



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1311917  
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: \_\_\_\_\_

1311917

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:  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	Williams 11
Doc ID	1311917

Tops

Name	Top	Datum
Anhydrite	1486	778
Heebner	3727	-1463
Lansing	3774	-1510
Base Kansas City	4087	-1823
Pawnee	4192	-1928
Ft. Scott	4273	-2009
Cherokee	4296	-2032
Mississippian	4377	-2113
TD	4387	-2123





## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Jason T Alm

### **Williams #11**

#### **36-19s-22w Ness,KS**

Start Date: 2016.03.08 @ 06:10:36

End Date: 2016.03.08 @ 16:58:06

Job Ticket #: 64846                      DST #: 1

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

Printed: 2016.03.09 @ 11:05:07



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64846

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.03.08 @ 06:10:36

## GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:59:36

Time Test Ended: 16:58:06

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 4250.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Reference Elevations: 2264.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2256.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651**

**Inside**

Press@RunDepth: 21.57 psig @ 4274.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.08

End Date:

2016.03.08

Last Calib.:

2016.03.08

Start Time: 06:10:37

End Time:

16:58:06

Time On Btm:

2016.03.08 @ 13:58:36

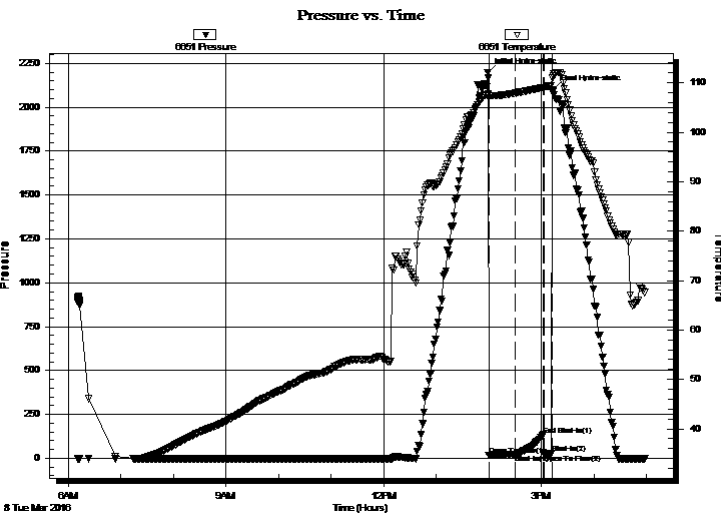
Time Off Btm:

2016.03.08 @ 15:13:06

TEST COMMENT: 30- IF- Weak surface blow throughout

30- IS- No blow

10- No blow Pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.36	107.64	Initial Hydro-static
1	17.12	107.01	Open To Flow (1)
31	21.57	107.91	Shut-In(1)
63	134.22	109.03	End Shut-In(1)
64	23.84	109.04	Open To Flow (2)
73	26.04	109.44	Shut-In(2)
75	2098.12	111.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	M w / oil spots	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

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

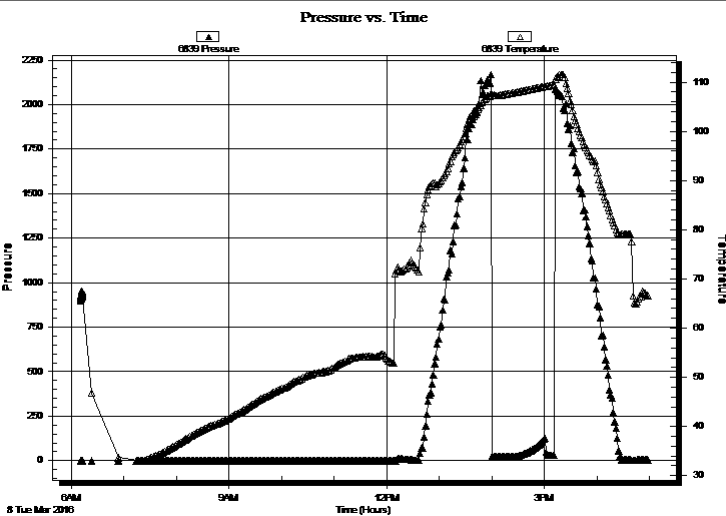
**36-19s-22w Ness,KS**  
**Williams #11**  
 Job Ticket: 64846 **DST#: 1**  
 Test Start: 2016.03.08 @ 06:10:36

## GENERAL INFORMATION:

Formation: **Fort Scott**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 13:59:36 Tester: Brannan Lonsdale  
 Time Test Ended: 16:58:06 Unit No: 73  
 Interval: **4250.00 ft (KB) To 4310.00 ft (KB) (TVD)** Reference Elevations: 2264.00 ft (KB)  
 Total Depth: 4310.00 ft (KB) (TVD) 2256.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6839 Outside**  
 Press@RunDepth: psig @ 4274.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.03.08 End Date: 2016.03.08 Last Calib.: 2016.03.08  
 Start Time: 06:10:50 End Time: 16:58:19 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30- IF- Weak surface blow throughout  
 30- IS- No blow  
 10- No blow Pulled tool



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	M w / oil spots	0.07

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64846

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.03.08 @ 06:10:36

## Tool Information

Drill Pipe:	Length: 4219.00 ft	Diameter: 3.82 inches	Volume: 59.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4250.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			4224.00	
Shut In Tool	5.00			4229.00	
Hydraulic tool	5.00			4234.00	
Jars	5.00			4239.00	
Safety Joint	2.00			4241.00	
Packer	5.00			4246.00	27.00 Bottom Of Top Packer
Packer	4.00			4250.00	
Stubb	1.00			4251.00	
Perforations	22.00			4273.00	
Change Over Sub	1.00			4274.00	
Recorder	0.00	6651	Inside	4274.00	
Recorder	0.00	6839	Outside	4274.00	
Drill Pipe	32.00			4306.00	
Change Over Sub	1.00			4307.00	
Bullnose	3.00			4310.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 87.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64846

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2016.03.08 @ 06:10:36

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M w / oil spots	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

