



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220947  
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: \_\_\_\_\_

1220947

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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	Eulert 20-35
Doc ID	1220947

Tops

Name	Top	Datum
Anhy	883'	+941
B/Anhy	919'	+905
Topeka	2666'	--842
Heebner	2917'	-1093
Toronto	2938'	-1114
Lansing	2971'	-1147
B/KC	3243'	-1419
Arbuckle	3273'	-1449



# ALLIED OIL & GAS SERVICES, LLC 055375

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell KS

DATE <u>7-12-14</u>	SEC. <u>35</u>	TWP. <u>11</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Euler</u>	WELL # <u>2035</u>	LOCATION <u>Russell KS 7N 5 1/2 W 3N</u>			COUNTY <u>Russell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>Winto</u>				

CONTRACTOR Duke 8  
 TYPE OF JOB surface  
 HOLE SIZE 12 1/4 T.D. 883  
 CASING SIZE 8 5/8 24" DEPTH 884.80  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 15  
 CEMENT LEFT IN CSG. 15  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 54.97

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 400 con 39cc 28oz 1  
 COMMON 400 con @ 17.90 7160.00  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL 752" @ 1.05 789.60  
 CHLORIDE 1128" @ 1.10 1240.80  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
Material @ 9190.40  
Disc @ 2593.31  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 400 sks @ 2.48 992.00  
 MILEAGE 282 4/m @ 2.75 775.50  
 TOTAL 16957.90

EQUIPMENT  
 PUMP TRUCK CEMENTER Robert Y  
 # 409 HELPER Nathan D  
 BULK TRUCK  
 # 473 DRIVER Kevin R  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

See log  
cement did circulate to surface  
Thank you!!!

CHARGE TO: American Warrior, Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 884  
 PUMP TRUCK CHARGE 2058.50  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 15 LVM I @ 4.40 66.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
30 HVMT @ 7.20 231.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
Disc 1154.44 TOTAL 4123.00  
 TOTAL 2355.50

PLUG & FLOAT EQUIPMENT

(3) WF 8 5/8 cent. hrs @ 75.00 225.00  
IR top rubber plug @ 131.00 131.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
Disc 99.68 TOTAL 356.00

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

PRINTED NAME Steve H. Stephens  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 13669.40  
 DISCOUNT 3827.43 (28%) PAID IN 30 DAYS  
 net \$ 9841.97



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

TICKET 25516

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Hays, Ks</i> 2. <i>Ness City, Ks</i> 3. 4.	WELL/PROJECT NO. <i>20-35</i>	LEASE <i>Euler</i>	COUNTY/PARISH <i>Russell</i>	STATE <i>Ks</i>	CITY	DATE <i>7-17-14</i>	OWNER
	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Duke</i>	RIG NAME/NO. <i>#8</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Ness/Russell, Ks</i>	ORDER NO.	
	WELL TYPE <i>Oil</i>	WELL CATEGORY <i>pool ext.</i>	JOB PURPOSE <i>Cement Longstring</i>	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>		<i>1</i>			<i>MILEAGE #113</i>	<i>35</i>	<i>mi</i>			<i>600</i>	<i>21000</i>
<i>578</i>		<i>1</i>			<i>Pump Charge - curt - longstring</i>	<i>1</i>	<i>ea</i>	<i>3374</i>	<i>ft</i>	<i>150000</i>	<i>150000</i>
<i>821</i>		<i>1</i>			<i>Liquid KCL</i>	<i>2</i>	<i>gal</i>			<i>2500</i>	<i>5000</i>
<i>881</i>		<i>1</i>			<i>Weld flush</i>	<i>500</i>	<i>gal</i>			<i>125</i>	<i>62500</i>
<i>890</i>		<i>1</i>			<i>D-Air</i>	<i>4</i>	<i>gal</i>			<i>4200</i>	<i>16800</i>
<i>402</i>		<i>1</i>			<i>Centralizers</i>	<i>6000</i>		<i>5 1/2 in</i>		<i>7000</i>	<i>42000</i>
<i>403</i>		<i>1</i>			<i>Cement Basket</i>	<i>1</i>	<i>ea</i>	<i>5 1/2 in</i>		<i>30000</i>	<i>30000</i>
<i>406</i>		<i>1</i>			<i>Latch Down Plug &amp; Bottle</i>	<i>1</i>	<i>ea</i>	<i>5 1/2 in</i>		<i>27500</i>	<i>27500</i>
<i>407</i>		<i>1</i>			<i>Insert Float Shoe w/Fill-up</i>	<i>1</i>	<i>ea</i>	<i>5 1/2 in</i>		<i>37500</i>	<i>37500</i>

**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

*[Signature]*  
 DATE SIGNED *7-17-14* TIME SIGNED *2300*  A.M.  P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				<i>P.1</i>	<i>3923 00</i>
WE UNDERSTOOD AND MET YOUR NEEDS?				<i>P.2</i>	<i>5120 56</i>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<i>subtotal</i>	<i>9043 56</i>
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>Russell TAX 18.15%</i>	<i>516 91</i>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				<b>TOTAL</b>	<i>9560 47</i>
<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!



