



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1268581  
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: \_\_\_\_\_



1268581

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Melvin 2-16 Unit
Doc ID	1268581

Tops

Name	Top	Datum
Anhydrite	1421	754
Heebner	3630	-1455
Lansing	3676	-1501
Base Kansas City	4002	-1827
Pawnee	4069	-1894
Ft. Scott	4148	-1973
Cherokee	4166	-1991
Mississippian	4240	-2065
TD	4261	-2086



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Incorporated**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Melvin Unit #2-16**

### **16-18s-21w Ness,KS**

Start Date: 2015.08.29 @ 21:36:00

End Date: 2015.08.30 @ 04:39:30

Job Ticket #: 63049                      DST #: 1

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

Printed: 2015.08.31 @ 16:40:44

American Warrior Incorporated  
16-18s-21w Ness,KS  
Melvin Unit #2-16  
DST # 1  
Mississippi  
2015.08.29



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Incorporated

**16-18s-21w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63049

**DST#: 1**

ATTN: Jason Alm

Test Start: 2015.08.29 @ 21:36:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:30

Time Test Ended: 04:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

**Interval: 4251.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Reference Elevations: 2175.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6838 Inside**

Press@RunDepth: 99.10 psig @ 4256.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.29

End Date:

2015.08.30

Last Calib.: 2015.08.30

Start Time: 21:37:00

End Time:

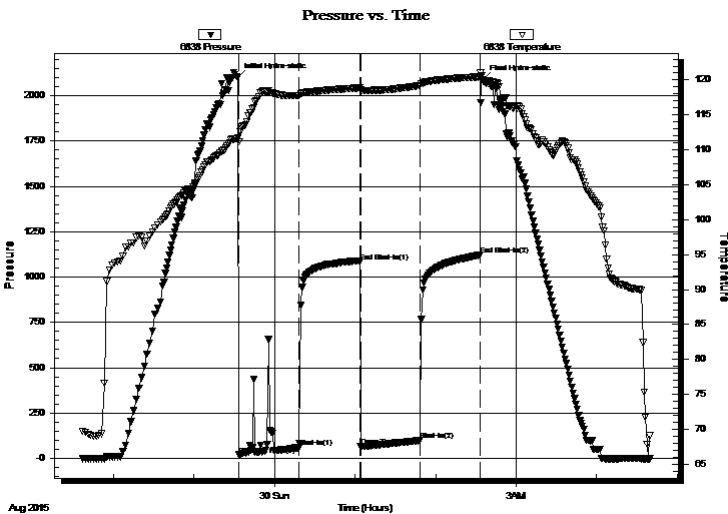
04:39:30

Time On Btm: 2015.08.29 @ 23:32:30

Time Off Btm: 2015.08.30 @ 02:35:30

**TEST COMMENT:** IFP 45 Minutes BOB in 42 minutes  
ISI 45 Minutes Blow back built to 1/4"  
FFP 45 Minutes Fair blow built to 8 1/2"  
FSI 45 Minutes Surface blow back for 15 minutes

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.42	111.67	Initial Hydro-static
1	18.94	111.21	Open To Flow (1)
46	59.15	117.73	Shut-In(1)
91	1081.41	118.88	End Shut-In(1)
92	64.24	118.55	Open To Flow (2)
136	99.10	119.20	Shut-In(2)
181	1120.88	120.46	End Shut-In(2)
183	2089.15	119.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCWEO Mud 5% Water 15% Emuls Oil	800.15
202.00	CGO Gas 10% Oil 90%	2.83
0.00	209' GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Incorporated

**16-18s-21w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63049

**DST#: 1**

ATTN: Jason Alm

Test Start: 2015.08.29 @ 21:36:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:30

Time Test Ended: 04:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

**Interval: 4251.00 ft (KB) To 4260.00 ft (KB) (TVD)**

Reference Elevations: 2175.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**

Press@RunDepth: 1123.75 psig @ 4257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.29

End Date:

2015.08.30

Last Calib.: 2015.08.30

Start Time: 21:37:00

End Time:

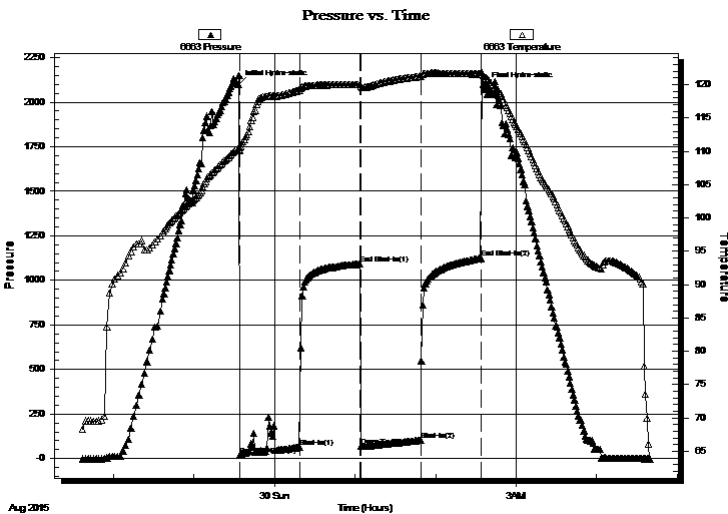
04:40:00

Time On Btm: 2015.08.29 @ 23:33:00

Time Off Btm: 2015.08.30 @ 02:36:30

**TEST COMMENT:** IFP 45 Minutes BOB in 42 minutes  
ISI 45 Minutes Blow back built to 1/4"  
FFP 45 Minutes Fair blow built to 8 1/2"  
FSI 45 Minutes Surface blow back for 15 minutes

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.83	110.33	Initial Hydro-static
1	21.24	110.19	Open To Flow (1)
46	62.37	119.17	Shut-In(1)
91	1092.52	120.04	End Shut-In(1)
92	67.26	119.70	Open To Flow (2)
136	102.25	121.23	Shut-In(2)
181	1123.75	121.58	End Shut-In(2)
184	2084.53	121.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCWEO Mud 5% Water 15% Emuls Oil	80.15
202.00	CGO Gas 10% Oil 90%	2.83
0.00	209' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Incorporated

