



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1224869  
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: \_\_\_\_\_

1224869

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	Tancayo 2-3
Doc ID	1224869

Tops

Name	Top	Datum
Anhy	1898'	+975
B/Anhy	1974	+899
Heebner	4000'	-1127
Lansing	4059'	-1186
Marmaton	4556'	-1683
Pawnee	4639'	-1766
Ft.Scott	4663'	-1790
Morrow	4842'	-1969
Mississippian	4860'	-1987



# ALLIED OIL & GAS SERVICES, LLC 053172

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Liberal, ks

DATE <u>7-7-14</u>	SEC. <u>3</u>	TWP. <u>25S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 Pm</u>	JOB FINISH <u>4:40 Pm</u>
LEASE <u>Tanawo</u>	WELL # <u>2-3</u>	LOCATION <u>Garden City ks</u>	COUNTY <u>Finney</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)							

CONTRACTOR Duke S OWNER American Warrior

TYPE OF JOB Surface

HOLE SIZE 12 1/4 I.D. 1710

CASING SIZE 8 5/8 DEPTH 1699.52

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE 1500 PSI SHOE JOINT 4216

CEMENT LEFT IN CSG. 42.16 FT

PERFS.

DISPLACEMENT 105 bbls

CEMENT

AMOUNT ORDERED 625 SKS Class A 670 gal. 37% CC  
0.25 16/32 Flo Seal. 200 SKS Class A 670 gal. 37% CC  
0.25 16/32 Flo Seal.

EQUIPMENT

PUMP TRUCK CEMENTER Edgar Rodriguez

549-550 HELPER Alex Corona

BULK TRUCK

993-467 DRIVER Ricardo Landa

BULK TRUCK

774-744 DRIVER Jose Calderon

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
Alwv Class A	625 SKS @	16.50	10312.50
Calcium Chloride	21 SKS @	64.00	1344.00
Flo Seal	313 # @	2.97	929.61
Class A Common	200 SKS @	17.90	3580.00
Calcium Chloride	8 SKS @	64.00	512.00
Flo Seal	50 # @	2.97	148.50
	@		
	@		
	@		

REMARKS:

336532/20% TOTAL 16,826.61

**SERVICE**

DEPTH OF JOB		<u>1699.52</u>
PUMP TRUCK CHARGE	<u>1</u>	<u>2213.75</u>
	Light 50 mi @	<u>4.40</u>
		<u>220.00</u>
MILEAGE Heavy	50 mi @	<u>7.70</u>
		<u>385.00</u>
MANIFOLD	<u>1</u>	<u>275.00</u>
Handling	<u>947.01 ft<sup>3</sup></u>	<u>2.48</u>
		<u>2348.59</u>
Drayage	<u>1975 Ton</u>	<u>2.60</u>
		<u>5135.00</u>

2 115.47/20% TOTAL 10,577.34

CHARGE TO: American Warrior

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

Guide shoe	<u>1</u>	@ <u>460.98</u>	<u>460.98</u>
Abu float valve	<u>1</u>	@ <u>446.94</u>	<u>446.94</u>
Cement Basket	<u>1</u>	@ <u>559.26</u>	<u>559.26</u>
Centralizer	<u>3</u>	@ <u>74.88</u>	<u>224.64</u>
Top Rubber plug	<u>1</u>	@ <u>131.04</u>	<u>131.04</u>

364.57/40% TOTAL 1822.86

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.

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES 29,226.81

PRINTED NAME KENNETH M GUIRE

DISCOUNTS 245.30/20% IF PAID IN 30 DAYS

SIGNATURE Kenneth M Guire

Net = 23,381.45



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

TICKET 26487

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Miss Gty KS WELL/PROJECT NO. 2-3 LEASE Tancayo COUNTY/PARISH Finney STATE KS CITY Pierceville DATE 17 Jan 14 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR DO&E RIG NAME/NO. 5 SHIPPED CT DELIVERED TO Location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement long string WELL PERMIT NO. WELL LOCATION 3-25-31  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	85	mi			6.00	510.00
578		1			Pump Charge	1	ea			1500.00	1500.00
402		1			Centralizer	52	in	9	ea	70.00	630.00
403		1			Cement Basket	5 1/2	in	2	ea	300.00	600.00
406		1			latch down plug & baffle	5 1/2	in	1	ea	275.00	275.00
407		1			Insert float shoe w/ auto fill	5 1/2	in	1	ea	375.00	375.00

**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

X  
 DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  A.M.  P.M.  
0645

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?				PAGE TOTAL 1 <u>3890.00</u>
WE UNDERSTOOD AND MET YOUR NEEDS?				<u>6010.31</u>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				<u>9900.31</u>
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Finney TAX <u>7.30</u>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				<u>493.59</u>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL <u>10,393.90</u>

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

SWIFT OPERATOR B. G. Hall APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 26487

CUSTOMER American Warrior WELL TANCAYO 2-3 DATE 17 Jul 14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT		PRICE	AMOUNT
		LOC	ACCT.	DF								
325		1				STANDARD cement (For 8-2)	175	sk			14.50	2537.50
284		1				calseal	800	lb	8	sk	35.00	280.00
283		1				salt	900	lb			0.20	180.00
292		1				halad-322	125	lb			8.00	1000.00
276		1				flocele	50	lb			2.50	125.00
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		1				SERVICE CHARGE					2.00	350.00
583		1				MILEAGE CHARGE	TOTAL WEIGHT 10325	LOADED MILES 85			1.00	778.81

CONTINUATION TOTAL 6010.31

JOB LOG

SWIFT Services, Inc.

DATE 1/7/14 PAGE NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.
American Warrior		2-3		Tancoyo		cement / mg string		26487
								175sk EA-2 cement w/ 1/4" floater
								5 1/2" x 5.5" casing 121 joints 5086'
								Shrink 20.85% TD = 5100'
								Centralizers 1, 2, 3, 4, 6, 8, 10, 12, 14
								Brush 5, 11
0145								on loc TRK 114
0210								start 5 1/2" x 5.5" casing in well
0420								Drop ball - circulate
0510	3 3/4		12			200		Pump 500 gal mud flush
	3 3/4		20			200		Pump 20 bbl KCL flush
0521			7					Plug RH - MH 30sk - 20sk
0525	3 3/4		35			200		Mix EA-2 cement 125sk @ 15.3ppg
								Drop latch down plug
								wash out pump & line
0545	6					200		Displace plug
	6		110			750		
0600	6		121			1500		Land plug
0604								Release pressure to track - dried up
0608								wash truck
								Rack up
0645								job complete
								Fluko
								Blow, Flint & Rab