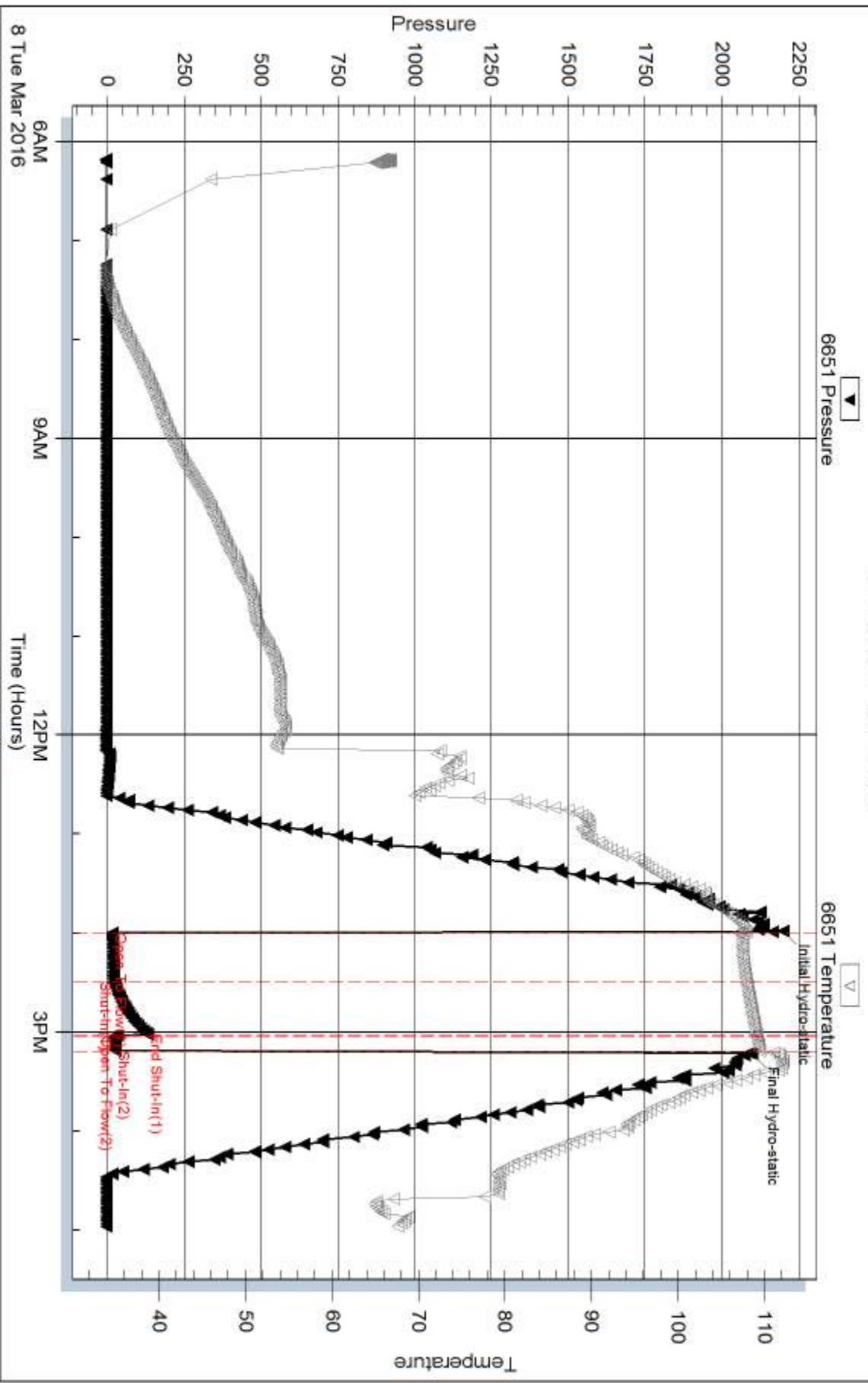
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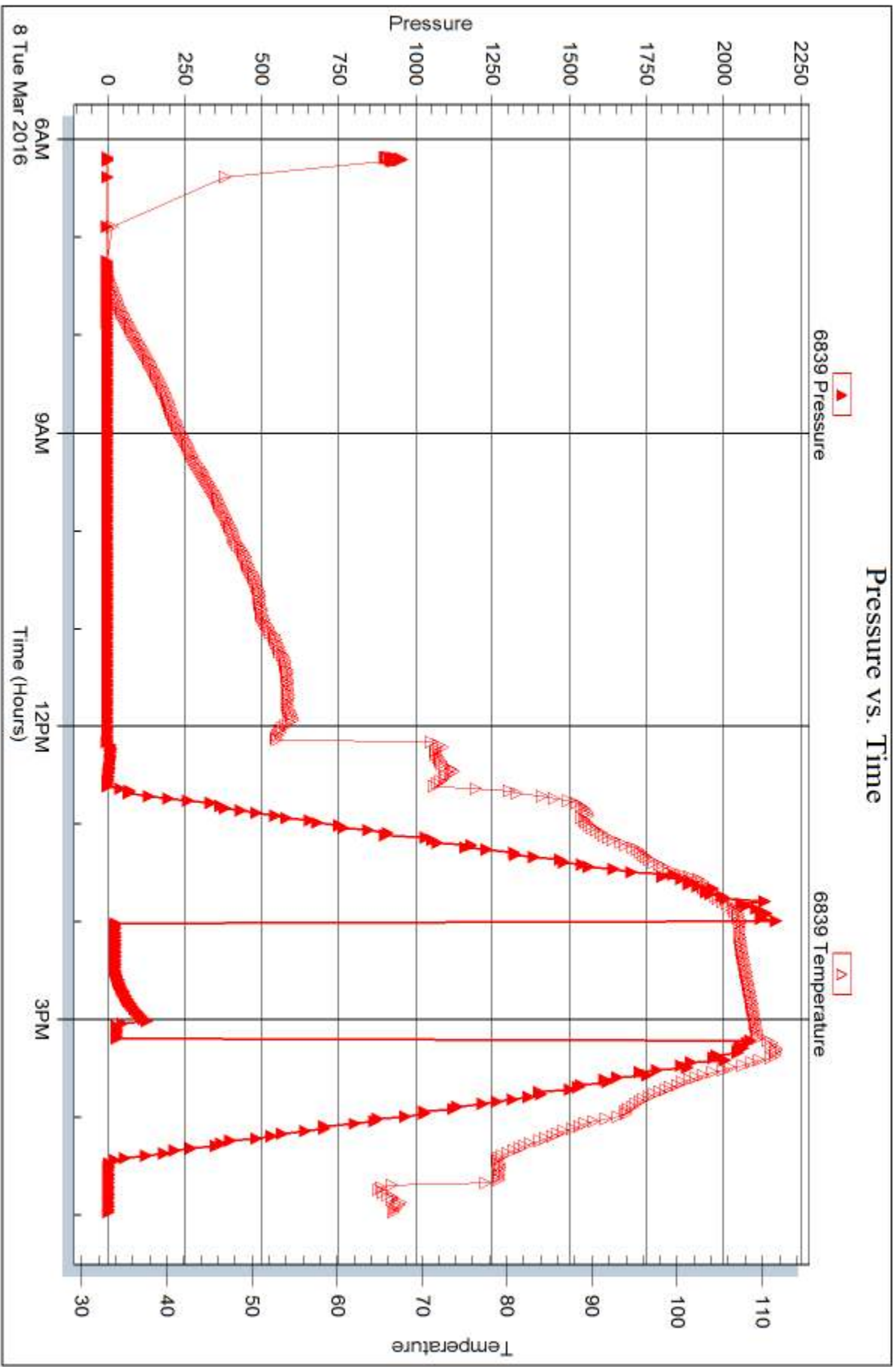
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Jason T Alm

