



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1319021  
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: \_\_\_\_\_

1319021

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> <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	KREIGH 1-3
Doc ID	1319021

Tops

Name	Top	Datum
Anhy	2458	+607
B/Anhy	2478	+587
Heebner	3872'	-807
Lansing	3924	-859
B/KC	4253	-1188
Marmaton	4298	-1233
Ft.Scott	4452'	-1387
Johnson	4524	-1459
Mississippian	4681	-1616





CHARGE TO: *American Warrior*

ADDRESS

CITY, STATE, ZIP CODE

TICKET 29703

PAGE 1 OF 1

SERVICE LOCATIONS 1. *Ness City KS* WELL/PROJECT NO. *1-3* LEASE *Kreigh* COUNTY/PARISH *Logan* STATE *KS* CITY *Russell Springs* DATE *13 Sep 16* OWNER

2. TICKET TYPE  SERVICE  SALES CONTRACTOR *Discovery* RIG NAME/NO. *2* SHIPPED *VIA* DELIVERED TO *Location* ORDER NO.

3. WELL TYPE *oil* WELL CATEGORY *Development* JOB PURPOSE *cement surface pipe* WELL PERMIT NO. WELL LOCATION *3-14-35*

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	100	mi			5.00	500.00
576S		1			Pump Charge	1	ea			800.00	800.00
325		1			Standard cement	175	sk			12.25	2143.75
279		1			Bentonite gel	3	sk			25.00	75.00
278		1			Calcium chloride	8	sk			40.00	320.00
290		1			D-Air	2	gal			42.00	84.00
581		1			Service charge	175	sk			<del>1.50</del> 1.50	262.50
583		1			Drayage	171.50	lb				643.13

**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

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M. *15:15*

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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				4820.38
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

TAX *8.0%* *209.82*

TOTAL *5038.20*

JOB LOG

SWIFT Services, Inc.

DATE 13 Sep 16 PAGE NO. 7

CUSTOMER *Indian Warrior* WELL NO. *1-3* LEASE *Kreigh* JOB TYPE *concrete surface pipe* TICKET NO. *29703*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								<i>175sk standard 2% gel 3% CC 8 5/8" x 28" casing 5 jts - 228' TD = 229'</i>
	<i>1315</i>							<i>on loc TRK 114</i>
	<i>1330</i>							<i>start 8 5/8" x 28" casing in well</i>
	<i>1355</i>							<i>circulate</i>
	<i>1410</i>	<i>3 1/2</i>				<i>150</i>		<i>MIX STD 2% 3% 175sk @ 14.7 ppg</i>
		<i>3 1/2</i>	<i>43</i>			<i>150</i>		<i>Kickout</i>
	<i>1429</i>	<i>3 1/2</i>				<i>200</i>		<i>Displace w/ H<sub>2</sub>O cement to surface</i>
	<i>1445</i>	<i>3 1/2</i>	<i>13</i>			<i>250</i>		<i>Kickout - shut in 8 5/8"</i>
	<i>1450</i>							<i>wash truck</i>
	<i>1515</i>							<i>Back up</i>
	<i>1525</i>							<i>job complete</i>

*175sk mixed  
30sk to pit*

*Thanks  
Blaine, Flint & Preston*



CHARGE TO: AMERICAN WARRIOR  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 29785

PAGE 1 OF

SERVICE LOCATIONS: 1. NESS CITY, KS

WELL/PROJECT NO. LEASE COUNTY/PARISH STATE CITY DATE OWNER  
 2. KREIGH 1-3 LOGAN KS. RUSSELL SPRINGS 21 Sep 16

TICKET TYPE CONTRACTOR RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.  
 SERVICE DISCOVERY DRILLING #2  
 SALES

WELL TYPE WELL CATEGORY JOB PURPOSE WELL PERMIT NO. WELL LOCATION  
 3. OIL ABANDON PTA 25 1/2 W, S I U T O

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					MILEAGE #115	120	mi	5	00	600
576P					Pump CHARGE	1	HR	800	00	800
276					FLUCELE	65	lbs	2	25	146
290					D-AIR	3	gal	42	00	126
328-4					60/40 Pz mix 4 1/2 gal	255	sq	11	25	2613
581					CEMENT SERVICE CHARGE	255	sq	1	50	382
583					DRAINAGE	21444	lbs	1286	75	9104

**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 21 SEP 16 TIME SIGNED 1900  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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5633 48
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL
<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 *[Signature]* APPROVAL

Thank You!



**JOB LOG**

**SWIFT Services, Inc.**

DATE 21 SEP 16 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE KREIGH 1-3

JOB TYPE PTA

TICKET NO. 29783

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<u>1445</u>							<u>ON LOCATION</u>
	<u>1545</u>	<u>4</u>	<u>13</u>					<u>1<sup>ST</sup> PLUG @ 2470 w/ 50sx</u>
	<u>1644</u>	<u>4</u>	<u>26</u>					<u>2<sup>ND</sup> PLUG @ 1260 w/ 100sx</u>
	<u>1726</u>	<u>4</u>	<u>13</u>					<u>3<sup>RD</sup> PLUG @ 280 w/ 50sx</u>
	<u>1814</u>	<u>1</u>	<u>2 1/2</u>					<u>4<sup>TH</sup> PLUG @ 40' w/ 10sx</u>
	<u>1817</u>							<u>PLUG RH w/ 30sx</u>
								<u>PLUG MH w/ 15sx</u>
								<u>255sx 60/40 Permox 4% GEL 1/4" FLOCELE</u>
	<u>1828</u>							<u>WASH TRUCK</u>
	<u>1900</u>							<u>JOB COMPLETE.</u>
								<u>THANKS #115</u>
								<u>JASON DAVE JOHN</u>





