

15-159-22616-00.00

ORIGINAL

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

12/22/12

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, Sr  
Phone: (620) 275-2063  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co  
Wellsite Geologist: James Musgrove  
Purchaser: N/A

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Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SLOW  
 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 #:

10/6/10 10/10/10 12/2/10  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

Spot Description: W/2-NW-NW-SE  
W/2 NW NW SE Sec. 13 Twp. 19 S. R. 10  East  West  
2,310 Feet from  North /  South Line of Section  
2,600 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Rice  
Lease Name: Link-Beneke Well #: 1-13

Field Name: Chase-Silica  
Producing Formation: Arbuckle

Elevation: Ground: 1749' Kelly Bushing: 1757'  
Total Depth: 3380' Plug Back Total Depth: 3323'

Amount of Surface Pipe Set and Cemented at: 313 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: 18,000 ppm Fluid volume: 101 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: Permit #:

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. Information 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: [Signature]  
Title: Geologist Date: 12/20/10

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Letter of Confidentiality Received  
Date: 12/22/10 - 12/22/12  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: [Signature] Date: 1-19-11

Operator Name: American Warrior, Inc Lease Name: Link-Beneke Well #: 1-13  
 Sec. 13 Twp. 19 S. R. 10  East  West County: Rice

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**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>DIL, CNL/CDL, MEL</b>	<input checked="" type="checkbox"/> Log    Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>2801'</td> <td>-1044</td> </tr> <tr> <td>Brown Lime</td> <td>2925'</td> <td>-1168</td> </tr> <tr> <td>Lansing</td> <td>2956'</td> <td>-1199</td> </tr> <tr> <td>Base Kansas City</td> <td>3237'</td> <td>-1480</td> </tr> <tr> <td>Conglomerate</td> <td>3263'</td> <td>-1506</td> </tr> <tr> <td>Arbuckle</td> <td>3274'</td> <td>-1517</td> </tr> <tr> <td>RTD</td> <td>3380'</td> <td>-1623</td> </tr> </table>	Name	Top	Datum	Heebner	2801'	-1044	Brown Lime	2925'	-1168	Lansing	2956'	-1199	Base Kansas City	3237'	-1480	Conglomerate	3263'	-1506	Arbuckle	3274'	-1517	RTD	3380'	-1623
Name	Top	Datum																							
Heebner	2801'	-1044																							
Brown Lime	2925'	-1168																							
Lansing	2956'	-1199																							
Base Kansas City	3237'	-1480																							
Conglomerate	3263'	-1506																							
Arbuckle	3274'	-1517																							
RTD	3380'	-1623																							

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"	8.625"	23#	313'	Common	200	3%cc 2%gel
Production	8-7/8"	5.5"	14#	3379'	Common	175	Flocele

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3274'-3280'	Common	75	

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	3274'-3278'	None	

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TUBING RECORD:    Size: <u>2.375"</u> Set At: <u>3318'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: <b>N/A</b>		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	Oil    Bbls. <b>N/A</b>	Gas    Mcf    Water    Bbls.    Gas-Oil Ratio    Gravity <b>N/A</b>

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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
--	--	--

**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.  
Link-Beneke #1-13  
2310' FSL & 2600' FEL; Section 13-19s-10w  
Rice County, Kansas  
Page 1

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5 1/2" Production Casing

**Contractor:** Duke Drilling Company (Rig #8)  
**Commenced:** October 4, 2010  
**Completed:** October 10, 2010  
**Elevation:** 1757' K.B.; 1755' G.L; 1749' G.L.  
**Casing program:** Surface; 8/58" @ 313'  
Production; 5 1/2" @ 3379'  
**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.  
**Formation Testing:** There was one (1) Drill Stem Test ran by Trilobite Testing Co.  
**Electric Log:** By Log Tech; DIL, CNL/CDL, MEL

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<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Heebner	2801	-1044
Toronto	2813	-1056
Douglas	2823	-1066
Brown Lime	2925	-1168
Lansing	2956	-1199
Base Kansas City	3237	-1480
Conglomerate	3263	-1506
Arbuckle	3274	-1517
Rotary Total Depth	3380	-1623
Log Total Depth	3382	-1625

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

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

TOPEKA SECTION

2715-2732' Limestone; gray, tan, fine and medium crystalline, chalky in part, few dolomitic, poor porosity.  
2746-2766' Limestone; tan, fine and medium crystalline, few scattered porosity, no shows.

