

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
October 2008  
Must Be Typed

RECEIVED

MAR 24 2010

**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, Sr  
Phone: (620) 275-2963  
CONTRACTOR: License # 31548  
Name: Discovery Drilling Co, Inc  
Wellsite Geologist: Marc Downing  
Purchaser: Plains Mrktg #159340

Designate Type of Completion:  
 New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_  
 Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW \_\_\_\_\_  
\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
\_\_\_\_\_ CM (Coal Bed Methane) \_\_\_\_\_ Temp. Abd. \_\_\_\_\_  
\_\_\_\_\_ Dry \_\_\_\_\_ Other \_\_\_\_\_  
*(Core, WSW, Expl., Cathodic, 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: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No.: \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No.: \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Enhr.?) \_\_\_\_\_ Docket No.: \_\_\_\_\_  
10/05/09      10/11/09      11/17/09  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 135-24, 970 -0000 **KCC WICHITA**  
Spot Description: SE-NE-NW  
NE NW SW SE Sec. 23 Twp. 18 S. R. 26  East  West  
1000 Feet from  North /  South Line of Section  
2998 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ness  
Lease Name: Keith B Well #: 2-23  
Field Name: Aldrich

Producing Formation: Ft Scott  
Elevation: Ground: 2530' Kelly Bushing: 2538'  
Total Depth: 4515' Plug Back Total Depth: 4486'  
Amount of Surface Pipe Set and Cemented at: 219 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1794 Feet  
If Alternate II completion, cement circulated from: Surface  
feet depth to: 1794' w/ 130 <sup>sq. ft.</sup>

**Drilling Fluid Management Plan**  
*(Data must be collected from the Reserve Pit)*  
Chloride content: 15,000 ppm Fluid volume: 240 bbls  
Dewatering method used: EVAPORATION  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

*Alt 2 - Dlg - 3/26/10*

**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.

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: 2/18/10  
Subscribed and sworn to before me this 23 day of March,  
20 10.  
Notary Public: Caitlin Birney  
Date Commission Expires: 09/10/2013

**Caitlin Birney**  
Notary Public - State of Kansas  
My Appt. Expires 09/10/2013

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
\_\_\_\_\_ UIC Distribution

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KCC WICHITA

Operator Name: American Warrior, Inc Lease Name: Keith B Well #: 2-23  
 Sec. 23 Twp. 18 S. R. 26  East  West County: Ness

**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 copy of all Electric Wireline 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 <i>(Submit Copy)</i>  List All E. Logs Run: <b>Dual Compensated Porosity/Dual Induction                  Microresistivity</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:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3794'</td> <td>-1256</td> </tr> <tr> <td>Lansing</td> <td>3833'</td> <td>-1295</td> </tr> <tr> <td>Marmaton</td> <td>4200'</td> <td>-1662</td> </tr> <tr> <td>Pawnee</td> <td>4278'</td> <td>-1740</td> </tr> <tr> <td>Ft Scott</td> <td>4343'</td> <td>-1805</td> </tr> <tr> <td>Cherokee</td> <td>4370'</td> <td>-1832</td> </tr> <tr> <td>Mississippi</td> <td>4445'</td> <td>-1907</td> </tr> </table>	Name	Top	Datum	Heebner	3794'	-1256	Lansing	3833'	-1295	Marmaton	4200'	-1662	Pawnee	4278'	-1740	Ft Scott	4343'	-1805	Cherokee	4370'	-1832	Mississippi	4445'	-1907
Name	Top	Datum																							
Heebner	3794'	-1256																							
Lansing	3833'	-1295																							
Marmaton	4200'	-1662																							
Pawnee	4278'	-1740																							
Ft Scott	4343'	-1805																							
Cherokee	4370'	-1832																							
Mississippi	4445'	-1907																							

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 Casing	12-1/4"	8-5/8"	23	219	Common	150	2%gel 3%cc
Production	7-7/8"	5-1/2"	15.5	4507	EA/2	175	

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4347'-4350'/4362'-4367'		SAME