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Adam Folh

### **Tancayo #2-3**

#### **3-25s-31w Finney,KS**

Start Date: 2014.07.13 @ 07:00:15

End Date: 2014.07.13 @ 14:45:30

Job Ticket #: 59101                      DST #: 1

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

Printed: 2014.07.17 @ 15:30:24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Adam Folh

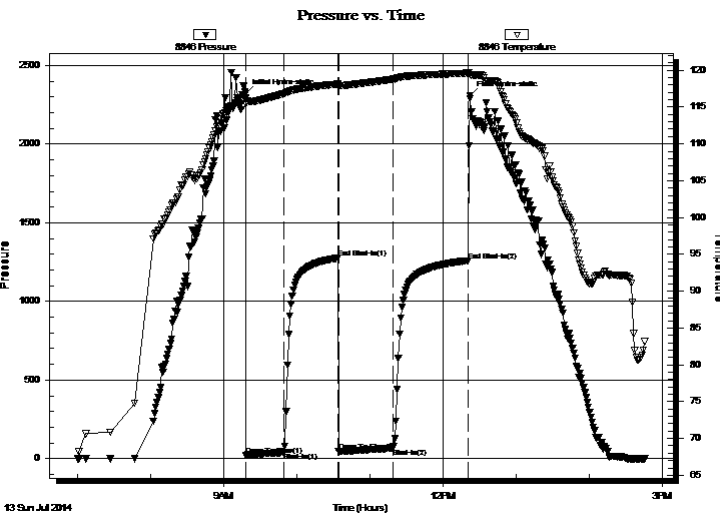
**3-25s-31w Finney,KS**  
**Tancayo #2-3**  
 Job Ticket: 59101 **DST#: 1**  
 Test Start: 2014.07.13 @ 07:00:15

## GENERAL INFORMATION:

Formation: **Pawnee-Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:18:30  
 Time Test Ended: 14:45:30  
 Interval: **4624.00 ft (KB) To 4670.00 ft (KB) (TVD)**  
 Total Depth: 4670.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 2871.00 ft (KB)  
 2861.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8846 Inside**  
 Press@RunDepth: 66.52 psig @ 4631.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.13 End Date: 2014.07.13 Last Calib.: 2014.07.13  
 Start Time: 07:00:15 End Time: 14:45:30 Time On Btm: 2014.07.13 @ 09:18:15  
 Time Off Btm: 2014.07.13 @ 12:22:00

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2320.09	116.20	Initial Hydro-static
1	21.78	115.43	Open To Flow (1)
32	40.10	116.80	Shut-In(1)
76	1276.45	118.11	End Shut-In(1)
76	45.50	117.88	Open To Flow (2)
121	66.52	118.76	Shut-In(2)
182	1259.97	119.60	End Shut-In(2)
184	2307.50	119.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	mud 100 % m	0.49

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**3-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67846

**Tancayo #2-3**

Job Ticket: 59101

**DST#: 1**

ATTN: Adam Folh

Test Start: 2014.07.13 @ 07:00:15

## Tool Information

Drill Pipe:	Length: 4372.00 ft	Diameter: 3.80 inches	Volume: 61.33 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4624.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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			4597.00	
Shut In Tool	5.00			4602.00	
Hydraulic tool	5.00			4607.00	
Jars	5.00			4612.00	
Safety Joint	3.00			4615.00	
Packer	5.00			4620.00	28.00 Bottom Of Top Packer
Packer	4.00			4624.00	
Stubb	1.00			4625.00	
Perforations	6.00			4631.00	
Recorder	0.00	8846	Inside	4631.00	
Recorder	0.00	8737	Outside	4631.00	
Change Over Sub	1.00			4632.00	
Blank Spacing	32.00			4664.00	
Change Over Sub	1.00			4665.00	
Bullnose	5.00			4670.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**3-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67846

**Tancayo #2-3**

Job Ticket: 59101

**DST#: 1**

ATTN: Adam Folh

Test Start: 2014.07.13 @ 07:00:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	mud 100 % m	0.492

Total Length: 100.00 ft      Total Volume: 0.492 bbl

Num Fluid Samples: 0

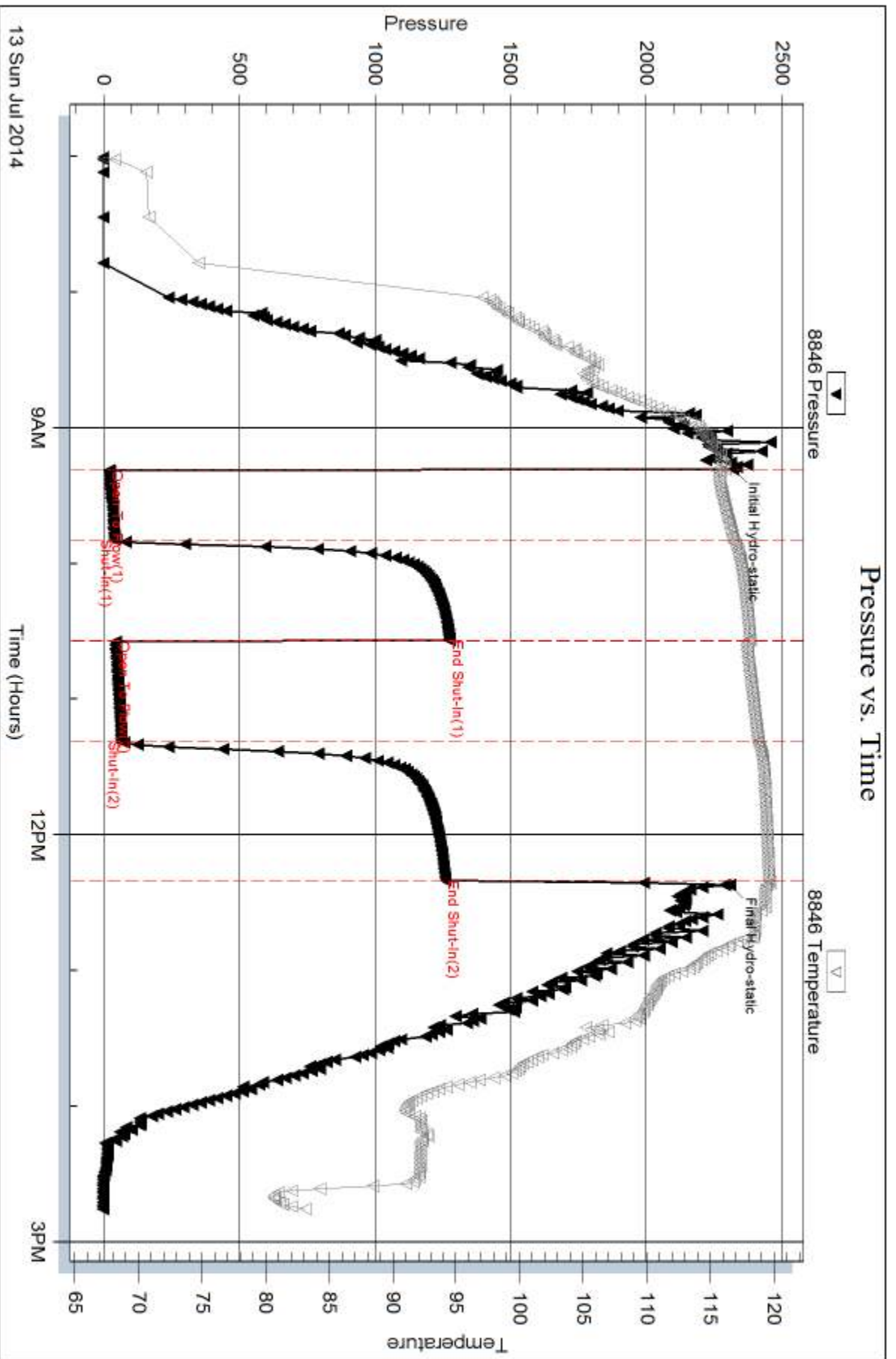
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

