



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1172347
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: _____



1172347

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
--	---

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Kramer 3-31
Doc ID	1172347

Tops

Name	Top	Datum
Anhy	1944'	891
B/Anhy	2007'	828
Heebner	4125'	-1290
Lansing	4216'	-1381
B/KC	4635'	-1800
Ft.Scott	4747'	-1912
cherokee	4760'	-1925
Morrow	4883'	-2048
St.Louis	4897'	-2062

Geological Report

American Warrior, Inc.

Kramer #3-31

1982' FSL & 2199' FEL

Sec. 31, T24s, R29w

Gray County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Kramer #3-31
1982' FSL & 2199' FEL
Sec. 31, T24s, R29w
Gray County, Kansas
API # 15-069-20444-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: September 30, 2013

Completion Date: October 10, 2013

Elevation 2824' G.L.
2835' K.B.

Directions: From Kalvesta, KS. Go 14.5 miles West on Hwy 96 to Haflich Rd. Go 9.5 miles South, East ½ mile on dirt road and South into location.

Casing: 440' 8 5/8" #24 Surface Casing
4966' 5 ½" #15.5 Production Casing
1907' Port Collar

Samples: 4050' to RTD 10' Wet & Dry

Drilling Time: 4050' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"
Stacked-Micro

Drillstem Tests: Two, Trilobite Testing, Inc. "Ray Schwager"

Problems: None

Formation Tops

Kramer #3-31

Sec. 31, T24s, R29w

1982' FSL & 2199' FEL

Anhydrite	1944' +891
Base	2007' +828
Heebner	4125' -1290
Toronto	4139' -1304
Lansing	4216' -1381
Stark	4497' -1662
Bkc	4635' -1800
Marmaton	4641' -1806
Pawnee	4722' -1887
Fort Scott	4747' -1912
Cherokee	4760' -1925
Morrow	4883' -2048
St. Louis	4897' -2062
RTD	5000' -2165
LTD	5003' -2168

Sample Zone Descriptions

Fort Scott

(4747', -1912): Covered in DST #1

Ls – Sub-crystalline with fair vuggy and fair oomoldic porosity. Very slight stain. No saturation in porosity. No show of free oil. 25 Units Hotwire.

Morrow Sand

(4883', -2048): Covered in DST #2

Ss – Fine to medium grain. Fair to well sorted sub-angular to well rounded grains. Good stain. Good saturation. Show of free oil. Strong odor. 250 Units Hotwire.

Drill Stem Tests
Trilobite Testing Inc.
"Ray Schwager"

DST #1

Fort Scott Limestone

Interval (4715' – 4750') Anchor Length 35'

IHP	- 2384 #	
IFP	- 30" – WSB throughout	19-43 #
ISI	- 30" – No Return	1236 #
FFP	- 10" – No blow	47-55 #
FSIP	- Pull Tool	NA
FHP	- 2349 #	
BHT	- 119 ° F	

Recovery: 65' MW

DST #2

Morrow Sandstone

Interval (4840' – 4902') Anchor Length 62'

IHP	- 2413 #	
IFP	- 30" – WSB died in 20 min	25-25#
ISI	- 30" – No Return	61 #
FFP	- 10" – No blow flushed tool	23-35#
FSIP	- Pull Tool	NA
FHP	- 117 ° F	
BHT	- 2392#	

Recovery: 10' SOCM (1% Oil)

Structural Comparison

	American Warrior, Inc. Kramer #3-31 Sec. 31, T29s, R24w 1982' FSL & 2199' FEL		American Warrior, Inc. Kramer #1-31 Sec. 31, T24s, R29w 2306' FNL & 619' FEL		American Warrior, Inc. IKM #1-32 Sec 32, T24s, R29w 2336' FSL & 126' FWL
Formation					
Heebner	4125' -1290	+2	4121' -1292	-2	4114' -1288
Toronto	4139' -1304	FL	4133' -1304	-2	4128' -1302
Lansing	4216' -1381	-5	4205' -1376	-6	4201' -1375
Stark	4497' -1662	-1	4490' -1661	-1	4487' -1661
BKC	4635' -1800	-1	4628' -1799	-4	4622' -1796
Marmaton	4641' -1806	-2	4633' -1804	-5	4627' -1801
Pawnee	4722' -1887	+4	4720' -1891	+1	4714' -1888
Fort Scott	4747' -1912	+1	4742' -1913	-2	4736' -1910
Cherokee	4760' -1925	+1	4755' -1926	-2	4750' -1924
Morrow	4883' -2048	+1	4878' -2049	-3	4872' -2046
St. Louis	4897' -2062	+2	4893' -2064	FL	4888' -2062

Summary

The location for the Kramer #2-31 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, which were both negative. However, the decision was made to run 5 ½" production casing in an attempt to frac the Morrow Sandstone formation.

Recommended Perforations

Primary:	Morrow:	(4886' – 4890')
Before Abandonment:	Fort Scott:	(4753' – 4755')
	Cherokee:	(4765' – 4767')

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.