### **Williams #11**

#### **36-19s-22w Ness,KS**

Start Date: 2016.03.09 @ 01:32:43

End Date: 2016.03.09 @ 08:02:43

Job Ticket #: 64847                      DST #: 2

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

Printed: 2016.03.09 @ 11:04:23

American Warrior, Inc.  
36-19s-22w Ness,KS  
Williams #11  
DST # 2  
Miss  
2016.03.09



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64847

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.03.09 @ 01:32:43

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:34:13  
 Time Test Ended: 08:02:43  
 Interval: **4322.00 ft (KB) To 4387.00 ft (KB) (TVD)**  
 Total Depth: 4387.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 2264.00 ft (KB)  
 2256.00 ft (CF)  
 KB to GR/CF: 8.00 ft

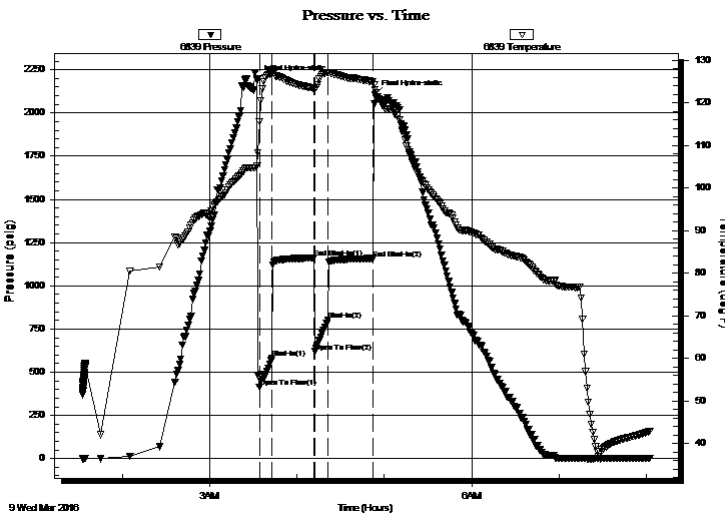
## Serial #: 6839

**Outside**

Press@RunDepth: 800.18 psig @ 4351.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.03.09 End Date: 2016.03.09 Last Calib.: 2016.03.09  
 Start Time: 01:32:44 End Time: 08:02:43 Time On Btm: 2016.03.09 @ 03:32:43  
 Time Off Btm: 2016.03.09 @ 04:53:43

TEST COMMENT: 10- IF- BOB 1 1/4 mins  
 30- IS- Surface blow  
 10- FF- BOB 1 1/2 mins  
 30- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.85	105.20	Initial Hydro-static
2	414.86	115.54	Open To Flow (1)
10	583.43	126.91	Shut-In(1)
39	1161.18	123.43	End Shut-In(1)
40	619.06	123.18	Open To Flow (2)
49	800.18	127.09	Shut-In(2)
80	1158.01	125.00	End Shut-In(2)
81	2106.33	123.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1205.00	OCMW, 10%O 85%W 5%M	16.79
317.00	WOCM, 10%O 10%W 80%M	4.49
95.00	M w / oil spots	1.35

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64847

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.03.09 @ 01:32:43

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:34:13

Time Test Ended: 08:02:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 4322.00 ft (KB) To 4387.00 ft (KB) (TVD)**

Reference Elevations: 2264.00 ft (KB)

Total Depth: 4387.00 ft (KB) (TVD)

2256.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6651 Inside**

Press@RunDepth: psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.09

End Date:

2016.03.09

Last Calib.:

2016.03.09

Start Time: 01:32:54

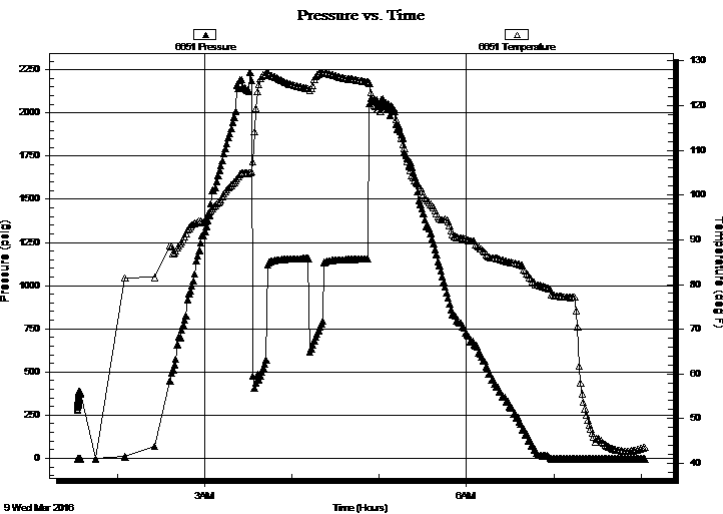
End Time:

08:02:53

Time On Btm:

Time Off Btm:

TEST COMMENT: 10- IF- BOB 1 1/4 mins  
30- IS- Surface blow  
10- FF- BOB 1 1/2 mins  
30- FS- No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1205.00	OCMW, 10%O 85%W 5%M	16.79
317.00	WOCM, 10%O 10%W 80%M	4.49
95.00	M w / oil spots	1.35

