tool Information**

Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			<b>Total Volume: 45.28 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3230.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	97.00 ft				
Tool Length:	117.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

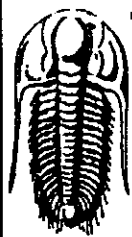
Tool Comments:

**Tool Description**

	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3211.00		
Shut In Tool	5.00			3216.00		
Hydraulic tool	5.00			3221.00		
Packer	5.00			3226.00	20.00	Bottom Of Top Packer
Packer	4.00			3230.00		
Stubb	1.00			3231.00		
Perforations	3.00			3234.00		
Change Over Sub	1.00			3235.00		
Recorder	0.00	8017	Inside	3235.00		
Recorder	0.00	8352	Outside	3235.00		
Drill Pipe	63.00			3298.00		
Change Over Sub	1.00			3299.00		
Perforations	25.00			3324.00		
Bullnose	3.00			3327.00	97.00	Bottom Packers & Anchor

**Total Tool Length: 117.00**





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior Inc.

**AC Pulliam #1-16**

PO Box 399  
Garden City, KS 67846

**16-19s-10w Rice,KS**

Job Ticket: 43513      **DST#: 3**

ATTN: Jim Musgrove

Test Start: 2011.07.14 @ 04:28:05

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 7.95 in<sup>3</sup>  
Resistivity: ohmm  
Salinity: 5100.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

**Recovery Information**

Recovery Table

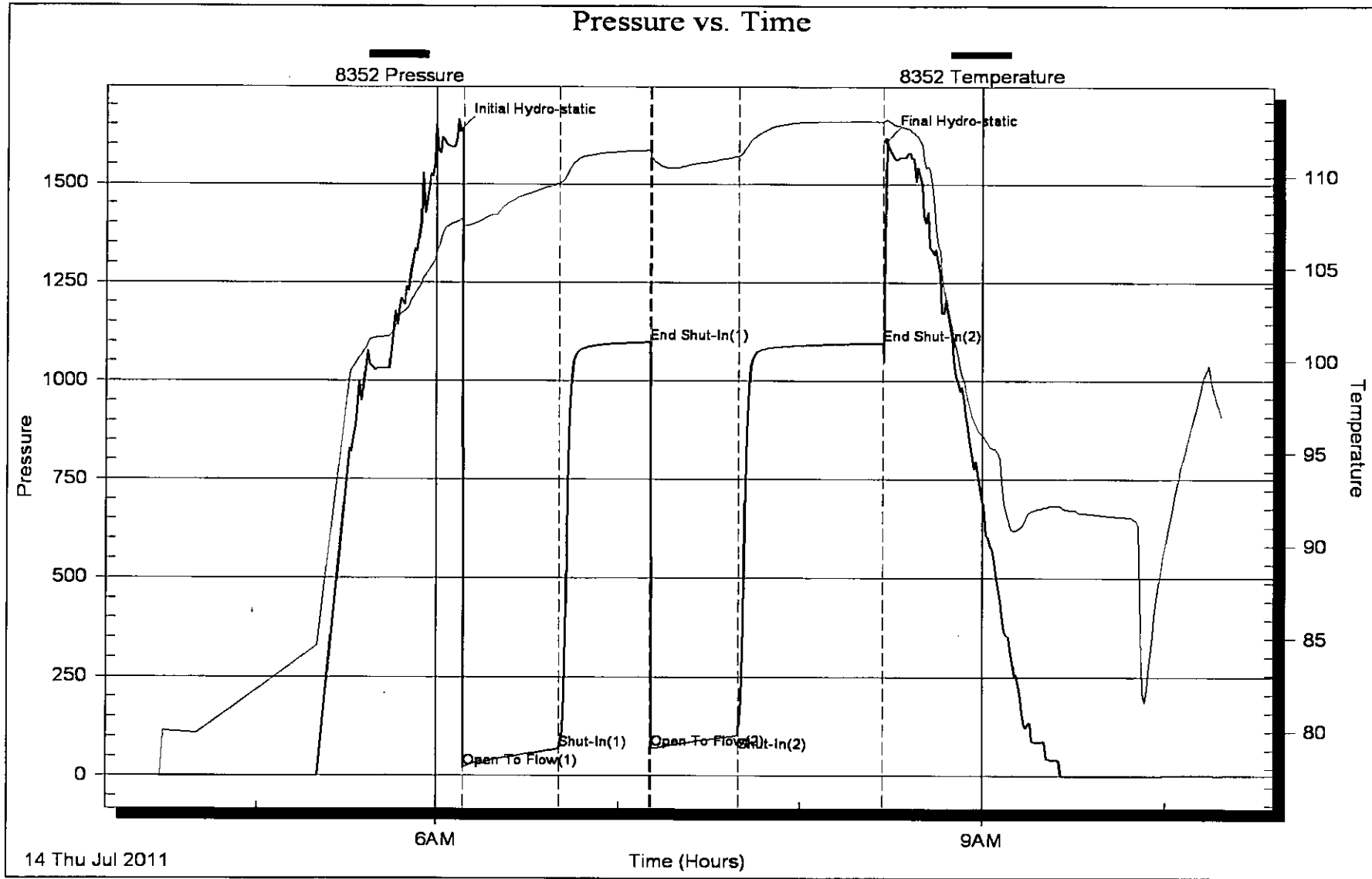
Length ft	Description	Volume bbl
60.00	GOM g=10% o=40% m=50%	0.842
60.00	GMO g=20% m=30% o=50%	0.842
95.00	GO g=30% o=70%	1.333
0.00	GIP= 1700ft	0.000