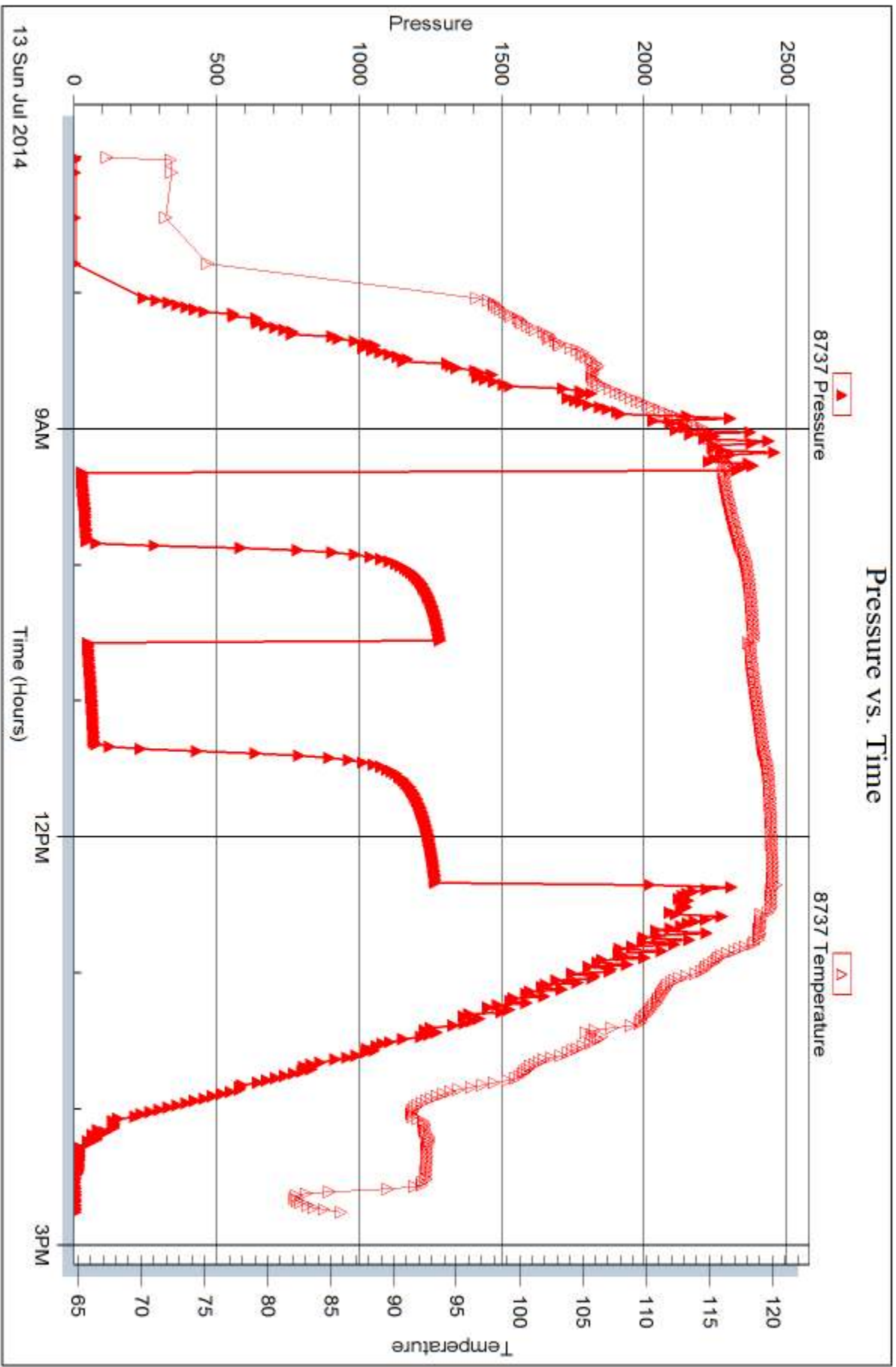


Serial #: 8737

Outside American Warrior Inc.

Tanceyo #2-3

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Adam Folh

### **Tancayo #2-3**

#### **3-25s-31w Finney,KS**

Start Date: 2014.07.14 @ 13:16:15

End Date: 2014.07.14 @ 20:05:30

Job Ticket #: 59102                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.17 @ 15:29:59





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Adam Folh

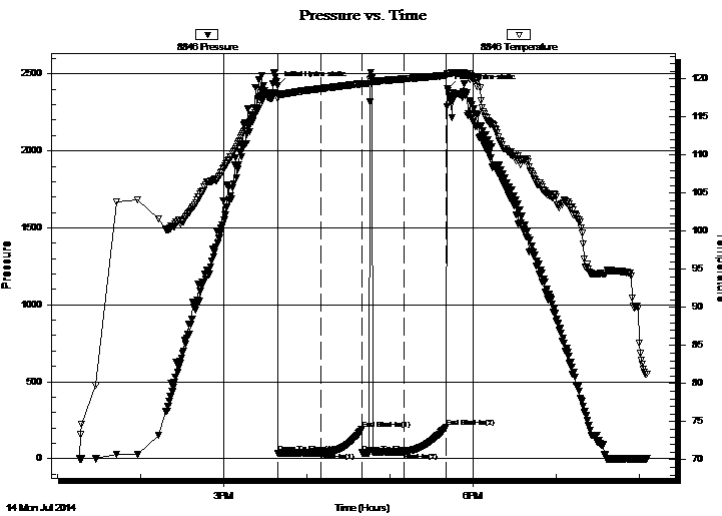
**3-25s-31w Finney,KS**  
**Tancayo #2-3**  
 Job Ticket: 59102 **DST#: 2**  
 Test Start: 2014.07.14 @ 13:16:15