## 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.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64847

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.03.09 @ 01:32:43

## Tool Information

Drill Pipe:	Length: 4282.00 ft	Diameter: 3.82 inches	Volume: 60.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4322.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 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			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00			4306.00	
Jars	5.00			4311.00	
Safety Joint	2.00			4313.00	
Packer	5.00			4318.00	27.00 Bottom Of Top Packer
Packer	4.00			4322.00	
Stubb	1.00			4323.00	
Perforations	27.00			4350.00	
Change Over Sub	1.00			4351.00	
Recorder	0.00	6651	Inside	4351.00	
Recorder	0.00	6839	Outside	4351.00	
Drill Pipe	32.00			4383.00	
Change Over Sub	1.00			4384.00	
Bullnose	3.00			4387.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 92.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**36-19s-22w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Williams #11**

Job Ticket: 64847

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2016.03.09 @ 01:32:43

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1205.00	OCMW, 10%O 85%W 5%M	16.794
317.00	WOCM, 10%O 10%W 80%M	4.494
95.00	M w / oil spots	1.347

Total Length: 1617.00 ft      Total Volume: 22.635 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

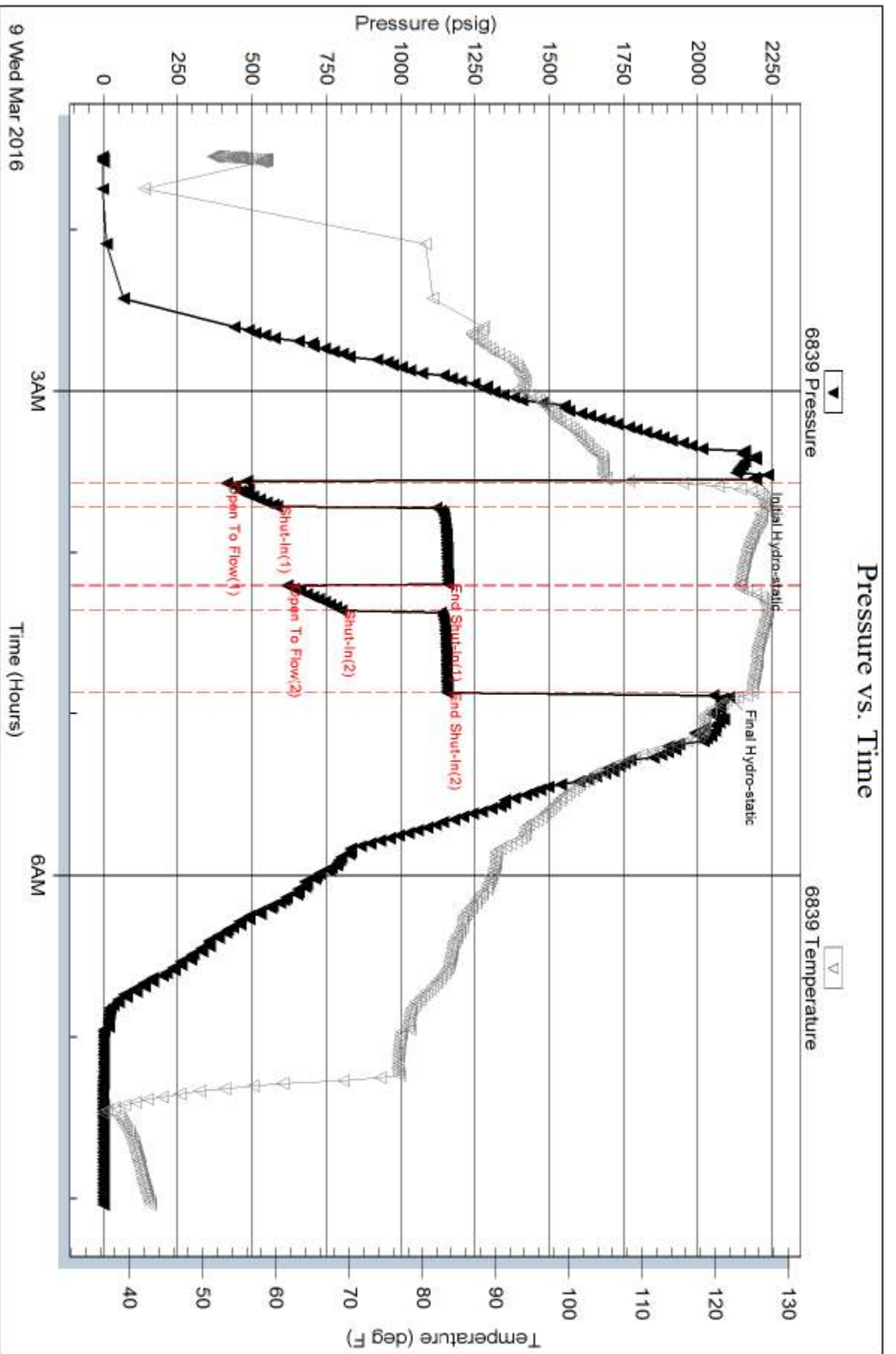
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





