



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1203784  
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: \_\_\_\_\_

1203784

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	FBK Unit 1
Doc ID	1203784

Tops

Name	Top	Datum
Anhydrite	1424	734
Heebner	3619	-1461
Lansing	3662	-1504
Base Kansas City	3979	-1821
Ft. Scott	4134	-1976
Pawnee	4057	-1899
Ft. Scott	4134	-1976
Cherokee	4153	-1995
Mississippian	4221	-2063
TD	4236	-2078



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **FBK Unit #1**

#### **18-18s-21w Ness,KS**

Start Date: 2014.01.16 @ 22:10:00

End Date: 2014.01.17 @ 05:48:45

Job Ticket #: 55498                      DST #: 1

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

Printed: 2014.01.21 @ 14:06:44



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**18-18s-21w Ness, KS**

PO Box 399  
Garden City KS 67846

**FBK Unit #1**

Job Ticket: 55498

**DST#: 1**

ATTN: Jason Alm

Test Start: 2014.01.16 @ 22:10:00

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:00:00

Time Test Ended: 05:48:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 4224.00 ft (KB) To 4233.00 ft (KB) (TVD)**

Reference Elevations: 2158.00 ft (KB)

Total Depth: 4233.00 ft (KB) (TVD)

2152.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 169.09 psig @ 4225.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.16

End Date:

2014.01.17

Last Calib.: 2014.01.17

Start Time: 22:10:05

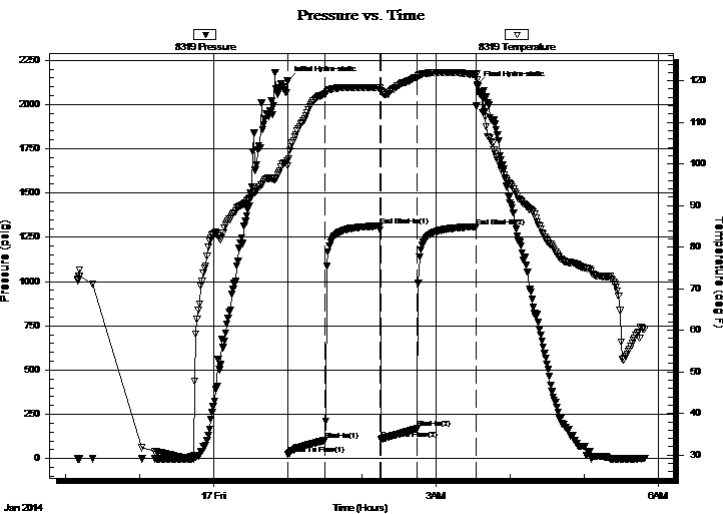
End Time:

05:48:44

Time On Btm: 2014.01.17 @ 00:59:45

Time Off Btm: 2014.01.17 @ 03:33:15

**TEST COMMENT:** IF-BOB in 12 min  
IS-1/4" blow  
FF-3" blow head loose built to 8"  
FS-1/4" blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.82	100.76	Initial Hydro-static
1	25.95	99.60	Open To Flow (1)
31	104.55	116.77	Shut-In(1)
75	1314.71	118.27	End Shut-In(1)
76	110.76	117.56	Open To Flow (2)
105	169.09	120.82	Shut-In(2)
153	1310.64	121.37	End Shut-In(2)
154	2109.46	120.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSWMCO 20%G 55%O 5%W 10%M	0.59
300.00	GO 30%G 70%O	4.21
0.00	300ft 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

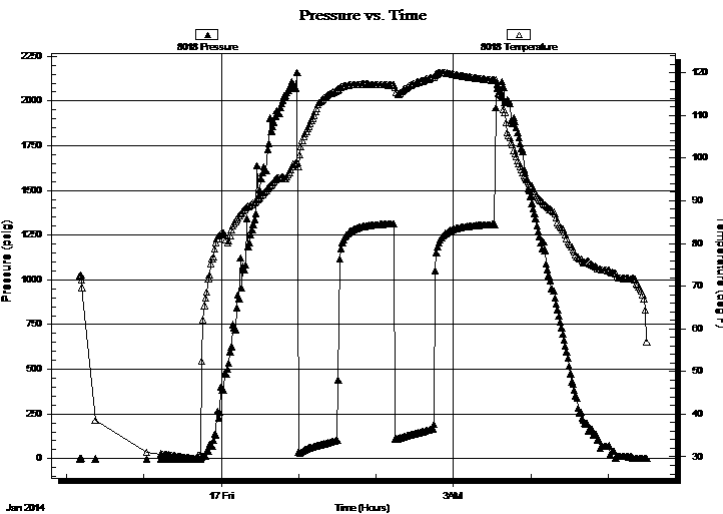
**18-18s-21w Ness, KS**  
**FBK Unit #1**  
Job Ticket: 55498 **DST#: 1**  
Test Start: 2014.01.16 @ 22:10:00