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 399  
Garden City KS 67846

ATTN: Luke Thompson

### **Kreigh #1-3**

### **3-14s-35w Logan,KS**

Start Date: 2016.09.19 @ 17:12:15

End Date: 2016.09.19 @ 22:57:45

Job Ticket #: 65612                      DST #: 1

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

Printed: 2016.09.22 @ 08:47:14

American Warrior Inc.  
3-14s-35w Logan,KS  
Kreigh #1-3  
DST # 1  
Ft. Scott - Johnson  
2016.09.19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.

**3-14s-35w Logan, KS**

P.O. Box 399  
Garden City KS 67846

**Kreigh #1-3**

Job Ticket: 65612

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2016.09.19 @ 17:12:15

## GENERAL INFORMATION:

Formation: **Ft. Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:22:15

Time Test Ended: 22:57:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 4424.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Reference Elevations: 3065.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

3057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 55.77 psig @ 4495.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.19

End Date:

2016.09.19

Last Calib.:

2016.09.19

Start Time:

17:12:15

End Time:

22:57:45

Time On Btm:

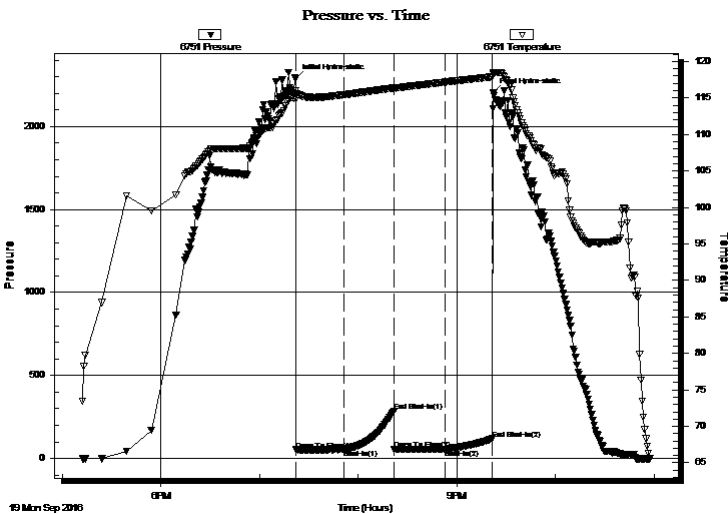
2016.09.19 @ 19:22:00

Time Off Btm:

2016.09.19 @ 21:22:15

TEST COMMENT: IF: Built to 1/8" blow  
IS: No return blow  
FF: No return blow  
FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.64	116.00	Initial Hydro-static
1	52.37	114.88	Open To Flow (1)
30	54.93	115.43	Shut-In(1)
60	284.21	116.38	End Shut-In(1)
60	55.48	116.32	Open To Flow (2)
91	55.77	117.17	Shut-In(2)
120	118.45	117.88	End Shut-In(2)
121	2205.32	118.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil spots	0.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**3-14s-35w Logan,KS**

P.O. Box 399  
Garden City KS 67846

**Kreigh #1-3**

Job Ticket: 65612

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2016.09.19 @ 17:12:15

## Tool Information

Drill Pipe:	Length: 4412.00 ft	Diameter: 3.80 inches	Volume: 61.89 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4425.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 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			4398.00	
Shut In Tool	5.00			4403.00	
Hydraulic tool	5.00			4408.00	
Jars	5.00			4413.00	
Safety Joint	3.00			4416.00	
Packer	5.00			4421.00	28.00 Bottom Of Top Packer
Packer	4.00			4425.00	
Stubb	1.00			4426.00	
Perforations	5.00			4431.00	
Change Over Sub	1.00			4432.00	
Drill Pipe	62.00			4494.00	
Change Over Sub	1.00			4495.00	
Recorder	0.00	8672	Inside	4495.00	
Recorder	0.00	6751	Outside	4495.00	
Perforations	15.00			4510.00	
Bullnose	5.00			4515.00	90.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>118.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**3-14s-35w Logan,KS**

P.O. Box 399  
Garden City KS 67846

**Kreigh #1-3**

Job Ticket: 65612

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2016.09.19 @ 17:12:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w ith oil spots	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

