



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1216630  
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: \_\_\_\_\_

1216630

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Tancayo 1-3
Doc ID	1216630

Tops

Name	Top	Datum
Anhy	1875'	+973
B/Anhy	1950'	+898
Heebner	3976'	-1128
Lansing	4030'	-1182
Stark	4389'	-1541
B/KC	4516'	-1668
Ft.Scott	4639'	-1791
Morrow	4818'	-1970
Mississippian	4836'	-1988



**CEMENTING LOG**

Date 6/1/2014 District Liberal # 21 Ticket No. 52772  
 Company American Warrior Rig Duke # 10  
 Lease TanCayo Well No 1-3  
 County Finney State KS  
 Location \_\_\_\_\_  
 Field \_\_\_\_\_  
 Casing Data  Conductor  PTA  Squeeze  Misc.  
 Surface  Intermediate  Production  Liner  
 Size 8 5/8 Type \_\_\_\_\_ Weight 24# Collar \_\_\_\_\_

CEMENT DATA

Spacer Type H2O  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 LEAD: Time \_\_\_\_\_ hrs. Type 65/35 6% gel 3% CC  
.5# flo seal Excess \_\_\_\_\_  
 Amt. 700 Sks Yield 1.97 ft<sup>3</sup>/sk Density 12.4 PPG  
 TAIL: Time \_\_\_\_\_ hrs. Type Class A 3%CC .25# flo Seal  
 Excess \_\_\_\_\_  
 Amt. 200 Sks Yield 1.18 ft<sup>3</sup>/sk Density 15.6 PPG  
 WATER Lead 10.9 Gal/sk Tail 5.3 Gal/sk Total \_\_\_\_\_ BBLs

Casing Depths Top 0 Bottom 1676

Pump Trucks Used: 956-550  
 Bulk Equipment 774-744  
869-554

Drill Pipe: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Open Hole: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Capacity Factors: BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.7  
 Casing BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.7  
 Open Holes BBLs/LIN. FT 0.1458 LIN. FT/BBL 6.85  
 Drill Pipe BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Annulus BBLs/LIN. FT 0.0735 LIN. FT/BBL 13.6  
 BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

Float Equipment: Manufacturer Weather Ford  
 Shoe: Type Guide Shoe Depth 1742  
 Float: Type AFU Insert Float Depth 1700  
 Centralizers: Quantity 3 Plugs Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equipment Cement Basket  
 Disp: Fluid Type H2O Amt 108.3 bbls Weight 8.33 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Lenny Baeza

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
3:30am						On location @ 3:30am
						Rigging up to well head
5:30am						Safety meeting with rig crew
6:50am	2000					Pressure testing pumping lines to 2000 psi
6:51am	200		10		5	10 bbls of H2O head of cement
6:53am	220		259		5	Mixing lead cement @ 12.4#
7:33am	180		301		4	Mixing Tail cement @ 15.6#
7:46am	0		0		0	End of cement shutting down to release plug
7:50am	120		301		5	Plug left the head and started displacement of 103.9bbls
7:58am	140		451		6	50 bbls gone Cement to surface
8:06am	600		401		5	100 bbls gone 5bpm @ 600 psi
8:15am	1200		404		3	103.9 bbls gone and landed the plug bumped to 1000 psi and holding
						released the psi and float holding
						50 BBLs of cement to surface
						rigging down iron
						Leaving location @ 9:00am
						THANK YOU !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!1

FINAL DISP. PRESS. 600 PSI BUMP PLUG TO 1000 PSI BLEEDBACK 0.5 BBLs THANK YOU



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

TICKET 26337

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Locality KS WELL/PROJECT NO. 1-3 LEASE Tancayo COUNTY/PARISH Finney STATE KS CITY Garden City DATE 10 Jan 14 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR Duke RIG NAME/NO. 10 SHIPPED VIA CT DELIVERED TO location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement log 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	90		6.00	540.00
578		1			Pump Charge			1 ea		1500.00	1500.00
402		1			Centralizer			5 1/2 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 & Gaffle			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.  
1300

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

PAGE TOTAL	3920.00
	6098.13
Subtotal	10,018.13
Finney TAX 7.3%	496.66
TOTAL	10,514.79

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

SWIFT OPERATOR APeybell APPROVAL

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 70 Jun 14 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-3 LEASE Tancayo JOB TYPE cement long string TICKET NO. 26337