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:00:00  
Time Test Ended: 05:48:45  
Interval: **4224.00 ft (KB) To 4233.00 ft (KB) (TVD)**  
Total Depth: 4233.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2158.00 ft (KB)  
2152.00 ft (CF)  
KB to GR/CF: 6.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brett Dickinson  
Unit No: 59

**Serial #: 8018** **Inside**  
Press@RunDepth: psig @ 4225.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.16 End Date: 2014.01.17 Last Calib.: 2014.01.17  
Start Time: 22:10:05 End Time: 05:29:44 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF-BOB in 12 min  
IS-1/4" blow  
FF-3" blow head loose built to 8"  
FS-1/4" blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSWMCO 20%G 55%O 5%W 10%M	0.59
300.00	GO 30%G 70%O	4.21
0.00	300ft 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.

**18-18s-21w Ness, KS**

PO Box 399  
Garden City KS 67846

**FBK Unit #1**

Job Ticket: 55498

**DST#: 1**

ATTN: Jason Alm

Test Start: 2014.01.16 @ 22:10:00

## Tool Information

Drill Pipe:	Length: 4096.00 ft	Diameter: 3.80 inches	Volume: 57.46 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4224.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 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			4197.00	
Shut In Tool	5.00			4202.00	
Hydraulic tool	5.00			4207.00	
Jars	5.00			4212.00	
Safety Joint	2.00			4214.00	
Packer	5.00			4219.00	28.00 Bottom Of Top Packer
Packer	5.00			4224.00	
Stubb	1.00			4225.00	
Recorder	0.00	8018	Inside	4225.00	
Recorder	0.00	8319	Outside	4225.00	
Perforations	5.00			4230.00	
Bullnose	3.00			4233.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**18-18s-21w Ness,KS**

PO Box 399  
Garden City KS 67846

**FBK Unit #1**

Job Ticket: 55498

**DST#: 1**

ATTN: Jason Alm

Test Start: 2014.01.16 @ 22:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	VSWMCO 20%G 55%O 5%W 10%M	0.590
300.00	GO 30%G 70%O	4.208
0.00	300ft GIP	0.000

Total Length: 420.00 ft      Total Volume: 4.798 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

