



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1263919  
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: \_\_\_\_\_



1263919

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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	Denise 2-33
Doc ID	1263919

Tops

Name	Top	Datum
Anhydrite	1444	729
Heebner	3614	1441
Lansing	3658	-1488
Base Kanss City	3941	-1768
Pawnee	4040	-1867
Ft. Scott	4118	-1945
Cherokee	4135	-1962
Mississippian	4209	-2036
RTD	4228	-2055



# **Geological Report**

American Warrior, Inc.

**Denise #2-33**

2230' FSL & 335' FWL

Sec. 33 T17s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Denise #2-33  
2230' FSL & 335' FWL  
Sec. 33 T17s R21w  
Ness County, Kansas  
API # 15-135-25850-0000

Drilling Contractor: Discovery Drilling Rig #3

Geologist: Jason T Alm

Spud Date: July 20, 2015

Completion Date: July 27, 2015

Elevation: 2165' Ground Level  
2173' Kelly Bushing

Directions: Bazine KS, 2 mi East on Hwy 96, North 5 ½ mi,  
East into location.

Casing: 231' 8 5/8" surface casing  
4221' 5 1/2" production casing

Samples: 10' wet and dry, 3850' to RTD

Drilling Time: 3550' to RTD

Electric Logs: Pioneer Energy Services "Chris DeSaire"  
CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Brett Dickinson"

Problems: None

Remarks: Gas detector had high levels of background gas  
after DST #1 due to oil in mud.

## Formation Tops

Formation	American Warrior, Inc. Denise #2-33 Sec. 33 T17s R21w 2230' FSL & 335' FWL
Anhydrite	1444', +729
Base	1476', +697
Heebner	3614', -1441
Lansing	3658', -1488
BKC	3941', -1768
Pawnee	4040', -1867
Fort Scott	4118', -1945
Cherokee	4135', -1962
Mississippian	4209', -2036
RTD	4222', -2049

## Sample Zone Descriptions

**Cher. "A" Sand (4143', -1970):**      **Covered in DST #1**  
 Ss – Quartz, clear to slightly frosted, fine grained, fairly sorted, poor to fair cementation, sub-rounded with fair to good inter-granular porosity, light to fair oil stain and saturation in cluster, slight show of free oil on break, light odor, dull to fair yellow cut fluorescents, 100 units hotwire.

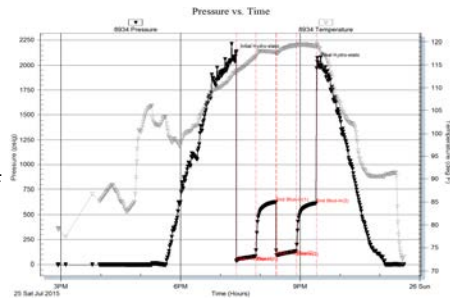
**Mississippian Osage (4209', -2049):**      **Covered in DST #2**  
 Δ – Dolo – White to clear, weathered, slightly triptolic with fair to good scattered vuggy porosity, slightly dolomitic – fine crystalline with poor scattered inter-crystalline porosity, light to fair oil stain and saturation in porosity, fair show of free oil, good odor, fair to good yellow fluorescents.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Brett Dickinson"

**DST #1 Cherokee "A" Sand**

Interval (4134' – 4165') Anchor Length 31'

- |     |                        |          |
|-----|------------------------|----------|
| IHP | – 2114 #               |          |
| IFP | – 45" – B.O.B. 28 min. | 21-71 #  |
| ISI | – 45" – W.S.B.         | 626 #    |
| FFP | – 45" – Built to 8 in. | 88-131 # |
| FSI | – 45" – W.S.B.         | 614 #    |
| FHP | – 2034 #               |          |
| BHT | – 119°F                |          |

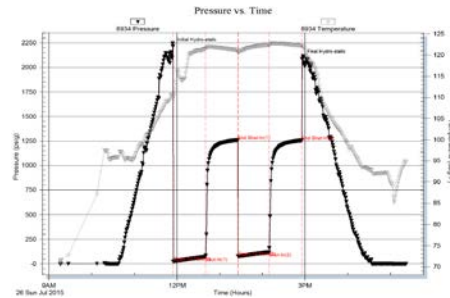


- Recovery:      55' GIP  
                   10' SGO  
                   127' VSOWCM      2% Oil, 10% Water  
                   120' OSMCW        90% Water

**DST #1 Mississippian Osage**

Interval (4221' – 4228') Anchor Length 7'

- |     |                        |          |
|-----|------------------------|----------|
| IHP | – 2214 #               |          |
| IFP | – 45" – B.O.B. 32 min. | 21-71 #  |
| ISI | – 45" – W.S.B.         | 1259 #   |
| FFP | – 45" – B.O.B. 45 min. | 75-118 # |
| FSI | – 45" – W.S.B.         | 1255 #   |
| FHP | – 2093 #               |          |
| BHT | – 122°F                |          |



- Recovery:      380' GIP  
                   100' GCO  
                   157' OSMCW        75% Water



## Structural Comparison

	American Warrior, Inc. Denise #2-33 Sec. 33 T17s R21w 2230' FSL & 335' FWL	Mull Drilling Co. Casey #1 Sec. 33 T17s R21w C NW SW		Lance Drilling, Inc. Reynolds #1 Sec. 32 T17s R21w 1980' FSL & 330' FEL	
<b>Formation</b>					
Anhydrite	<b>1444', +729</b>	1434', +734	<b>(-5)</b>	1442', +725	<b>(+4)</b>
Base	<b>1476', +697</b>	NA	<b>NA</b>	1474', +693	<b>(+4)</b>
Heebner	<b>3614', -1441</b>	3607', -1439	<b>(-2)</b>	3616', -1449	<b>(+8)</b>
Lansing	<b>3658', -1488</b>	3654', -1486	<b>(-2)</b>	3662', -1495	<b>(+7)</b>
BKC	<b>3941', -1768</b>	3936', -1768	<b>FL</b>	3944', -1777	<b>(+9)</b>
Pawnee	<b>4040', -1867</b>	4037', -1869	<b>(+2)</b>	4047', -1880	<b>(+13)</b>
Fort Scott	<b>4118', -1945</b>	4113', -1945	<b>FL</b>	4124', -1957	<b>(+12)</b>
Cherokee	<b>4135', -1962</b>	4128', -1960	<b>(-2)</b>	4140', -1973	<b>(+11)</b>
Mississippian	<b>4209', -2036</b>	4208', -2040	<b>(+4)</b>	4216', -2049	<b>(+13)</b>

## Summary

The location for the Denise #2-33 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Denise #2-33 well.