CEMENTING LOG

STAGE NO. _____

Date 9-30-13 District Great Bend Ticket No. 61908
 Company American Warrior Rig Duke 5
 Lease Kramer Well No. 3-31
 County Gray State KS
 Location Haplick 95 1E Sims Field 31 24 29

CEMENT DATA:
 Spacer Type: Fresh Water
 Amt. 5750 Skys Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type New Weight 21# Collar 82d

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time Thickentime hrs. Type Class A 3acc
240gel Excess _____

Amt. 250 Skys Yield 1.34 ft³/sk Density 15.2 PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top _____ Bottom 440

Pump Trucks Used 398 - Ben Newel

Bulk Equip. 544 Dan Casper

Drill Pipe: Size _____ Weight _____ Collars _____

Float Equip: Manufacturer _____

Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

Shoe: Type _____ Depth _____

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 10637 Lin. ft./Bbl. 15.70

Float: Type _____ Depth _____

Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Stage Collars _____

Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Special Equip. _____

Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Disp. Fluid Type Fresh Water Amt. _____ Bbls. Weight _____ PPG

Perforations: From _____ ft. to _____ ft. Amt. _____

Mud Type Water Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Josh Wack

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						On location - rig up had safety meeting
						Run 8 5/8 casing
						Break circulation with dog mud
						Pressure test 500 psi
				5		pump 5 bbls ahead
				59.64		mix 250 skys Class A 340cc 240gel
				27.07		Displace 27.07 bbls fresh water
						shut in
						cement did circulate
						log down 12AM

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. T



CHARGE TO: *American Warrior*

ADDRESS

CITY, STATE, ZIP CODE

TICKET
N° 24745

PAGE 1 OF 2

SERVICE LOCATIONS: 1. *Ness City KS*

WELL/PROJECT NO. *3-31* LEASE *Kramer* COUNTY/PARISH *Gray* STATE *KS* CITY *Garden City* DATE *10 Oct 13* OWNER

TICKET TYPE SERVICE SALES CONTRACTOR *DUCB* RIG NAME/NO. *5* SHIPPED VIA *CT* DELIVERED TO *location* ORDER NO.

WELL TYPE *oil* WELL CATEGORY *Development* JOB PURPOSE *cement long string* WELL PERMIT NO. WELL LOCATION *31-24-29*

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 TRK 114</i>	<i>80</i>	<i>mi</i>			<i>6.00</i>	<i>480.00</i>
<i>578</i>		<i>1</i>			<i>Pump Charge</i>	<i>1</i>	<i>ea</i>			<i>1500.00</i>	<i>1500.00</i>
<i>402</i>		<i>1</i>			<i>Centralizer</i>	<i>5 1/2</i>	<i>in</i>	<i>9</i>	<i>ea</i>	<i>70.00</i>	<i>630.00</i>
<i>403</i>		<i>1</i>			<i>Cement Basket</i>	<i>5 1/2</i>	<i>in</i>	<i>2</i>	<i>ea</i>	<i>285.00</i>	<i>570.00</i>
<i>404</i>		<i>1</i>			<i>Port Collar</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>2650</i>	<i>2650.00</i>
<i>406</i>		<i>1</i>			<i>Latch down plug & baffle</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>275.00</i>	<i>275.00</i>
<i>407</i>		<i>1</i>			<i>Insert float shoe w/ auto fill</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>375</i>	<i>375.00</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

DATE SIGNED TIME SIGNED *11:15* 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?				<i>1</i>	<i>6480.00</i>
WE UNDERSTOOD AND MET YOUR NEEDS?				<i>2</i>	<i>5820.75</i>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<i>subtotal 12300.75</i>	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>Gray TAX 7.3%</i>	<i>674.36</i>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	<i>12,975.11</i>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					



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

TICKET CONTINUATION

TICKET No. 24745

CUSTOMER *American Warrior* WELL *Kramer 3-31* DATE *10 Oct 13* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
325		1				STANDARD cement (for et-2)	175	sk			14.00	2450.00
284		1				Calseal	800	lb	8	sk	35.00	2800.00
283		1				salt	900	lb			0.20	180.00
292		1				halad-322	125	lb			7.75	968.75
276		1				Flocote	50	lb			2.00	100.00
281		1				mix flush	500	gal			1.25	625.00
221		1				KCH liquid	2	gal			25.00	50.00
290		1				D-air	2	gal			42.00	84.00
581						SERVICE CHARGE	175				2.00	350.00
583						MILEAGE CHARGE	18325	TOTAL WEIGHT	80	LOADED MILES	1.00	733.00
								TON MILES	133			

CONTINUATION TOTAL 5820.75

JOB LOG

SWIFT Services, Inc.

DATE 10 OCT 13 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 3-31 LEASE Kramer JOB TYPE cement long string TICKET NO. 24745

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175sk EA-2 cement w/ 1/2" Floccula RTD 500 LTD 5003 set 4966' 118 jts 5 1/2" x 15.5# 4952' Port Collar - #73 - 1909' shoejt 20.23' Cont 1, 3, 5, 7, 9, 11, 13, 72, 74 Basket 4, 73
	0300							on loc TRK 114
	0310							start 5 1/2" x 15.5# casing
	0530							Drop ball - circulate
	0545	4 3/4	12				200	Pump 500gal mud flush
		4 3/4	20				200	Pump 20 bbl KCL flush
	0575		11					Plug RH-MH 30sk - 20sk
	0607	4 3/4	31				200	mix EA-2 cement 125sk @ 15.3ppg
								Drop latch down plug wash out pump & line
	0625	6 1/2					200	Displace plug
		6 1/2	110				850	
	0645	6 1/2	118				1500	hand plug
								Release pressure to truck - drill up
	0655							wash truck Back up
	0720							Job complete Flute Blaine Flint 1/2 size



CHARGE TO: **AMERICAN WARRIOR**

ADDRESS

CITY, STATE, ZIP CODE

TICKET 25721

PAGE 1 OF

SERVICE LOCATION: 1. **NESS CITY, KS** WELL/PROJECT NO. LEASE **CRAMER 3-35** COUNTY/PARISH **GRAY** STATE **KS.** CITY **GARDEN CITY, KS** DATE **17 OCT 13** OWNER