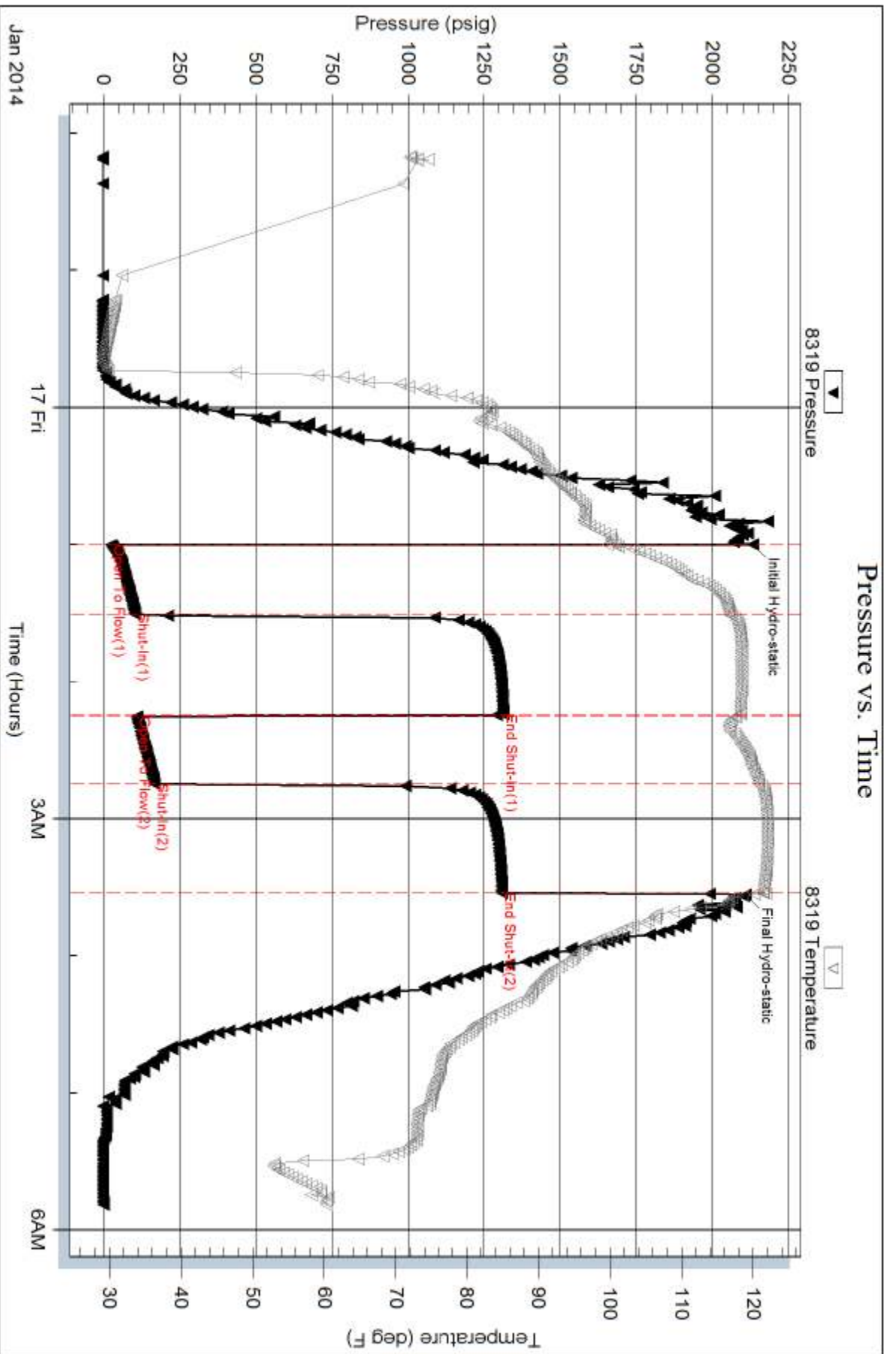
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