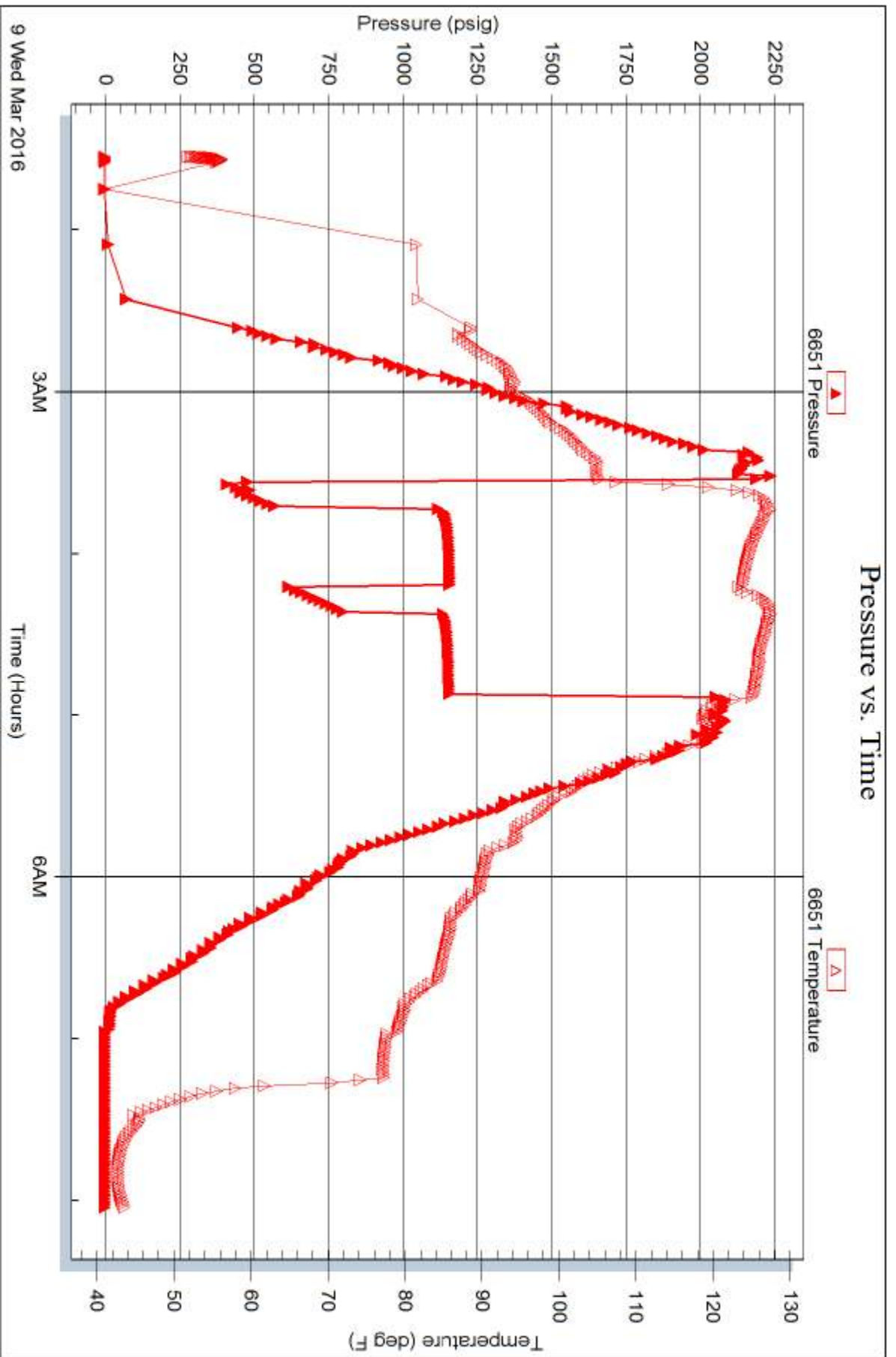
Serial #: 6651

Inside

American Warrior, Inc.

Williams #11

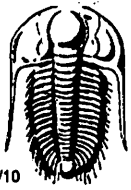
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64847

Printed: 2016.03.09 @ 11:04:26



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64846

Well Name & No. Williams #11 Test No. 1 Date 3/8/16  
 Company American Warrior Inc. Elevation 2264 KB 2256 GL  
 Address 318 Cummings Rd, PO Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason T Alm Rig Discovery #3  
 Location: Sec. 36 Twp. 19 S Rge. 22 W Co. Ness State KS

Interval Tested 4250 - 4310 Zone Tested Fort Scott  
 Anchor Length 60' Drill Pipe Run 4219 Mud Wt. 8.9  
 Top Packer Depth 4245 Drill Collars Run 31 Vis 51  
 Bottom Packer Depth 4250 Wt. Pipe Run --- WL 8.0  
 Total Depth 4310 Chlorides 5,400 ppm System LCM ---  
 Blow Description IF- Weak surface blow  
ISI- No blow  
FF- No blow Pulled tool

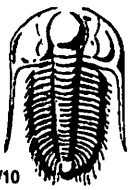
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M w/ oil spots</u>				

Rec Total 15' BHT 109° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2198  Test 1150 T-On Location 0546  
 (B) First Initial Flow 17  Jars 250 T-Started 0610  
 (C) First Final Flow 22  Safety Joint 75 T-Open 1359 ~~1658~~  
 (D) Initial Shut-In 134  Circ Sub \_\_\_\_\_ T-Pulled 1509  
 (E) Second Initial Flow 24  Hourly Standby \_\_\_\_\_ T-Out 1658  
 (F) Second Final Flow 26  Mileage 122 RT 91.50 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2098  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1566.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1566.50

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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. 64847

Well Name & No. Williams #11 Test No. 2 Date 3/9/16  
 Company American Warrior, Inc. Elevation 2264 KB 2256 GL  
 Address 3118 Cummins Rd. PO Box 349 Garden City, KS 67846  
 Co. Rep / Geo. Scott Corsair Rig Discovery #3  
 Location: Sec. 36 Twp. 19 S Rge. 22 W Co. Ness State KS

Interval Tested 4322-4387 Zone Tested Miss  
 Anchor Length 65' Drill Pipe Run 4282 Mud Wt. 8.9  
 Top Packer Depth 4317 Drill Collars Run 31 Vis 51  
 Bottom Packer Depth 4322 Wt. Pipe Run — WL 8.0  
 Total Depth 4387 Chlorides 5400 ppm System LCM 1#

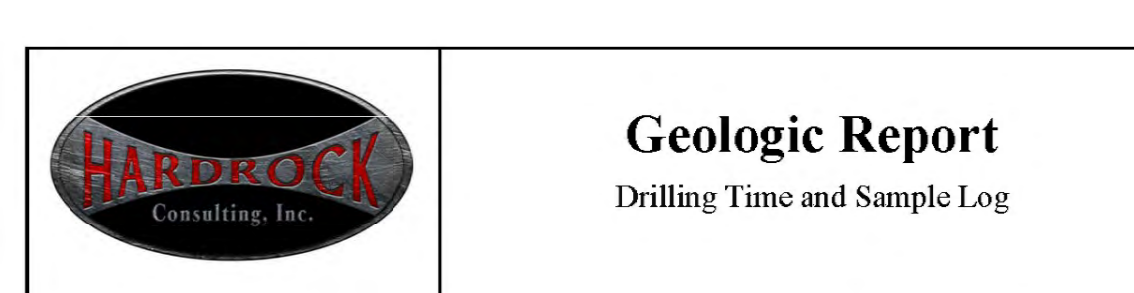
Blow Description IF - BOB 1 1/4 mins  
ISL - Surface Blow  
FF - BOB 1 1/2 mins  
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1205</u>	<u>Feet of OCMW</u>	<u>10</u>	<u>10</u>	<u>85</u>	<u>5</u>
<u>317</u>	<u>Feet of WOCM</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>80</u>
<u>95</u>	<u>Feet of NA w/ oil spots</u>				