TUBING RECORD: Size: <u>2-3/8"</u> Set At: <u>4512'</u> Packer At: <u>NONE</u> Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>KCC WICHITA</b>
Date of First, Resumed Production, SWD or Enhr. <u>1/10</u>	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. <u>Shut-In</u>	Gas Mcf <u> </u> Water Bbls. <u> </u> Gas-Oil Ratio <u> </u> Gravity <u>36.5</u>

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

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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CHARGE TO: American Warrior  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET  
17137

PAGE 1 OF 2

SERVICE LOCATIONS: Ness City KS  
 WELL/PROJECT NO.: 2 LEASE: Keith "B" COUNTY/PARISH: Ness STATE: KS CITY: Ness City DATE: 10-12-09 OWNER: \_\_\_\_\_  
 TICKET TYPE:  SERVICE  SALES CONTRACTOR: Discovery Drlg. Co. RIG NAME/NO.: 3 SHIPPED VIA: \_\_\_\_\_ DELIVERED TO: Beeler ORDER NO.: \_\_\_\_\_  
 WELL TYPE: Oil WELL CATEGORY: Development JOB PURPOSE: Cement Longstring WELL PERMIT NO.: \_\_\_\_\_ WELL LOCATION: Ness City 13 W, 1 3/4 N W4S into  
 REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE Trk # 114	20	mi			5.00	100.00
578		1			Pump Charge Long String	1	ea			1400.00	1400.00
102		1			Centralizer	7	ea	5 1/2	"	55.00	385.00
103		1			Cement Basket	1	ea	5 1/2	"	180.00	180.00
104		1			Part Collar	1	ea	1800	ft	1900.00	1900.00
106		1			Latch Down Plug & Baffle	1	ea	5 1/2	"	225.00	225.00
107		1			Insert float shoe w/ Auto Fill	1	ea	5 1/2	"	275.00	275.00
119		1			Rotating Head Rental	1	ea	5 1/2	"	150.00	150.00
221		1			Liquid KCL	2	gal			25.00	50.00
281		1			Mud flush	500	gal			1.00	500.00

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**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  
 \_\_\_\_\_  
 TIME SIGNED: 10-12-09 0400  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	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5165	00
WE UNDERSTOOD AND MET YOUR NEEDS?				Page #2	3770 00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	8935 00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?				Less 5.3%	366 89
<input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	9301 89
<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.  
 OPERATOR: Brett Corsair APPROVAL: \_\_\_\_\_

Thank You!

**JOB LOG**


**SWIFT Services, Inc.**

DATE 10-12-09 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 2 LEASE Keith "B" JOB TYPE Cement Longstring TICKET NO. 17137

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	400							On Location 5 1/2 15.5# Cent. 1,3,5,7,9,11,67 TD-4515' Basket TP-4507' PC 68 1800' PS-4507' 113Jts SF 18'
	500							Run 5 1/2 Casing
	700							Break Circulation
	745	6 3/4	32	✓			350	Pump Mud Flush + KCL Flush
	750	3	7	✓				Plug Rat hole 30 sks
	755	4		✓			350	Start Cement 145 sks @ 15.5 spg
	805		34	.				- Shut Down - Release Plug - Wash Pump Lines
	810	6 3/4		✓			250	Start Displacement
		6 3/4	84	✓			400	Lift Cement
							800	Max Lift
	830		106.8	✓			1500	Land Plug - Release - Hold
	835							Wash Truck
	900							Job Complete

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Thank you  
Brett, Dave & Jason  
FEB 22 2010  
KCC WICHITA

 <b>TRILOBITE TESTING, INC</b>	<b>DRILL STEM TEST REPORT</b>	
	American Warrior PO Box 399 Garden City, Ks 67846 ATTN: Marc Downing	<b>Keith B #2</b> <b>23-18s-26w Ness, Ks</b> Job Ticket: 35381      DST#: 1 Test Start: 2009.10.11 @ 03:10:37