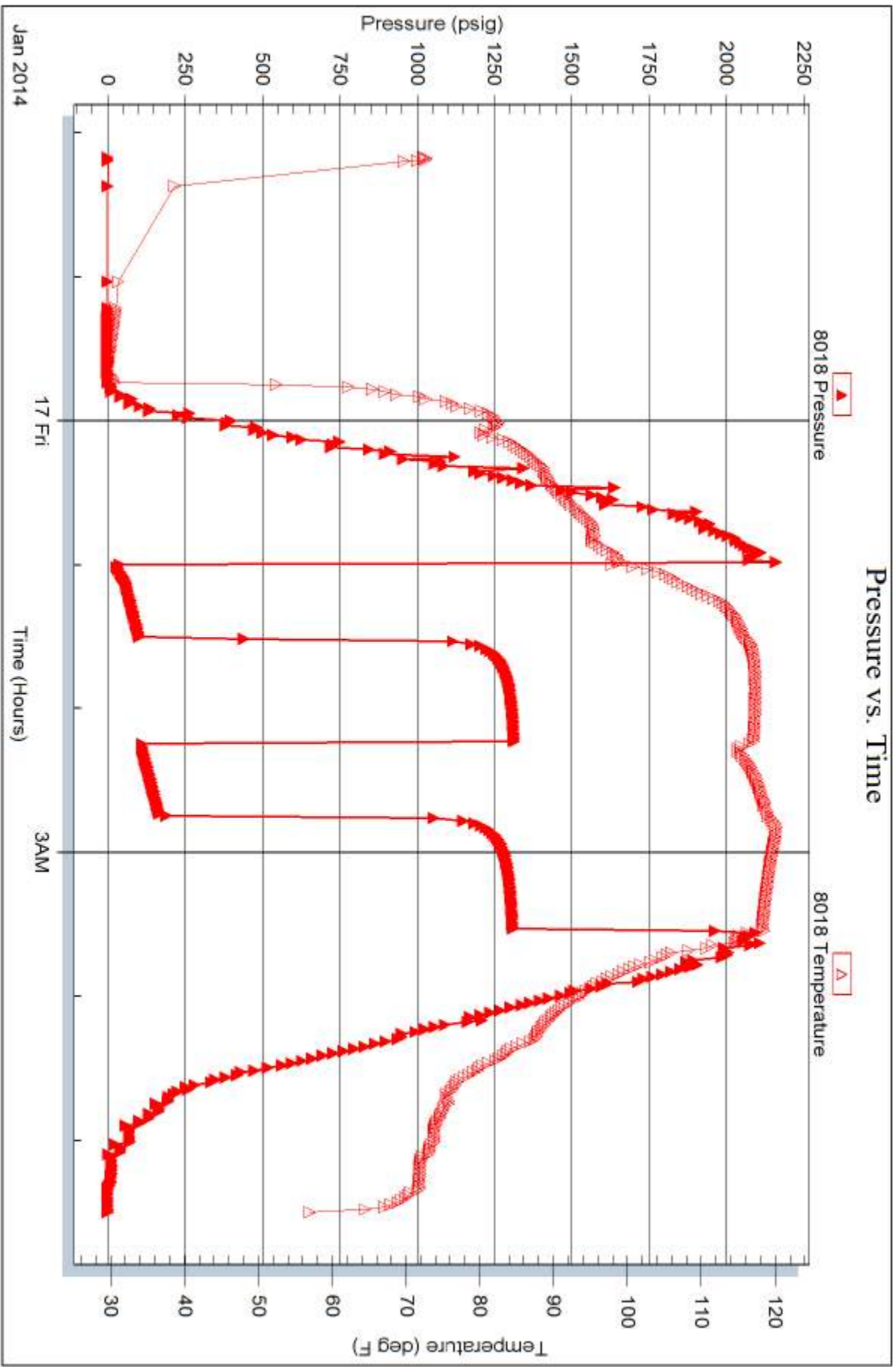
Serial #: 8018

Inside

American Warrior, Inc.

FBK Unit #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 55498

Printed: 2014.01.21 @ 14:06:46



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55498**

4/10

Well Name & No. FBK Unit #1 Test No. 1 Date 1/10/14  
 Company American Warrior, Inc Elevation 2158 KB 2152 GL  
 Address PO BOX 399 Garden City KS 67846  
 Co. Rep / Geo. Jason Alm Rig Petromark  
 Location: Sec. 18 Twp. 18S Rge. 2W Co. Ness State KS

Interval Tested 4224 - 4233 Zone Tested Miss  
 Anchor Length 9 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.2  
 Top Packer Depth 4219 Drill Collars Run -120 Vis 55  
 Bottom Packer Depth 4224 Wt. Pipe Run - WL 2.8  
 Total Depth 4233 Chlorides 4000 ppm System LCM -

Blow Description FF - BOB in 12 min  
757 - 4 min blow  
FF - 3 in blow loose head built to 8 in  
PST - 4 min blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>vs w mco</u>	<u>20</u>	<u>55</u>	<u>5</u>	<u>10</u>
<u>300</u>	<u>60</u>	<u>30</u>	<u>70</u>		
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 420 BHT 121 Gravity 38 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2133  Test 1250 T-On Location 21:30  
 (B) First Initial Flow 26  Jars 250 T-Started 22:10  
 (C) First Final Flow 105  Safety Joint 75 T-Open 00:57  
 (D) Initial Shut-In 1315  Circ Sub \_\_\_\_\_ T-Pulled 3:27  
 (E) Second Initial Flow 111  Hourly Standby \_\_\_\_\_ T-Out 5:40  
 (F) Second Final Flow 169  Mileage 108rt 167.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1311  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2109  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 30  Day Standby \_\_\_\_\_ Total 1742.40  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1742.40

Approved By \_\_\_\_\_ Our Representative Burd

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.