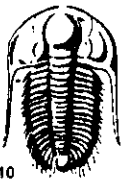
Total Length: 215.00ft      Total Volume: 3.017 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601 BY: \_\_\_\_\_

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JUL 14 2011

## Test Ticket

NO. 43511

Well Name & No. AC Pulliam #1-16 Test No. 1 Date 7-12-11  
 Company AMERICAN WARRIOR INC Elevation 1872 KB 1764 GL  
 Address PO Box 399 GARDEN City Ks 67846  
 Co. Rep / Geo. Jim Musgrove Rig Duke #8  
 Location: Sec. 16 Twp. 19s Rge. 10w Co. Rice State Ks

Interval Tested 3022-3070 Zone Tested LKC #8"  
 Anchor Length 48' Drill Pipe Run 3010 Mud Wt. 9.4  
 Top Packer Depth 3017 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3028 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3070 Chlorides 5100 ppm System LCM 0

Blow Description IF: BOB, 30 sec, gaugeable gas to surface 5 min  
IS: Return blow, BOB 4 min.  
FP: BOB, immediately, gas.  
FS: Return blow, BOB

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud</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 65 BHT 106 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1522  Test \_\_\_\_\_ T-On Location 11:20  
 (B) First Initial Flow 140  Jars \_\_\_\_\_ T-Started 11:59  
 (C) First Final Flow 166  Safety Joint \_\_\_\_\_ T-Open 13:15  
 (D) Initial Shut-In 492  Circ Sub \_\_\_\_\_ T-Pulled 15:45  
 (E) Second Initial Flow 149  Hourly Standby \_\_\_\_\_ T-Out 17:37  
 (F) Second Final Flow 164  Mileage 164 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 481  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1466  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

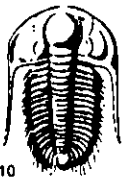
Sub Total \_\_\_\_\_ Total \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the 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.

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 43512

Well Name & No. AC Pulliam #1-16 Test No. 2 Date 7-13-11  
 Company America Warrior Inc. Elevation 1872 KB 1764 GL  
 Address PO 399 Garden City KS 67846  
 Co. Rep / Geo. Jim Musgrave Rig Duke #8  
 Location: Sec. 16 Twp. 19S Rge. 10W Co. Rice State Ks.

Interval Tested 3086 - 3168 Zone Tested LKC "H,I,J"  
 Anchor Length 82 Drill Pipe Run 3072 Mud Wt. 9.4  
 Top Packer Depth 3081 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3086 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3168 Chlorides 5100 ppm System LCM 0

Blow Description IF: Weak, surface blow  
IS: No Return  
FF: Blow built to 3 inches  
FS: No Return

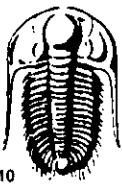
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 106' Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1524  Test \_\_\_\_\_ T-On Location 0452  
 (B) First Initial Flow 15  Jars \_\_\_\_\_ T-Started 0512  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 0655  
 (D) Initial Shut-In 63  Circ Sub \_\_\_\_\_ T-Pulled 0855  
 (E) Second Initial Flow 14  Hourly Standby \_\_\_\_\_ T-Out 0958  
 (F) Second Final Flow 18  Mileage 164 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 62  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1480  Straddle \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 30  Extra Packer \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Total \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Andy Can  
 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.

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## RECEIVED Test Ticket

JUL 14 2011

NO. 43513

Well Name & No. AC Pulliam #1-16 Test No. 3 Date 7-14-11  
 Company AMERICAN WARRIOR INC. Elevation 1872 KB 1764 GL  
 Address PO BOX 399 GARDEN CITY KS. 67846  
 Co. Rep / Geo. Jim Musgeove Rig Duke #8  
 Location: Sec. 16 Twp. 19s Rge. 10W Co. Rice State Ks

Interval Tested 3230 - 3327 Zone Tested Arbuckle  
 Anchor Length 97 Drill Pipe Run 3228 Mud Wt. 9.3  
 Top Packer Depth 3225 Drill Collars Run 0 Vis 42  
 Bottom Packer Depth 3230 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3327 Chlorides 4706 ppm System LCM 0

Blow Description IF: BOB, 10 min  
IS: 1" Return blow  
FF: BOB, 4 min  
FS: Return Blow, BOB 30 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1700</u>	Feet of <u>GIP</u>				
<u>95</u>	Feet of <u>BO</u>	<u>30</u>	<u>70</u>		
<u>60</u>	Feet of <u>BMO</u>	<u>20</u>	<u>50</u>		<u>30</u>
<u>60</u>	Feet of <u>BOM</u>	<u>10</u>	<u>40</u>		<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 215' BHT 112 Gravity 47 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1636  Test \_\_\_\_\_ T-On Location 0414  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 0428  
 (C) First Final Flow 67  Safety Joint \_\_\_\_\_ T-Open 0610  
 (D) Initial Shut-In 1096  Circ Sub \_\_\_\_\_ T-Pulled 0825  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 1019  
 (F) Second Final Flow 101  Mileage 164RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1094  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1609  Straddle \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Initial Open 30  Extra Packer \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Total \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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.

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