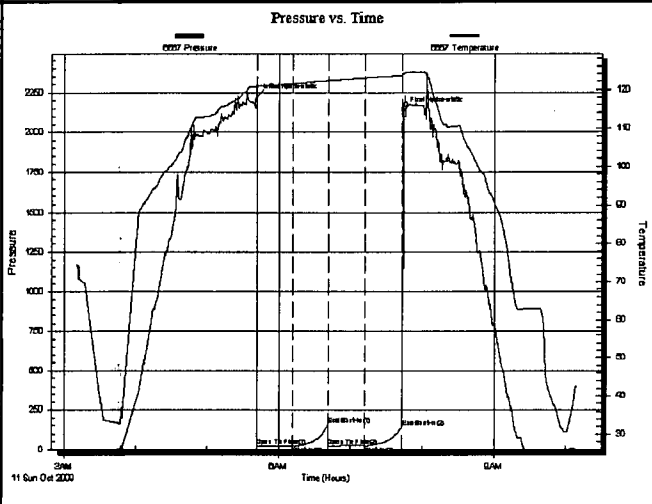
**GENERAL INFORMATION:**

Formation: <b>Miss</b>	Test Type: Conventional Straddle
Deviated: <b>No Whipstock</b> ft (KB)	Tester: Shane McBride
Time Tool Opened: 05:41:32	Unit No: 40
Time Test Ended: 10:15:16	
Interval: <b>4434.00 ft (KB) To 4466.00 ft (KB) (TVD)</b>	Reference Elevations: 2536.00 ft (KB)
Total Depth: 4521.00 ft (KB) (TVD)	2528.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 8.00 ft

**Serial #: 6667      Inside**

Press@RunDepth: 25.15 psig @ 4435.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2009.10.11	End Date: 2009.10.11
Start Time: 03:10:37	End Time: 10:09:16
	Last Calib.: 2009.10.11
	Time On Btm: 2009.10.11 @ 05:41:17
	Time Off Btm: 2009.10.11 @ 07:44:02

**TEST COMMENT:** Surface blow  
 No return  
 Bubble to open tool  
 No return

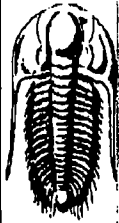


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.83	121.30	Initial Hydro-static
1	21.37	120.71	Open To Flow (1)
30	23.30	121.44	Shut-in(1)
60	157.13	122.28	End Shut-in(1)
61	24.45	122.21	Open To Flow (2)
90	25.15	122.93	Shut-in(2)
123	139.08	123.63	End Shut-in(2)
123	2136.85	124.19	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