2. TICKET TYPE SERVICE SALES CONTRACTOR **H D OILFIELD SERV.** RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.

3. WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT PORT COLLAR** WELL PERMIT NO. WELL LOCATION **19E, 10S, 1/2E, S100**

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #115	80		MIL		6.00	480.00
576D					Pump CHARGE					1500.00	1500.00
105					PORT COLLAR OPENING TOOL					350.00	350.00
276					FLOCELE	35		lbs		2.00	70.00
290					D-AIR	1		gal		42.00	42.00
330					SMD CEMENT	125		SK		17.00	2125.00
581					CEMENT SERVICE CHARGE	225		SK		2.00	450.00
583					DRAPAGE.	22330		lbs	893.20 Tm	1.00	893.20

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X
DATE SIGNED **17 OCT 13** TIME SIGNED **1400** 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?				5910.20
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Gray TAX 7.37%
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				188.85
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL
				6099.05

JOB LOG

SWIFT Services, Inc.

DATE 7 OCT 13 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE CRAMER 3-35 JOB TYPE CEMENT PORT COLLAR TICKET NO. 25721

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							ON LOCATION
								PORT COLLAR @ 1907
	1235				✓		1000	TEST - HELD
	1237							OPEN PORT COLLAR
	1240	4	70	✓		600		MIX 125'S x 5M D
		3	6 1/2	✓		400		DISPLACE CEMENT
								CIRCULATE 2DSX TO PIT
	1300							CLOSE PORT COLLAR - TEST - HELD
	1306							RUN 4 STS.
	1310	4	18	✓		300		REVERSE CLEAN.
	1320							WASH TRUCK
	1400							JOB COMPLETE
								THANKS #115
								JASON & DAVE DUSTY



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Cecil O'Brate, Kevin

Kramer #3-31

31-24s-29w Gray,KS

Start Date: 2013.10.07 @ 03:50:25

End Date: 2013.10.07 @ 10:16:12

Job Ticket #: 54823 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.09 @ 14:06:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Cecil O'Brate, Kevin

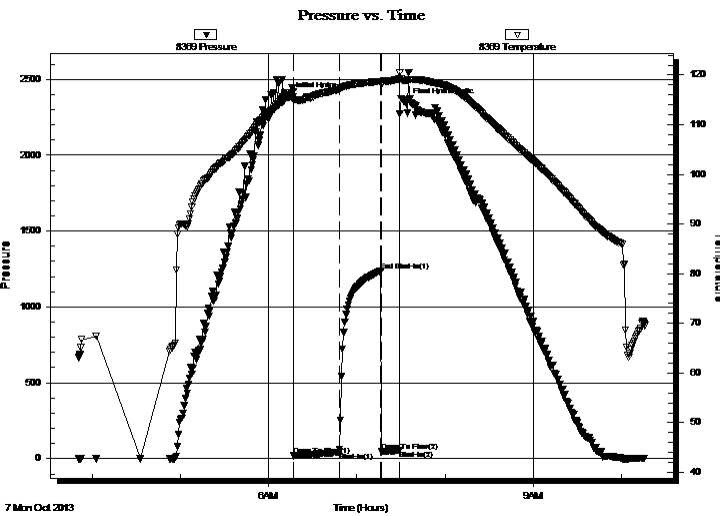
31-24s-29w Gray, KS
Kramer #3-31
 Job Ticket: 54823 **DST#: 1**
 Test Start: 2013.10.07 @ 03:50:25

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:16:50 Tester: Ray Schwager
 Time Test Ended: 10:16:12 Unit No: 70
 Interval: **4715.00 ft (KB) To 4750.00 ft (KB) (TVD)** Reference Elevations: 2835.00 ft (KB)
 Total Depth: 4750.00 ft (KB) (TVD) 2824.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8369 Inside
 Press @ Run Depth: 43.46 psig @ 4720.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.07 End Date: 2013.10.07 Last Calib.: 2013.10.07
 Start Time: 03:50:25 End Time: 10:16:12 Time On Btm: 2013.10.07 @ 06:14:20
 Time Off Btm: 2013.10.07 @ 07:33:35

TEST COMMENT: 30-IFP-w k surface bl thru-out
 30-ISIP-no bl
 10-FFP-no bl , pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2384.61	115.50	Initial Hydro-static
3	19.77	114.98	Open To Flow (1)
34	43.46	117.13	Shut-In(1)
62	1236.25	118.72	End Shut-In(1)
63	47.35	118.03	Open To Flow (2)
75	55.34	119.20	Shut-In(2)
80	2349.42	118.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 30%M70%W	0.32

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Cecil O'Brate, Kevin

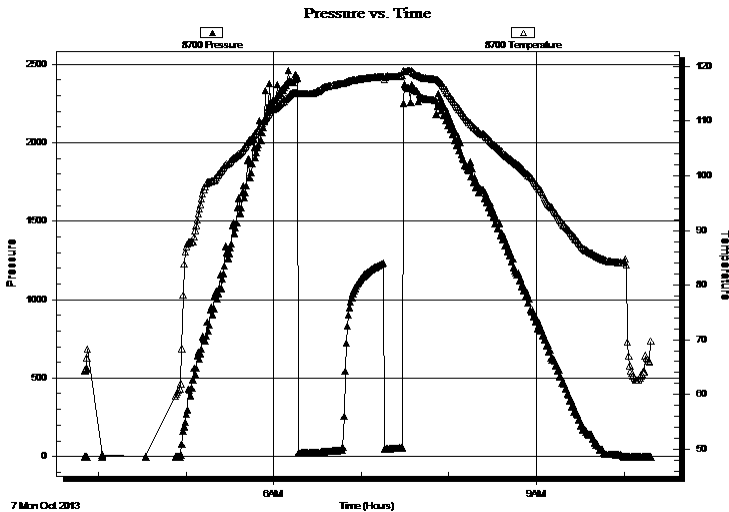
31-24s-29w Gray,KS
Kramer #3-31
 Job Ticket: 54823 **DST#: 1**
 Test Start: 2013.10.07 @ 03:50:25