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

TICKET CONTINUATION

TICKET No. 25516

CUSTOMER *American Warrior, Inc.* WELL #20-35 Eulert DATE 7-17-14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M		
325		2				Standard Cement EA-2	175	SKs	116450	lbs	1450	2537.50
276		2				Flocele	44	lbs			250	110.00
283		2				Salt	875	lbs			20	175.00
284		2				Calseal	823	lbs	9	SKs	3500	315.00
292		2				Helocal-322	124	lbs			800	992.00
581		2				SERVICE CHARGE Cement					200	350.00
582	583	2				MILEAGE CHARGE	TOTAL WEIGHT 18316	lb	LOADED MILES 70	TON MILES 641.06	100	641.06
CONTINUATION TOTAL											5120.56	



**JOB LOG**

**SWIFT Services, Inc.**

DATE 7-17-14 PAGE NO. 1

CUSTOMER A.W.I. WELL NO. 20-35 LEASE Ewert JOB TYPE Cement Longstring TICKET NO. 25516

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	7/17 2300							TD 3386	On loc - Float Equip
	2330								Rig changing over to run casing Start 5 1/2" used casing to 3374' - 19 #/ft. Insert Float Shoe w/ Fillup L.D. Baffle - SJ - 19 1/2' = 3354 1/2' - (81.8) Cmt - 1-3-5-7-9-11 Cmt Basket #4 Drop fillup ball 5 Jts out
	7/18 0045								Fin run casing
	0050								Start cir
	0130								Fin cir
			7						Plug RH-30 sks out.
			<del>12</del>						Pump 500 gal Mud flush
			<del>20</del>						Pump 20 BBL KCL flush
									Start 145 sks EH-2 - cut
									Fin cut.
									Wash out Pump & Line
									Drop L.D. Plug
		8					500		Start Displ
		7					600		slow rate
		5 1/2					<del>600</del> 500		slow rate
							700		Last cir press
	0215						1400		Plug Down - Hold
							0		Release & Hold
									Job Complete
									Wash up & Rekeys
	0245								<i>[Signature]</i> Hon, Jon & Isaac





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. BOX 399  
Garden City, KS 67846

ATTN: Adam Folk

### **Eulert # 20-35**

#### **35-11s-15w Russell,KS**

Start Date: 2014.07.16 @ 18:50:00

End Date: 2014.07.17 @ 02:13:00

Job Ticket #: 60482                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.17 @ 13:33:19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 P.O. BOX 399  
 Garden City, KS 67846  
 ATTN: Adam Folk

**35-11s-15w Russell,KS**  
**Eulert # 20-35**  
 Job Ticket: 60482 **DST#: 1**  
 Test Start: 2014.07.16 @ 18:50:00

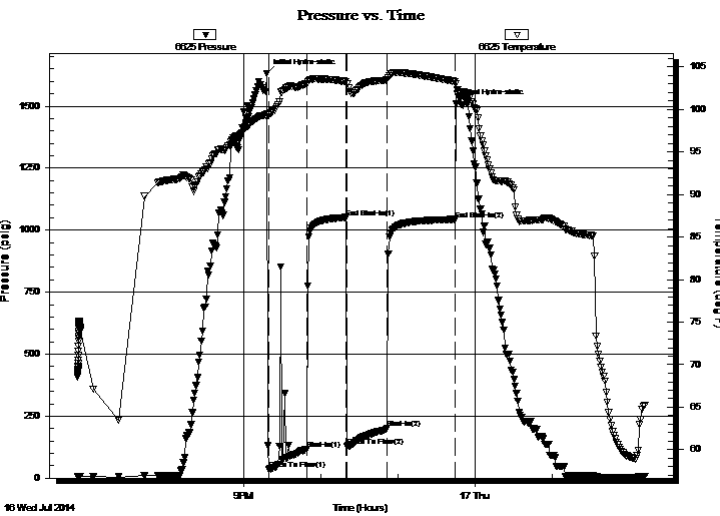
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:19:30  
 Time Test Ended: 02:13:00  
 Interval: **3218.00 ft (KB) To 3286.00 ft (KB) (TVD)**  
 Total Depth: 3286.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bob Hamel  
 Unit No: 58  
 Reference Elevations: 1848.00 ft (KB)  
 1841.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6625 Outside