## GENERAL INFORMATION:

Formation: **Marrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:39:00  
 Time Test Ended: 20:05:30  
 Interval: **4792.00 ft (KB) To 4848.00 ft (KB) (TVD)**  
 Total Depth: 4848.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 2871.00 ft (KB)  
 2861.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8846** **Inside**  
 Press@RunDepth: 43.52 psig @ 4795.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.14 End Date: 2014.07.14 Last Calib.: 2014.07.14  
 Start Time: 13:16:15 End Time: 20:05:30 Time On Btm: 2014.07.14 @ 15:38:45  
 Time Off Btm: 2014.07.14 @ 17:41:30

**TEST COMMENT:** IF:Weak surface blow that died in 5 min.  
 IS:No return blow  
 FF:No blow -----flushed tool-----no blow  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2425.75	118.09	Initial Hydro-static
1	36.09	117.47	Open To Flow (1)
32	38.11	118.73	Shut-In(1)
61	189.16	119.39	End Shut-In(1)
61	38.05	119.32	Open To Flow (2)
92	43.52	120.00	Shut-In(2)
122	205.11	120.48	End Shut-In(2)
123	2405.38	120.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**3-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67846

**Tancayo #2-3**

Job Ticket: 59102

**DST#: 2**

ATTN: Adam Folh

Test Start: 2014.07.14 @ 13:16:15

## Tool Information

Drill Pipe:	Length: 4528.00 ft	Diameter: 3.80 inches	Volume: 63.52 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 64.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4792.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	84.00 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			4765.00	
Shut In Tool	5.00			4770.00	
Hydraulic tool	5.00			4775.00	
Jars	5.00			4780.00	
Safety Joint	3.00			4783.00	
Packer	5.00			4788.00	28.00 Bottom Of Top Packer
Packer	4.00			4792.00	
Stubb	1.00			4793.00	
Perforations	2.00			4795.00	
Recorder	0.00	8846	Inside	4795.00	
Recorder	0.00	8737	Outside	4795.00	
Change Over Sub	1.00			4796.00	
Blank Spacing	31.00			4827.00	
Change Over Sub	1.00			4828.00	
Perforations	15.00			4843.00	
Bullnose	5.00			4848.00	56.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>84.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**3-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67846

**Tancayo #2-3**

Job Ticket: 59102

**DST#: 2**

ATTN: Adam Folh

Test Start: 2014.07.14 @ 13:16:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