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:16:50 Tester: Ray Schwager
 Time Test Ended: 10:16:12 Unit No: 70
 Interval: **4715.00 ft (KB) To 4750.00 ft (KB) (TVD)** Reference Elevations: 2835.00 ft (KB)
 Total Depth: 4750.00 ft (KB) (TVD) 2824.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8700 Outside
 Press@RunDepth: psig @ 4720.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.07 End Date: 2013.10.07 Last Calib.: 2013.10.07
 Start Time: 03:50:31 End Time: 10:18:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k surface bl thru-out
 30-ISIP-no bl
 10-FFP-no bl , pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 30%M70%W	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

31-24s-29w Gray,KS

PO Box 399
Garden City KS 67846

Kramer #3-31

Job Ticket: 54823

DST#: 1

ATTN: Cecil O'Brate, Kevin

Test Start: 2013.10.07 @ 03:50:25

Tool Information

Drill Pipe:	Length: 4397.00 ft	Diameter: 3.80 inches	Volume: 61.68 bbl	Tool Weight: 2200.00 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: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4715.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4688.00	
Shut In Tool	5.00			4693.00	
Hydraulic tool	5.00			4698.00	
Jars	5.00			4703.00	
Safety Joint	2.00			4705.00	
Packer	5.00			4710.00	28.00 Bottom Of Top Packer
Packer	5.00			4715.00	
Stubb	1.00			4716.00	
Perforations	4.00			4720.00	
Recorder	0.00	8369	Inside	4720.00	
Recorder	0.00	8700	Outside	4720.00	
Perforations	27.00			4747.00	
Bullnose	3.00			4750.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

31-24s-29w Gray,KS

PO Box 399
Garden City KS 67846

Kramer #3-31

Job Ticket: 54823

DST#: 1

ATTN: Cecil O'Brate, Kevin

Test Start: 2013.10.07 @ 03:50:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	MW 30%M70%W	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbf

Num Fluid Samples: 0

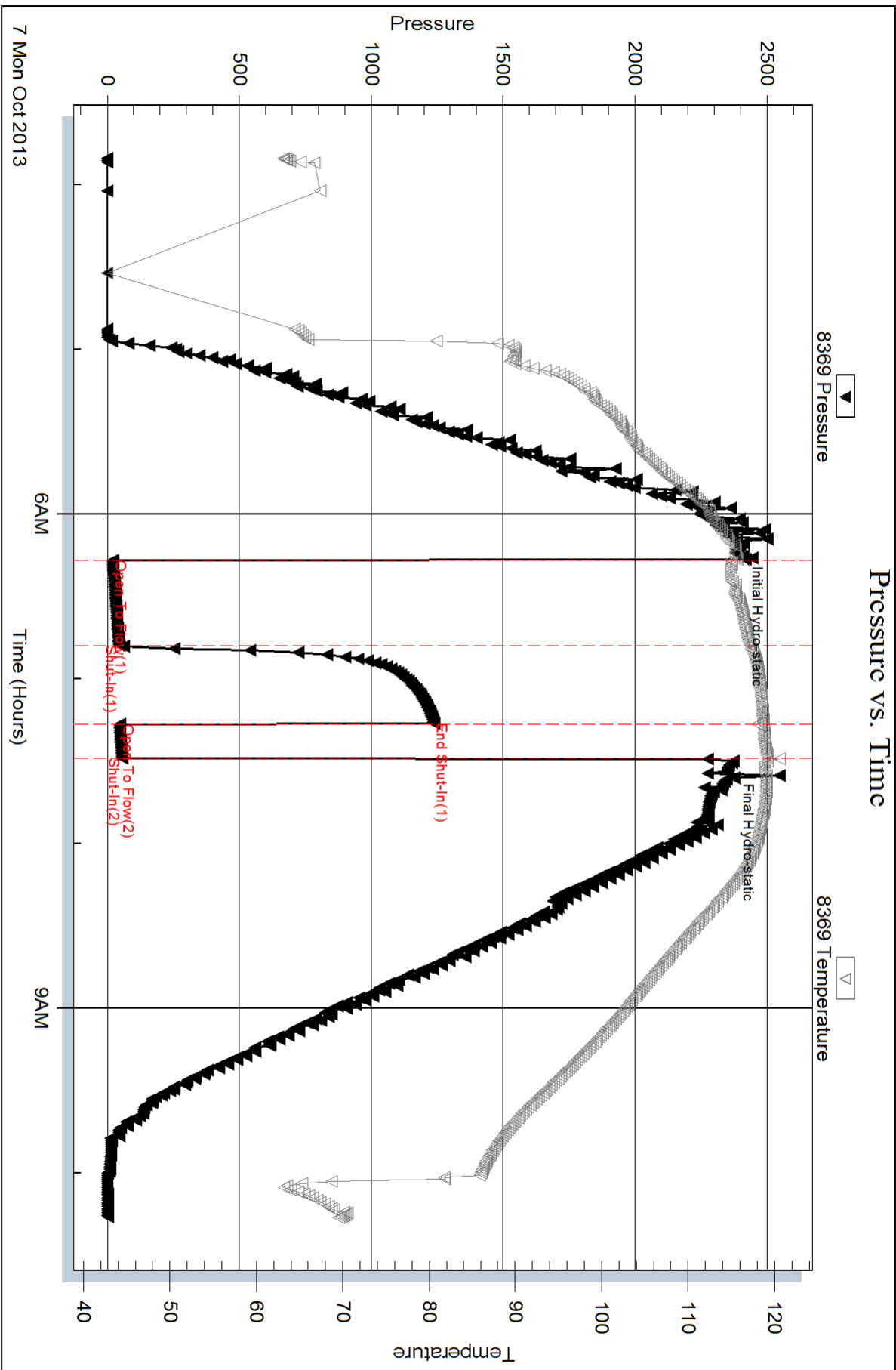
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .2@60F