Press@RunDepth: 200.48 psig @ 3282.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.16 End Date: 2014.07.17 Last Calib.: 2014.07.16  
 Start Time: 18:50:01 End Time: 02:13:00 Time On Btm: 2014.07.16 @ 21:17:30  
 Time Off Btm: 2014.07.16 @ 23:45:30

TEST COMMENT: I.F. - 30 - BOB in 12 min  
 I.S.I. - 30 - No blow back  
 F.F. - 30 - BOB in 15 min  
 F.S.I. - 45 - No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.62	99.50	Initial Hydro-static
2	36.35	99.40	Open To Flow (1)
31	115.80	102.98	Shut-In(1)
62	1051.52	103.23	End Shut-In(1)
63	129.18	103.01	Open To Flow (2)
94	200.48	103.49	Shut-In(2)
147	1043.39	103.25	End Shut-In(2)
148	1510.60	103.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	S,O,C,M, 10%O 90%M	0.88
509.00	C/O 100%	7.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**35-11s-15w Russell, KS**

P.O. BOX 399  
Garden City, KS 67846

**Eulert # 20-35**

Job Ticket: 60482

**DST#: 1**

ATTN: Adam Folk

Test Start: 2014.07.16 @ 18:50:00

## Tool Information

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.80 inches	Volume: 45.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 45.20 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3218.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 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			3199.00	
Shut In Tool	5.00			3204.00	
Hydraulic tool	5.00			3209.00	
Packer	4.00			3213.00	20.00 Bottom Of Top Packer
Packer	5.00			3218.00	
Stubb	1.00			3219.00	
Perforations	1.00			3220.00	
Change Over Sub	1.00			3221.00	
Drill Pipe	60.00			3281.00	
Change Over Sub	1.00			3282.00	
Recorder	0.00	6625	Outside	3282.00	
Recorder	0.00	8319	Inside	3282.00	
Bullnose	4.00			3286.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**35-11s-15w Russell,KS**

P.O. BOX 399  
Garden City, KS 67846

**Eulert # 20-35**

Job Ticket: 60482

**DST#: 1**

ATTN: Adam Folk

Test Start: 2014.07.16 @ 18:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	S,O,C,M, 10%O 90%M	0.884
509.00	C/O 100%	7.140

Total Length: 572.00 ft

Total Volume: 8.024 bbl

Num Fluid Samples: 0

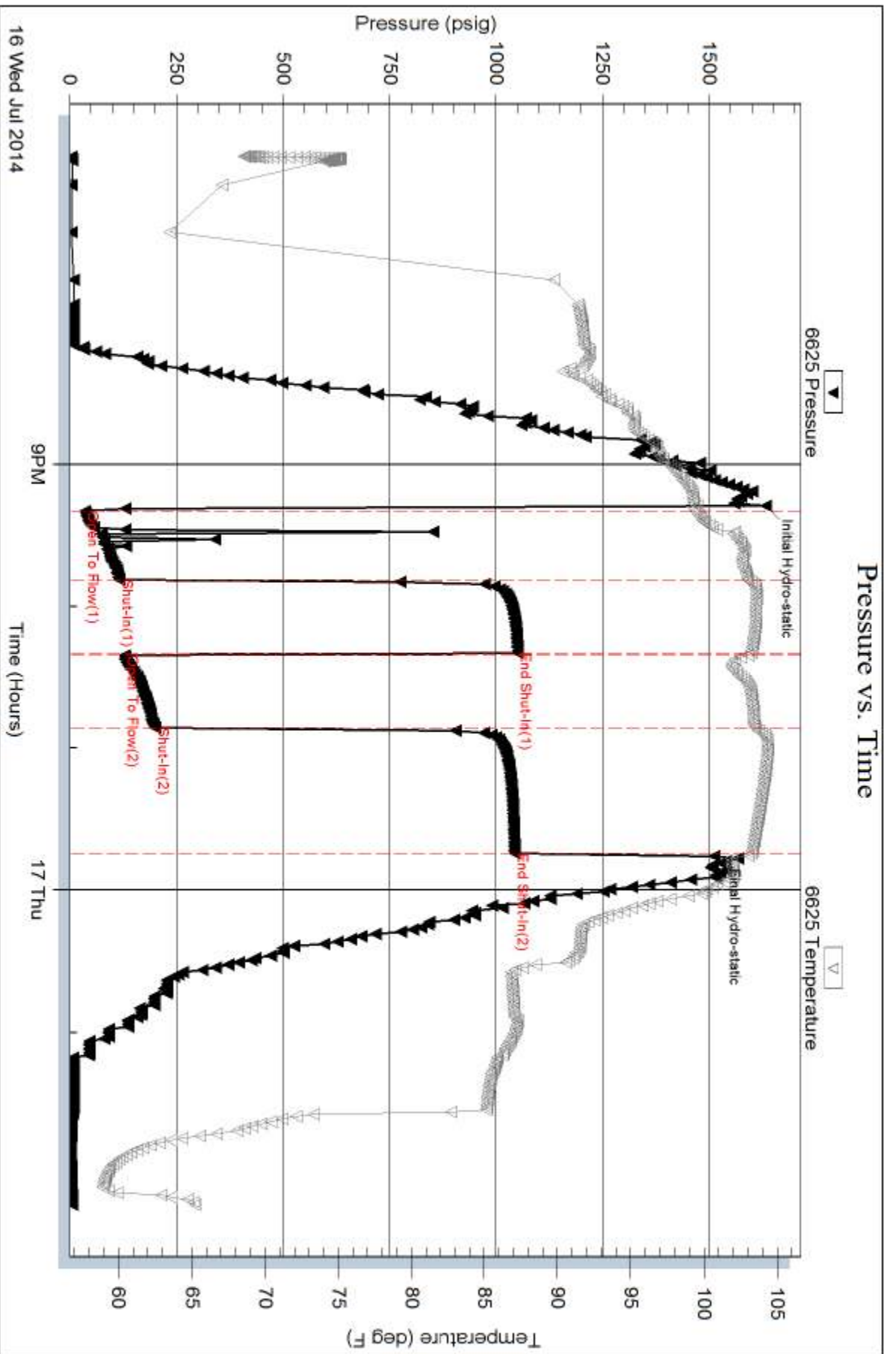
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60482