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

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior

**Keith B #2**

PO Box 399  
Garden City, Ks  
67846

**23-18s-26w Ness, Ks**

Job Ticket: 35381

**DST#: 1**

ATTN: Marc Downing

Test Start: 2009.10.11 @ 03:10:37

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

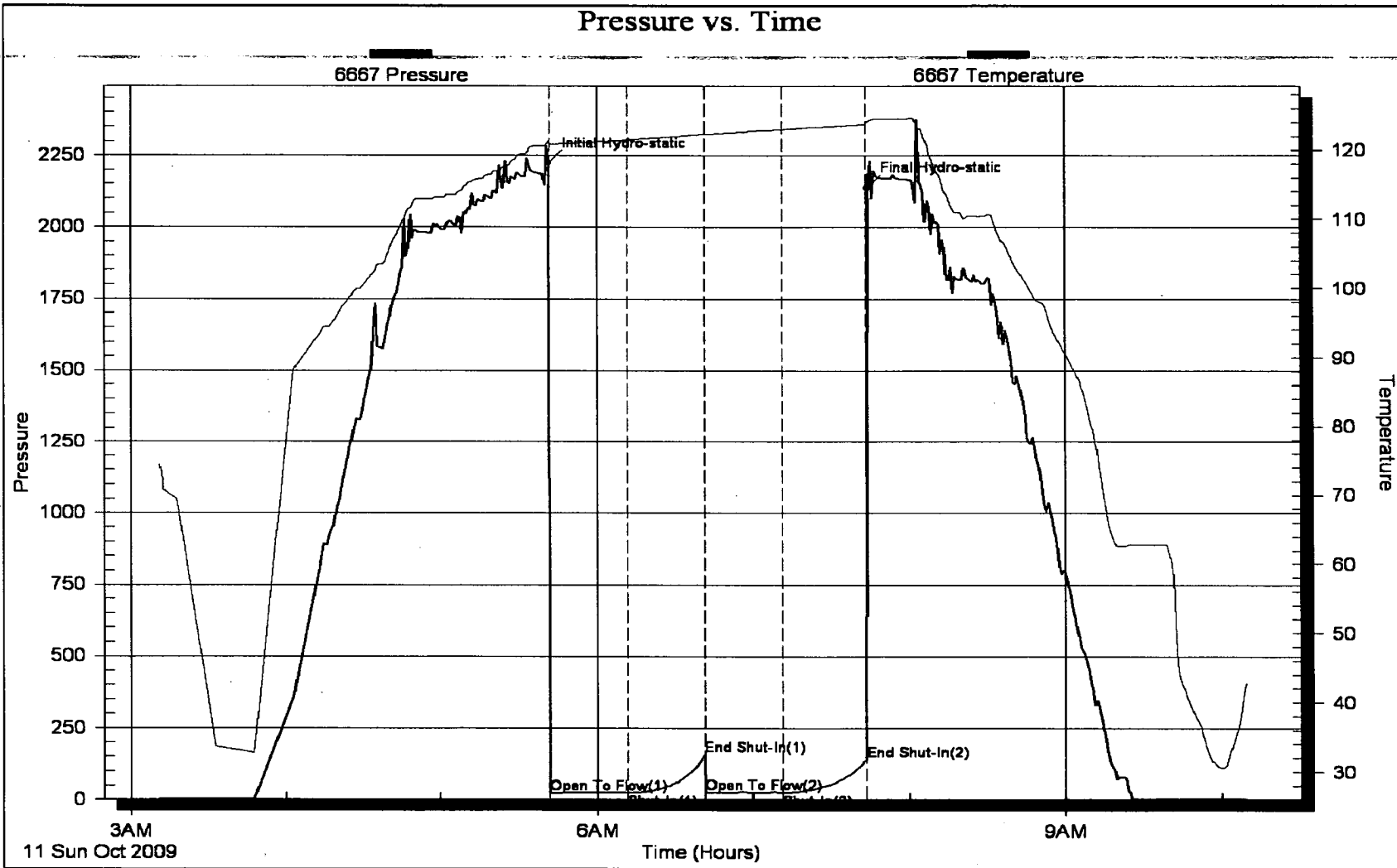
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



10/12/2009 8:40 AM FROM: TrilobiteTesting Inc TrilobiteTesting Inc TO: 1-620-275-5067 PAGE: 004 OF 004





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

American Warrior

**Keith B #2**

PO Box 399  
Garden City, Ks  
67846  
ATTN: Marc Downing

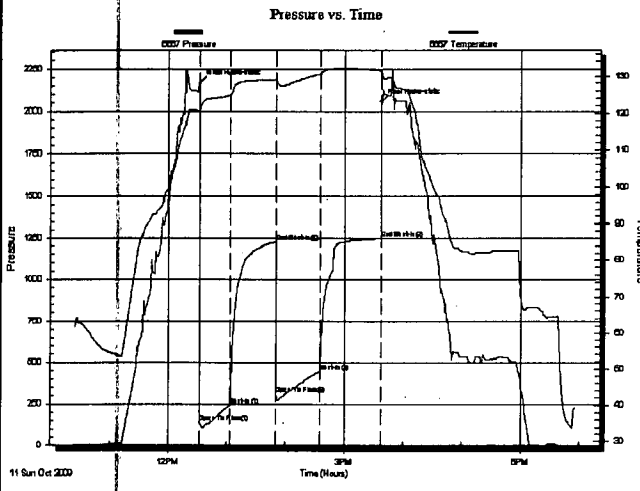
**23-18s-26w Ness, Ks**  
Job Ticket: 35382 **DST# 2**  
Test Start: 2009.10.11 @ 10:25:24