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**TORONTO SECTION**

2823-2833' Limestone; white/cream, finely crystalline, chalky, poorly developed porosity.

**LANSING SECTION**

2956-2966' Limestone; cream, gray, finely crystalline, fossiliferous, chalky, poorly developed porosity, no shows.

2990-3005' Limestone; cream, gray, finely crystalline, chalky in part, poor visible porosity, no shows.

3020-3028' Limestone; as above, slightly oolitic/fossiliferous, cherty in part.

3043-3061' Limestone; cream, oomoldic, chalky, fair to good oomoldic porosity, (barren).

3096-3106' Limestone; cream, light gray, fossiliferous/oolitic in part, few scattered porosity, no shows.

3124-3150' Limestone; white, cream, fossiliferous, chalky, fair fossil cast porosity, black stain, show of free oil, faint odor in fresh samples.

3180-3190' Limestone; gray, fossiliferous, chalky in part, few granular, poor porosity, no shows.

3200-3210' Limestone; cream/white, finely crystalline, oolitic, chalky, scattered porosity, no shows.

**MARMATON SECTION**

3246-3262' Limestone; white, finely oolitic, chalky, poor porosity, no shows.

**ARBUCKLE SECTION**

3274-3282' Dolomite; tan, cream, fine and medium crystalline, fair intercrystalline porosity, golden brown stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #1 3232-3280' (log 3234-3282)**

**Times:** 30-30-30-45

**Blow:** Weak to good

**Recovery:** 210' gas in pipe  
15' clean oil  
35' oil and gas cut watery mud  
(8% gas, 11% oil, 4% water, 77% mud)  
60' oil cut watery mud  
(9% oil, 8% water, 83% mud)

**Pressures:** ISIP 1051 psi  
FSIP 1031 psi  
IFP 19-42 psi  
FFP 44-63 psi  
HSH 1610-1567 psi

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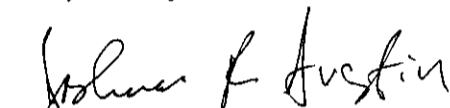
- 3282-3292' Dolomite; tan, cream, finely crystalline, slightly sucrosic, poorly developed porosity, brown spotty stain, trace of free oil and faint odor in fresh samples, plus white boney chert.
- 3292-3320' Dolomite; cream, tan, fine and medium crystalline, cherty in part, scattered porosity, brown stain, trace free oil and faint odor in fresh samples, plus chert, as above and iron pyrite.
- 3320-3350' Dolomite; as above.
- 3350-3382' Dolomite; tan, buff, fine and medium crystalline, slightly cherty, trace stain, trace of free oil and faint odor, plus chert as above.

**Rotary Total Depth**            **3380 (-1623)**  
**Log Total Depth**            **3382 (-1625)**

**Recommendations:**

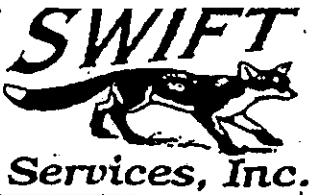
5 1/2" production casing was set and cemented at 3379'.

Respectfully submitted;



Joshua R. Austin,  
Petroleum Geologist





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

TICKET  
 17923  
 PAGE 1 OF 2

SERVICE LOCATIONS:  
 1. Ness City, KS  
 2.  
 3.  
 4.  
 REFERRAL LOCATION

WELL/PROJECT NO. 1-13  
 LEASE Link-Benkeke  
 COUNTY/PARISH Rice  
 STATE KS  
 CITY Ness City  
 DATE 5-31-10  
 OWNER

TICKET TYPE  SERVICE  SALES  
 CONTRACTOR Duke Drilling Co.  
 RIG NAME/NO. 8  
 SHIPPED VIA Chase  
 ORDER NO.

WELL TYPE Oil  
 WELL CATEGORY Development  
 JOB PURPOSE Cement 5 1/2" Casing  
 WELL PERMIT NO.  
 WELL LOCATION Chase 1W, 3N, 1/2W N-10

INVOICE INSTRUCTIONS

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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE Trk # 114	80	mi			5.00	400.00
578		1			Pump Charge Longstring	1	ea			1400.00	1400.00
221		1			Liquid KCL	2	gal			25.00	50.00
281		1			Mud flush	500	gal			1.00	500.00
402		1			Centralizer	6	ea			55.00	330.00
403		1			Cement Basket	1	ea			200.00	200.00
406		1			Latch Down Plug + Baffle	1	ea			225.00	225.00
407		1			Insert Float Shoe/Autofill	1	ea			275.00	275.00

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 5-31-10 TIME SIGNED 1600  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 3380.00
WE UNDERSTOOD AND MET YOUR NEEDS?				Page # 2 3944.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal 7324.50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX Rice 6.3% 285.39
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL 7609.89
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				



JOB LOG

SWIFT Services, Inc.