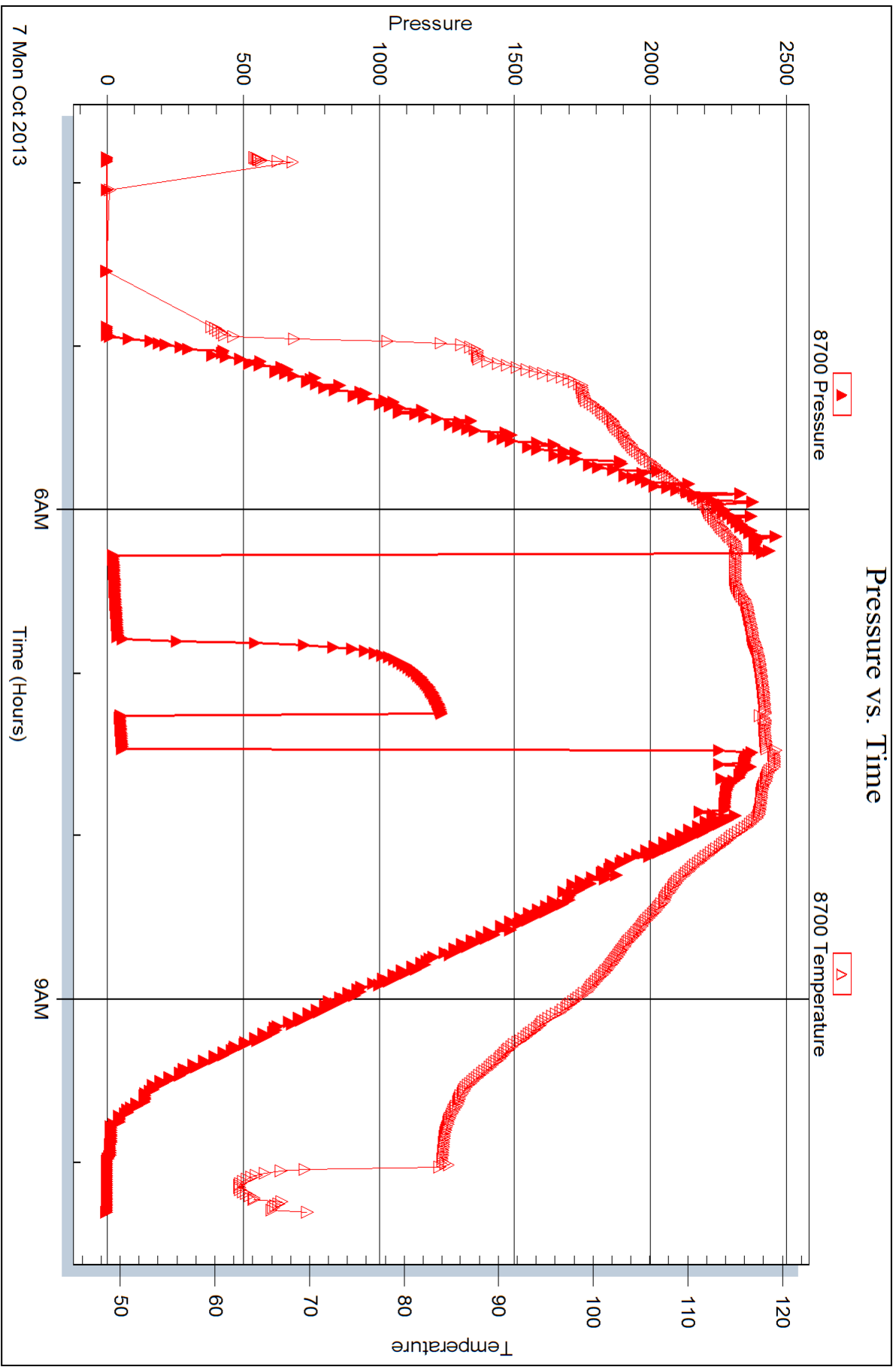


Serial #: 8700

Outside American Warrior Inc

Kramer #3-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Cecil O'Brate, Kevin

Kramer #3-31

31-24s-29w Gray,KS

Start Date: 2013.10.08 @ 14:50:10

End Date: 2013.10.08 @ 21:22:49

Job Ticket #: 54824 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.09 @ 14:06:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Cecil O'Brate, Kevin

31-24s-29w Gray, KS
Kramer #3-31
 Job Ticket: 54824 **DST#: 2**
 Test Start: 2013.10.08 @ 14:50:10

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:38:35
 Time Test Ended: 21:22:49
 Interval: **4840.00 ft (KB) To 4902.00 ft (KB) (TVD)**
 Total Depth: 4902.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2835.00 ft (KB)
 2824.00 ft (CF)
 KB to GR/CF: 11.00 ft