**16-18s-21w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63049

**DST#: 1**

ATTN: Jason Alm

Test Start: 2015.08.29 @ 21:36:00

## Tool Information

Drill Pipe:	Length: 4219.00 ft	Diameter: 3.80 inches	Volume: 59.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4251.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4229.00	
Hydraulic tool	5.00			4234.00	
Jars	5.00			4239.00	
Safety Joint	2.00			4241.00	
Top Packer	5.00			4246.00	
Packer	5.00			4251.00	27.00 Bottom Of Top Packer
Anchor	4.00			4255.00	
Recorder	1.00	6838	Inside	4256.00	
Recorder	1.00	6663	Outside	4257.00	
Bullnose	3.00			4260.00	9.00 Anchor Tool
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Incorporated

**16-18s-21w Ness,KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63049

**DST#: 1**

ATTN: Jason Alm

Test Start: 2015.08.29 @ 21:36:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MCWEO Mud 5% Water 15% Emuls Oil 80%	0.148
202.00	CGO Gas 10% Oil 90%	2.834
0.00	209' GIP	0.000

Total Length: 232.00 ft      Total Volume: 2.982 bbl

Num Fluid Samples: 0

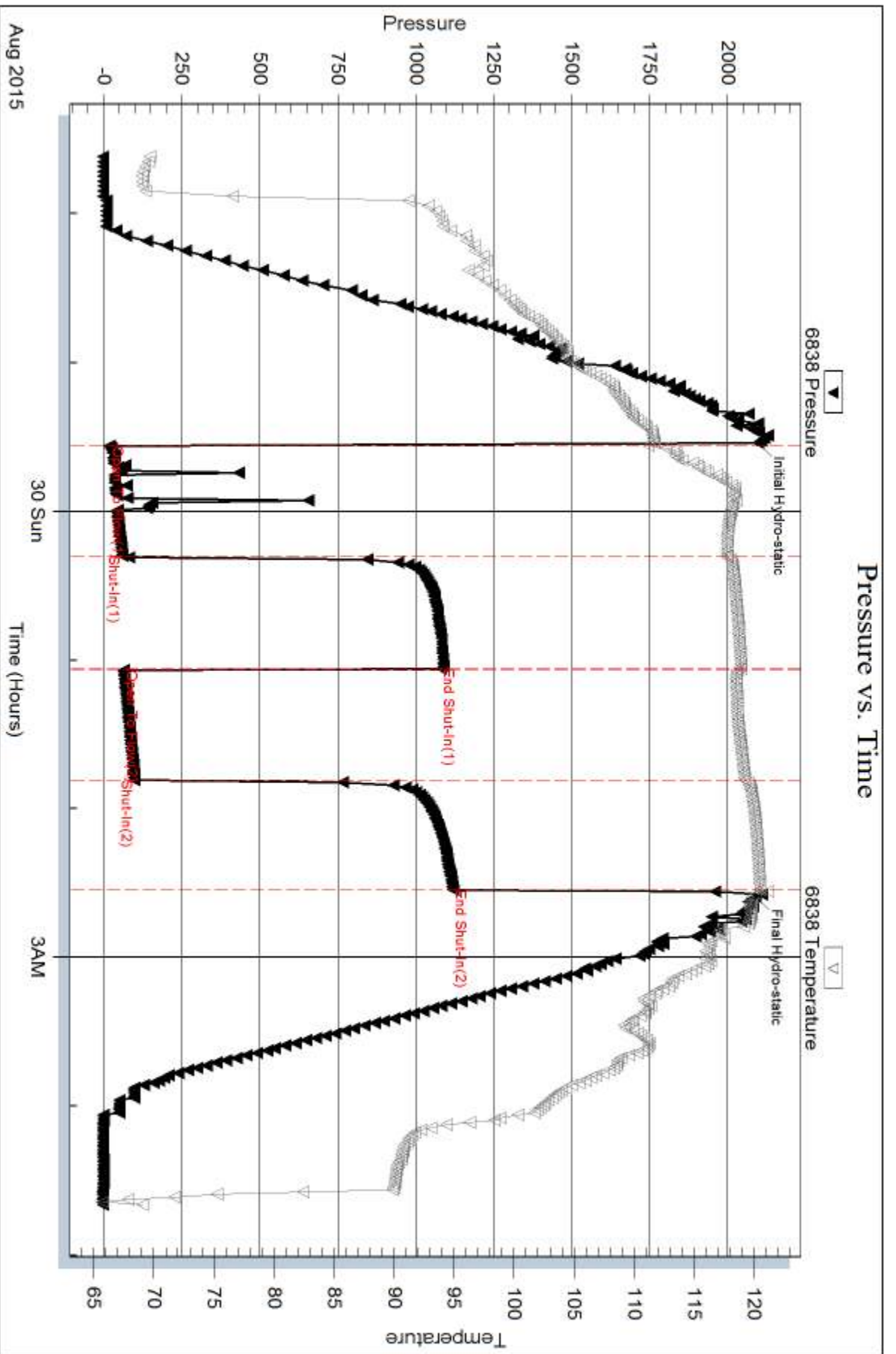
Num Gas Bombs: 0

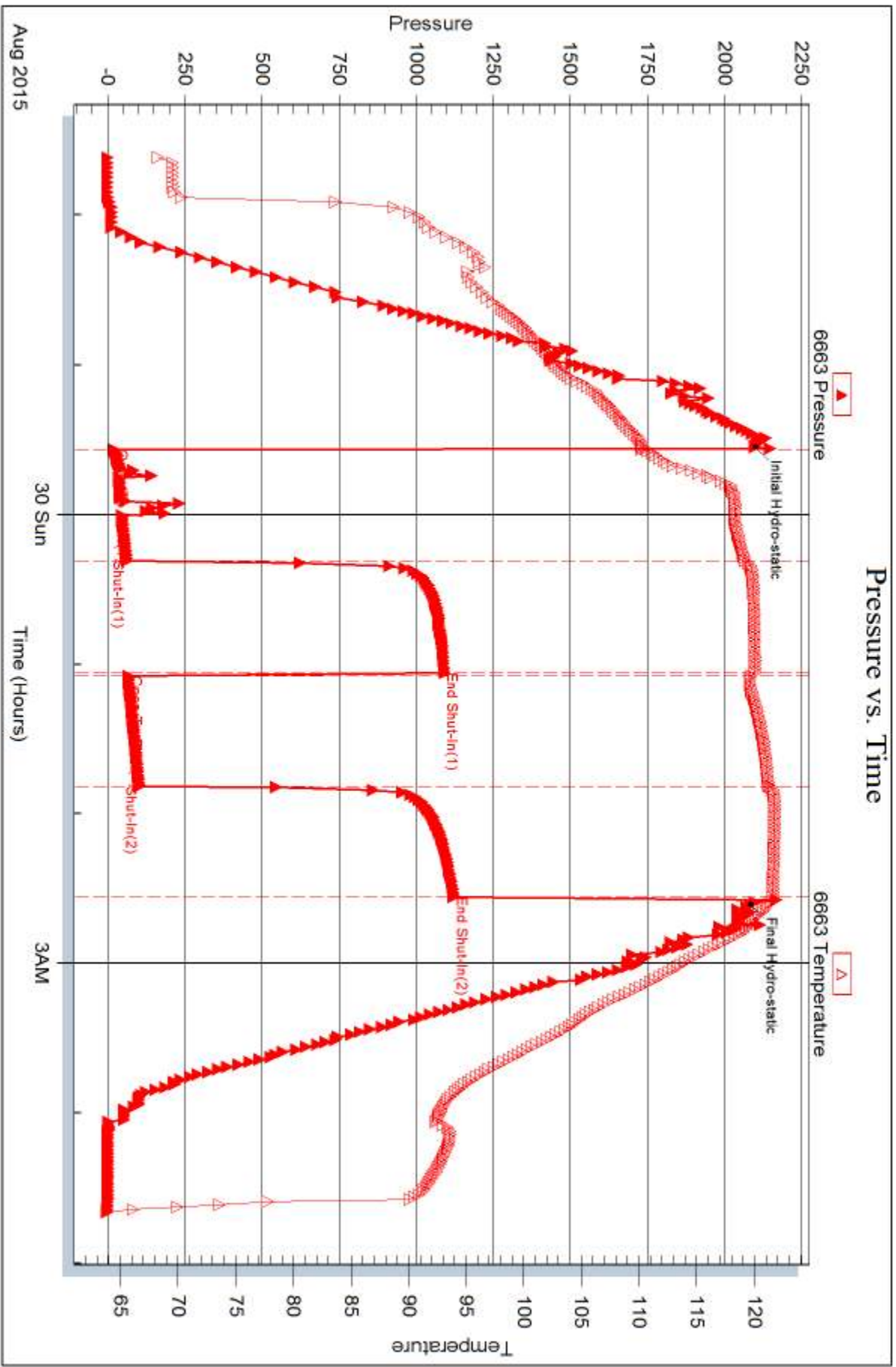
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Incorporated**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

### **Melvin Unit #2-16**

### **16-18s-21w Ness,KS**

Start Date: 2015.08.30 @ 11:05:00

End Date: 2015.08.30 @ 16:00:00

Job Ticket #: 63050                      DST #: 2