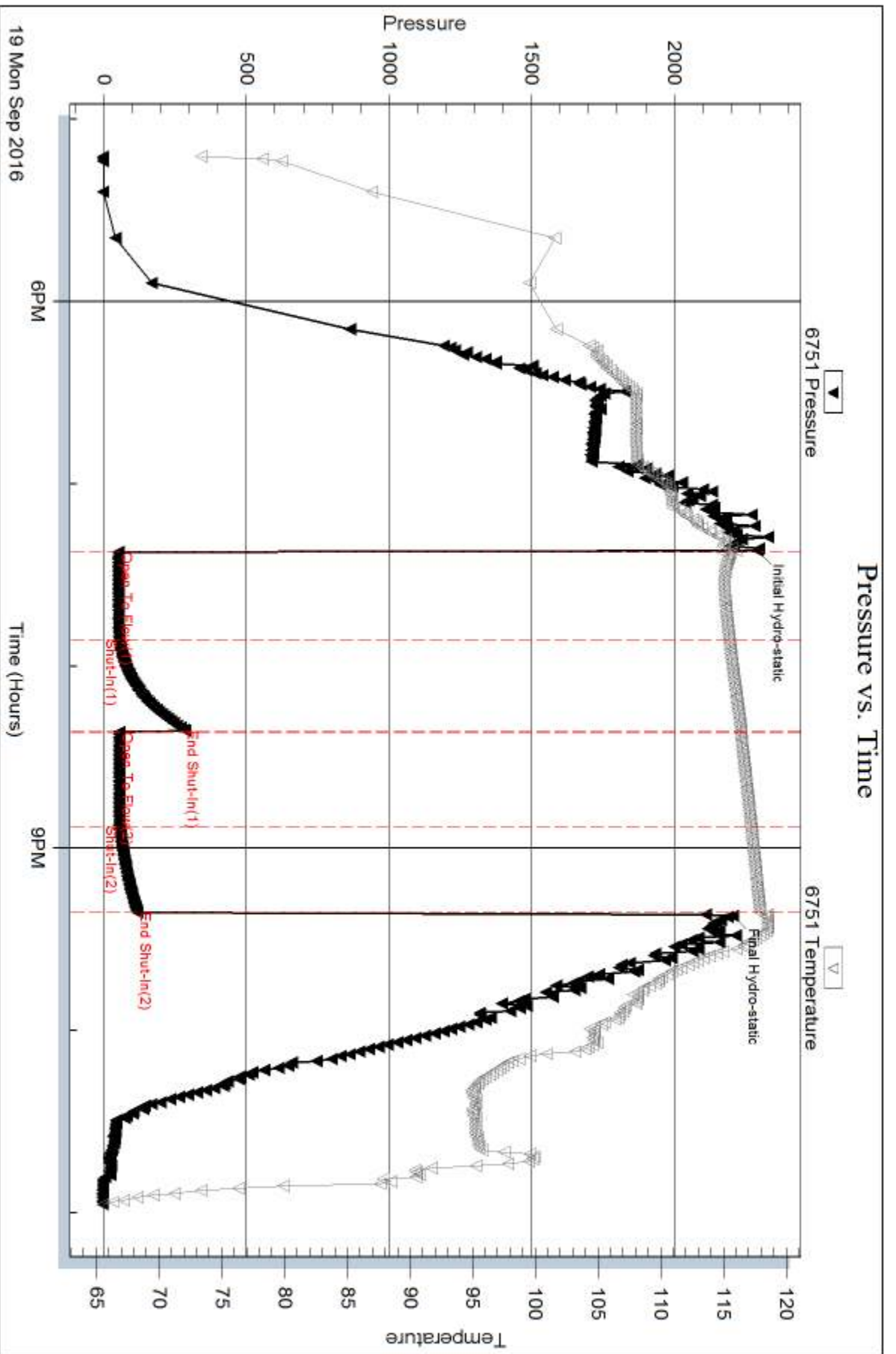
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