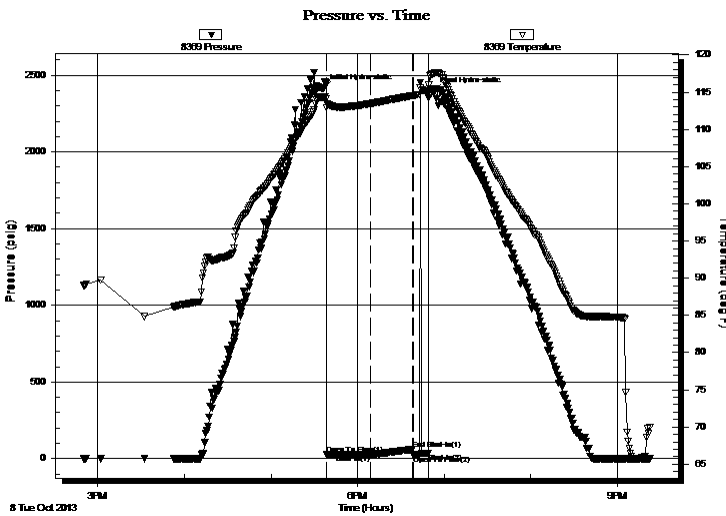
Serial #: 8369

Inside

Press @ Run Depth: 25.53 psig @ 4842.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.08 End Date: 2013.10.08 Last Calib.: 2013.10.08
 Start Time: 14:50:10 End Time: 21:22:49 Time On Btm: 2013.10.08 @ 17:36:05
 Time Off Btm: 2013.10.08 @ 18:52:20

TEST COMMENT: 30-IFP-w k surface bl , died in 20 min
 30-ISIP-no bl
 10-FFP-no bl , flushed tool , got surge
 pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.92	114.37	Initial Hydro-static
3	25.92	112.95	Open To Flow (1)
33	25.53	113.47	Shut-In(1)
62	61.08	114.54	End Shut-In(1)
63	23.69	114.55	Open To Flow (2)
73	35.22	115.16	Shut-In(2)
77	2392.99	117.51	Final Hydro-static

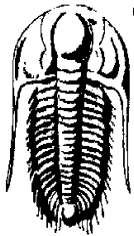
Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 1%O99%M	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Cecil O'Brate, Kevin

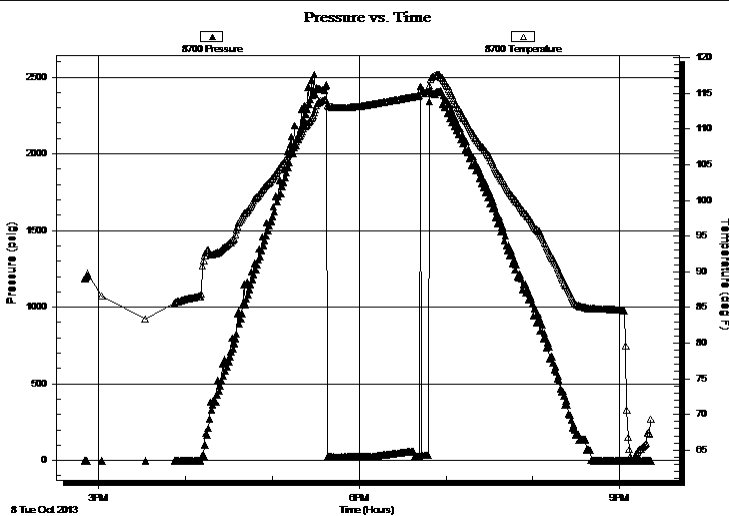
31-24s-29w Gray,KS
Kramer #3-31
 Job Ticket: 54824 **DST#: 2**
 Test Start: 2013.10.08 @ 14:50:10

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:38:35
 Tester: Ray Schwager
 Time Test Ended: 21:22:49
 Unit No: 70
Interval: 4840.00 ft (KB) To 4902.00 ft (KB) (TVD)
 Reference Elevations: 2835.00 ft (KB)
 Total Depth: 4902.00 ft (KB) (TVD)
 2824.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 11.00 ft

Serial #: 8700 Outside
 Press @RunDepth: psig @ 4842.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2013.10.08
 End Date: 2013.10.08
 Last Calib.: 2013.10.08
 Start Time: 14:50:09
 End Time: 21:21:33
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k surface bl , died in 20 min
 30-ISIP-no bl
 10-FFP-no bl , flushed tool , got surge
 pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 1%O99%M	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

31-24s-29w Gray,KS

PO Box 399
Garden City KS 67846

Kramer #3-31

Job Ticket: 54824

DST#: 2

ATTN: Cecil O'Brate, Kevin

Test Start: 2013.10.08 @ 14:50:10

Tool Information

Drill Pipe:	Length: 4520.00 ft	Diameter: 3.80 inches	Volume: 63.40 bbl	Tool Weight:	2200.00 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: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 64.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4840.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	90.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4813.00	
Shut In Tool	5.00			4818.00	
Hydraulic tool	5.00			4823.00	
Jars	5.00			4828.00	
Safety Joint	2.00			4830.00	
Packer	5.00			4835.00	28.00 Bottom Of Top Packer
Packer	5.00			4840.00	
Stubb	1.00			4841.00	
Perforations	1.00			4842.00	
Recorder	0.00	8369	Inside	4842.00	
Recorder	0.00	8700	Outside	4842.00	
Blank Spacing	33.00			4875.00	
Perforations	24.00			4899.00	
Bullnose	3.00			4902.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

31-24s-29w Gray,KS

PO Box 399
Garden City KS 67846

Kramer #3-31

Job Ticket: 54824

DST#: 2

ATTN: Cecil O'Brate, Kevin

Test Start: 2013.10.08 @ 14:50:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 1%O99%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