### Recommended Perforations

**Primary:**

**Mississippian Osage                      (4209' – 4219')                      DST #2**

**Before Abandonment:**

**Cherokee "A" Sand                      (4143' – 4147')                      DST #1**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



Services, Inc.

TICKET 28664

CHARGE TO: 7 New River Dr. Bartlett  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

PAGE 1 OF 1

1. SERVICE LOCATION: Am 611 K WELL/PROJECT NO.: 2-33 LEASE: Deeise COUNTY/PARISH: Dee STATE: KS CITY: Bazine DATE: 20 APR 15 OWNER: \_\_\_\_\_  
 2. TICKET TYPE:  SERVICE CONTRACTOR RIG NAME/NO.: \_\_\_\_\_ SHIPPED: KS DELIVERED TO: location ORDER NO.: \_\_\_\_\_  
 3. WELL TYPE: Oil WELL CATEGORY: Prod JOB PURPOSE: convert port collar WELL PERMIT NO.: \_\_\_\_\_ WELL LOCATION: 33-17-21  
 4. REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	20	m			5.00	100.00
576D		1			Pump Charge	1	119			1250.00	1250.00
330		1			SMB cost	100	sk			15.75	1575.00
276		1			Hooper	25	lb			2.25	56.25
290		1			D-air	1	99			42.00	42.00
104		1			opening and rebar	1	60		5 1/2 in	200.00	200.00
102		1			5 1/2" pipe	1	60		5 1/2 in	1000.00	1000.00
288		1			sand	2	20			22.00	44.00
581		1			Service charge	1	54			1.50	267.50
582		1			Drigger (win)	1	20			2.75	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 DATE SIGNED: 5/20/14 TIME SIGNED:  A.M.  P.M.  
 REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300  
 SURVEY:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  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?  
 CUSTOMER DID NOT WISH TO RESPOND  
 TAX: 7.5% 1.65%  
 TOTAL: 4969.37

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 APPROVAL: \_\_\_\_\_  
 SWIFT OPERATOR: \_\_\_\_\_  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 20 ALE 15 PAGE NO. 1

CUSTOMER *Huber Warrick* WELL NO. *2-33* LEASE *Denise* JOB TYPE *cement port collar* TICKET NO. *28664*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								<i>175 sk SMD cement w/ 7" fiber</i> <i>5 1/2" 2 3/4" port collar 1347'</i> <i>RBP - 4100' w/ 2 1/2" sand</i>
	<i>1330</i>							<i>on loc TRK 110</i>
	<i>1330</i>		<i>20</i>			<i>1000</i>	<i>1000</i>	<i>test to 1000 psi - hold</i>
	<i>1407</i>							<i>open port collar</i>
		<i>3</i>	<i>3</i>			<i>500</i>		<i>inj rate 3 @ 500 psi</i>
	<i>1410</i>	<i>3</i>				<i>400</i>		<i>Mix SMD cement @ 11.2 ppg</i>
		<i>3</i>	<i>2</i>			<i>400</i>		<i>- fluid to surface -</i>
		<i>3</i>	<i>53</i>			<i>500</i>		<i>Cement to surface</i>
								<i>500 sk mix @ 15 to 1"</i>
		<i>3</i>	<i>5</i>			<i>500</i>		<i>Displace w/ 5 bbl H<sub>2</sub>O</i> <i>Run 5 joints</i>
	<i>1447</i>	<i>3</i>	<i>15</i>					<i>Reverse hole clean</i> <i>- 2 cement plugs -</i>
	<i>1500</i>							<i>Run tubing to 4100'</i>
	<i>1530</i>							<i>wash sand off plug</i> <i>latch onto TSU plug</i>
	<i>1600</i>		<i>30</i>					<i>Back up</i>
								<i>job complete</i>
								<i>Thanks</i> <i>Blaine, Flitz #113</i>



Services, Inc.

CHARGE TO: American Herdior

TICKET 28653

ADDRESS  
CITY, STATE, ZIP CODE

PAGE 1 OF 2

1. SERVICE LOCATIONS: **Am 64, KS** WELL/PROJECT NO: **2.23** LEASE: **Devise** COUNTY/PARISH: **Now** STATE: **KS** DATE: **07 Jul 15** OWNER: **Barzine**

2. TICKET TYPE:  SERVICE  SALES CONTRACTOR: **01** RIG NAME/NO: **3** SHIPPED VIA: **ET** DELIVERED TO: **Location** ORDER NO. **33-17-21**

3. WELL TYPE: **0.1** WELL CATEGORY: **Development** JOB PURPOSE: **convent long string** WELL PERMIT NO. **33-17-21**

4. REFERRAL LOCATION: **0.1** INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	20	mi			5.00	100.00
578					Pump Charger	1	ea			1250.00	1250.00
402		1			Contractor	5	hr			60.00	300.00
403		1			Convent Bucket	5	in			250.00	500.00
404		1			Port Collet	5	in			250.00	250.00
406		1			Batch dump 5' x 6' x 6'	5	in			225.00	225.00
407		1			Inset Fleet Show/Auto file	5	in			300.00	300.00
419		1			Dater/tyrod 1 ea tac	5	in			200.00	200.00

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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: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

A.M.  P.M.