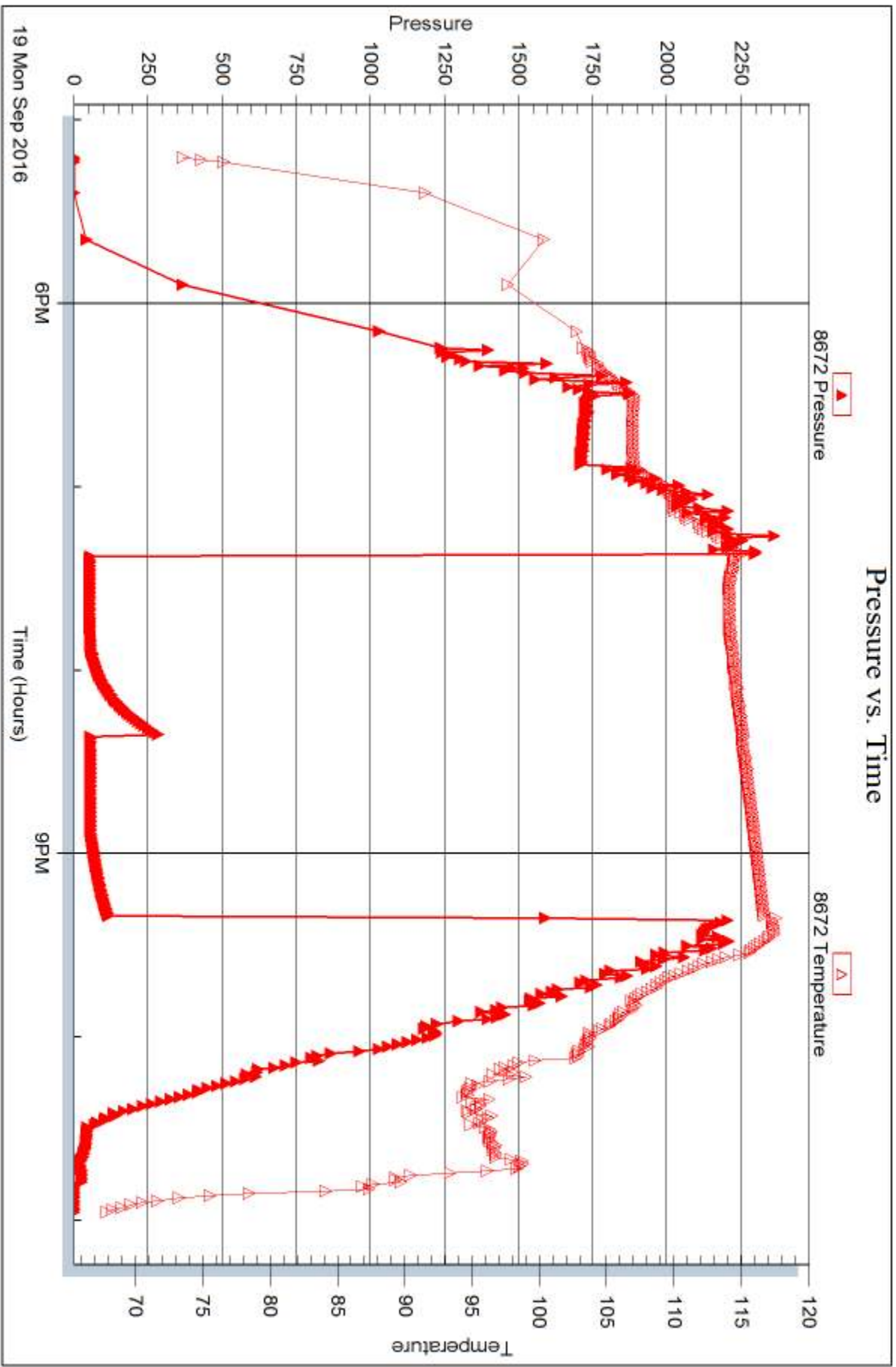
Serial #: 8672

Inside

American Warrior Inc.

Keigh #1-3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65612

Printed: 2016.09.22 @ 08:47:15





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 399  
Garden City KS 67846

ATTN: Luke Thompson

### **Kreigh #1-3**

#### **3-14s-35w Logan,KS**

Start Date: 2016.09.21 @ 04:17:15

End Date: 2016.09.21 @ 10:54:45

Job Ticket #: 65613                      DST #: 2

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

Printed: 2016.09.22 @ 08:46:14



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.

**3-14s-35w Logan,KS**

P.O. Box 399  
Garden City KS 67846

**Kreigh #1-3**

Job Ticket: 65613

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2016.09.21 @ 04:17:15

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:38:45

Time Test Ended: 10:54:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4302.00 ft (KB) To 4352.00 ft (KB) (TVD)**

Reference Elevations: 3065.00 ft (KB)

Total Depth: 4302.00 ft (KB) (TVD)

3057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 113.10 psig @ 4342.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.21

End Date: 2016.09.21

Last Calib.: 2016.09.21

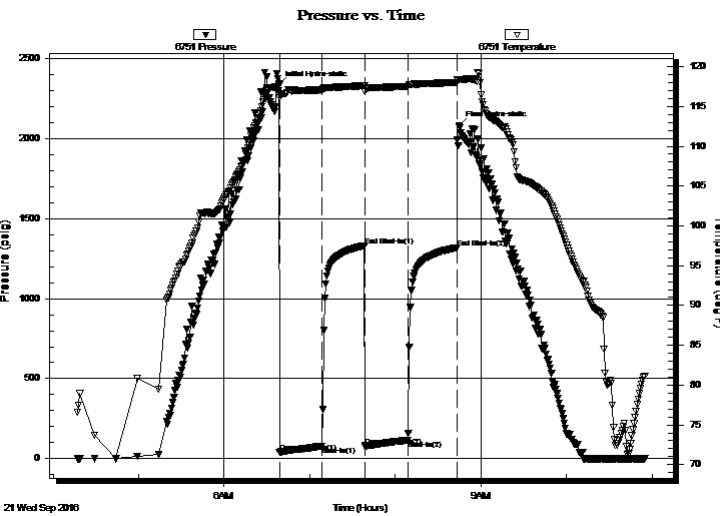
Start Time: 04:17:15

End Time: 10:54:45

Time On Btm: 2016.09.21 @ 06:38:30

Time Off Btm: 2016.09.21 @ 08:44:45

TEST COMMENT: IF: Built to 3" blow  
IS: No return blow  
FF: Built to 2" blow  
FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.68	116.93	Initial Hydro-static
1	39.79	116.07	Open To Flow (1)
30	77.71	117.07	Shut-In(1)
60	1331.60	117.60	End Shut-In(1)
61	77.41	116.88	Open To Flow (2)
91	113.10	117.51	Shut-In(2)
125	1319.50	118.01	End Shut-In(2)
127	2079.97	118.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	mud 100%m	1.82