**GENERAL INFORMATION:**

Formation: **Ft Scott**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 12:32:49  
 Time Test Ended: 19:05:48  
 Interval: **4316.00 ft (KB) To 4364.00 ft (KB) (TVD)**  
 Total Depth: **4521.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: **Conventional Straddle**  
 Tester: **Shane McBride**  
 Unit No: **40**  
 Reference Elevations: **2536.00 ft (KB)**  
**2528.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 6667** Inside  
 Press@Run Depth: **444.19 psig @ 4317.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2009.10.11** End Date: **2009.10.11** Last Calib.: **2009.10.11**  
 Start Time: **10:25:24** End Time: **18:55:48** Time On Btm: **2009.10.11 @ 12:32:19**  
 Time Off Btm: **2009.10.11 @ 15:37:19**

**TEST COMMENT:** B.O.B. in 1 min.  
 G.T.S. 6 min into shutin bled off throughout  
 B.O.B. in 2 min gas to weak to gauge  
 Bled off throughout



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.93	120.89	Initial Hydro-static
1	140.03	120.49	Open To Flow (1)
31	240.60	124.96	Shut-in(1)
78	1225.95	128.83	End Shut-in(1)
78	308.28	128.55	Open To Flow (2)
123	444.19	130.57	Shut-in(2)
185	1245.94	131.53	End Shut-in(2)
185	2057.82	131.78	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
124.00	m c g o 30g 30m 40o under circ sub	1.47
867.00	c g o 35g 65o reversed out	12.16
144.00	c g o 35g 65o	2.02