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

Printed: 2015.08.31 @ 16:40:04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Incorporated

**16-18s-21w Ness,KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63050

**DST#: 2**

ATTN: Jason Alm

Test Start: 2015.08.30 @ 11:05:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:55:30

Time Test Ended: 16:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

**Interval: 4259.00 ft (KB) To 4265.00 ft (KB) (TVD)**

Reference Elevations: 2175.00 ft (KB)

Total Depth: 4265.00 ft (KB) (TVD)

2167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6838**

**Inside**

Press@RunDepth: 37.92 psig @ 4261.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.30

End Date:

2015.08.30

Last Calib.:

2015.08.30

Start Time:

11:06:00

End Time:

16:00:00

Time On Btm:

2015.08.30 @ 12:54:30

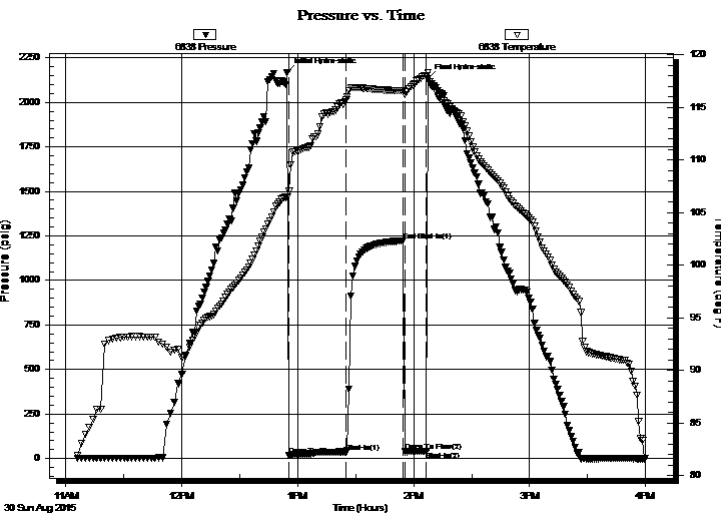
Time Off Btm:

2015.08.30 @ 14:07:30

**TEST COMMENT:** IFP 30 Minutes Weak blow built to 1/4" in 15 min - Flush tool - Built to 1/2 inch

ISI 30 Minutes No blow back

FFP 10 Minutes Few bubble at open then dead - Pulled after 10 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.10	106.51	Initial Hydro-static
1	17.62	107.09	Open To Flow (1)
31	37.92	115.72	Shut-In(1)
60	1222.74	116.55	End Shut-In(1)
61	38.30	116.20	Open To Flow (2)
72	42.28	117.99	Shut-In(2)
73	2131.55	118.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCMW Oil 5% Mud 35% Water 60%	0.57
3.00	Clean Oil 100%	0.04