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**3-14s-35w Logan,KS**

P.O. Box 399  
Garden City KS 67846

**Kreigh #1-3**

Job Ticket: 65613

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2016.09.21 @ 04:17:15

## Tool Information

Drill Pipe:	Length: 4289.00 ft	Diameter: 3.80 inches	Volume: 60.16 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4302.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	449.00 ft			
Tool Length:	477.00 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			4275.00	
Shut In Tool	5.00			4280.00	
Hydraulic tool	5.00			4285.00	
Jars	5.00			4290.00	
Safety Joint	3.00			4293.00	
Packer	5.00			4298.00	28.00 Bottom Of Top Packer
Packer	4.00			4302.00	
Stubb	1.00			4303.00	
Perforations	5.00			4308.00	
Change Over Sub	1.00			4309.00	
Drill Pipe	32.00			4341.00	
Change Over Sub	1.00			4342.00	
Recorder	0.00	8672	Inside	4342.00	
Recorder	0.00	6751	Outside	4342.00	
Perforations	5.00			4347.00	
Blank Off Sub	1.00			4348.00	
Packer - Shale	4.00			4352.00	
Stubb	1.00			4353.00	
Perforations	16.00			4369.00	
Change Over Sub	1.00			4370.00	
Recorder	0.00	8673	Below	4370.00	
Drill Pipe	375.00			4745.00	
Change Over Sub	1.00			4746.00	
Bullnose	5.00			4751.00	449.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>477.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**3-14s-35w Logan,KS**

P.O. Box 399  
Garden City KS 67846

**Kreigh #1-3**

Job Ticket: 65613

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2016.09.21 @ 04:17:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.28 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	mud 100%m	1.824

Total Length: 130.00 ft      Total Volume: 1.824 bbl

Num Fluid Samples: 0

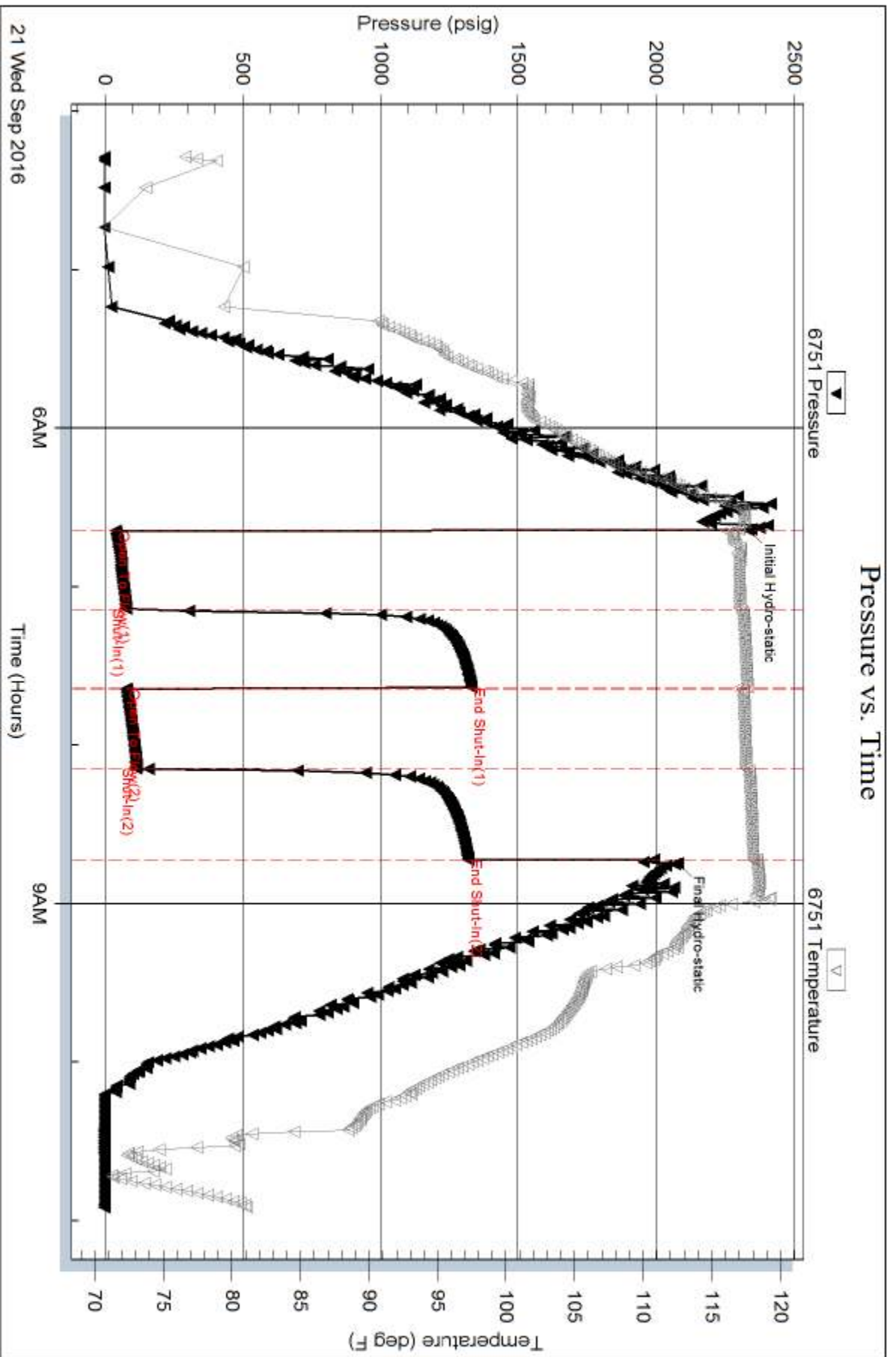
Num Gas Bombs: 0

Serial #:

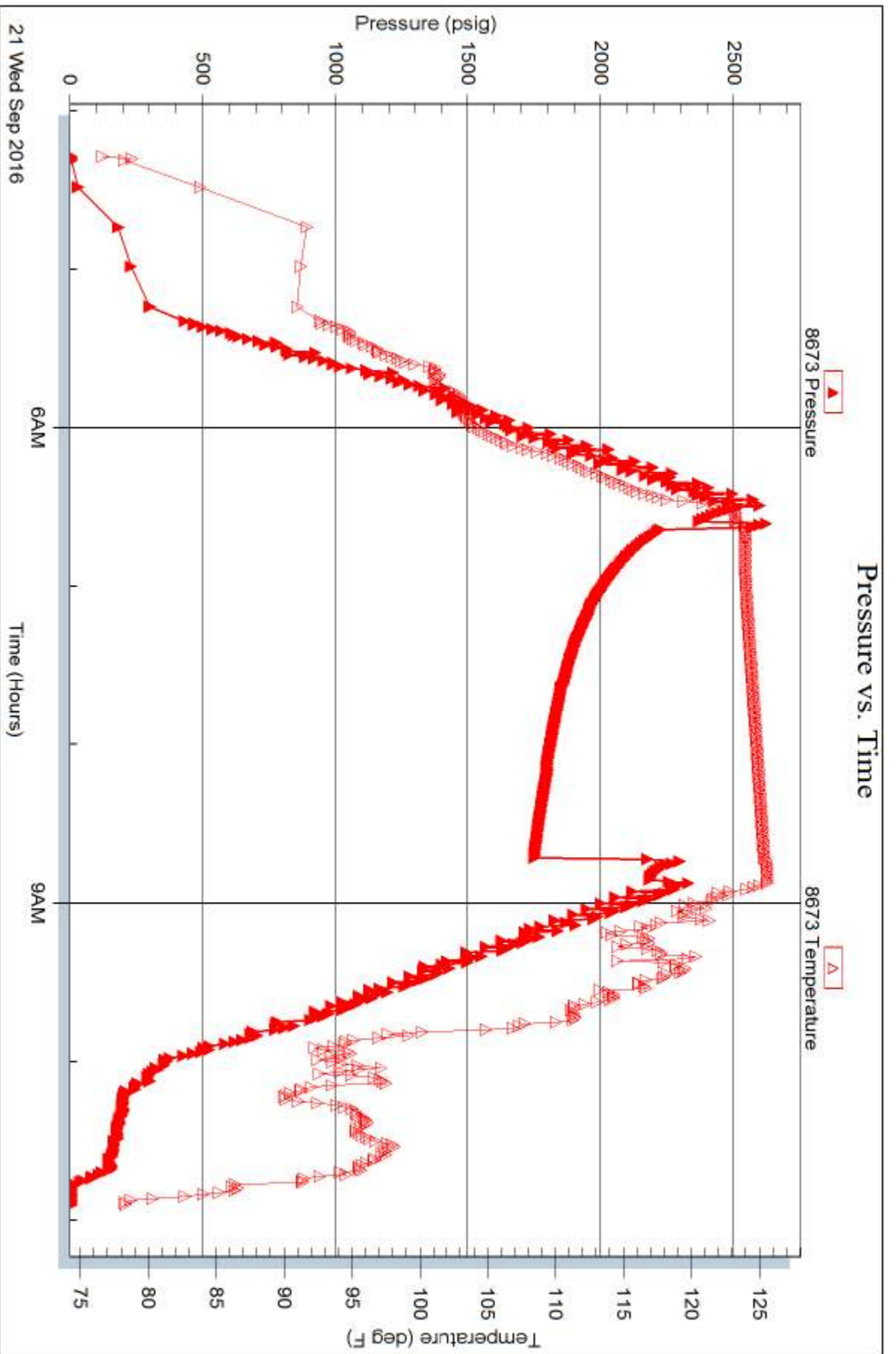
Laboratory Name:

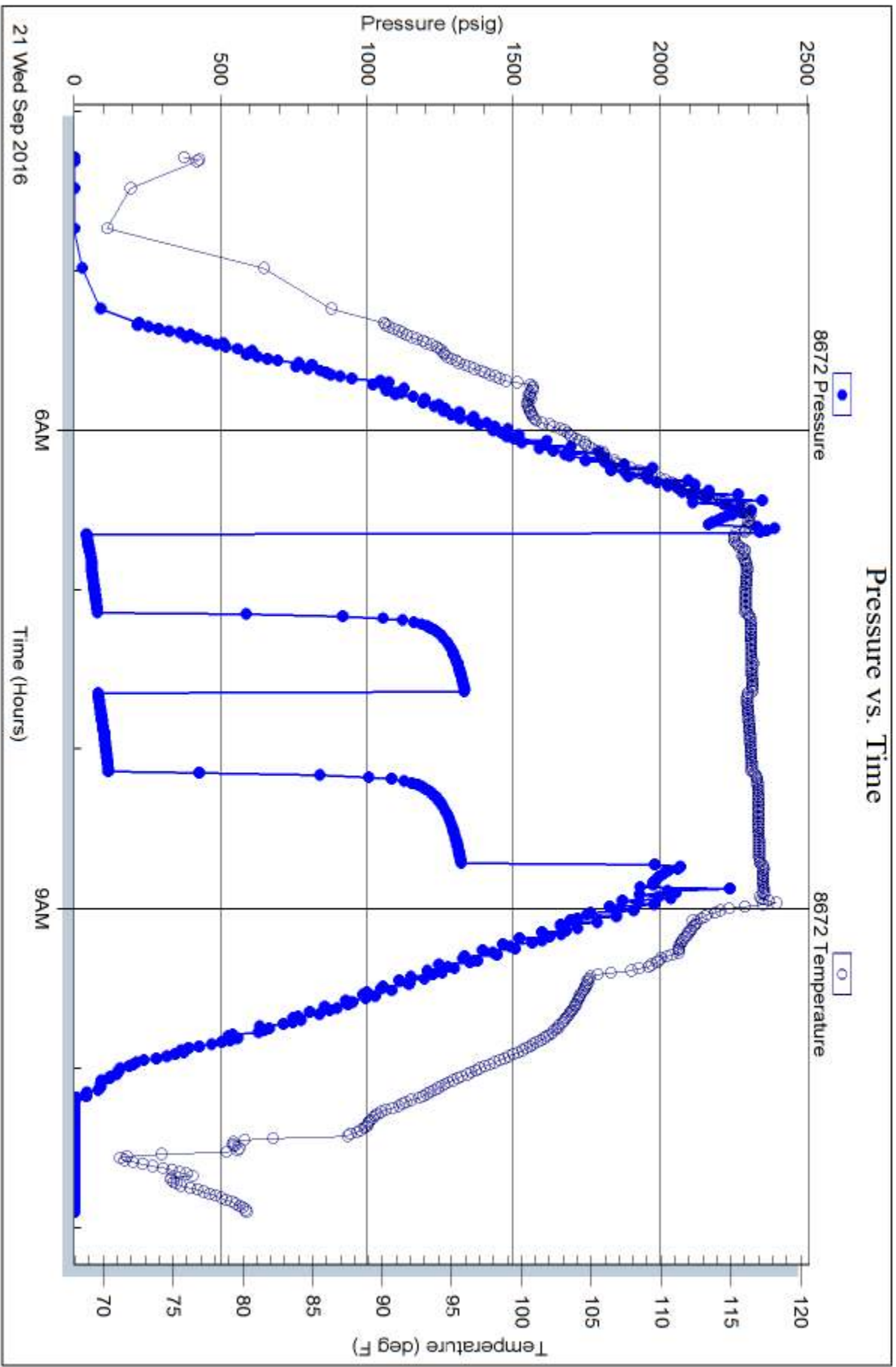
Laboratory Location:

Recovery Comments:

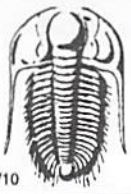








21 Wed Sep 2016



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65612**

Well Name & No. Kreigh #1-3 Test No. 1 Date 9-~~18~~-16<sup>19</sup>  
 Company American Warrior Inc Elevation 3065 KB 3057 GL  
 Address P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Disco 2  
 Location: Sec. 3 Twp. 14S Rge. 35W Co. Logan State KS

Interval Tested 4425-4515 Zone Tested Ft. Scott - Johnson  
 Anchor Length 90 Drill Pipe Run 4412 Mud Wt. 9.2  
 Top Packer Depth 4420 Drill Collars Run Ø Vis 52  
 Bottom Packer Depth 4425 Wt. Pipe Run Ø WL 10.4  
 Total Depth 4515 Chlorides 5000 ppm System LCM 1  
 Blow Description IF: Boilt to 1/8" Blow  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MVA with oil spots</u>				<u>100</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 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2290</u>	<input checked="" type="checkbox"/> Test <u>\$ 1150.00</u>	T-On Location <u>15:39</u>
(B) First Initial Flow <u>52</u>	<input checked="" type="checkbox"/> Jars <u>\$ 250.00</u>	T-Started <u>17:12</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$ 75.00</u>	T-Open <u>19:22</u>
(D) Initial Shut-In <u>284</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>21:22</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>22:57</u>
(F) Second Final Flow <u>55</u>	<input checked="" type="checkbox"/> Mileage <u>140 RT = 105.00</u>	Comments <u>—</u>
(G) Final Shut-In <u>118</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2205</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1580</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>\$1580.00/-</u>	

Approved By \_\_\_\_\_ Our Representative Mike Roberts  
 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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65613**

Well Name & No. Kreigh #1-3 Test No. 2 Date 9-21-16  
 Company American Warrior Inc Elevation 3065 KB 3057 GL  
 Address P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Disco 2  
 Location: Sec. 3 Twp. 14S Rge. 35W Co. Logan State KS

Interval Tested 4302-4352 Zone Tested Marmaton  
 Anchor Length 50 Drill Pipe Run 4289 Mud Wt. 9.2  
 Top Packer Depth 4297 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 4302 Wt. Pipe Run 0 WL 10.4  
 Total Depth 4352 Chlorides 5500 ppm System LCM 2  
 Blow Description IF: Built to 3" Blow  
IS: No Return Blow  
FF: Built to 2" Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>MVA</u>			<u>100</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 130 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2335</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>02:15</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>04:17</u>
(C) First Final Flow <u>77</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>06:38</u>
(D) Initial Shut-In <u>1331</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>08:38</u>
(E) Second Initial Flow <u>77</u>	<input type="checkbox"/> Hourly Standby <u>140 RT = \$105.00</u>	T-Out <u>10:54</u>
(F) Second Final Flow <u>113</u>	<input checked="" type="checkbox"/> Mileage <u>→</u>	Comments _____
(G) Final Shut-In <u>13A</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2079</u>	<input checked="" type="checkbox"/> Straddle <u>\$600.00/-</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>2430</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>\$2430.00/-</u>	

Approved By [Signature]

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.