**Gas Rates**

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

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior

**Keith B #2**

PO Box 399  
Garden City, Ks  
67846

**23-18s-26w Ness, Ks**

Job Ticket: 35382 **DST#: 2**

ATTN: Marc Downing

Test Start: 2009.10.11 @ 10:25:24

**Mud and Cushion Information**

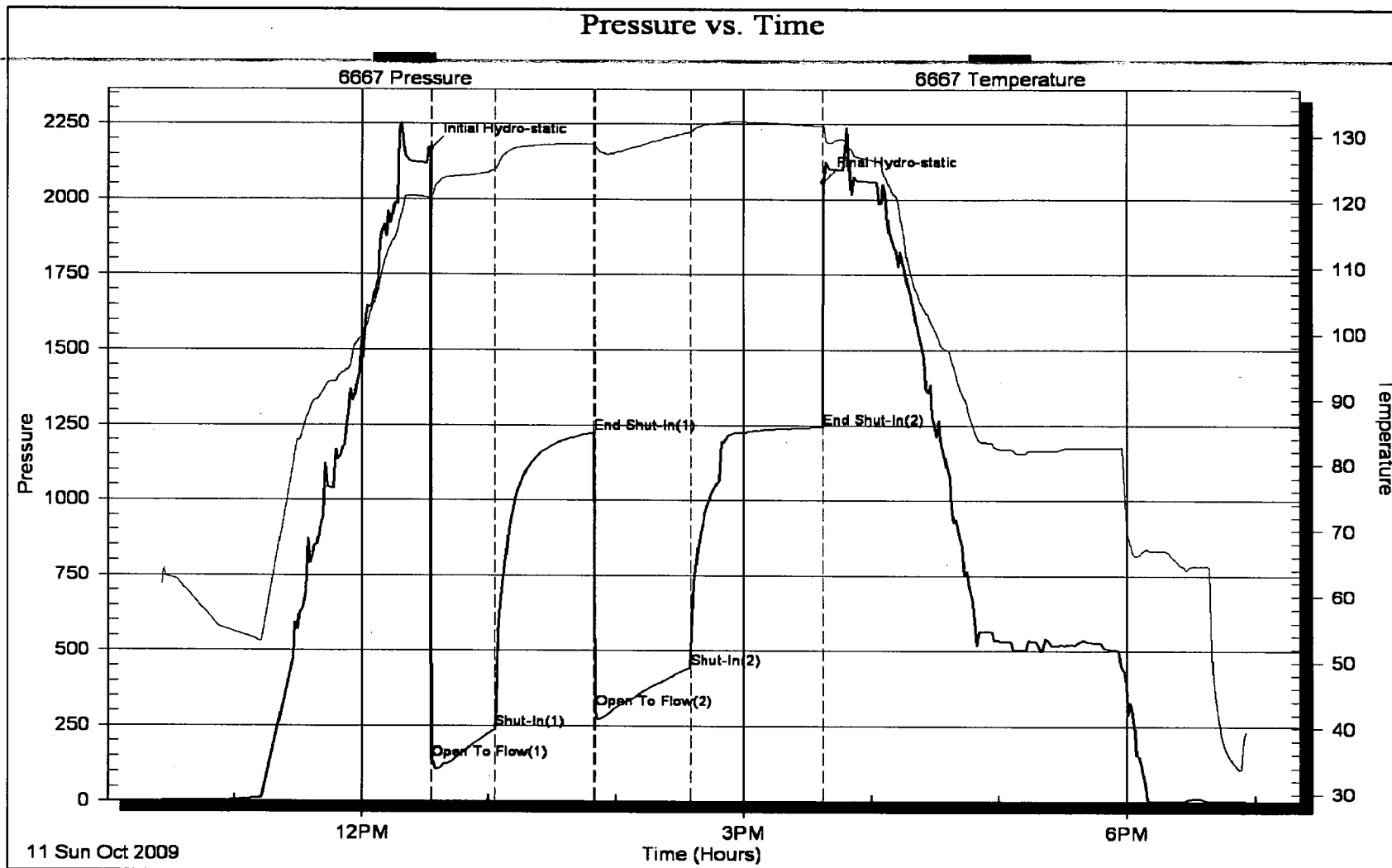
Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.35 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3700.00 ppm				
Filter Cake:	1.00 inches				

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	m c g o 30g 30m 40o under circ sub	1.466
867.00	c g o 35g 65o reversed out	12.162
144.00	c g o 35g 65o	2.020

Total Length: 1135.00ft      Total Volume: 15.648 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



10/12/2009 8:42 AM FROM: TrilobiteTesting Inc TrilobiteTesting Inc TO: 1-620-275-5067 PAGE: 004 OF 004

# **Geological Report**

American Warrior Inc.  
Keith "B" #2  
1000' FSL & 2998' FWL  
Sec. 23 T18S R26W  
Ness County, Kansas

Marc Downing  
Consulting Petroleum Geologist

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**American Warrior, Inc.**

## General Data

Well Data: American Warrior Inc.  
Keith "B" #2  
1000' FSL & 2298' FWL  
Sec. 23-18s-26w  
Ness County, Kansas  
API # 15-135-24970-0000

Drilling Contractor: Discovery Drilling, Rig #3

Spud Date: October 5, 2009

Completion Date: October 10, 2009

Elevation: 2530' Ground Level  
2538' Kelly Bushing

Directions: Beeler, KS, E to D5 Rd, 1.5 N, W & S into

Casing: 219' 8 5/8" surface casing  
4520' 5 12" production casing

Samples: 10' wet and dry, 3750' to RTD

Drilling Time: 3650' to RTD

Electric Logs: Log-Tech – M. Garrison  
Density Neutron, Dual Induction, Micro

Drillstem Tests: Two, Trilobite Testing Inc. "Shane McBride"

Problems: None

## Formation Tops

	American Warrior, Inc.
	Keith "B" #2
	Sec. 23-18s-26w
<b>Formation</b>	<b>1000' FSL &amp; 2298' FWL</b>
Top Anhydrite	<b>1812' (+726)</b>
Base Anhydrite	<b>1845' (+693)</b>
Heebner	<b>3794' (-1256)</b>
Lansing	<b>3833' (-1295)</b>
Stark Sh.	<b>4086' (-1548)</b>
BKC	<b>4160' (-1622)</b>
Marmaton	<b>4200' (-1662)</b>
Pawnee	<b>4278' (-1740)</b>
Fort Scott	<b>4343' (-1805)</b>
Cherokee Sh.	<b>4370' (-1832)</b>
Mississippi	<b>4445' (-1907)</b>
RTD	4515'
LTD	4521'