DATE 8-31-10 PAGE

CUSTOMER American Warrick Inc

WELL NO. 1-13

LEASE Benkeke

JOB TYPE Cement 5 1/2 Casing

TICKET NO. 17923

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							On Location 5 1/2" 14# Cents 2, 6, 8, 11, 13, 15 TD-3440' Basket-#5 TP-3430' PS-3435' SF-21'
			KCC DEC 22 2010 CONFIDENTIAL					
	1630							Start 5 1/2" Casing
	1800							Break Circulation
	1900	6 3/4	32	✓			200	Pump Mud flush + KCL Flush
	1905	3	7	✓				Plug Rat Hole 30skS
	1910	3	5	✓				Plug Mouse Hole 20skS
	1915	4 1/2		✓			200	Start Cement 125skS @ 15.5
			30					- Shut Down - Release Plug - Wash P.
	1930	6 3/4		✓			200	Start Displacement
			63				300	Lift Cement
							750	Max Lift
	1945		83.4				1500	Land Plug - Release - Hold
								Wash Truck
	2015							Job Complete Thank you Brett Dave + Shan

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# ALLIED CEMENTING CO. LLC. 036846

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

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SERVICE POINT:  
Great Bend Ws

DATE <u>10-6-10</u>	SEC. <u>13</u>	TWP. <u>19S</u>	RANGE <u>10W</u>	<b>CONFIDENTIAL</b>	ON LOCATION	JOB START <u>7:30 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>Benefit</u>	WELL# <u>1-13</u>	LOCATION <u>chase 3 west 3 north</u>			COUNTY <u>Rice</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			1 East 1/2 North west in To				

CONTRACTOR Duke S OWNER American warrior

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 313 CEMENT

CASING SIZE 8 1/2 DEPTH 313 AMOUNT ORDERED 2000x Class A 8% or 2% Gel

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 200 @ 13.50 2700.00

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15 GEL @ 26.25 81.00

PERFS. CHLORIDE 7 @ 51.50 360.50

DISPLACEMENT 18 3/4 ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER wayne D

# 324 HELPER Bob R

BULK TRUCK

# 456-198 DRIVER Bill

BULK TRUCK

# DRIVER

HANDLING 200 @ 2.25 450.00

MILEAGE 200 x 2.3 x .10 460.00

TOTAL 4051.50

**REMARKS:**

Pipe on Bottom B-egg circulation  
with Ris mud shut down  
Hook up To Cement line mix 200  
5% class A 8% or 2% Gel shut down  
Release pipe Displace 18 3/4 Bbbs  
fresh water shut in  
Cement did circulate.

**SERVICE**

DEPTH OF JOB

PUMP TRUCK CHARGE 990.00

EXTRA FOOTAGE @

MILEAGE 23 @ 7.00 161.00

MANIFOLD @

TOTAL 1151.00

CHARGE TO: American warrior

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_  
@ \_\_\_\_\_  
\_\_\_\_\_  
@ \_\_\_\_\_  
\_\_\_\_\_  
@ \_\_\_\_\_  
\_\_\_\_\_  
@ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., 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 Steve A. Stephens

SIGNATURE Steve A. Stephens

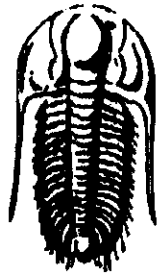
SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 5202.50

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior Inc.**

P.O. Box 399  
Garden City KS 67846

ATTN: Josh Austin

**13-19s-10w Rice KS**

**Link-Bencke#1-13**

Start Date: 2010.10.10 @ 08:28:22

End Date: 2010.10.10 @ 13:39:22

Job Ticket #: 38820                      DST #: 1

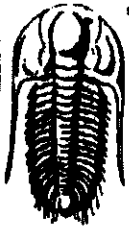
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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
P.O. Box 399  
Garden City KS 67846  
ATTN: Josh Austin