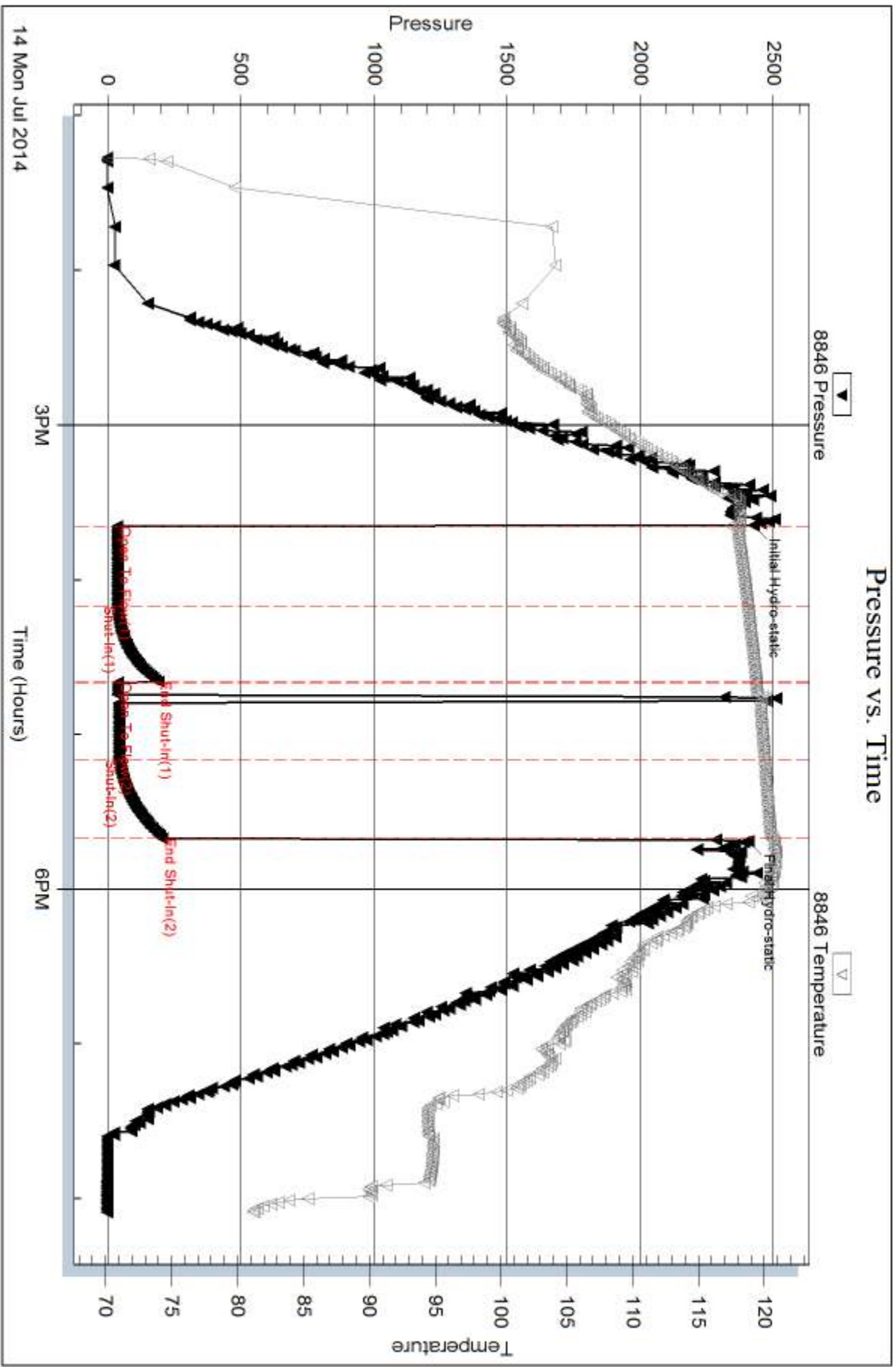
Num Gas Bombs: 0

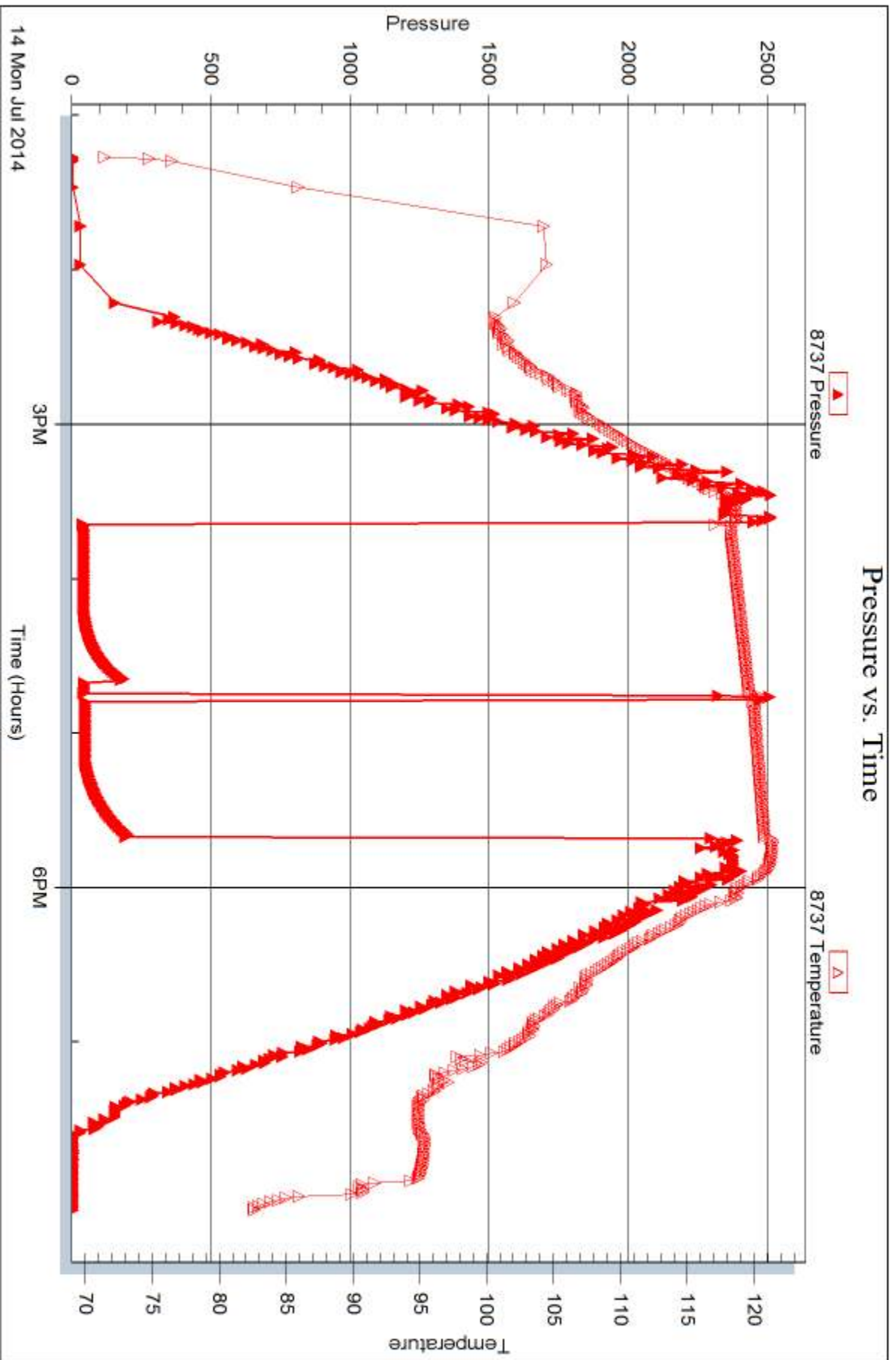
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Adam Folh

### **Tancayo #2-3**

#### **3-25s-31w Finney,KS**

Start Date: 2014.07.15 @ 08:34:15

End Date: 2014.07.15 @ 15:11:30

Job Ticket #: 59103                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.17 @ 15:29:17



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Adam Folh

**3-25s-31w Finney,KS**  
**Tancayo #2-3**  
 Job Ticket: 59103 **DST#: 3**  
 Test Start: 2014.07.15 @ 08:34:15

## GENERAL INFORMATION:

Formation: **St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:43:30  
 Time Test Ended: 15:11:30  
 Interval: **4904.00 ft (KB) To 4935.00 ft (KB) (TVD)**  
 Total Depth: 4935.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 2871.00 ft (KB)  
 2861.00 ft (CF)  
 KB to GR/CF: 10.00 ft

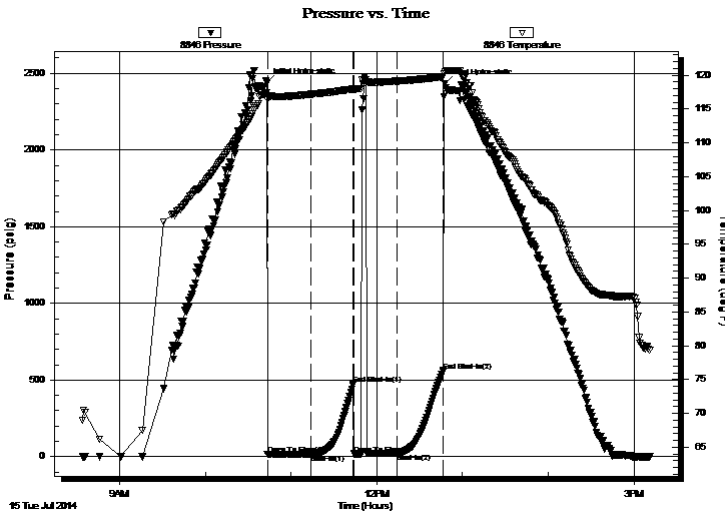
## Serial #: 8846

Inside

Press@RunDepth: 22.56 psig @ 4930.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.15 End Date: 2014.07.15 Last Calib.: 2014.07.15  
 Start Time: 08:34:15 End Time: 15:11:30 Time On Btm: 2014.07.15 @ 10:43:15  
 Time Off Btm: 2014.07.15 @ 12:47:45