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

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

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?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: **5375.00**

TAX: **1026.50**

TOTAL: **6401.50**

SWIFT OPERATOR: **Beck** APPROVAL: \_\_\_\_\_

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 27 Feb 15 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Amarion / Afton		2-23		De Nile		cement log string		28653	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATIONS AND MATERIALS	
				T	C	TUBING	CASING		
								175 sk SA-2 cement w/ 4" Floable 5 1/4" 5 1/2" casing TD= 4228 Cottler 1, 2, 3, 4, 7, 2 Barlet 5, 7, 3 Port Collar "73" out 108, 110, 112 PC= 1397' 110, 115 - 4228' 5 holejt 41.35	
	0315 0500							on loc 7RK 114 start 5 1/2" 15.5" casing in well	
	0655							Drop ball - circulate - <del>ROATE</del>	
	0750	3	12			20		Pump 12 bbl MAF flush	
		3	20			200		Pump 20 bbl KCL flush	
			7					Plug RH-MH 305 sk - 205 sk	
	0815	37	35			208		Mix SA 2 cement 1255 sk @ 153 ppm	
								Drop bit ch down plug wash out pump & line	
	0836	6 1/4				200		Displace plug	
		6 1/4	80			350			
		6 1/4	95			700			
	0900	6 1/4	101			150		Land plug	
								Release pressure to truck - dried up	
	0905							wash truck	
								Rack up	
	0930							Job complete	
								Thanks Flat blines & more	



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

TICKET CONTINUATION

Ticket No. 28653

CUSTOMER American Vactor

WEIGHT 2.23

DATE 7 Jul 15 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WEIGHT		DATE		UNIT PRICE	AMOUNT
		LOC	ACCT			DR	QTY	U/M	QTY		
585					Shovel cement (for 512)	175	SK			18.35	2143.75
284					Colored	800	B	8	SK	30.00	240.00
283					SALT	900	LB			0.20	180.00
292					Wald-322	125	LB			8.00	1000.00
276					Freeze	85	LB			2.25	56.25
281					MIDTUSH	520	gal			1.25	625.00
281					RCL Liquid	290	gal			25.00	50.00
290					D-AIR	290	gal			4.20	84.00
582					D Storage (M.)	175				20.00	238.00
581					SERVICE CHARGE					1.50	262.50
					MILEAGE CHANGE						262.50
					TOTAL WEIGHT	1895					
					LOADED MILES						
					CUBIC FEET						
					TON MILES						

CONTINUATION TOTAL 4891.00



Services, Inc.

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

TICKET 20500

PAGE 1 OF

WELL/PROJECT NO. LEASE COUNTY/PARISH STATE CITY DATE  
 DENISE 2-33 NESS K.S. BAZINE, K.S. 2050415  
 OWNER  
 ORDER NO. 2050415  
 WELL LOCATION, 20535N E 10E

WELL TYPE: DISCOVERY DRILL #3  
 RIG NAME NO. NESS  
 WELL CATEGORY: DEVELOPMENT  
 JOB PURPOSE: 8 5/8 SURFACE

WELL PERMIT NO.:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
5775					MILEAGE #115	20	MI			5.00	100.00
5765					Pump Charge	1	CHG			800.00	800.00
278					CALCIUM CHLORIDE	7	5X			41.00	287.00
279					GEL	3	5X			25.00	75.00
290					D-AIR	1	2 GAL			42.00	42.00
325					STANDARD CEMENT	1	50 SX			18.35	18.37
581					CEMENT SERVICE CHARGE	1	50 SX			1.50	225.00
582					MINIMUM DRAPAGE	1475	DDbs	1425	TM	25.00	250.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

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

DATE SIGNED: 2050415 TIME SIGNED: 2355

DATE SIGNED: 2050415 TIME SIGNED: 2355

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

SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO  
 WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO  
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

PAGE TOTAL: 3630.50

TOTAL: 3630.50

SWIFT OPERATOR: [Signature]

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

APPROVAL: [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 203 Aug 15 PAGE NO.

CUSTOMER  
AMERICAN WARRIOR

WELL NO.

LEASE  
DENISE 2-33

JOB TYPE  
8 5/8 SURFACE

TICKET NO.  
28693

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2130							ON LOCATION
								8 5/8 - 28" RTD @ 231 SET @ 231
	2257				✓			CIRCULATE
	2310	4 3	36 13 1/2		✓ ✓			MIX 150 SK STD 2% 6EC, 3% 6CC DISPLACE CEMENT
	2330						200	SHUT WELL IN.  CIRCULATE CEMENT TO SURFACE.
	2332							WASH TRUCK
	0000							JOB COMPLETE.  THANKS #115  JASON COLE & ISAAC





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

**Denise #2-33**

**33-17s-21w Ness,KS**

Start Date: 2015.07.25 @ 14:55:00

End Date: 2015.07.25 @ 23:35:45

Job Ticket #: 64706                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.07.27 @ 08:41:26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Jason Alm

**33-17s-21w Ness, KS**  
**Denise #2-33**  
 Job Ticket: 64706 **DST#: 1**  
 Test Start: 2015.07.25 @ 14:55:00

## GENERAL INFORMATION:

Formation: **Cherokee A Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:24:00  
 Time Test Ended: 23:35:45  
 Interval: **4134.00 ft (KB) To 4165.00 ft (KB) (TVD)**  
 Total Depth: 4165.00 ft (KB) (TVD)  
 Hole Diameter: 7.99 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 81  
 Reference Elevations: 2173.00 ft (KB)  
 2165.00 ft (CF)  
 KB to GR/CF: 8.00 ft

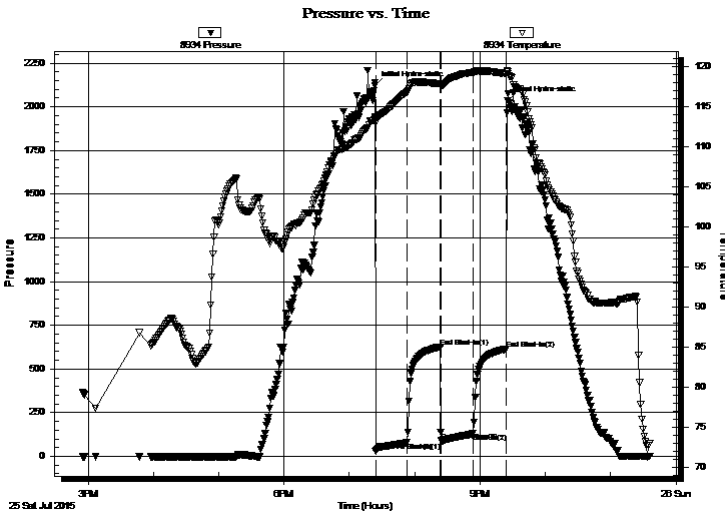
## Serial #: 8934

Inside

Press@RunDepth: 130.75 psig @ 4162.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.07.25 End Date: 2015.07.25 Last Calib.: 2015.07.25  
 Start Time: 14:55:05 End Time: 23:35:45 Time On Btm: 2015.07.25 @ 19:23:15  
 Time Off Btm: 2015.07.25 @ 21:25:30