Rec Total 1617 BHT 125° Gravity \_\_\_\_\_ API RW .27 @ 42 °F Chlorides 4200 ppm  
 (A) Initial Hydrostatic 2196  Test 1150 T-On Location 0129  
 (B) First Initial Flow 415  Jars 250 T-Started 0032  
 (C) First Final Flow 583  Safety Joint 75 T-Open 0332  
 (D) Initial Shut-In 1161  Circ Sub \_\_\_\_\_ T-Pulled 0452  
 (E) Second Initial Flow 619  Hourly Standby \_\_\_\_\_ T-Out 0802  
 (F) Second Final Flow 800  Mileage 122 RT 91.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1158  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2106  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1566.50 Total 1566.50 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Brannon Lonsdale

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 2264'
Lease <b>Williams</b>	No. <b>11</b>	DF 2256'
API # <b>15-135-25903-0000</b>		Casing Record Surface 8 5/8" @ 220'
Field <b>Schaben</b>		Production 5 1/2" @ 4386'
Location <b>1200' FNL &amp; 560' FWL</b>		Electrical Surveys None
Sec. <b>36</b>	Twp. <b>19s</b>	Rge. <b>22w</b>
County <b>Ness</b>	State <b>Kansas</b>	
<b>Formation</b>	<b>Log Tops</b>	<b>Sample Tops</b>
Anhydrite		1486' +778
Base		1519' +746
Heebner		3727' -1463
Lansing		3774' -1510
BKC		4087' -1823
Pawnee		4192' -1928
Fort Scott		4273' -2009
Cherokee		4296' -2032
Mississippian		4377' -2113
Total Depth		4387' -2123
Reference Well For Structural Comparison American Warrior, Inc. Williams #8 800' FNL & 400' FWL Sec. 36 T19s R22w Ness Co. Kansas		

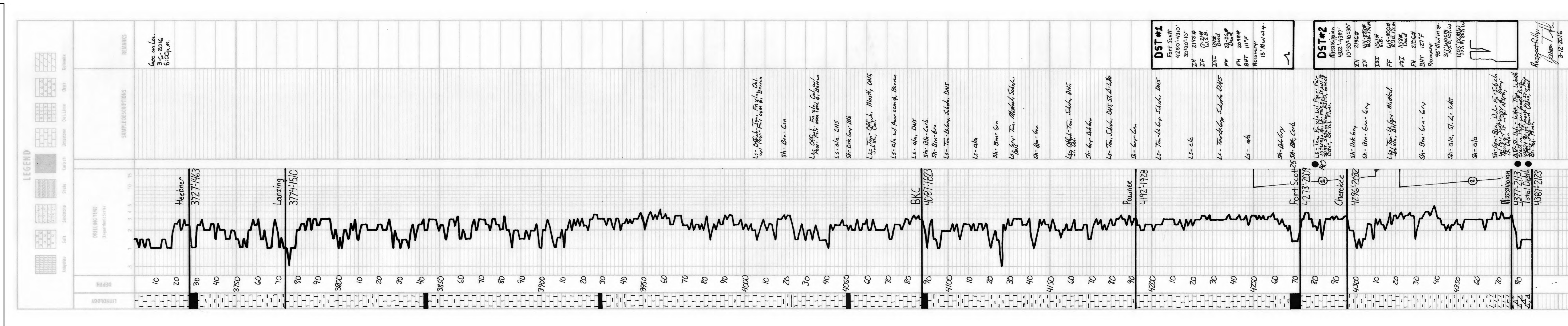
Drilling Contractor	Discovery Drilling Co. Inc.	Rig #3
Commenced	3-2-2015	Completed 3-9-2015
Samples Saved From	4000'	To RTD
Drilling Time Kept From	3700'	To RTD
Samples Examined From	4000'	To RTD
Geological Supervision From	4000'	To RTD

Displacement **3600'** Mud Type **Chemical**

### Summary and Recommendations

The location for the Williams #11 was found via 3-D seismic survey. The new well ran structurally as expected via the survey on all datums except for the Mississippian. 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 1/2 inch production casing to further evaluate the Williams #11 well.

Respectfully Submitted,  
  
Jason T Alm  
Hard Rock Consulting, Inc.



**DST #1**  
Fort Scott  
4250'-4310'  
30°30'10"  
IH 2198#  
IF 17-21#  
ISI 134#  
FF 23-26#  
FH 2098#  
BHT 111°F  
Recovery: 15' M w/ oil sp.

**DST #2**  
Mississippian  
4322'-4387'  
10°50'10'-30°  
IH 2196#  
IF 445-488#  
ISI 451#  
FF 619-802#  
FSI 1528#  
FH 2106#  
BHT 127°F  
Recovery: 95' M w/ oil sp.  
317-4400M  
10% B, 15% W  
128% O, 8% L

Respectfully,  
Jason T Alm  
3-12-2016

# **Geological Report**

American Warrior, Inc.

**Williams #11**

1200' FNL & 580' FWL

Sec. 36 T19s R22w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Williams #11  
1200' FNL & 580' FWL  
Sec. 36 T19s R22w  
Ness County, Kansas  
API # 15-135-25903-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: March 2, 2016

Completion Date: March 9, 2016

Elevation: 2256' Ground Level  
2264' Kelly Bushing

Directions: Bazine KS, 7 mi. South to 70 Rd, West 7/8 mi,  
South into location.