TEST COMMENT: IF:Weak surface blow that died in 10 min.  
 IS: No return blow  
 FF:No blow -----flushed tool---no blow  
 FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2437.57	117.42	Initial Hydro-static
1	16.75	116.40	Open To Flow (1)
31	18.05	117.18	Shut-In(1)
61	474.04	117.94	End Shut-In(1)
61	18.50	117.86	Open To Flow (2)
91	22.56	119.13	Shut-In(2)
124	560.69	119.76	End Shut-In(2)
125	2433.90	120.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**3-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67846

**Tancayo #2-3**

Job Ticket: 59103

**DST#: 3**

ATTN: Adam Folh

Test Start: 2014.07.15 @ 08:34:15

## Tool Information

Drill Pipe:	Length: 4654.00 ft	Diameter: 3.80 inches	Volume: 65.28 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 66.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4904.00 ft			Final 72000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4877.00	
Shut In Tool	5.00			4882.00	
Hydraulic tool	5.00			4887.00	
Jars	5.00			4892.00	
Safety Joint	3.00			4895.00	
Packer	5.00			4900.00	28.00 Bottom Of Top Packer
Packer	4.00			4904.00	
Stubb	1.00			4905.00	
Perforations	25.00			4930.00	
Recorder	0.00	8846	Inside	4930.00	
Recorder	0.00	8737	Outside	4930.00	
Bullnose	5.00			4935.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**3-25s-31w Finney,KS**

PO Box 399  
Garden City KS 67846

**Tancayo #2-3**

Job Ticket: 59103

**DST#: 3**

ATTN: Adam Folh

Test Start: 2014.07.15 @ 08:34:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

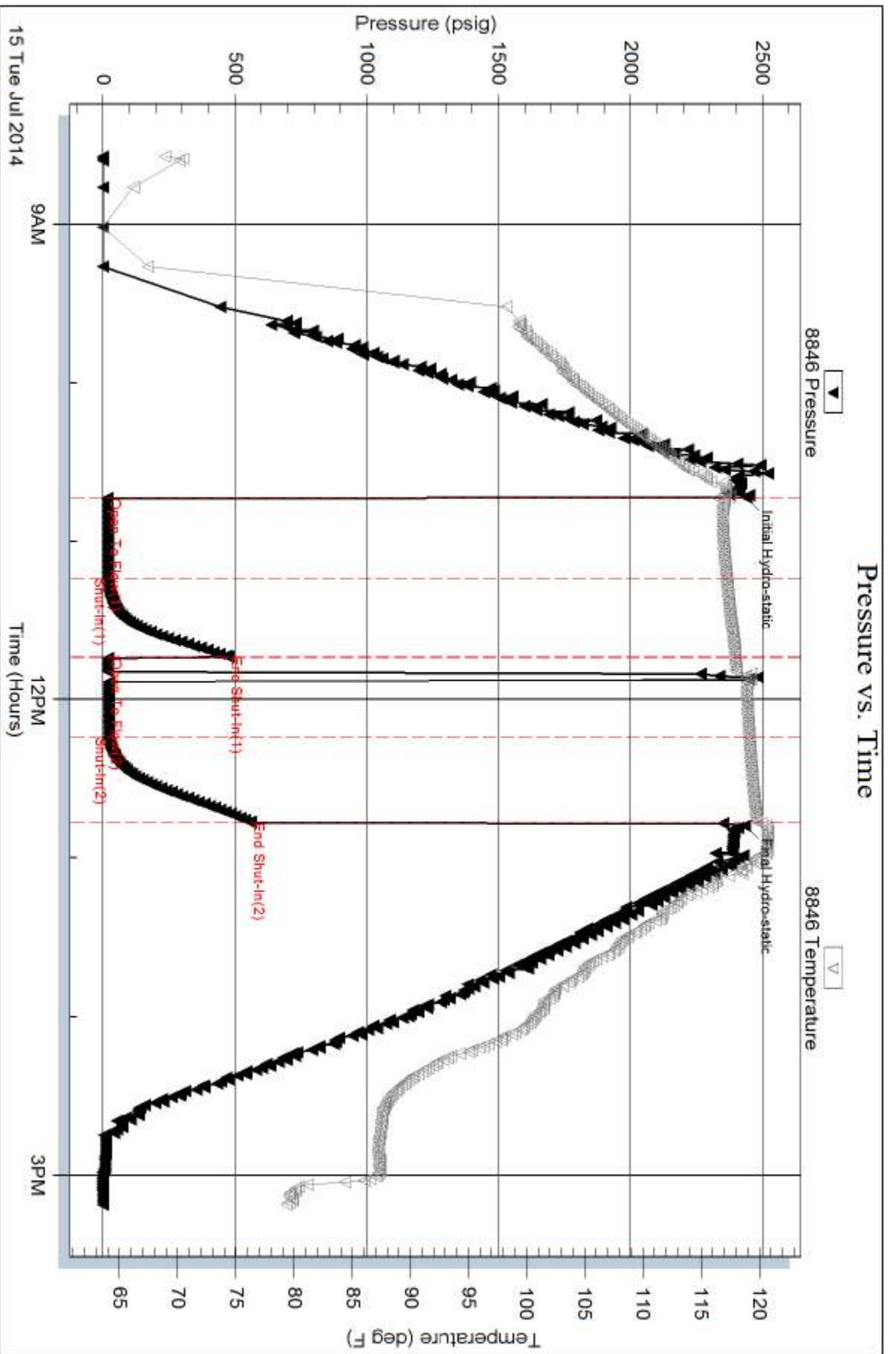
Serial #: 8846

Inside

American Warrior Inc.