Well Name & No. Eulert #20 Test No. 1 Date 7-16-14  
 Company American Warr. Co. Elevation 1848 KB 1841 GL  
 Address 3118 Cummings RD / P.O. Box 399 Garden City KS. 67846  
 Co. Rep / Geo. Adam Folk Rig Duke 108  
 Location: Sec. 35 Twp. 11-S Rge. 15-W Co. Russell State KS

Interval Tested 3218-3286 Zone Tested ARB.  
 Anchor Length 68 Drill Pipe Run 3222 Mud Wt. 9.1  
 Top Packer Depth 3213 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3218 Wt. Pipe Run — WL 7.2  
 Total Depth 3286 Chlorides 2700 ppm System LCM Trace

Blow Description I.F.-30 - 1/2" INT Blow Built to (B.O.B. in 12 min)  
I.S.I.-30 - NO B.B.  
FF-30 - 1/2" INT Blow Built to (B.O.B. in 15 min)  
F.S.I.-45 - NO B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>509</u>	Feet of <u>clean oil</u>	%gas	<u>100</u> %oil	%water	%mud
Rec <u>63</u>	Feet of <u>S.O.C.M</u>	%gas	<u>10</u> %oil	%water	<u>90</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 572' BHT 102 Gravity 29.8 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1633  Test 1150 T-On Location 18:20:00  
 (B) First Initial Flow 36  Jars \_\_\_\_\_ T-Started 18:50:00  
 (C) First Final Flow 116  Safety Joint \_\_\_\_\_ T-Open 21:31:00  
 (D) Initial Shut-In 1052  Circ Sub \_\_\_\_\_ T-Pulled 23:46:00  
 (E) Second Initial Flow 129  Hourly Standby \_\_\_\_\_ T-Out 02:13:00  
 (F) Second Final Flow 200  Mileage 66/R.T. 102.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 1043  Sampler \_\_\_\_\_ (Thank-you)  
 (H) Final Hydrostatic 1511  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1252.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1252.30

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.

**JAMES C. MUSGROVE**

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212 Main Street  
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Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.  
Eulert #20-35  
NW-NE-NW-SW (2470' FSL & 720' FWL)  
Section 35-11s-15w  
Russell County, Kansas

Page 1

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

**Contractor:** Duke Drilling Co. (rig #8)  
**Commenced:** July 10, 2014  
**Completed:** July 17, 2014  
**Elevation:** 1824' K.B., 1822' D.F., 1816' G.L.  
**Casing program:** Surface; 8 5/8" @ 883'  
Production, 5 1/2" @ 3386'  
**Sample:** Samples saved and examined 2600' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2600 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were one (1) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Pioneer Energy Services; Dual Induction, Dual Compensated Density/Neutron, and Micro.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	883	+941
Base Anhydrite	919	-905
Topeka	2666	-842
Heebner	2917	-1093
Toronto	2938	-1114
Lansing	2971	-1147
Base Kansas City	3243	-1419
Arbuckle	3273	-1449
Rotary Total Depth	3386	-1562
Log Total Depth	3387	-1563