# Geologic Report

Drilling Time and Sample Log

Operator <b>American Warrior, Inc.</b>		KB Elevation 2158'
Lease <b>FBK Unit</b>	No. <b>1</b>	DF 2152'
API # <b>15-135-25678-0000</b>		Casing Record Surface 8 5/8" @ 225'
Field <b>Wunder</b>		Production 5 1/2" @ 4235'
Location <b>150' FSL &amp; 820' FWL</b>		Electrical Surveys None
Sec. <b>18</b>	Tw. <b>18s</b>	Rge. <b>21w</b>
County <b>Ness</b>	State <b>Kansas</b>	

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite		1424' +734	
Base		1458' +700	
Heebner		3619' -1461	-15
Lansing		3662' -1504	-13
BKc		3979' -1821	
Pawnee		4057' -1899	-10
Fort Scott		4134' -1976	-13
Cherokee		4153' -1995	
Mississippian		4221' -2063	+7
<b>Total Depth</b>		<b>4236' -2078</b>	

Reference Well For Structural Comparison **Texokan Petroleum Corp. Wunder #1**  
SW SE SW Sec. 18 T18s R21w Ness Co. Kansas

Drilling Contractor	Petromark Drilling, LLC. Rig #1		
Commenced	1-11-2014	Completed	1-17-2014
Samples Saved From	3900'	To	RTD
Drilling Time Kept From	3600'	To	RTD
Samples Examined From	3900'	To	RTD
Geological Supervision From	3900'	To	RTD

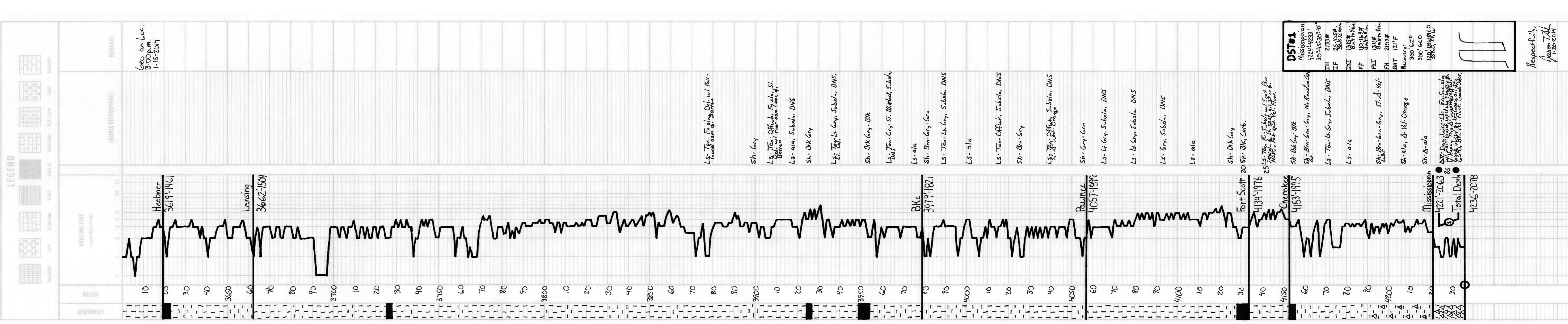
Displacement 3500' Mud Type Chemical

### Summary and Recommendations

The location for the FBK Unit #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted 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 1/2 inch production casing to further evaluate the FBK Unit #1 well.

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



**DST#1**  
Mississippian  
4221'-4233'  
30'-45'-30'-45'

TH 2153#  
IF 75-105#  
IS 80-120#  
FF 1315#  
FSI 10-16#  
FH 131#  
BHT 2109#

Recovery:  
300 GCP  
300 GCO  
138% GPP  
138% GCO

Respectfully,  
Jason T Alm  
1-20-2014

# **Geological Report**

American Warrior, Inc.

**FBK Unit #1**

150' FSL & 820' FWL

Sec. 18 T18s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
FBK Unit #1  
150' FSL & 820' FWL  
Sec. 18 T18s R21w  
Ness County, Kansas  
API # 15-135-25678-0000

Drilling Contractor: Petromark Drilling, LLC. Rig #1

Geologist: Jason T Alm

Spud Date: January 11, 2014

Completion Date: January 17, 2014

Elevation: 2152' Ground Level  
2158' Kelly Bushing

Directions: Bazine KS, intersection of Hwy 96 and Austin St.  
North 2 mi. to 150 Rd. East ¼ mi. North into  
location.