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Incorporated

**16-18s-21w Ness,KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63050

**DST#: 2**

ATTN: Jason Alm

Test Start: 2015.08.30 @ 11:05:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:55:30

Time Test Ended: 16:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 58

**Interval: 4259.00 ft (KB) To 4265.00 ft (KB) (TVD)**

Reference Elevations: 2175.00 ft (KB)

Total Depth: 4265.00 ft (KB) (TVD)

2167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6663 Outside**

Press@RunDepth: 1226.08 psig @ 4262.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.30

End Date: 2015.08.30

Last Calib.: 2015.08.30

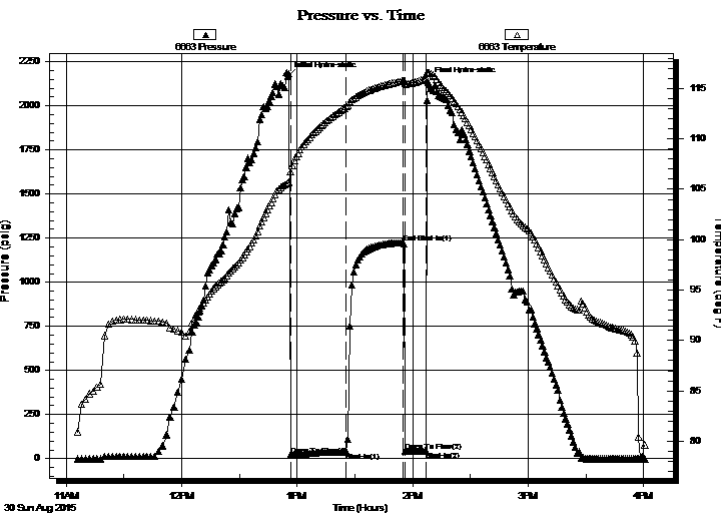
Start Time: 11:06:00

End Time: 16:00:30

Time On Btm: 2015.08.30 @ 12:55:00

Time Off Btm: 2015.08.30 @ 14:08:00

**TEST COMMENT:** IFP 30 Minutes Weak blow built to 1/4" in 15 min - Flush tool - Built to 1/2 inch  
 ISI 30 Minutes No blow back  
 FFP 10 Minutes Few bubble at open then dead - Pulled after 10 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.64	105.59	Initial Hydro-static
2	21.68	106.73	Open To Flow (1)
31	38.82	113.19	Shut-In(1)
60	1226.08	115.77	End Shut-In(1)
61	39.98	115.47	Open To Flow (2)
72	44.59	116.04	Shut-In(2)
73	2135.30	116.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCMW Oil 5% Mud 35% Water 60%	0.57
3.00	Clean Oil 100%	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Incorporated

**16-18s-21w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63050

**DST#: 2**

ATTN: Jason Alm

Test Start: 2015.08.30 @ 11:05:00

## Tool Information

Drill Pipe:	Length: 4219.00 ft	Diameter: 3.80 inches	Volume: 59.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4259.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4237.00	
Hydraulic tool	5.00			4242.00	
Jars	5.00			4247.00	
Safety Joint	2.00			4249.00	
Top Packer	5.00			4254.00	
Packer	5.00			4259.00	27.00 Bottom Of Top Packer
Anchor	1.00			4260.00	
Recorder	1.00	6838	Inside	4261.00	
Recorder	1.00	6663	Outside	4262.00	
Bullnose	3.00			4265.00	6.00 Anchor Tool
<b>Total Tool Length:</b>	<b>33.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Incorporated

**16-18s-21w Ness,KS**

PO Box 399  
Garden City, KS 67846

**Melvin Unit #2-16**

Job Ticket: 63050

**DST#: 2**

ATTN: Jason Alm

Test Start: 2015.08.30 @ 11:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

12000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCMW Oil 5% Mud 35% Water 60%	0.568
3.00	Clean Oil 100%	0.042

Total Length: 63.00 ft      Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recov. Resit. .38ohms @ 95 deg