## Sample Zone Descriptions

### **Marmaton 4233 (-1695):**

LS: tan-brown, 3 pieces dolomitic, medium-coarse crystalline. Poor-fair inter-crystalline and vugular porosity. Fair saturated stain w/ fair show free oil. No odor, poor fluorescence. Many sub-crystalline rocks. 9 unit gas kick.

### **Fort Scott 4343 (-1805):**

LS: brown-tan, totally oolitic. Poor-fair inter-oolitic porosity w/ good brown saturated stain and fair show free oil. Fair-good green fluorescence, good odor. Scattered tan-brown chert. 29 unit gas kick.

### **Cherokee 4386 (-1848):**

LS: tan, very fine crystalline, dense. Poor inter-crystalline and pin-point porosity w/ fair stain and spotted show free oil. Light odor. 20 unit gas kick.

### **Conglomerate 4431 (-1893):**

Abundant chert, brown-tan-white. Good vugular porosity w/ some totally saturated black. Good-very good show free oil, fair-good odor, poor fluorescence, free oil on cup. 7 unit gas kick.

### **Mississippi 4445 (-1907):**

Dolo: white-tan, fossiliferous, fin-medium crystalline. poor-fair inter-crystalline porosity. Scattered pieces w/ fair-good saturated stain, poor-fair show free oil. Many chalky rocks. Fair odor.

## Drill Stem Tests

Trilobite Testing Inc.  
Shane McBride

DST #1

Mississippi:

Interval: 4434-4466 (Straddle from log)

Times: 30-30-30-30

I.F. – Surface blow.

I.S.I. – dead

F.F. – dead

F.S.I. – dead

HP: 2222-2137#

BHT: 124° F

IFP: 21-23#

ISI: 157#

FFP: 24-25#

FSI: 139#

Recovery:

2' mud

DST #2

Fort Scott:

Interval: 4316-4364 (Straddle from log)

Times: 30-45-30-45

I.F. – BOB 1 min.

I.S.I. – GTS 6 min. No Gauge.

F.F. – BOB 2 min. Gas weak Gauge

F.S.I. – bleed off gas

HP: 2165-2058#

BHT: 132° F

IFP: 140-241#

ISI: 1226#

FFP: 308-444#

FSI: 1246#

Recovery:

1011' CGO

124' MCGO 30% gas, 40% oil

G = 37

## Structural Comparison

	American Warrior, Inc. Keith "B" #2 1000' FSL & 2298' FWL Ness Co., KS 15-135-24970-0000	American Warrior, Inc. Keith "B" #1-23 296' FWL Ness Co., KS 15-135-24907-0000
<b>Formation</b>		
Top Anhydrite	1812' (+726)	(+718) +8
Base Anhyd	1845' (+693)	(+686) +7
Heebner	3794' (-1256)	(-1254) -2
Lansing	3833' (-1295)	(-1293) -2
Stark Sh.	4086' (-1548)	(-1545) -3
BKC	4160' (-1622)	(-1618) -4
Marmaton	4200' (-1662)	(-1653) -9
Pawnee	4278' (-1740)	(-1736) -4
Fort Scott	4343' (-1805)	(-1799) -6
Cherokee Sh.	4370' (-1832)	(-1828) -4
Mississippi	4445' (-1907)	(-1902) -5

## Summary

Due to structural position, DST recovery, and log evaluation, it was decided to set 5 ½" production casing for completion in the Fort Scott.

## Recommended Perforations

Ft. Scott: 4347-50 & 4362-67  
Cherokee: 4386-89 (Before Abandonment)

Respectfully Submitted,

Marc Downing