Casing: 225' 8 5/8" surface casing  
4235' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3600' to RTD

Electric Logs: None

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

Problems: Testing head came loose during final flow resulting  
in weaker than expected blow. Head was tightened  
20 min. into flow and blow built as expected.

Remarks: None

## Formation Tops

Formation	American Warrior, Inc. FBK Unit #1 Sec. 18 T18s R21w 150' FSL & 820' FWL
Anhydrite	1424', +734
Base	1458', +700
Heebner	3619', -1461
Lansing	3662', -1504
BKc	3979', -1821
Pawnee	4057', -1899
Fort Scott	4134', -1976
Cherokee	4153', -1995
Mississippian	4221', -2063
RTD	4236', -2078

## Sample Zone Descriptions

**Mississippian Osage (4221', -2063):**      **Covered in DST #1**  
 Dolo – Δ – Fine sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, very heavy triptolic chert, weathered with good vuggy porosity, light to good oil stain, good show of free oil, bright yellow flourescents, good odor, 85 units hotwire.

## Drill Stem Tests

Trilobite Testing, Inc.  
 "Brett Dickinson"

**DST #1**      **Mississippian Osage**  
 Interval (4224' – 4233') Anchor Length 9'  
 IHP    – 2133 #  
 IFP    – 30" – B.O.B. 12 min.      25-105 #  
 ISI    – 30" – Built to ¼ in.      1315 #  
 FFP    – 30" – Built to 8 in.      110-169 #  
 FSI    – 30" – Built to ¼ in.      1311 #  
 FHP    – 2109 #  
 BHT    – 121°F

Recovery:    300' GIP  
                   300' GCO  
                   120' VSWMCO      55% Oil, 5% Water

## Structural Comparison

	American Warrior, Inc. FBK Unit #1 Sec. 18 T18s R21w 150' FSL & 820' FWL	Texokan Petroleum Corp. Wunder #1 Sec. 18 T18s R21w SW SE SW	High Plains Oil Exploration Wunder A #1 Sec. 13 T18s R22w SE SE SE	
<b>Formation</b>				
Anhydrite	<b>1424', +734</b>	NA	1423', +732	<b>(+2)</b>
Base	<b>1458', +700</b>	NA	1459', +696	<b>(+4)</b>
Heebner	<b>3619', -1461</b>	3615', -1444	1423', -1467	<b>(+6)</b>
Lansing	<b>3662', -1504</b>	3662', -1491	3669', -1514	<b>(+10)</b>
BKc	<b>3979', -1821</b>	NA	NA	<b>NA</b>
Pawnee	<b>4057', -1899</b>	4060', -1889	4074', -1919	<b>(+20)</b>
Fort Scott	<b>4134', -1976</b>	4134', -1963	4150', -1995	<b>(+19)</b>
Cherokee	<b>4153', -1995</b>	NA	4171', -2016	<b>(+21)</b>
Mississippian	<b>4221', -2063</b>	4241', -2070	4253', -2098	<b>(+35)</b>

## Summary

The location for the FBK Unit #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted 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 FBK Unit #1 well.

## Recommended Perforations

**Primary:**

**Mississippian Osage**

**(4221' – 4234')**

**DST #1**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



Date 11-11 District Great Bend Ticket No. 61097  
 Company American Leasing Rig Petzmark 1  
 Lease DHT Well No. \_\_\_\_\_  
 County KS State KS  
 Location Bazin O&G 2N Field \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: \_\_\_\_\_  
 Amt. 3651 Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 6 5/8 Type New Weight 23# Collar SRP

LEAD: Pump Time Thickening hrs. Type Class A 3/8" all  
 Amt. 150 Sks Yield 1.34 ft<sup>3</sup>/sk Density 15.7 PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Casing Depths: Top \_\_\_\_\_ Bottom 222.12

Pump Trucks Used 366 - Ben Noel  
 Bulk Equip. 811-112 - Dan Casper

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 1570  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Disp. Fluid Type Fishwater Amt. 71 Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type Water Weight \_\_\_\_\_ PPG