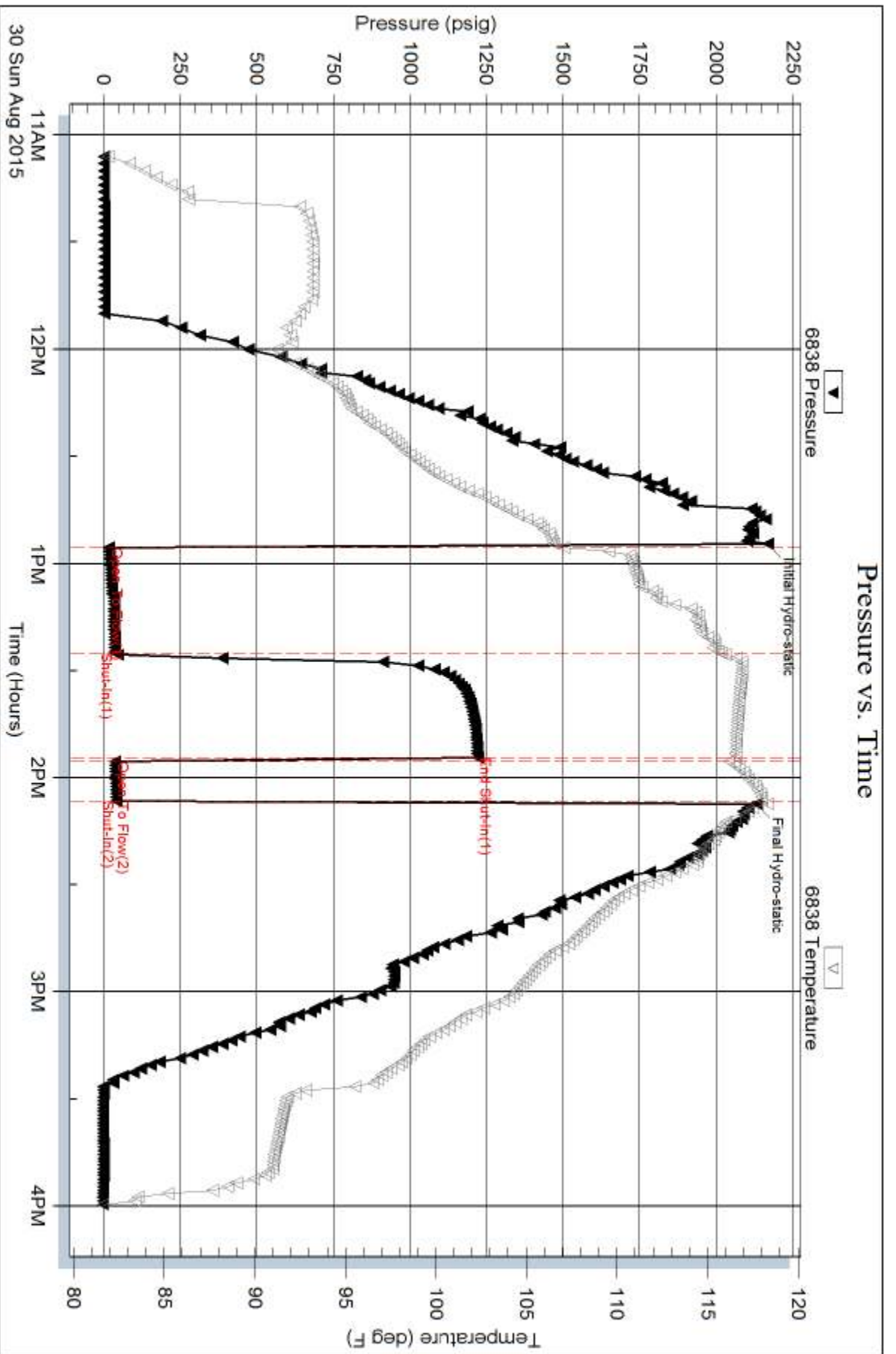
Serial #: 6838

Inside

American Warrior Incorporated

Mevin Unit #2-16

DST Test Number: 2

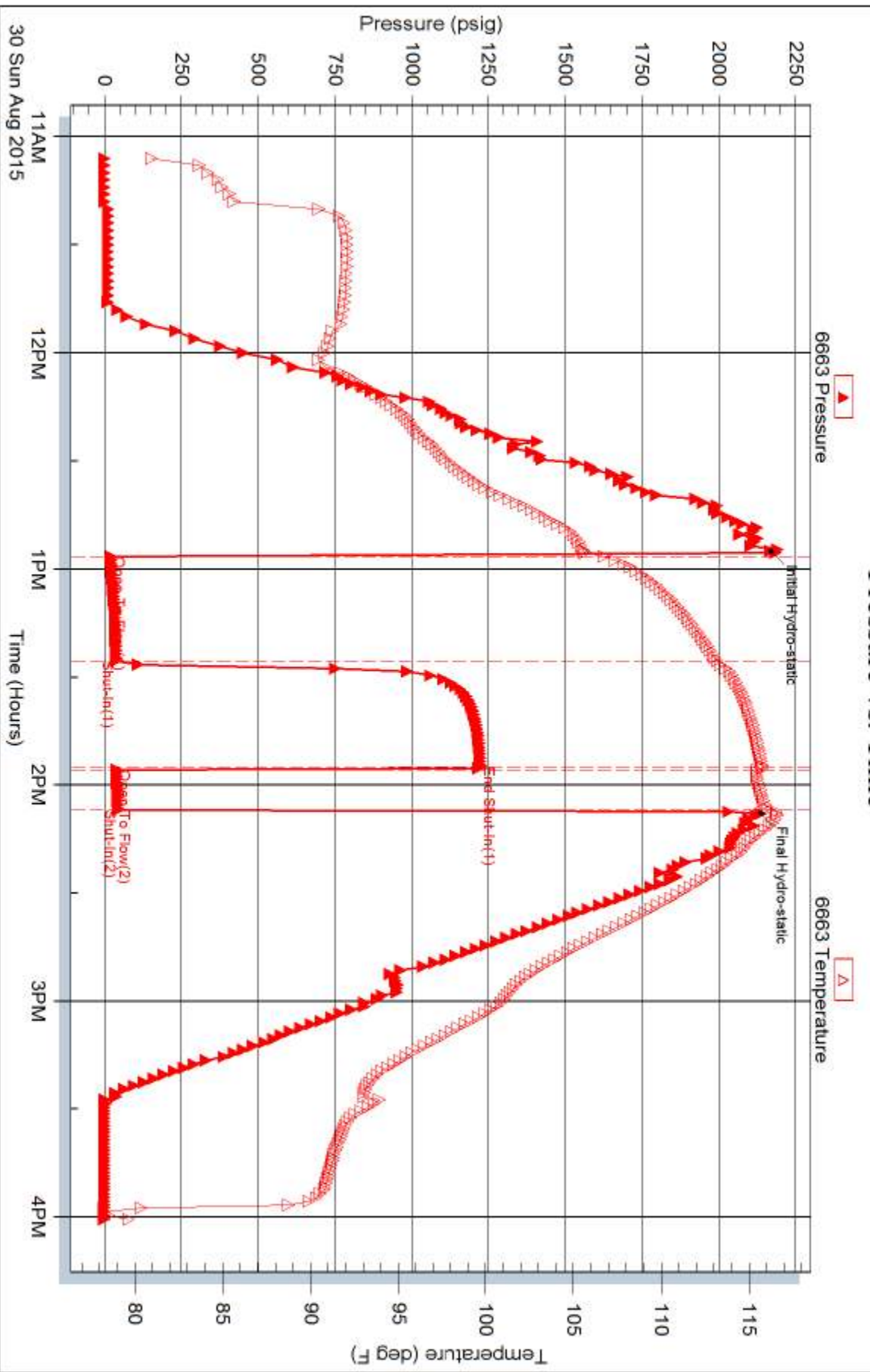


Trilobite Testing, Inc

Ref. No: 63050

Printed: 2015.08.31 @ 16:40:07

### Pressure vs. Time





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63049

Well Name & No. Melvin Unit #2-16 Test No. 1 Date 29 Aug 15  
 Company American Warrior Incorporated Elevation 2175 KB 2167 GL  
 Address 3118 Cummings Road PO Box 399 Garden City, Kansas 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 3  
 Location: Sec. 16 Twp. 18S Rge. 21W Co. Ness State KS