TEST COMMENT: IF-BOB in 28 min  
 IS-Surface blow  
 FF-8in blow  
 FS-surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.21	113.59	Initial Hydro-static
1	30.29	112.96	Open To Flow (1)
30	80.07	116.84	Shut-In(1)
61	626.27	117.83	End Shut-In(1)
61	88.47	117.56	Open To Flow (2)
91	130.75	119.27	Shut-In(2)
121	614.38	119.10	End Shut-In(2)
123	2034.10	119.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OS MCW 10%M 90%W	1.41
127.00	VSOWCM 2%O 10%W 88%M	1.78
10.00	SGO 5%G 95%O	0.14
0.00	55ft GIP	0.00

## 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: Jason Alm

**33-17s-21w Ness, KS**

**Denise #2-33**

Job Ticket: 64706

**DST#: 1**

Test Start: 2015.07.25 @ 14:55:00

### GENERAL INFORMATION:

Formation: **Cherokee A Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:24:00  
 Time Test Ended: 23:35:45  
 Interval: **4134.00 ft (KB) To 4165.00 ft (KB) (TVD)**  
 Total Depth: 4165.00 ft (KB) (TVD)  
 Hole Diameter: 7.99 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 81

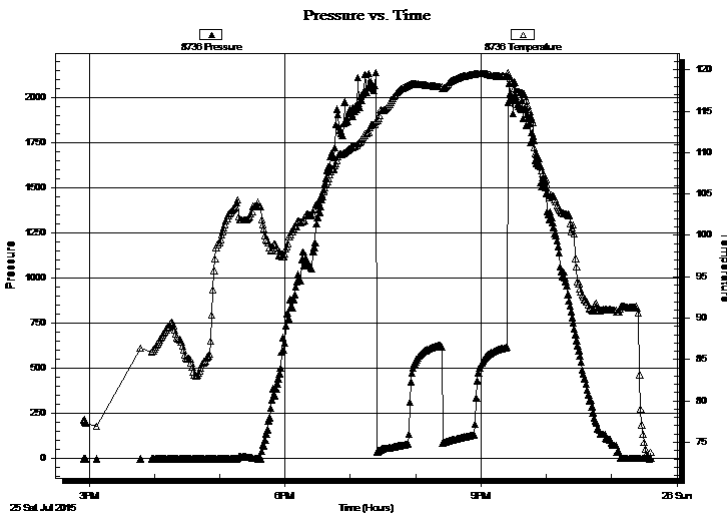
Reference Elevations: 2173.00 ft (KB)  
 2165.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8736 Outside**

Press@RunDepth: psig @ 4162.00 ft (KB)  
 Start Date: 2015.07.25 End Date: 2015.07.25  
 Start Time: 14:55:05 End Time: 23:35:45

Capacity: 8000.00 psig  
 Last Calib.: 2015.07.25  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-BOB in 28 min  
 IS-Surface blow  
 FF-8in blow  
 FS-Surface blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	OS MCW 10%M 90%W	1.41
127.00	VSOBCM 2%O 10%W 88%M	1.78
10.00	SGO 5%G 95%O	0.14
0.00	55ft GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**33-17s-21w Ness,KS**

PO Box 399  
Garden City KS 67846

**Denise #2-33**

Job Ticket: 64706

**DST#: 1**

ATTN: Jason Alm

Test Start: 2015.07.25 @ 14:55:00

## Tool Information

Drill Pipe:	Length: 4095.00 ft	Diameter: 3.80 inches	Volume: 57.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4134.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4111.00	
Hydraulic tool	5.00			4116.00	
Jars	5.00			4121.00	
Safety Joint	3.00			4124.00	
Packer	5.00			4129.00	28.00 Bottom Of Top Packer
Packer	5.00			4134.00	
Stubb	1.00			4135.00	
Perforations	27.00			4162.00	
Recorder	0.00	8934	Inside	4162.00	
Recorder	0.00	8736	Outside	4162.00	
Bullnose	3.00			4165.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**33-17s-21w Ness,KS**

PO Box 399  
Garden City KS 67846

**Denise #2-33**

Job Ticket: 64706

**DST#: 1**

ATTN: Jason Alm

Test Start: 2015.07.25 @ 14:55:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OS MCW 10%M 90%W	1.410
127.00	VSOWCM 2%O 10%W 88%M	1.781
10.00	SGO 5%G 95%O	0.140
0.00	55ft GIP	0.000