Casing: 220' 8 5/8" surface casing  
4386' 5 1/2" production casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Brannan Lonsdale"

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Williams #11</b> <b>Sec. 36 T19s R22w</b> <b>1200' FNL &amp; 580' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1486', +778</b>
Base	<b>1519', +746</b>
Heebner	<b>3727', -1463</b>
Lansing	<b>3774', -1510</b>
BKC	<b>4087', -1823</b>
Pawnee	<b>4192', -1928</b>
Fort Scott	<b>4273', -2009</b>
Cherokee	<b>4296', -2032</b>
Mississippian	<b>4377', -2113</b>
RTD	<b>4387', -2123</b>

## Sample Zone Descriptions

- Fort Scott (4273', -2009): Covered in DST #1**  
 Ls – Fine crystalline with poor to fair inter-crystalline porosity, light to fair oil stain with light spotted saturation, fair show of free oil, good odor, bright yellow fluorescents, 140 units hotwire.
- Mississippian Osage (4377', -2113): Covered in DST #2**  
 Δ – Dolo – White, triptolic, weathered in part with good scattered vuggy porosity, light to good oil stain, fair show of free oil, fair to good odor, good bright yellow fluorescents



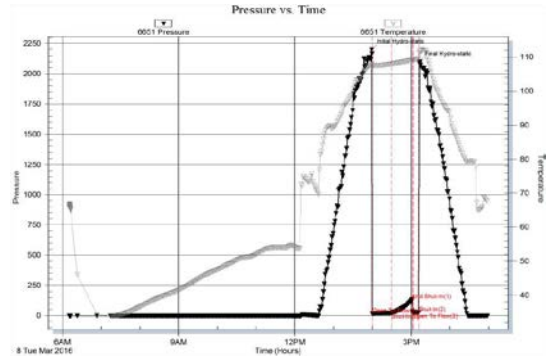
## Drill Stem Tests

Trilobite Testing, Inc.  
"Brannan Lonsdale"

### **DST #1 Fort Scott**

Interval (4250' – 4310') Anchor Length 60'  
 IHP – 2198 #  
 IFP – 30" – W.S.B. 17-21 #  
 ISI – 30" – Dead 134 #  
 FFP – 10" – Dead 23-26 #  
 FHP – 2098 #  
 BHT – 111°F

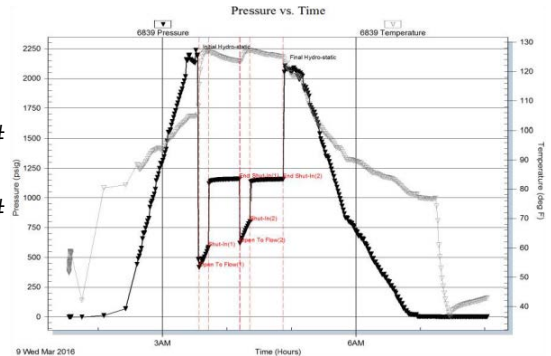
Recovery: 15' Mud w/ oil spots



### **DST #2 Mississippian Osage**

Interval (4322' – 4387') Anchor Length 65'  
 IHP – 2196 #  
 IFP – 10" – B.O.B. 1 ¼ min. 414-583 #  
 ISI – 30" – W.S.B. 1161 #  
 FFP – 10" – B.O.B. 1 ½ min. 619-800 #  
 FSI – 30" – Dead 1158 #  
 FHP – 2106 #  
 BHT – 127°F

Recovery: 95' Mud w/ oil spots  
 317' WOCM 10% Oil, 10% Water  
 1205' OCMW 10% Oil, 85% Water



## Structural Comparison

	American Warrior, Inc. Williams #11 Sec. 36 T19s R22w 1200' FNL & 580' FWL	American Warrior, Inc. Williams #8 Sec. 36 T19s R22w 800' FNL & 400' FWL		Sinclair Oil & Gas Anna Williams #3 Sec. 36 T19s R22w 766' FNL & 766' FWL	
<b>Formation</b>					
Anhydrite	1486', +778	1488', +780	(-2)	NA	NA
Base	1519', +746	NA	NA	NA	NA
Heebner	3727', -1463	3726', -1458	(-5)	NA	NA
Lansing	3774', -1510	3774', -1506	(-4)	3762', -1500	(-10)
BKC	4087', -1823	NA	NA	NA	NA
Pawnee	4192', -1928	4196', -1928	FL	NA	NA
Fort Scott	4273', -2009	4275', -2007	(-2)	4261', -1999	(-10)
Cherokee	4296', -2032	4296', -2028	(-4)	NA	NA
Mississippian	4377', -2113	4356', -2088	(-25)	4357', -2095	(-18)

## **Summary**

The location for the Williams #11 was found via 3-D seismic survey. The new well ran structurally as expected via the survey on all datums except for the Mississippian. 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 Williams #11 well.

## **Recommended Perforations**

**Mississippian Osage**

**(4377' – 4382')**

**DST #2**

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



Services, Inc.

CHARGE TO: Harvest Harbor  
ADDRESS:  
CITY, STATE, ZIP CODE:

TICKET 29107

PAGE 1 OF 1

SERVICE LOCATIONS: Harvest Harbor KS WELL/PROJECT NO. 211 LEASE Williams COUNTY/PARISH Neosho STATE KS CITY Bazine DATE 3 MAR 16 OWNER

TICKET TYPE:  SERVICE CONTRACTOR RIG NAME/NO. #3 SHIPPED  DELIVERED TO Location ORDER NO.

WELL TYPE: CI WELL CATEGORY: Development JOB PURPOSE: cement surface pipe WELL PERMIT NO. WELL LOCATION: 25-K-19

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	20	m			5.00	100.00
576P					Plan Charge	1	ea			800.00	800.00
325					Structural cement	150	sk			12.50	1875.00
279					Bentonite gel	2	oz			35.00	70.00
278					Calcium Chloride	3	oz			75.00	225.00
290					D-air	1	bag			42.00	42.00
581					Service charge	1	sk			1.50	1.50
582					Drainage (air)	1	oz			250.00	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: 3/16 TIME SIGNED:  AM  PM

**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: 3609.50  
 TAX  
 TOTAL

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

SWIFT OPERATOR: W. B. ... APPROVAL: W. B. ...

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3 MAR 16 PAGE NO.