# **Geological Report**

American Warrior, Inc.

## **Kreigh #1-3**

388' FNL & 2581' FEL

Sec 3, T14s, R35w

Logan County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Kreigh #1-3  
388' FNL & 2581' FEL  
Sec. 3, T14s, R35w  
Logan County, Kansas  
API # 15-109-21480-00-00

Drilling Contractor: Discovery Drilling Rig #2

Geologist: Luke Thompson

Spud Date: September 13, 2016

Completion Date: September 21, 2016

Elevation 3057' G.L.  
3065' K.B.

Directions: From the West side of Russell Springs, KS at the intersection of Hwy 25 & Broadway Ave. – Now go 0.8 mile South on Hwy 25 – Now go 1.7 miles South on Rd. 260, which is 0.1 mile North of the NE corner of section 3-14s-35w – Now go 0.5 mile West on Mustang to ingress stake South into –Now go 388' South through pasture, into staked location.

Casing: 228' 8 5/8" #28 Surface Casing

Samples: 3850' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"  
Full Sweep

Drillstem Tests: Two-Trilobite Testing "Mike Roberts"

Problems: tight hole on trips

# Formation Tops

Kreigh #1-3

Sec. 3, T14s, R35w

388' FNL & 2581' FEL

<b>Anhydrite</b>	<b>2458' +607</b>
<b>Base</b>	<b>2478' +587</b>
<b>Heebner</b>	<b>3872' -807</b>
<b>Lansing</b>	<b>3924' -859</b>
<b>Stark</b>	<b>4176' -1111</b>
<b>BKC</b>	<b>4253' -1188</b>
<b>Marmaton</b>	<b>4298' -1233</b>
<b>Pawnee</b>	<b>4392' -1327</b>
<b>Fort Scott</b>	<b>4452' -1387</b>
<b>Cherokee</b>	<b>4480' -1415</b>
<b>Johnson</b>	<b>4524' -1459</b>
<b>Morrow</b>	<b>4596' -1531</b>
<b>Miss</b>	<b>4681' -1616</b>
<b>RTD</b>	<b>4750' -1685</b>
<b>LTD</b>	<b>4751' -1686</b>



## Sample Zone Descriptions

**Fort Scott (4465', -1400): Covered in DST #1**

Limestone, tan, fine crystalline, scattered oolitic, tight, slightly chalky. Very few cuttings Ls, cream/tan, oolitic, slightly chalky, very poor oolitic porosity, very slight odor, very slow stream cut, poor show of free oil. Gas 30 units hotwire.

**Marmaton (4324' -1259): Covered in DST #2**

Limestone, cream/tan, sub-fine crystalline, scattered occasionally oolitic, slightly chalky, scattered poor oolitic porosity, no show free oil. DST from log data.

## Drill Stem Tests

Trilobite Testing

“Mike Roberts”

### DST #1

#### Fort Scott

Interval (4425' - 4515) Anchor Length 90'

IHP - 2291 #

IFP - 30" – WSB built to 1/8" 52-55 #

ISI - 30" – No return 284 #

FFP - 30" – no blow 55-56 #

FSIP - 30" – No return 118 #

FHP - 2205 #

BHT - 118° F

**Recovery:** 10' M w/Oil spots

### DST #2

#### Marmaton (straddle test)

Interval (4302' – 4352') Anchor Length 50'; Tail pipe 399'

IHP - 2336 #

IFP - 30" – Built to 3" blow 40-78#

ISI - 30" – No Return 1332 #

FFP - 30" – built to 2" blow 77-113 #

FSIP - 30" – No return 1320 #

FHP - 2080 #

BHT - 118 ° F

**Recovery:** 130' M

## Structural Comparison

	American Warrior, Inc. Kreigh #1-3 Sec. 3, T14s, R35w 388' FNL & 2581' FEL		Richie Exploration, Inc. Baker 33-B #1 Sec. 33, T13s, R35w 1100' FNL & 730' FWL		Black Tea Oil, LLC. Wood "A" #1 Sec. 16, T14s, R35w 1770' FNL & 2400' FWL
<b>Formation</b>					
<b>Heebner</b>	3872' -807	-17	3851' -790	-31	4026' -776
<b>Lansing</b>	3924' -859	-24	3896' -835	-30	4079' -829
<b>Stark</b>	4176' -1111	-23	4149' -1088	-29	4332' -1082
<b>BKC</b>	4253' -1188	-24	4225' -1164	-26	4412' -1162
<b>Marmaton</b>	4298' -1233	-20	4274' -1213	-27	4456' -1206
<b>Pawnee</b>	4392' -1327	-22	4366' -1305	-31	4546' -1296
<b>Fort Scott</b>	4452' -1387	-20	4428' -1367	-31	4606' -1356
<b>Cherokee</b>	4480' -1415	-22	4454' -1393	-29	4636' -1386
<b>Johnson</b>	4524' -1459	-18	4502' -1441	-27	4682' -1432
<b>Morrow</b>	4596' -1531	-18	4574' -1513	-25	4756' -1506
<b>Miss</b>	4681' -1616	-33	4644' -1583	-40	4826' -1576

### Summary

The location for the Kreigh #1-3 well was found via 3-D seismic survey. The new well ran structurally lower than expected. Two drill stem test were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to plug and abandon the Kreigh #1-3 well.

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.