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SA-2 cement w/ 7" floccle 5 1/2" x 17" casing - (9 joint 15.5") TD = 5050 120, ts 5058'
	0230							on loc TRK 114
	0740							start 5 1/2" x 17" casing in well
	1000							Drop ball - circulate
	1110	4	20				200	Pump 500 gal mud flush
		4	12				200	Pump 20 bbl KCL flush
	1118		7					Plug RH - MH <del>20sk</del> - <del>20sk</del>
	1125	4 1/2	35				200	Mix SA-2 cement <del>125sk</del> @ 15.3 ppg
	1141							Drop latch down plug wash out pump & line
	1146	6					200	Displace plug
		6	111				650	
	1200	6	117				1600	Land plug
	1203							Release pressure to truck - dried up
	1209							wash truck
								Rack up
	1245							job complete
								Thanks Blaine, Flint, & Isaac







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**3-25s-31w Finney co.**

3118 Cummings Rd  
PO Box 399  
Garden City, Ks 67846  
ATTN: Kevin Timson

**Tancayo #1-3**

Job Ticket: 57332

**DST#: 2**

Test Start: 2014.06.06 @ 07:18:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 10.39 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Mud 100m	2.805

Total Length: 200.00 ft      Total Volume: 2.805 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

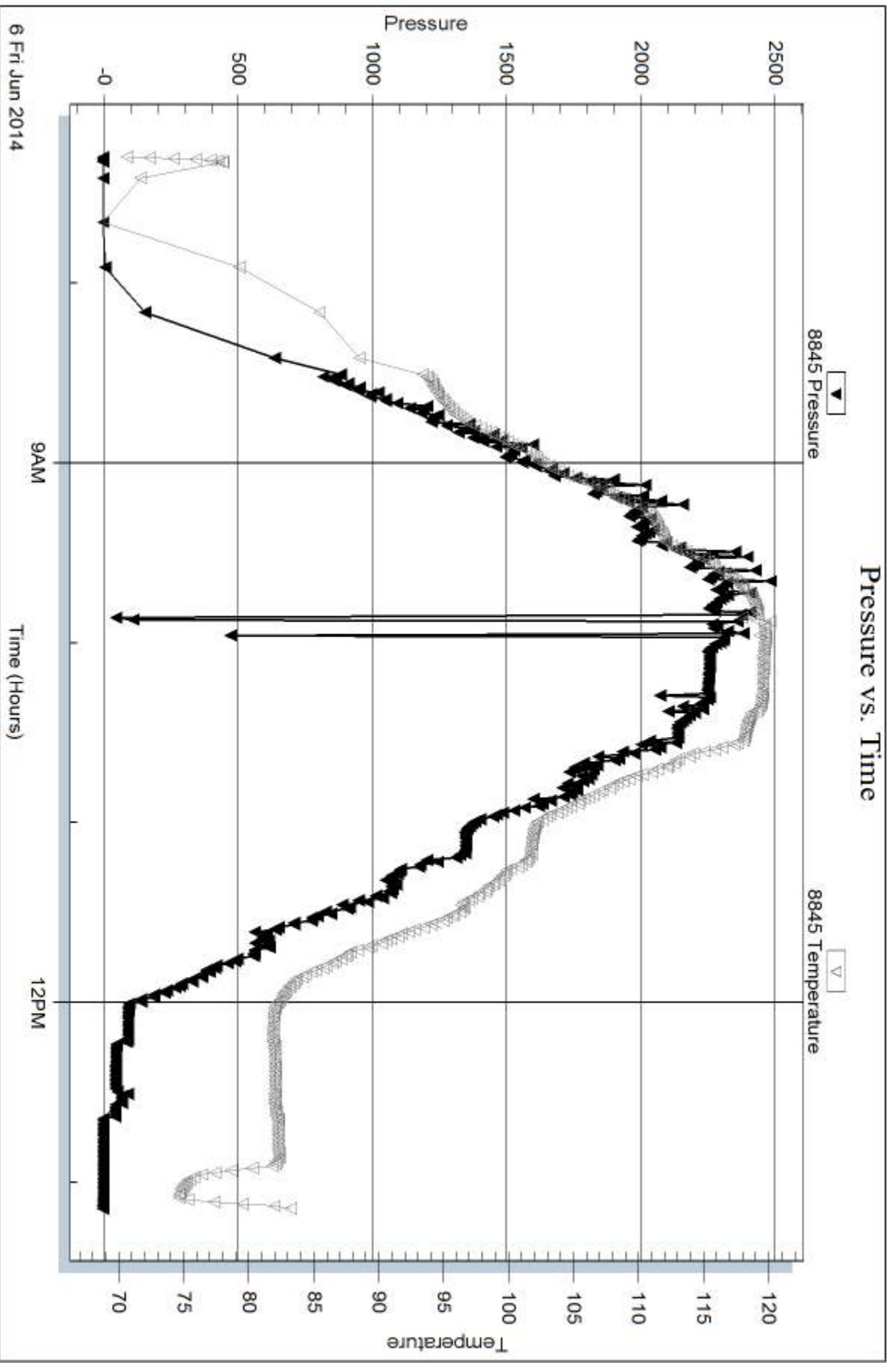
Recovery Comments:

Serial #: 8845

Outside American Warrior, Inc.

Tancayo #1-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 57332

Printed: 2014.06.06 @ 14:42:14

# **Geological Report**

American Warrior, Inc.

## **Tancayo #1-3**

1959' FSL & 2084' FEL

Sec. 3, T25s, R31w

Finney County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Tancayo #1-3  
1959' FSL & 2084' FEL  
Sec. 3, T25s, R31w  
Finney County, Kansas  
API # 15-055-22310-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: May 31, 2014

Completion Date: June 10, 2014

Elevation 2837' G.L.  
2848' K.B.

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

Casing: 1664' 8 5/8" #24 Surface Casing  
5050' 5 1/2" #15.5 Production Casing

Samples: 3950' to RTD 10' Wet & Dry

Drilling Time: 3950' to RTD

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

Drillstem Tests: Four-Trilobite Testing "Sam Esparza"

Problems: All four tests misrun, due to hole in hydraulic tool.

## Formation Tops

Tancayo #1-3

Sec. 3, T25s, R31w

1959' FSL & 2084' FEL

<b>Anhydrite</b>	<b>1875' +973</b>
<b>Base</b>	<b>1950' +898</b>
<b>Heebner</b>	<b>3976' -1128</b>
<b>Lansing</b>	<b>4030' -1182</b>
<b>Stark</b>	<b>4389' -1541</b>
<b>Bkc</b>	<b>4516' -1668</b>
<b>Marmaton</b>	<b>4542' -1694</b>
<b>Pawnee</b>	<b>4615' -1767</b>
<b>Fort Scott</b>	<b>4639' -1791</b>
<b>Cherokee</b>	<b>4656' -1808</b>
<b>Morrow</b>	<b>4818' -1970</b>
<b>Miss</b>	<b>4836' -1988</b>
<b>RTD</b>	<b>5050' -2202</b>
<b>LTD</b>	<b>5048' -2200</b>

## Sample Zone Descriptions

**St. Louis** (4836', -1988): Not tested

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

## Structural Comparison

	American Warrior, Inc. Tancayo #1-3 Sec. 3, T25s, R31w 1959' FSL & 2084' FEL		American Warrior, Inc. Clark #4-2 Sec. 2, T25s, R31w 2046' FSL & 2309' FEL		American Warrior, Inc. Clark #3-2 Sec 2, T25s, R31w 2165' FSL & 1738' FEL
<b>Formation</b>					
Heebner	3976' -1128	+21	3999' -1149	+16	3983' -1144
Lansing	4030' -1182	+13	4045' -1195	+11	4032' -1193
Stark	4389' -1541	+18	4409' -1559	+17	4397' -1558
BKC	4516' -1668	+21	4539' -1689	+21	4528' -1689
Marmaton	4542' -1694	+22	4566' -1716	+19	4552' -1713
Pawnee	4615' -1767	+19	4636' -1786	+19	4625' -1786
Fort Scott	4639' -1791	+17	4658' -1808	+16	4646' -1807
Cherokee	4656' -1808	+17	4675' -1825	+6	4653' -1814
Morrow	4818' -1970	+15	4835' -1985	+11	4820' -1981
Miss	4836' -1988	+19	4857' -2007	+16	4843' -2004

### Summary

The location for the Tancayo #1-3 well was found via 3-D seismic survey. The new well ran structurally as expected. Four drill stem tests were conducted, all were misruns. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Tancayo #1-3 well.

### Perforations

**Primary: St. Louis (4994' – 4999')**

**Secondary: St. Louis (4898' – 4902')**

**Before Abd: Pawnee (4616' – 4622')**

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.