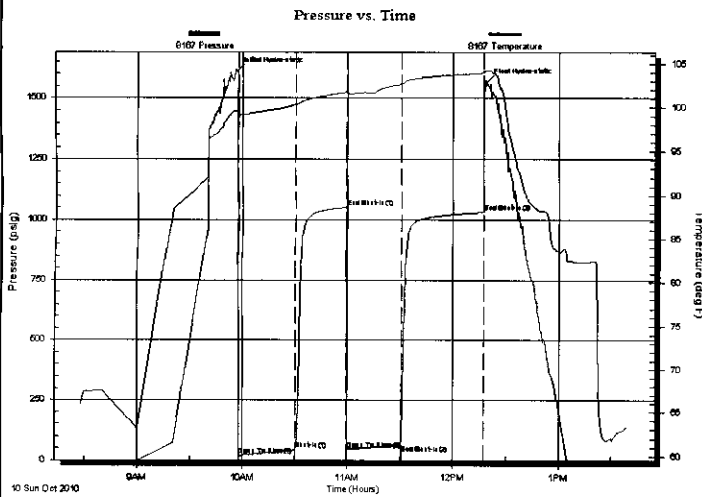
**Link-Bencke#1-13**  
**13-19s-10w Rice KS**  
Job Ticket: 38820      DST#: 1  
Test Start: 2010.10.10 @ 08:28:22

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 09:57:52  
Time Test Ended: 13:39:22  
Interval: **3232.00 ft (KB) To 3280.00 ft (KB) (TVD)**  
Total Depth: **3280.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
Test Type: **Conventional Bottom Hole**  
Tester: **Gary Pevoteaux**  
Unit No: **39**  
Reference Elevations: **1757.00 ft (KB)**  
**1749.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 8167**      **Inside**  
Press@RunDepth: **41.77 psig @ 3233.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.10.10**      End Date: **2010.10.10**      Last Calib.: **2010.10.10**  
Start Time: **08:28:27**      End Time: **13:39:21**      Time On Btm: **2010.10.10 @ 09:56:37**  
Time Off Btm: **2010.10.10 @ 12:18:52**

**TEST COMMENT:** IF: Fair blow . Increase to 13 or 14".  
IS: No blow .  
FF: Weak blow . Slow increase to 5".  
FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.27	99.56	Initial Hydro-static
2	19.02	98.93	Open To Flow (1)
34	41.77	100.33	Shut-In(1)
63	1051.17	101.74	End Shut-In(1)
64	44.43	101.38	Open To Flow (2)
94	63.11	102.66	End Shut-In(2)
141	1030.99	103.93	End Shut-In(3)
143	1566.50	104.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	210 ft. of GIP	0.00
15.00	Clean oil	0.21
35.00	GOCVM 8%g 11%o 4%w 77%m	0.49
60.00	OCVM 9%o 8%w 83%m	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.  
P.O. Box 399  
Garden City KS 67846  
  
ATTN: Josh Austin

**Link-Bencke#1-13**  
**13-19s-10w Rice KS**  
Job Ticket: 38820      **DST#: 1**  
Test Start: 2010.10.10 @ 08:28:22

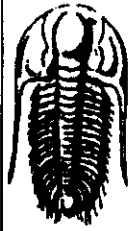
### Tool Information

Drill Pipe:	Length: 3217.00 ft	Diameter: 3.80 inches	Volume: 45.13 bbl	Tool Weight: 2400.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 45.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 38500.00 lb
Depth to Top Packer:	3232.00 ft			Final 39000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3213.00	
Shut in tool	5.00			3218.00	
HMV	5.00			3223.00	
Packer	4.00			3227.00	20.00      Bottom Of Top Packer
Packer	5.00			3232.00	
Stubb	1.00			3233.00	
Recorder	0.00	8167	Inside	3233.00	
Recorder	0.00	8370	Outside	3233.00	
Perforations	7.00			3240.00	
Blank Spacing	32.00			3272.00	
Perforations	3.00			3275.00	
Bullnose	5.00			3280.00	48.00      Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior Inc.  
P.O. Box 399  
Garden City KS 67846  
  
ATTN: Josh Austin

**Link-Bencke#1-13**  
**13-19s-10w Rice KS**  
Job Ticket: 38820      DST#: 1  
Test Start: 2010.10.10 @ 08:28:22

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 39.1 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 5700 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5700.00 ppm		
Filter Cake: 0.20 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	210 ft.of GIP	0.000
15.00	Clean oil	0.210
35.00	GOCVM 8%g 11%o 4%w 77%m	0.491
60.00	OCVM 9%o 8%w 83%m	0.842

Total Length: 110.00 ft      Total Volume: 1.543 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