Interval Tested 4251-4260 Zone Tested Mississippi  
 Anchor Length 9 Drill Pipe Run 4219 Mud Wt. 9.4  
 Top Packer Depth 4246 Drill Collars Run 30 Vis 50  
 Bottom Packer Depth 4251 Wt. Pipe Run - WL 8.8  
 Total Depth 4260 Chlorides 3400 ppm System LCM ~~3400~~ 1/2 #  
 Blow Description Good blow/ Blow built to bottom of bucket in 42 minutes  
Blow back built to 1/4 inch  
Fair blow/ Blow built to 8 1/2 inches  
Surface blow back for 15 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud cut Watery Emulsified oil</u>	<u>80%</u>	<u>15%</u>	<u>5%</u>	
<u>202</u>	<u>Clean Gassy Oil</u>	<u>10%</u>	<u>90%</u>		
<u>209</u>	<u>Gas in pipe</u>	<u>100%</u>			

Rec Total 232 BHT 121 Gravity 35 API RW @ ° F Chlorides ppm  
 (A) Initial Hydrostatic 2098  Test 1150 T-On Location 8:42 pm  
 (B) First Initial Flow 18  Jars 250 T-Started 9:36 pm  
 (C) First Final Flow 59  Safety Joint 75 T-Open 11:34 pm  
 (D) Initial Shut-In 1081  Circ Sub \_\_\_\_\_ T-Pulled 2:34 am  
 (E) Second Initial Flow 64  Hourly Standby \_\_\_\_\_ T-Out 4:40 am  
 (F) Second Final Flow 99  Mileage 106 Comments \_\_\_\_\_  
 (G) Final Shut-In 1120  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  
 \_\_\_\_\_  Shale Packer \_\_\_\_\_  
 \_\_\_\_\_  Shale Packer \_\_\_\_\_  
 \_\_\_\_\_  Extra Packer \_\_\_\_\_  
 \_\_\_\_\_  Extra Recorder \_\_\_\_\_  
 \_\_\_\_\_  Day Standby \_\_\_\_\_  
 \_\_\_\_\_  Accessibility \_\_\_\_\_  
 Sub Total 1581

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Approved By Jason T Alm Our Representative Keith Duff

Sub Total 0  
 Total 1581  
 MP/DST Disc't \_\_\_\_\_

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. 63050

Well Name & No. Melvin Unit 2-16 Test No. 2 Date 30 Aug 15  
 Company American Warrior Incorporated Elevation 2175 KB 2167 GL  
 Address 3118 Cumming Road PO Box 399 Garden City Kansas 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 3  
 Location: Sec. 16 Twp. 18S Rge. 21W Co. Ness State KS

Interval Tested 4259-4265 Zone Tested Mississippi  
 Anchor Length 6 Drill Pipe Run 4219 Mud Wt. 9.5  
 Top Packer Depth 4254 Drill Collars Run 30 Vis 52  
 Bottom Packer Depth 4259 Wt. Pipe Run - WL 9.2  
 Total Depth 4265 Chlorides 4800 ppm System LCM  
 Blow Description Weak blow / Blow to 1/4 inch 15 minutes / Flush tool / Build to 1/2 inch  
No blow back  
Few bubbles at open then dead pulled after 10 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>0.7 cut Muddy Water</u>		<u>5%</u>	<u>60%</u>	<u>35%</u>
<u>3</u>	<u>Clean 0.7</u>		<u>100%</u>		

Rec Total 63 BHT 117 Gravity 1150 API RW .38 @ 95 ° F Chlorides 12,000 ppm  
 Test 1150  
 Jars 250  
 Safety Joint 75  
 Circ Sub  
 Hourly Standby  
 Mileage 106  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1475

T-On Location Stayed on location  
 T-Started 11:05 am  
 T-Open 12:56 pm  
 T-Pulled 2:06 pm  
 T-Out 4:00 pm  
 Comments  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1475  
 MP/DST Disc't

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In NA

Approved By [Signature] Our Representative [Signature]

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 of 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.

**Melvin Unit #2-16**

900' FSL & 2675' FWL

Sec. 16 T18s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Melvin Unit #2-16  
900' FSL & 2675' FWL  
Sec. 16 T18s R21w  
Ness County, Kansas  
API # 15-135-25885-0000

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

Geologist: Jason T Alm

Spud Date: August 24, 2015

Completion Date: August 30, 2015

Elevation: 2167' Ground Level  
2175' Kelly Bushing

Directions: Bazine KS, East 2 mi on Hwy 96 to FF Rd, North 2 mi to 150 Rd, East ½ mi, North into location.

Casing: 220' 8 5/8" surface casing  
4260' 5 1/2" production casing

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

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "J. Hendrickson"  
CNL/CDL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Ken Swinney"

Problems: None

Remarks: Slight plugging action during initial flow of DST #1.

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Melvin Unit #2-16</b> <b>Sec. 16 T18s R21w</b> <b>900' FSL &amp; 2675' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1421', +754</b>
Base	<b>1454', +721</b>
Heebner	<b>3630', -1455</b>
Lansing	<b>3676', -1501</b>
BKC	<b>4002', -1827</b>
Pawnee	<b>4069', -1894</b>
Fort Scott	<b>4148', -1973</b>
Cherokee	<b>4166', -1991</b>
Mississippian	<b>4240', -2065</b>
LTD	<b>4261', -2086</b>
RTD	<b>4265', -2090</b>

## Sample Zone Descriptions

**Fort Scott (4148', -1973): Not Tested**  
 Ls – Fine crystalline with poor to fair scattered inter-crystalline porosity, light spotted oil stain in porosity, no saturation, very slight show of free oil when broken, no odor, fair to good cut fluorescents, 75 units hotwire.