CUSTOMER America Vantage WELL NO. 11 LEASE Williams JOB TYPE cement surface pipe TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150sk STANDARD cement w/ 2%gel 3%CC 8 5/8 x 28 TD 254 5jts 2333
	1335 1350							on loc TRK 114 start 8 5/8 casing in hole circulate well
	1837	3 1/2	36			200		mix STD 2% 3% cement @ 147,000 150sk
	1839	3 3	7			200 200		Displace w/ H <sub>2</sub> O cement to surface 20sk top 13
	1848 1900		13 1/2					Kickout - shut in 8 5/8 plug down wheel up truck Rack up
	1920							job complete thanks Blaine, Pilot & crew



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

TICKET 29228

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Ass City KS WELL/PROJECT NO. "11" LEASE Williams COUNTY/PARISH Adair STATE KS CITY Braine DATE 3-9-16 OWNER Same  
 2. TICKET TYPE DISCOVERY DRILLING CONTRACTOR Discovery Drilling RIG NAME/NO. #3 SHIPPED WCT DELIVERED TO Location ORDER NO.  
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE General 5th Longstring WELL PERMIT NO. WELL LOCATION Braine KS-65 Log Sink  
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS

PRICE SERVICE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					TRK # 115						5.00	100.00
578					Pump Charge - Longstring						1250.00	1250.00
403					General Basket						250.00	500.00
404					Port Collar						2500.00	2500.00
406					Link Down Plug + Basket						225.00	225.00
407					Insert Float Shoe w/ Auto Fill						300.00	300.00
409					Turbolizer						75.00	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

DATE SIGNED 3-9-16 TIME SIGNED 1500  
 X David Kushner RP.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	TAX
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	5250.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	5147.75
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		TOTAL	

SWIFT OPERATOR David Kushner APPROVAL  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES  
 Thank You!



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

TICKET CONTINUATION

CUSTOMER American Lumber

WELL Williams #11

DATE 3-9-16

PAGE 2 OF 2

TICKET No. 29228

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT			QTY	U/M		
325					Standard Cement (54-2)			12.25	2143.75
284					Calsol	5%	8 lbs	30.00	240.00
283					Salt	10.9%	900 lbs	00.20	180.00
292					Helad - 322	3.1%	150 lbs	8.00	1200.00
276					Flocle	1/4 lb	50 lbs	2.25	112.50
321					Liquid KCL		2 gal	25.00	50.00
281					Mud Flush		500 gal	1.25	625.00
290					D-Air		2 gal	42.00	84.00
582					Minimum Drayage Charge		1 ea	250.00	250.00
581					Service Charge		1 ea	1.50	262.50
					Mileage Charge		175		
					Total Weight				
					Loaded Miles				
					Cubic Feet				
					Ton Miles				

CONTINUATION TOTAL \$147.75

JOB LOG

SWIFT Services, Inc.

DATE 3-9-16 PAGE NO.

CUSTOMER American Warrior WELL NO. #11 LEASE Williams JOB TYPE Cement 5 1/2" Longstring TICKET NO. 29228

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							on location 5 1/2" 15.5"
								RTD - 4387' LTD - N/A TP - 4386' Set - 4386' SJ - "1 40.38' P.C. - "76 1459' Centralizer - "1"2"3"4"75 Basket - "5"76 Jts out - 106, 113, 114, 115"
	1530							start 5 1/2" 15.5" casing in well
	1730							Drop ball circulate
	1800	6 1/2	12		✓	300		Pump 500 gal Mud flush
		6 1/2	20		✓	300		Pump 20 bbl HCL Flush
			7-5					Plug RH-MH (30-20)
	1810	4 1/2	30		✓	200		Mix 125 sks EA-2 w/ 1/4" Flo @ 15.5 spg
								wash out Pump + Lines Release Latch Down Plug
	1825	6 1/2	0		✓	100		Start Displacement
		6 1/2	77		✓	250		lift Pressure
		6 1/2	103		✓	800		Max Lift Pressure
	1845	6 1/2	103.5		✓	800		<del>Start Displacement</del> Last pressure Blew H <sub>2</sub> O in pipe
								Release Pressure * Plug Hold* Shut in Dry Both ways wash up truck
	1930							Job Complete
								Thank You Dave Jason Preston



CHARGE TO: American Lattin  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET 29112

PAGE 1 OF 1

1. SERVICE LOCATIONS: Area 21 KS WELL/PROJECT NO. # 11 LEASE Williams COUNTY/PARISH Assa STATE KS CITY Bazine DATE 17 MAR 16 OWNER \_\_\_\_\_

2. TICKET TYPE:  SERVICE  SALES CONTRACTOR \_\_\_\_\_ RIG NAME/NO. \_\_\_\_\_ SHIPPED WCT DELIVERED TO location ORDER NO. \_\_\_\_\_

3. WELL TYPE: 0.1 WELL CATEGORY: Development JOB PURPOSE: conduit port collar WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION \_\_\_\_\_

4. REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

SERVICE REFERENCE/ PART NUMBER	LOC	ACT	DR	DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
575				MILEAGE	20	mi			5.00	100.00
576D				Pump Charge	1	ea			1250.00	1250.00
330				SMD cement	110	sk			15.75	1732.50
276				Flare	25	lb			2.25	56.25
290				D-ria	2	rod			42.00	84.00
104				Bot (alko) Tool Rental	1	ea			200.00	200.00
581				Service charge	1	sk			1.50	262.50
583				Drage (win)	1	ea			250.00	250.00
0										

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: 3/17/16 TIME SIGNED: 10:50 AM

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: 3935.25

TOTAL: 4019.98

SWIFT OPERATOR: \_\_\_\_\_ APPROVAL: 05/11

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 7 MAR 16 PAGE NO. 1

CUSTOMER American Art. of WELL NO. #11 LEASE Williams JOB TYPE cement port collar TICKET NO. 29112

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk SMD cement w/ 4" fluid 27" 5" port collar - 1459'
	1400							on loc TRK 114
	1416					1000	1000	test to 1000 psi - held
	1423	3 1/2	2			500		open port collar inj rate 3 1/2 bpm @ 500 psi
	1426	3 1/2				500		mix SMD cement @ 112 ppm
		3 1/2	2			500		- fluid to surface -
		3 1/2	57			600		Cement to surface 110 sk mixed 20 top
		3 1/2	5			600		Displace w/ 5 bbl H <sub>2</sub> O close port collar
	1445					100	200	test to 100 psi - held
	1455							Run 5 joints
	1501		18					Reverse hole clamp - 2 cement plugs -
	1510							wash truck
								Pack up
	1540							job complete
								Tanks
								Flat Blair, # 10411