Total Length: 257.00 ft

Total Volume: 3.331 bbl

Num Fluid Samples: 0

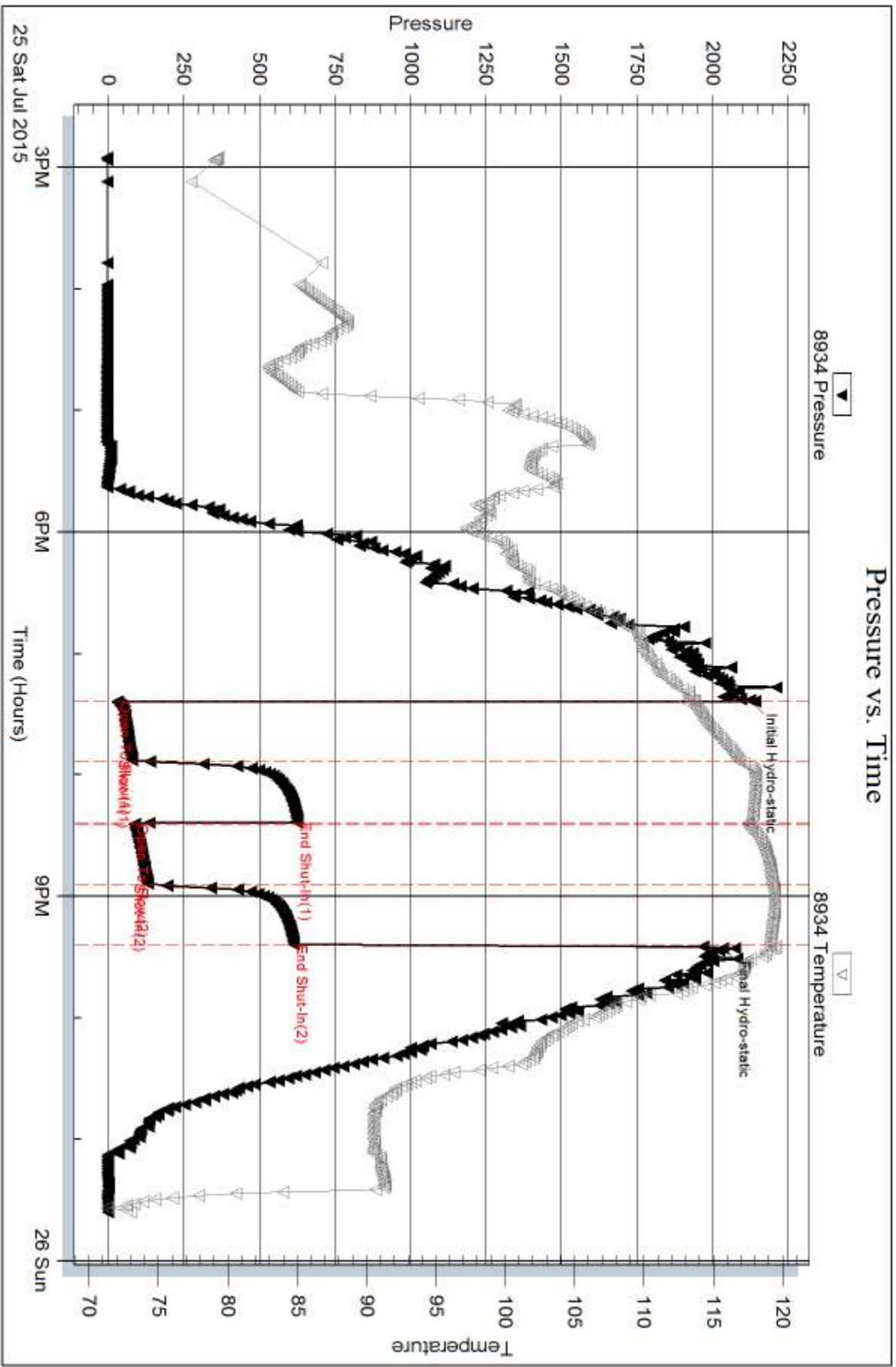
Num Gas Bombs: 0

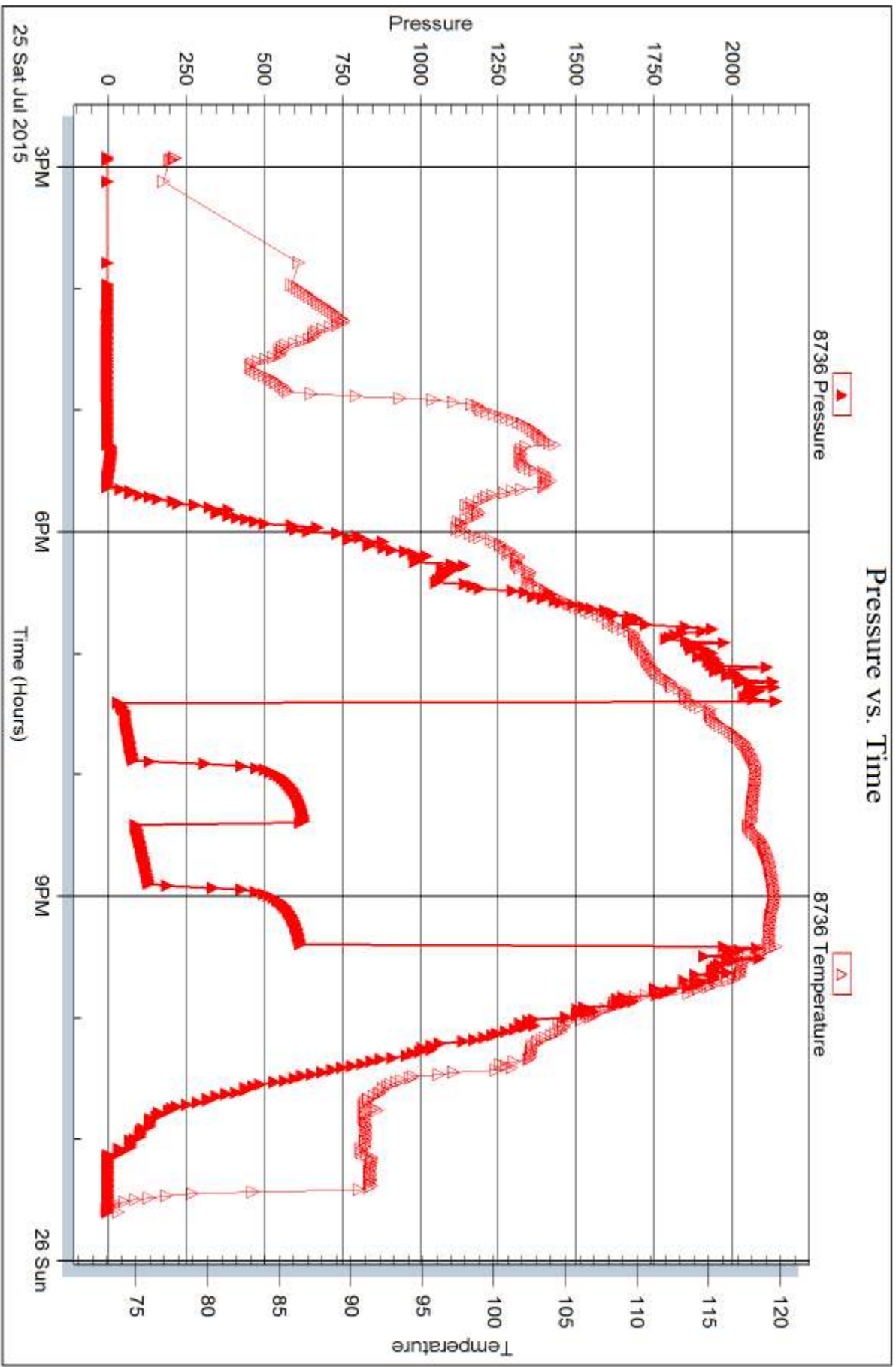
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **Denise #2-33**