**Mississippian Osage (4240', -2065): Covered in DST #1,2**  
 Chert – Dolo – Weathered in part, slightly triptolic with fair to good vuggy porosity, dolomitic – fine crystalline with scattered poor inter-crystalline and vuggy porosity, light to fair oil stain in porosity with light spotted saturation, slight show of free oil, light to fair odor, fair to good yellow fluorescents, 90 units hotwire.

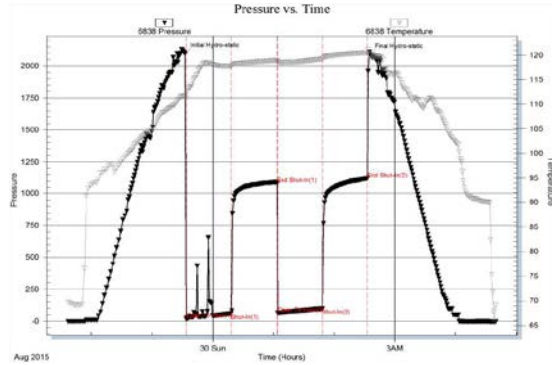
## Drill Stem Tests

Trilobite Testing, Inc.  
"Ken Swinney"

### DST #1      Mississippian Osage

Interval (4251' – 4265') Anchor Length 9'

IHP	– 2098 #	
IFP	– 45" – B.O.B. 42 min.	18-59 #
ISI	– 45" – Built to ¼ in.	1081 #
FFP	– 45" – Built to 8 ½ in.	64-99 #
FSI	– 45" – W.S.B.	1121 #
FHP	– 2089 #	
BHT	– 120°F	

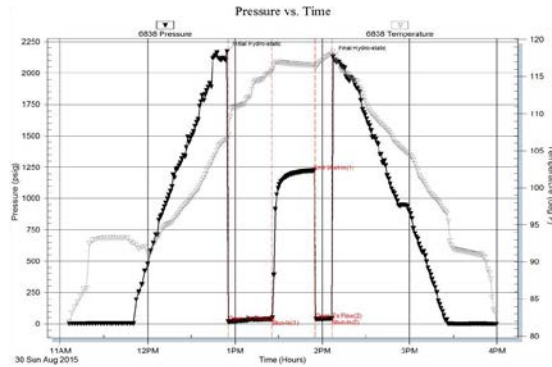


Recovery:      209' GIP  
                   202' GCO      Gravity 35° API  
                   30' MCWO      80% Oil, 15% Water

### DST #2      Mississippian Osage

Interval (4259' – 4265') Anchor Length 6'

IHP	– 2168 #	
IFP	– 30" – Built to ½ in.	17-38 #
ISI	– 30" – Dead	1223 #
FFP	– 10" – Dead	38-42 #
FHP	– 2131 #	
BHT	– 118°F	



Recovery:      3' CO  
                   60' OCMW      5% Oil, 60% Water

## Structural Comparison

	American Warrior, Inc. Melvin Unit #2-16 Sec. 16 T18s R21w 900' FSL & 2675' FWL	American Warrior, Inc. Melvin #1-16 Sec. 16 T18s R21w 1910' FSL & 940' FWL		American Warrior, Inc. Triple M #1 Sec. 15 T18s R21w 2304' FSL & 125' FWL	
<b>Formation</b>					
Anhydrite	1421', +754	1432', +749	(+5)	1418', +753	(+1)
Base	1454', +721	1463', +718	(+3)	1450', +721	FL
Heebner	3630', -1455	3648', -1467	(+12)	3644', -1473	(+18)
Lansing	3676', -1501	3692', -1511	(+10)	3680', -1509	(+8)
BKC	4002', -1827	4017', -1836	(+9)	NA	NA
Pawnee	4069', -1894	4084', -1903	(+9)	4061', -1890	(-4)
Fort Scott	4148', -1973	4162', -1981	(+8)	4139', -1968	(-5)
Cherokee	4166', -1991	4181', -2000	(+9)	4158', -1987	(-4)
Mississippian	4240', -2065	4264', -2083	(+18)	4232', -2061	(-4)

## Summary

The location for the Melvin Unit #2-16 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Melvin Unit #2-16 well.

## Recommended Perforations

### Primary:

Mississippian Osage	(4244' – 4254')	DST #1
---------------------	-----------------	--------

### Before Abandonment:

Fort Scott	(4154' – 4157')	Not Tested
------------	-----------------	------------

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



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

TICKET 20895  
 PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Miss City KS WELL PROJECT NO. # 2-16 LEASE Malvin COUNTY/PARISH Miss STATE KS CITY Bazine DATE 8-24-15 OWNER Same  
 2. \_\_\_\_\_ TICKET TYPE  SERVICE CONTRACTOR Discovery Drilling RIG NAME/NO. # 3 SHIPPED KS DELIVERED TO Location ORDER NO. \_\_\_\_\_  
 3. \_\_\_\_\_  SALES WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE General 8 3/4" Surface Pipe WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION Bazine KS - 24 2 1/4 E Mile  
 4. \_\_\_\_\_ REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			20	m	5.00	100.00
576.5					Pump Charge - Shallow Surface	1	job			800.00	800.00
325					Standard Cement			150	sk	12.25	1837.50
278					Calcium Chloride	3	%	7	sk	40.00	280.00
279					Bentonite Gel	2	%	3	sk	25.00	75.00
290					B-Air			2	gal	42.00	84.00
2581					Service Charge Cement			150	sk	1.50	225.00
582					Minimum Drillage Charge			1	ea	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  
 X David Kuehn  
 DATE SIGNED 8-24-15 TIME SIGNED 2:15 P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 3657 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 David Kuehn APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8-24-85 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #2-16 LEASE Melvin JOB TYPE Surface Pipe TICKET NO. 28893

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<del>2000</del>	2000						on location 8 5/8" 28"
								RTD - 221 TP - 221 Set - 220
								Rig run 8 5/8" surface pipe
	2140							Break circulation
	2148	4 1/2	5		✓		150	Pump 5 bbl water spacer
	2150	4 1/2	36		✓		100	Mix 150 sks @ 14.7 ppg
								Wash out Pump & lines
	<del>2200</del>	4 1/2	0		✓		100	Start Displacement
		4 1/2	5		✓		100	Circulate cement to pit *30 sks*
	2212	4 1/2	13.1		✓		200	Kick out Pump
	2215							Shut in valve *Hold*
								wash up truck
	2230							Job Complete

Thank You  
Dave John Issac



Services, Inc.