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

CEMENTER Bob Isaac

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						On location - Rig up
						had safety meeting
						Run 876 casing
						Break circulation w/ rig mud
						Pump 5 bbl fish water
						Mix 150 Sks Class A 3/8" all 20 gals
						Displace 13.23 bbl fish water
						Continue
						Lower + did circulate
						Rig down

# ALLIED OIL & GAS SERVICES, LLC 061097

Federal Tax I.D. # 20-8551475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE <u>1-11-14</u>	SEC. <u>18</u>	TWP. <u>13</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 AM</u>	JOB FINISH <u>10:30 PM</u>
LEASE <u>EGK</u>	WELL # <u>1</u>	LOCATION <u>Bazin Ddod 2N 1E</u>		COUNTY <u>Ness</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>			N/A				

CONTRACTOR Mark Drilling #1

TYPE OF JOB Surface

HOLE SIZE 17 1/2 T.D.

CASING SIZE 8 5/8 DEPTH 222.17

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 FT

PERFS.

DISPLACEMENT 13.23 bbl fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Josh Isaac

# 366 HELPER Ben Munt

BULK TRUCK

# 871-112 DRIVER Dan Casper

BULK TRUCK

# DRIVER

REMARKS:

On location - Rig up - had setting machine  
run 8 5/8 casing - Break circulation  
run 5 bbl fresh water ahead  
mix 50 SKS class A 3 gal 2 gal  
Displace 13.23 bbl fresh water  
Spur in 10:15 pm  
Cement did circulate  
blig down

CHARGE TO: American Water

STREET

CITY STATE ZIP

OWNER

CEMENT AMOUNT ORDERED 150 SKS class A 3 gal

249 gal

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

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

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME X Darren L. Amerins

SIGNATURE [Signature]



Services, Inc.

CHARGE TO: AMERICAN WARRIOR  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 26058

PAGE 1 OF

1. SERVICE LOCATIONS NESS, Gen, KS	WELL/PROJECT NO. #1	LEASE FBL Unit 1	COUNTY/TOWNSHIP NESS	STATE KS	CITY BRAZNE, KS	DATE 20 JAN 14	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR HDD OILFIELD SERV.	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	WELL LOCATION 2N, 18E, N15T0	
3. WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE CEMENT PORT DOLLAR	WELL PERMIT NO.				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #115	20	mi			6.00	120.00
576D					PUMP CHARGE	1	JOB			1500.00	1500.00
105					PORT DOLLAR DRINK TDR	1	JOB			350.00	350.00
276					FLOCCLE	35	lbs			2.50	87.50
290					D-AIR	1 1/2	gal			42.00	63.00
330					SMD CEMENT	135	SKX			18.50	2497.50
581					CEMENT SERVICE CHARGE	175	SKX			2.00	350.00
582					MINIMUM DRAYAGE	17390	lbs			173.90	2520.00

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: 20 JAN 14  
TIME SIGNED: 1700  
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

PAGE TOTAL: 5218.  
TAX: 184.38  
TOTAL: 5402.38

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

SWIFT OPERATOR: [Signature]  
APPROVAL: [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 20 JAN 14 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE FBK UNIT #1 JOB TYPE CEMENT PORT COLLAR

TICKET NO. 26058

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							ON LOCATION
								PORT COLLAR @ 1389
	1538			✓	✓		1000	TEST - HELD
	1540							OPEN PORT COLLAR
	1543	4	75	✓			1100	MIX 135'S x 5MD
		3	434	✓			400	DISPLACE CEMENT
								CIRCULATE 20'S x TO PIT
	1603			✓			1000	CLOSE PORT COLLAR - TEST - HELD
								RUN 4 JTS.
	1614	3	18	✓			300	REVERSE CLEAN
	1625							WASH TRUCK
	1700							JOB COMPLETE.
								THANKS #115
								JASON DAVE JARED



CHARGE TO: American Water, Inc.  
 ADDRESS:  
 CITY/STATE/ZIP CODE:

TICKET 25809  
 PAGE 1 OF 2

1. SLEWING MACHINES  
 2. MISSOURI Ks  
 3. WELL PROJECT NO. 41  
 4. CONTRACTOR: Penomax Drilling #1  
 5. WELL TYPE: Oil  
 6. WELL CATEGORY: Development  
 7. WELL PURPOSE: 5 1/2" LONGSTRONG  
 8. COUNTY/PARISH: MISS  
 9. STATE: KS  
 10. CITY: LOCATION  
 11. DATE: 1-17-14  
 12. ORDER NO.: SAME  
 13. WELL LOCATION: Barnev Ks - 20 1/2" h.e., N.W.