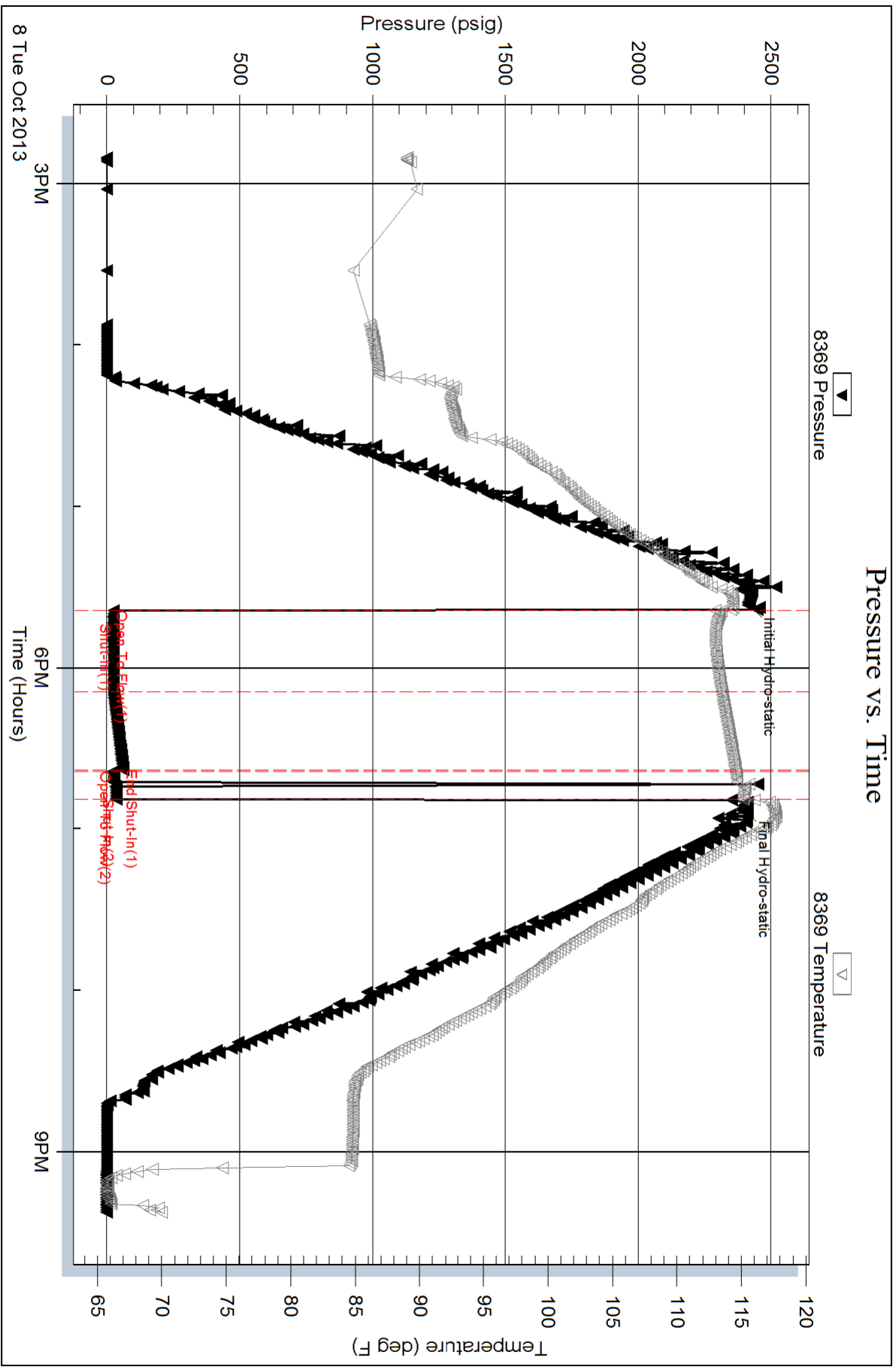
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