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

TICKET 28896

PAGE 1 OF 2

1. SERVICE LOCATIONS Ass City, KS	WELL/PROJECT NO. 12-16	LEASE Melvin Unit	COUNTY/PARISH Adas	STATE KS	CITY Bazine	DATE 8-31-15	OWNER Same
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Disaery Drilling	RIG NAME NO. #3	SHIPPED VICT	DELIVERED TO Location	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE 0:1	WELL CATEGORY Development	JOB PURPOSE Cement 5 1/2" Longstring	WELL LOCATION Bazine KS-2 E 24 1/2 E		4. REFERRAL LOCATION INVOICE INSTRUCTIONS 4 info		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			20	mi	5.00	1000.00
578					Pump - Change - Longstring	1	job			1250.00	1250.00
402					Controlizer	5 1/2	in	5	ea	60.00	3000.00
403					Cement Basket	5 1/2	in	2	ea	250.00	500.00
404					Port Collar	5 1/2	in	1	ea	2500.00	2500.00
406					Latch Down Plug + Baffle	5 1/2	in	1	ea	225.00	225.00
407					Insert Seal Shoe w/ Auto Fill	5 1/2	in	1	ea	300.00	300.00
419					Rotating Head Rental	5 1/2	in	1	ea	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: 8-31-15  
TIME SIGNED: 0300  
BY: [Signature]

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

SUREY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	41	5375.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				TOTAL	42	5147.25
WE UNDERSTOOD AND MET YOUR NEEDS?				TAX		
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TOTAL		
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						

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES  
SWIFT OPERATOR: David Kuehn  
APPROVAL: [Signature]  
Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 8-31-15 PAGE NO. 1

CUSTOMER American Warrior Inc WELL NO. #2-16 LEASE McLuvin Unit JOB TYPE Cement 5 1/2" Longstring TICKET NO. 28896

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230							on location 5 1/2" 15.5"
								RTD-4265' LTD-4261' TP-4267' Set-4264' ST-#1 4165' P.C. #72 1393' vent-#1"2"3"4"71 Basket #5"72 out-#98"104
	0655							Start 5 1/2" 15.5" casing in well
	0650							Drop Ball circulate * Rotate *
	0705	6 1/2	12		✓	350		Pump 500 gal Mud flush
		6 1/2	20		✓	350		Pump 20 bbl KCL flush
			7.5					Plug RH-MH (30-20)
	0744	4 1/2	30		✓	250		mix 125 ska EA-2 @ 15.5 ppq
								Wash out Pump & lines Release latch Down Plug
	0801	6 1/2	0		✓	200		Start Displacement
		6 1/2	77		✓	300		lift Pressure
		6 1/2	99		✓	850		Max lift Pressure
	0817	6 1/2	100.5		✓	1600		land latch Down Plug
								Release Pressure * Hold *
								wash up truck
	0900							Job Complete
								Thank You Duke John Preston



Services, Inc.

TICKET 28986

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

PAGE 1 OF

SERVICE LOCATIONS  
 1. Ness City, KS  
 2.  
 3.  
 4. REFERRAL LOCATION

WELL/PROJECT NO. MELVIN 2-16 well  
 CONTRACTOR HD OIL FIELD SERV.  
 TICKET TYPE  SERVICE  SALES  
 WELL TYPE OIL  
 LEASE COUNTY/ABLIST NESS  
 RIG NAME/NO. NESS  
 WELL CATEGORY DEVELOPMENT  
 JOB PURPOSE CEMENT PORT COLLAR  
 STATE KS  
 CITY BRAZNE, KS  
 DATE 17 Sep 15  
 OWNER

INVOICE INSTRUCTIONS  
 WELL PERMIT NO. 2E 2N 14E N1 E10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE \$115	20	MI				5.00	100.00
576D					PUMP CHARGE						1250.00	1250.00
105					PORT COLLAR DRESSING TOOL	15	LB				275.00	275.00
276					FUDGE	30	LB				2.25	67.50
290					D-AIR	13	PK				48.00	63.00
330					SMD CEMENT	120	SX				15.75	1890.00
581					CEMENT SERVICE CHARGE	175	SX				1.50	262.50
582					MINIMUM DRAPAGE	1740	LB				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 17 Sep 15 TIME SIGNED 17:25  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 4158  
 TAX 149.21  
 TOTAL 4307.21

SWIFT OPERATOR [Signature]  
 APPROVAL [Signature]  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket  
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 17 Sep 15 PAGE NO. 1

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE MELVIN 2-76 UNIT

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 28986

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							ON LOCATION
								PORT COLLAR @ 1394
	1610				✓		1000	TEST - HELD
	1613							OPEN PORT COLLAR
	1618	4	46	✓		400		MIX 120 SX SMD
		3	4 1/2	✓		250		DISPLACE CEMENT
								CIRCULATE 20 SX TO PIT
	1639				✓		1000	CLOSE PORT COLLAR - TEST - HELD
								RUN 5 JTS.
	1649	3 1/2	18		✓		200	REVERSE CLEAN
	1651							WASH TRUCK
	1720							JOB COMPLETE.
								THANKS #115
								JASON COLE PRESTON