### **33-17s-21w Ness,KS**

Start Date: 2015.07.26 @ 09:15:00

End Date: 2015.07.26 @ 17:21:45

Job Ticket #: 64707                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.07.27 @ 08:40:38





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City KS 67846  
ATTN: Jason Alm

**33-17s-21w Ness, KS**  
**Denise #2-33**  
Job Ticket: 64707      **DST#: 2**  
Test Start: 2015.07.26 @ 09:15:00

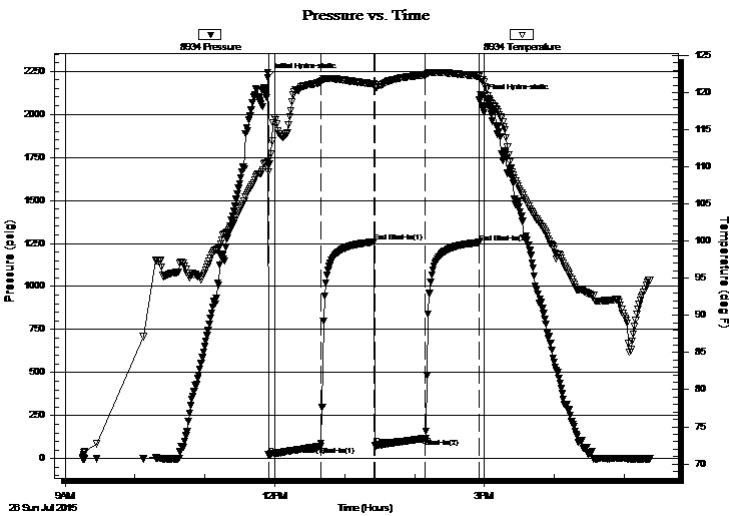
## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:54:30  
Time Test Ended: 17:21:45  
Interval: **4221.00 ft (KB) To 4228.00 ft (KB) (TVD)**  
Total Depth: 4228.00 ft (KB) (TVD)  
Hole Diameter: 7.99 inches Hole Condition: Fair  
Reference Elevations: 2173.00 ft (KB)  
2165.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8934      Inside**  
Press@RunDepth: 118.29 psig @ 4225.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.07.26      End Date: 2015.07.26      Last Calib.: 2015.07.26  
Start Time: 09:15:05      End Time: 17:21:44      Time On Btm: 2015.07.26 @ 11:54:00  
Time Off Btm: 2015.07.26 @ 14:57:00

TEST COMMENT: IF-BOB in 32 min  
IS-Surface blow  
FF-BOB in 45 min  
FS-Surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.99	110.64	Initial Hydro-static
1	21.84	109.29	Open To Flow (1)
46	71.27	121.45	Shut-In(1)
92	1258.59	121.14	End Shut-In(1)
92	75.79	120.71	Open To Flow (2)
136	118.29	122.36	Shut-In(2)
182	1255.30	122.20	End Shut-In(2)
183	2093.23	121.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	GO 20%G 80%O	1.13
157.00	OS MCW 25%M 75%W	2.20
0.00	380ft GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

American Warrior Inc.

33-17s-21w Ness,KS

PO Box 399  
Garden City KS 67846

Denise #2-33

Job Ticket: 64707

DST#: 2

ATTN: Jason Alm

Test Start: 2015.07.26 @ 09:15:00

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:54:30

Time Test Ended: 17:21:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: **4221.00 ft (KB) To 4228.00 ft (KB) (TVD)**

Reference Elevations: 2173.00 ft (KB)

Total Depth: 4228.00 ft (KB) (TVD)

2165.00 ft (CF)

Hole Diameter: 7.99 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8736**

**Outside**

Press@RunDepth: psig @ 4225.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.26

End Date:

2015.07.26

Last Calib.:

2015.07.26

Start Time: 09:15:05

End Time:

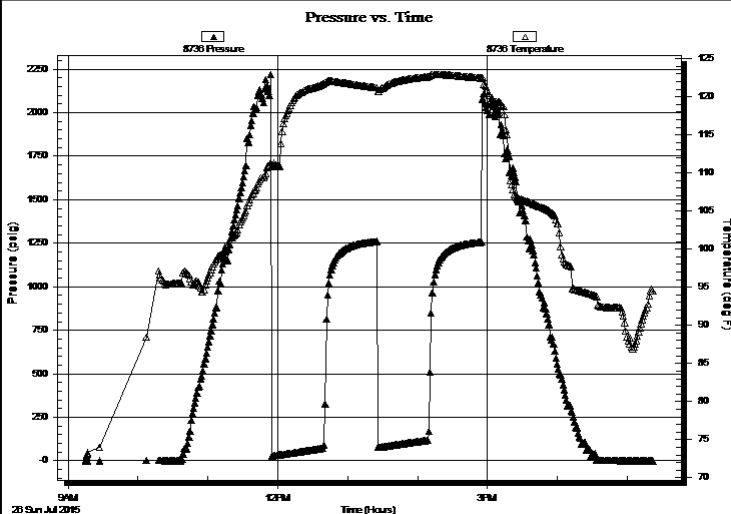
17:21:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-BOB in 32 min  
IS-Surface blow  
FF-BOB in 45 min  
FS-Surface blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
100.00	GO 20%G 80%O	1.13
157.00	OS MCW 25%M 75%W	2.20
0.00	380ft GIP	0.00