(All tops and zones corrected to Electric Log Measurement)

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

**TOPEKA SECITON**

- 2701-2708' Limestone, gray, white, finely crystalline, fossiliferous, chalky, questionable stain, no show of free oil and no odor in fresh samples.
- 2847-2867' Limestone, tan, brown, finely crystalline, fossiliferous, granular in part, chalky in part, trace brown stain, no show of free oil and no odor in fresh samples.
- 2880-2900' Limestone, tan, finely crystalline, few medium crystalline, scattered inter-crystalline porosity, dark brown and black stain, trace of free oil and faint odor in fresh samples.

**TORONTO SECTION**

- 2938-2950' Limestone, white/tan, finely crystalline, fossiliferous, slightly chalky, poor visible porosity, poor stain, show of free oil and no odor in fresh samples.

**LANSING SECTION**

- 2971-2980' Limestone, tan, gray/cream, fossiliferous, poor visible porosity; light brown stain, trace of free oil and faint odor in fresh samples.
- 2998-3006' Limestone, tan, finely crystalline, sub-oomoldic, oolitic, scattered sub-oomoldic, trace of brown stain, weak show of oil and faint odor in fresh samples.
- 3010-3020' Limestone, as above, increase in stain, show of free oil and odor in samples
- 3038-3050' Limestone, white/gray, oolitic/fossiliferous, poor visible porosity, brown and black stain, trace of free oil and no odor in fresh samples.
- 3058-3064' Limestone, as above, chalky poor to fair porosity, brown and dark brown stain, show of free oil and faint odor in fresh samples.
- 3070-3080' Limestone, cream, shite, oolitic, oomoldic, fair oomoldic porosity, poor spotty stain, trace of free oil and questionable odor in fresh sample.
- 3110-3120' Limestone, tan, fossiliferous, chalky, poorly developed porosity; questionable stain, now show of free oil and no odor in fresh samples.
- 3130-3140' Limestone, cream, tan, finely crystalline, fossiliferous, poor to fair porosity; dark brown spotty stain, trace of free oil and no odor in fresh samples.

- 3158-3166 Limestone, tan, oolitic, chalky, poorly developed porosity, gray and brown stain and saturation, show of free oil and questionable odor in fresh samples.
- 3186-3200' Limestone, gray, cream finely crystalline, oolitic, poor visible porosity, trace brown stain, no show of free oil and questionable odor in fresh samples.
- 3112-3120' Limestone, white, finely crystalline, few fossiliferous, chalky, poor visible porosity, questionable stain, no show of free oil and no odor in fresh samples.

**ARBUCKLE SECTION**

- 3273-3280' Dolomite, cream, white, finely crystalline, sucrosic in part, scattered porosity, brown stain, and saturation, trace of free oil and faint odor.
- 3280-3286' Dolomite, tan, finely crystalline, sucrosic, few medium crystalline, fair to good inter-crystalline and pinpoint type porosity, brown stain and saturation, show of free oil and fair odor in fresh samples.

**Drill Stem Test #1 3218-3286**

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

**Blow: Strong**

**Recovery: 509' clean oil  
 63' slightly oil cut mud  
 (10% oil; 90% mud)**

**Pressures: ISIP 1052 psi  
 FSIP 1043 psi  
 IFP 36-116 psi  
 FFP 127-200 psi  
 HSH 1633-1511 psi**

- 3286-3310' Dolomite, tan, medium crystalline, sucrosic in part; fair to good inter-crystalline porosity, fair stain and saturation, show of free oil and good odor in fresh samples.
- 3310-3330' Dolomite, white, cream, medium crystalline, sucrosic, fair inter-crystalline; dark brown stain, show of free oil and faint/fair odor in fresh samples, plus white chert.
- 3330-3350' Dolomite, as above.
- 3350-3370' Dolomite, as above, increasingly sandy, poor to fair porosity, trace poor stain, no show of free oil and no odor in fresh samples.
- 3370-3386' Dolomite, as above, plus white chert and white chalk, no shows.

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Page 4

**Rotary Total Depth: 3386**  
**Log Total Depth: 3387**

**Recommendations:**

5 ½ production casing was set and cemented on the American Warrior Inc., Eulert #20-35.

Respectfully Submitted,

James C. Musgrove and Adam Folk  
Petroleum Geologist