Tançayo #2-3

DST Test Number: 3



Triobrite Testing, Inc

Ref. No: 59103

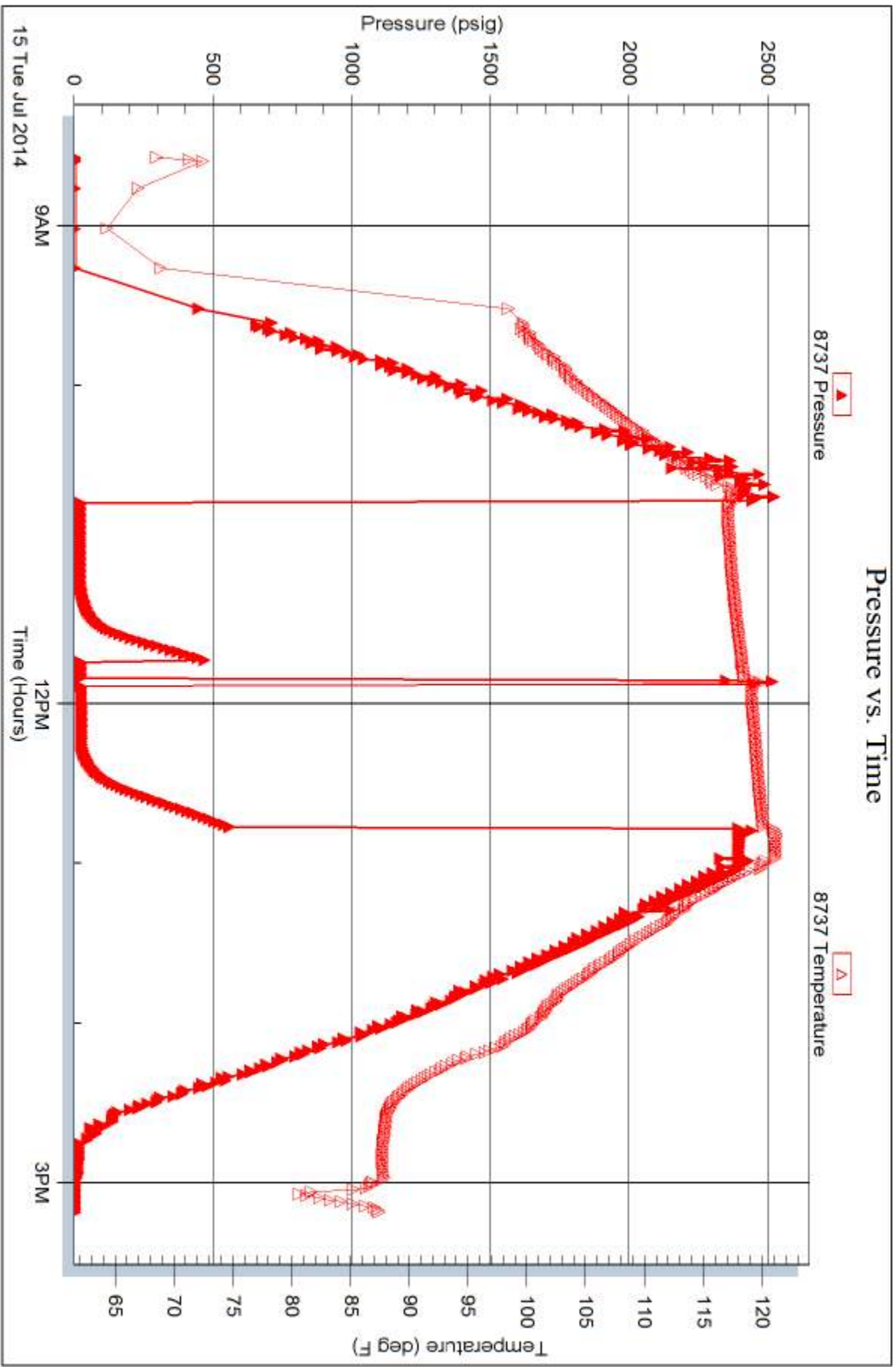
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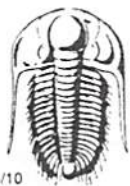
Serial #: 8737

Outside American Warrior Inc.

Tanceyo #2-3

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59101

Well Name & No. Tancayo # 2-3 Test No. 1 Date 7-13-14  
 Company American Warrior Inc Elevation ~~2871~~ 2861 KB 2861 GL  
 Address 3118 Cummings Rd. P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Adam Folk Rig Duke 5  
 Location: Sec. 3 Twp. 25 Rge. 31 Co. Finney State KS

Interval Tested 4624-4670 Zone Tested Pawnee-Cherokee  
 Anchor Length 46 Drill Pipe Run 4372 Mud Wt. 9.2  
 Top Packer Depth 4519 Drill Collars Run 242 Vis 0.56  
 Bottom Packer Depth 4624 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4670 Chlorides 3900 ppm System LCM 2

Blow Description IF: Built to 1" Blow  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

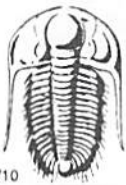
Rec Total 100 BHT 120 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2320  Test 1250.00 T-On Location 05:15  
 (B) First Initial Flow 21  Jars 250.00 T-Started 07:00  
 (C) First Final Flow 40  Safety Joint 75.00 T-Open 09:20  
 (D) Initial Shut-In 1276  Circ Sub NC T-Pulled 12:20  
 (E) Second Initial Flow 45  Hourly Standby \_\_\_\_\_ T-Out 14:45  
 (F) Second Final Flow 66  Mileage 100 RT 155.00 Comments \_\_\_\_\_  
 (G) Final Shut-In 1259  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2307  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1730.00  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total \$1730.00

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59102

Well Name & No. Tancayo #2-3 Test No. 2 Date 7-14-14  
 Company American Warrior Inc. Elevation 2871 KB 2861 GL  
 Address 3118 Cummings Rd. P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Adam Foltz Rig Duke 5  
 Location: Sec. 3 Twp. 25 Rge. 31 Co. Finney State KS

Interval Tested 4792-4848 Zone Tested Marrow  
 Anchor Length 54 Drill Pipe Run 4528 Mud Wt. 9.4  
 Top Packer Depth 4467 Drill Collars Run 242 Vis 1250  
 Bottom Packer Depth 4472 Wt. Pipe Run Ø WL 11.2  
 Total Depth 4848 Chlorides 3100 ppm System LCM 2

Blow Description IF: Weak Surface Blows Died in 5 Min  
IS: No ~~Blow~~ Return Blow  
FF: No Blow — Flushed Tool — No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2425</u>	<input checked="" type="checkbox"/> Test <u>1250.00</u>	T-On Location <u>12:15</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>13:16</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>15:40</u>
(D) Initial Shut-In <u>189</u>	<input type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>17:40</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:05</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>100 RT = 155.00</u>	Comments
(G) Final Shut-In <u>205</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2405</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

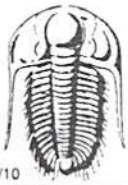
Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1730.00

Total 1730.00  
 MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59103

Well Name & No. Tamayo #2-3 Test No. 3 Date 7-15-14  
 Company American Warrior Inc Elevation 2871 KB 2861 GL  
 Address 3118 Cummings Rd. P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke 5  
 Location: Sec. 3 Twp. 25 Rge. 31 Co. Finney State KS