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING	DESCRIPTION	QTY	UNIT	QTY	UNIT	UNIT PRICE	AMOUNT
575		1	MILEAGE # 114	20	MI			6.00	120.00
578		1	DAMP CLOSURE	1	JOB	4236	FT	1500.00	1500.00
221		1	LEADED KEL	2	GAU			25.00	50.00
281		1	MUDFLUSH	500	GAU			1.25	625.00
402		1	COMPACTORS	5	EA	5 1/2"		70.00	350.00
403		1	CONCRETE BASKETS	2	EA			300.00	600.00
404		1	PORT CONCRETE TOPBAR # 95	1	EA	1381	FT	2900.00	2900.00
406		1	GREEN DRAIN PIPE - BATTLE	1	EA			275.00	275.00
407		1	INSERT FLOOR SLIDE w/ AUTO FEEL	1	EA			375.00	375.00
419		1	ROTARIX HEAD RENTAL	1	JOB			200.00	200.00

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: 1-17-14 TIME SIGNED: 1400 SIGNATURE: [Signature] EX P.M.

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

SURVEY:  CUSTOMER DID NOT VISIT TO RESPOND

PAGE TOTAL #1: 6995.00

#2: 4806.50

Subtotal: 11,801.50

TAX: 589.26

TOTAL: 12,390.76

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

SHIFT OPERATOR: [Signature]

APPROVAL: [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

1-17-14

CUSTOMER AMERICAN WARRIOR	WELL NO. #1	LEASE E B R UNIT	JOB TYPE 5.2 LONGSTRING	DATE <del>1-15-14</del>	PAGE NO. 25809
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS)	PUMPS	PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
					TUBING	HOUSING	
	1400						ON LOCATION
	1500						START 5 1/2" CASING IN WELL
							TD-4236 SET = 4235 TP-4236 5 1/2" # 15.5 ST-41 CENTRALISERS - 1, 2, 3, 4, 74 CMT BASKETS - 5, 75 PORT COLLAR = 1381 TAPST # 75
	1700						DROP BALL - CIRCULATE ROTATE
	1735	6	12	✓		400	PUMP 500 GAL MUD FLUSH
	1737	6	20	✓		400	PUMP 20 BBL KCL - FLUSH
	1745		7				PLUG RH (30 SKS)
	1755	4	35	✓		200	MAX CEMENT - 145 SKS EA-2 @ 15.4 PPG
	1808						WASH OUT PUMP - LINES
	1808						RELEASE LATCH DOWN PLUG
	1810	6 1/2	0	✓			DISPLACE PLUG
	1825	5	99.8			1500	PLUG DOWN - PSE UP LATCH IN PLUG
	1830						OK RELEASE PSE - HELD
							WASH TRUCK
	1900						JOB COMPLETE

THANK YOU  
WAYNE, BRETNAE, JOHN J.



Swifton Inc

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

TICKET CONTINUATION

TICKET No. 25809

CUSTOMER American Woodside Inc

WELL FOR WEL #1

DATE 1-17-14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING	TIME	DESCRIPTION	EQUIP	WEIGHT			UNIT PRICE	AMOUNT
						TON	CU YD	CU YD		
325			1	STAMPED CONERT	EA2	175	SKS		14.50	2537.50
276			1	FLOCCIE		50	US		2.50	125.00
283			1	SALT		900	US		1.20	108.00
284			1	CANSEAL		8	SKS	800	35.00	280.00
290			1	D-ATR		2	GAL		42.00	84.00
290			1	HAVAD - 302		125	US		8.00	1000.00
581			1	SERVICE CHARGE		175			2.00	350.00
582			1	CHARGE		183.25			150.00	250.00

TONS TOTAL WEIGHT 183.25  
LOADING MILES 20

CUBIC FEET 175  
TON MILES

175 2.00 350.00  
183.25 150.00 250.00

1806.50