### 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.

**33-17s-21w Ness,KS**

PO Box 399  
Garden City KS 67846

**Denise #2-33**

Job Ticket: 64707

**DST#: 2**

ATTN: Jason Alm

Test Start: 2015.07.26 @ 09:15:00

## Tool Information

Drill Pipe:	Length: 4187.00 ft	Diameter: 3.80 inches	Volume: 58.73 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4221.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4198.00	
Hydraulic tool	5.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	3.00			4211.00	
Packer	5.00			4216.00	28.00 Bottom Of Top Packer
Packer	5.00			4221.00	
Stubb	1.00			4222.00	
Perforations	3.00			4225.00	
Recorder	0.00	8934	Inside	4225.00	
Recorder	0.00	8736	Outside	4225.00	
Bullnose	3.00			4228.00	7.00 Bottom Packers & Anchor

**Total Tool Length: 35.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**33-17s-21w Ness,KS**

PO Box 399  
Garden City KS 67846

**Denise #2-33**

Job Ticket: 64707

**DST#: 2**

ATTN: Jason Alm

Test Start: 2015.07.26 @ 09:15:00

## 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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	GO 20%G 80%O	1.129
157.00	OS MCW 25%M 75%W	2.202
0.00	380ft GIP	0.000

Total Length: 257.00 ft      Total Volume: 3.331 bbl

Num Fluid Samples: 0

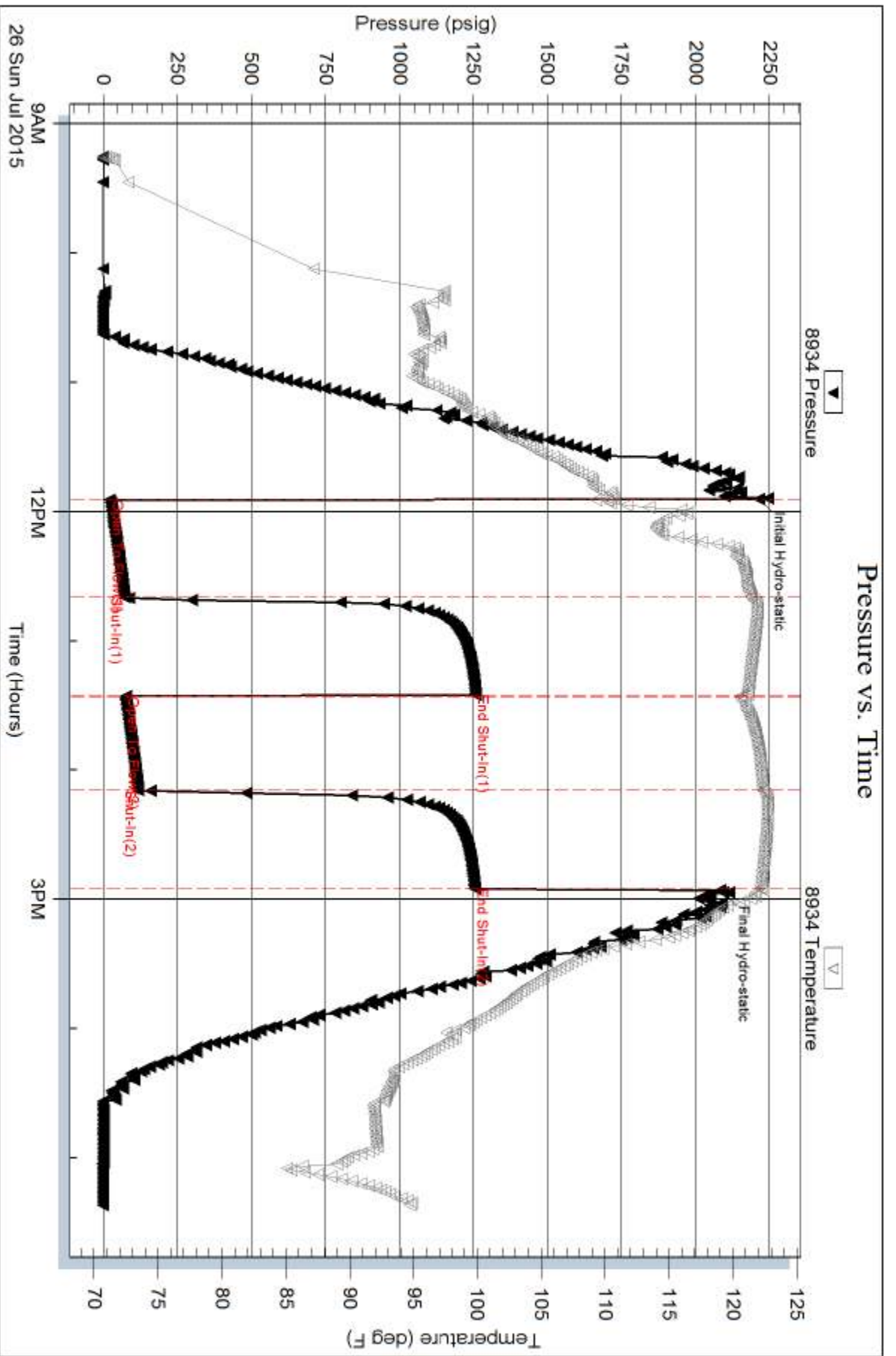
Num Gas Bombs: 0

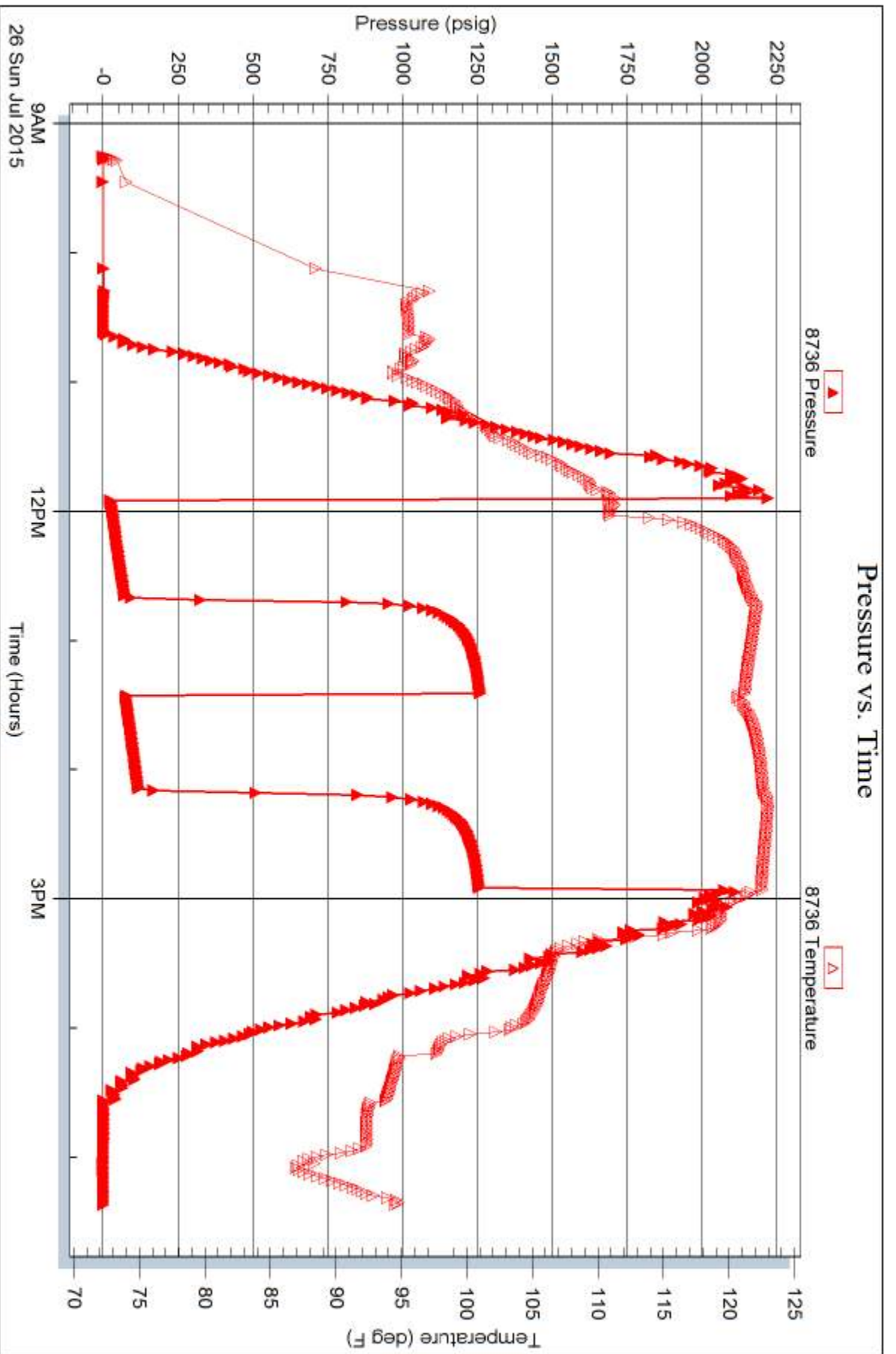
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64706**

Well Name & No. Denise #2-33 Test No. 1 Date 7/25/15  
 Company American Warrior, Inc. Elevation 2173 KB 2165 GL  
 Address PO BOX 399 Garden City KS 67846  
 Co. Rep / Geo. Jason T Alm Rig Discovery #3  
 Location: Sec. 33 Twp. 17s Rge. 21w Co. Ness State KS

Interval Tested 34134-4165 Zone Tested cher "A" sd.  
 Anchor Length 31 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.5  
 Top Packer Depth ~~4131~~ 4129 Drill Collars Run 30 Vis 53  
 Bottom Packer Depth ~~4136~~ 4134 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 4165 Chlorides 3,800 ppm System LCM 1#

Blow Description IF-BOB in  
ISI- surface blow  
FF- 8in blow  
FSF- surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>OS MCW</u>		<u>10</u>	<u>90</u>	
<u>127</u>	<u>VSOWCM</u>	<u>2</u>	<u>10</u>	<u>88</u>	
<u>10</u>	<u>SGO</u>	<u>5</u>	<u>95</u>		
	<u>55ft GIP</u>				

Rec Total 257 BHT 119 Gravity 35 API RW .2 @ 70 °F Chlorides 34000 ppm

(A) Initial Hydrostatic <u>2,123</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:00</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:55</u>