Interval Tested 4904-4935 Zone Tested St. Louis  
 Anchor Length 31 Drill Pipe Run 4654 Mud Wt. 9.4  
 Top Packer Depth 4899 Drill Collars Run 242 Vis 50  
 Bottom Packer Depth 4904 Wt. Pipe Run Ø WL 11.2  
 Total Depth 4935 Chlorides 3100 ppm System LCM 2  
 Blow Description IF: Weak Surface Blow Died in 10 Min.  
IS: No Return Blow  
FF: No Blow - - - Flushed Tool - No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2437  Test 1250.00 T-On Location 08:00  
 (B) First Initial Flow 16  Jars 250.00 T-Started 08:34  
 (C) First Final Flow 18  Safety Joint 75.00 T-Open 10:43  
 (D) Initial Shut-In 474  Circ Sub NC T-Pulled 12:43  
 (E) Second Initial Flow 18  Hourly Standby \_\_\_\_\_ T-Out 15:11  
 (F) Second Final Flow 22  Mileage 100 RT = 155.00 Comments Loaded tools  
 (G) Final Shut-In 560  Sampler 155 at 5:00 pm  
 (H) Final Hydrostatic 2433  Straddle \_\_\_\_\_ 7-16-14

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Day Standby 1d 1.75h Total 2685.00  
 Accessibility 1885.00 MP/DST Disc't \_\_\_\_\_  
 Sub Total \$1730.00

Approved By \_\_\_\_\_ Our Representative Mike Rohrb

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# **Geological Report**

American Warrior, Inc.

## **Tancayo #2-3**

2274' FSL & 2258' FWL

Sec. 3, T25s, R31w

Finney County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Tancayo #2-3  
2274' FSL & 2258' FWL  
Sec. 3, T25s, R31w  
Finney County, Kansas  
API # 15-055-22316-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Adam Folk & Kevin Timson

Spud Date: July 6, 2014

Completion Date: July 17, 2014

Elevation 2862' G.L.  
2873' K.B.

Directions: From Garden City Airport. Go SE on Hwy 50 1.3 miles to gated lease road and ingress West into.

Casing: 1698' 8 5/8" #24 Surface Casing  
5086' 5 1/2" #15.5 Production Casing

Samples: 4500' to RTD 10' Wet & Dry

Drilling Time: 3950' to RTD

Electric Logs: Pioneer Energy Services "J. Long"  
Stacked-Micro

Drillstem Tests: Three-Trilobite Testing "Mike Roberts"

Problems: None

## Formation Tops

Tancayo #2-3

Sec. 3, T25s, R31w

2274' FSL & 2258' FWL

<b>Anhydrite</b>	<b>1898' +975</b>
<b>Base</b>	<b>1974' +899</b>
<b>Heebner</b>	<b>4000' -1127</b>
<b>Lansing</b>	<b>4059' -1186</b>
<b>Stark</b>	<b>4412' -1539</b>
<b>Bkc</b>	<b>4536' -1663</b>
<b>Marmaton</b>	<b>4556' -1683</b>
<b>Pawnee</b>	<b>4639' -1766</b>
<b>Fort Scott</b>	<b>4663' -1790</b>
<b>Cherokee</b>	<b>4679' -1806</b>
<b>Morrow</b>	<b>4842' -1969</b>
<b>Miss</b>	<b>4860' -1987</b>
<b>RTD</b>	<b>5100' -2227</b>
<b>LTD</b>	<b>5100' -2227</b>

## Sample Zone Descriptions

**St. Louis** (4860', -1987): Covered in DST #3

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Poor stain. No saturation. No odor. No show of free oil.

## Drill Stem Tests

Trilobite Testing

“Mike Roberts”

### DST #1

#### Pawnee to Cherokee

Interval (4624' – 4670') Anchor Length 46'

IHP - 2320 #

IFP - 30" – WSB built to 1" 21-40 #

ISI - 45" – No return 1276 #

FFP - 45" – No blow 45-66 #

FSIP - 60" – No return 1259 #

FHP - 2307 #

BHT - 120° F

Recovery: 100' Mud

### DST #2

#### Morrow

Interval (4792' – 4848') Anchor Length 56'

IHP - 2425 #

IFP - 30" – WSB died in 5 min 36-38 #

ISI - 30" – No return 189 #

FFP - 30" – No blow, flushed tool, no blow 38-43 #

FSIP - 30" – No return 205 #

FHP - 2405 #

BHT - 121° F

Recovery: 5' Mud

### DST #3

#### St. Louis

Interval (4904' – 4935') Anchor Length 31'

IHP - 2437 #

IFP - 30" – WSB died in 10 min 16-18 #

ISI - 30" – No return 474 #

FFP - 30" – No blow, flushed tool, no blow 18-22 #

FSIP - 30" – No return

FHP - 2433 #

BHT - 121° F

Recovery: 5' Mud

## Structural Comparison

	American Warrior, Inc. Tancayo #2-3 Sec. 3, T25s, R31w 2274' FSL & 2258' FWL		American Warrior, Inc. Tancayo #1-3 Sec. 3, T25s, R31w 1959' FSL & 2084' FEL		American Warrior, Inc. Clark #3-2 Sec 2, T25s, R31w 2165' FSL & 1738' FEL
<b>Formation</b>					
Heebner	4000' -1127	+1	3976' -1128	+17	3983' -1144
Lansing	4059' -1186	-4	4030' -1182	+7	4032' -1193
Stark	4412' -1539	+2	4389' -1541	+19	4397' -1558
BKC	4536' -1663	+5	4516' -1668	+26	4528' -1689
Marmaton	4556' -1683	+11	4542' -1694	+30	4552' -1713
Pawnee	4639' -1766	+1	4615' -1767	+20	4625' -1786
Fort Scott	4663' -1790	+1	4639' -1791	+17	4646' -1807
Cherokee	4679' -1806	+2	4656' -1808	+8	4653' -1814
Morrow	4842' -1969	+1	4818' -1970	+12	4820' -1981
Miss	4860' -1987	+1	4836' -1988	+17	4843' -2004

### Summary

The location for the Tancayo #2-3 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to attempt to shoot St. Louis lower and upper. After exhausting pay zones convert well into SWDW.

### Perforations

**Primary: St. Louis (5011' – 5019')**

**Secondary: St. Louis (4943' – 4946')**

**Secondary: St. Louis (4928' – 4932')**

**Disposal: Platsmouth (3978' – 3998')**

**Before Abd: Fort Scott (4670' – 4675')**

Respectfully Submitted,

Kevin Timson