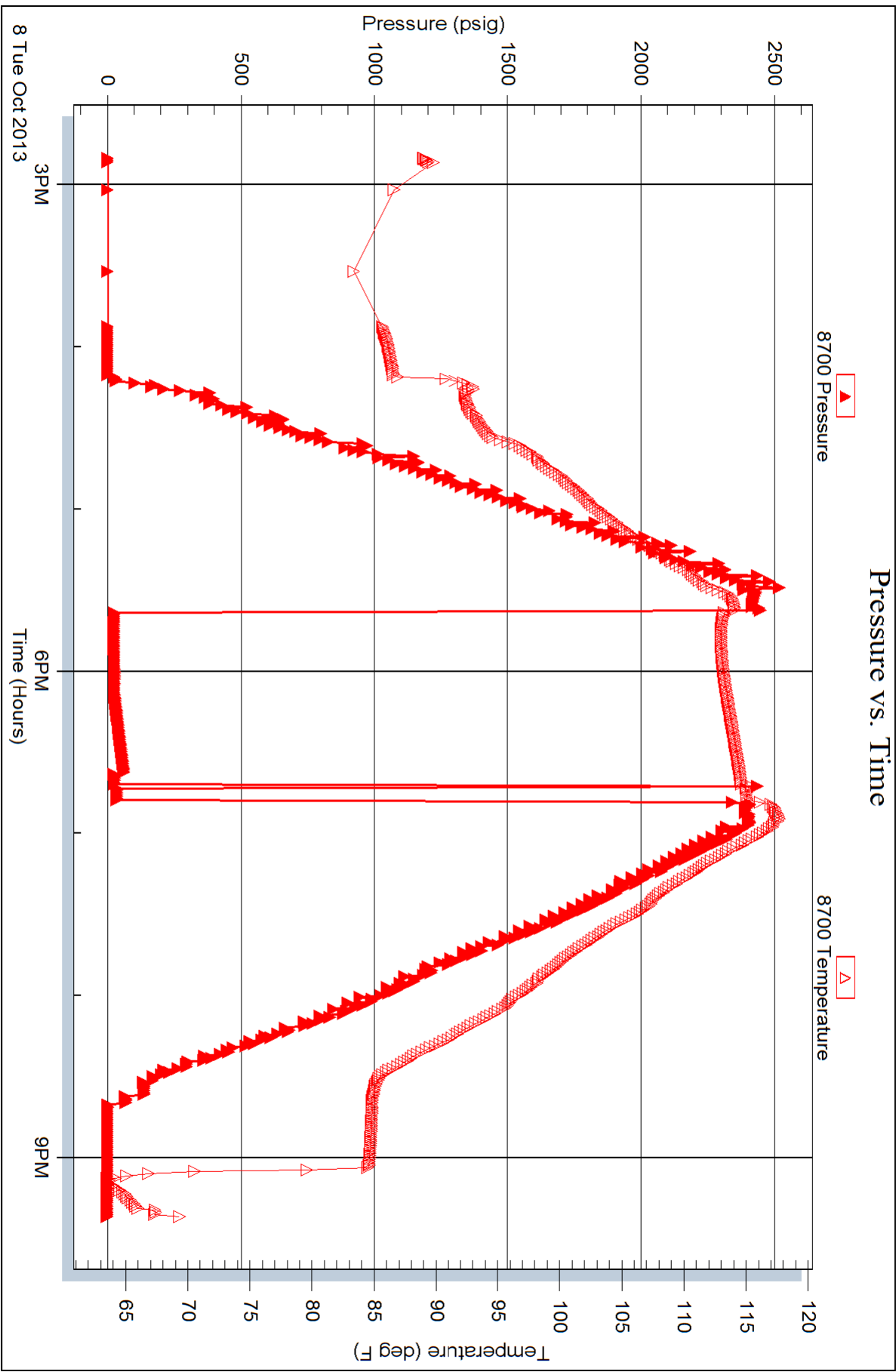


Serial #: 8700

Outside American Warrior Inc

Kramer #3-31

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54823

Well Name & No. KRAMER #3-31 Test No. 1 Date 10-7-13
 Company AMERICAN WARRIOR INC Elevation 2835 KB 2824 GL
 Address 3118 Cummings Rd, PO. Box 399 Garden City, Ks 67846
 Co. Rep / Geo. Kevin Timson Rig Duke rig 5
 Location: Sec. 31 Twp. 24^s Rge. 29^N Co. GRAY State Ks

Interval Tested 4715-4750 Zone Tested FT. SCOTT
 Anchor Length 35 Drill Pipe Run 4397 Mud Wt. 9.5
 Top Packer Depth 4710 Drill Collars Run 310 Vis 48
 Bottom Packer Depth 4715 Wt. Pipe Run — WL 8
 Total Depth 4750 Chlorides 4000 ppm System LCM 2#
 Blow Description IFP - WEAK SURFACE BLOW THRU-OUT
ISIP - NO BLOW
FFP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>MW</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 119 Gravity — API RW .2 @ 60 ° F Chlorides 40000 ppm
 (A) Initial Hydrostatic 2384 Test 1250 T-On Location 0150
 (B) First Initial Flow 19 Jars 250 T-Started 0350
 (C) First Final Flow 43 Safety Joint 75 T-Open 0615
 (D) Initial Shut-In 1236 Circ Sub T-Pulled 0725
 (E) Second Initial Flow 47 Hourly Standby T-Out 1016
 (F) Second Final Flow 55 Mileage 262 RT 126rt 195.30 Comments MOTEL STAY
 (G) Final Shut-In — Sampler Ruined Shale Packer
 (H) Final Hydrostatic 2349 Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Sub Total 0
 Extra Recorder Total 1770.30
 Day Standby MP/DST Disc't
 Accessibility Sub Total 1770.30

Initial Open 30
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In pulled tool
 Approved By _____ Our Representative RAY SCHWAGER Thank you

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. 54824

Well Name & No. KRAMER #3-31 Test No. 2 Date 10-8-13
 Company AMERICAN WARRIOR INC Elevation 2835 KB 2824 GL
 Address 3118 Cummings Rd. P.O. Box 399 Garden City, Ks 67846
 Co. Rep / Geo. Kevin Timson Rig Duke rig 5
 Location: Sec. 31 Twp. 24^s Rge. 29^w Co. GRAY State Ks

Interval Tested 4840-4902 Zone Tested MORROW
 Anchor Length 62 Drill Pipe Run 4520 Mud Wt. 9.4
 Top Packer Depth 4835 Drill Collars Run 310 Vis 50
 Bottom Packer Depth 4840 Wt. Pipe Run — WL 10.8
 Total Depth 4902 Chlorides 4700 ppm System LCM 3#
 Blow Description IFP - WEAK SURFACE BLOW, died in 20 min.
ISTP - NO Blow
FFP - NO Blow, flushed Tool, got surge

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>50 CM</u>	<u>1</u>		<u>99</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 117 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2413</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>1230</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1450</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1740</u>
(D) Initial Shut-In <u>61</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1850</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2220</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage 195.30	Comments <u>Motel stay</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2392</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Total <u>1770.30</u>
Final Shut-In <u>pulled Tool</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1770.30</u>	

Approved By _____ Our Representative RAY Schwager Thank you

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.