(C) First Final Flow <u>80</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:22</u>
(D) Initial Shut-In <u>626</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:22</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:40</u>
(F) Second Final Flow <u>131</u>	<input checked="" type="checkbox"/> Mileage <u>106.7</u>	Comments _____
(G) Final Shut-In <u>614</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2,034</u>	<input type="checkbox"/> Straddle _____	_____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1581</u>
	Sub Total <u>1581</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_

Our Representative But. Dow

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. **64707**

Well Name & No. Denise #2-33 Test No. 2 Date 7/26/15  
 Company American Warrior, Inc. Elevation 2173 KB 2165 GL  
 Address PO Box 399 Garden City KS 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #3  
 Location: Sec. 33 Twp. 17s Rge. 21w Co. Ness State KS

Interval Tested 4221-4228 Zone Tested Miss  
 Anchor Length 7 Drill Pipe Run — Mud Wt. —  
 Top Packer Depth 4216 Drill Collars Run 30 Vis —  
 Bottom Packer Depth 4221 Wt. Pipe Run — WL —  
 Total Depth 4228 Chlorides — ppm System LCM —  
 Blow Description IF - BOB in 32 min  
FSI - Surface blow  
FF - BOB in 45 min  
FSI - Surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>157</u>	<u>OS MCW</u>			<u>75</u>	<u>25</u>
<u>—</u>	<u>380ft GDP</u>				
<u>—</u>	<u>—</u>				
<u>—</u>	<u>—</u>				

Rec Total 257 BHT 122 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2214</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:50</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:15</u>
(C) First Final Flow <u>71</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:50</u>
(D) Initial Shut-In <u>1,259</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>14:50</u>
(E) Second Initial Flow <u>76</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>17:20</u>
(F) Second Final Flow <u>118</u>	<input checked="" type="checkbox"/> Mileage <u>106</u>	Comments <u>—</u>
(G) Final Shut-In <u>1,255</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2,093</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1581</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1581</u>	

Approved By \_\_\_\_\_ Our Representative Burdett

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