

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	LEXINGTON MORROW 1
Doc ID	1321411

All Electric Logs Run

Sonic
Dual IND
Micro
Dual Comp Porosity





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Incorporated

**19/31S/21W/Clark**

3118 Cummings Road  
PO Box 399  
Garden City, Kansas 67846  
ATTN: Luke Thompson

**Lexington-Marrow 1**

Job Ticket: 65117

**DST#: 3**

Test Start: 2016.09.02 @ 08:57:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:30

Time Test Ended: 17:39:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 134

**Interval: 5192.00 ft (KB) To 5245.00 ft (KB) (TVD)**

Reference Elevations: 2185.00 ft (KB)

Total Depth: 5400.00 ft (KB) (TVD)

2172.00 ft (CF)

Hole Diameter: 8.80 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 6999 Inside**

Press@RunDepth: 303.18 psig @ 5239.39 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.02 End Date: 2016.09.02

Last Calib.: 2016.09.02

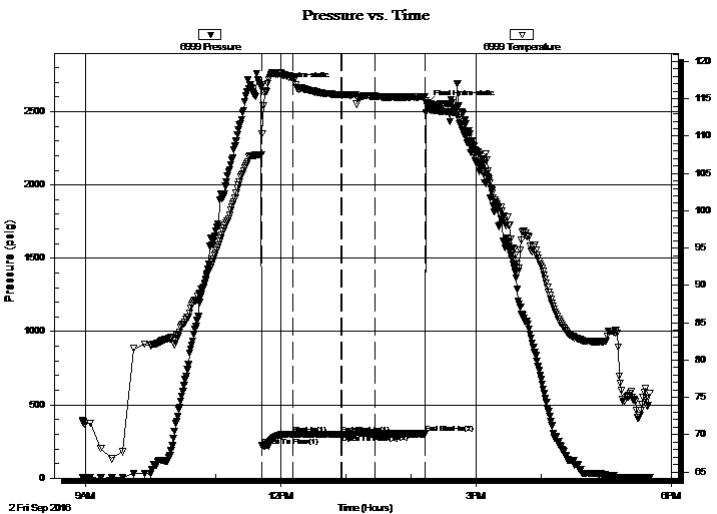
Start Time: 08:57:05 End Time: 17:39:30

Time On Btm: 2016.09.02 @ 11:41:30

Time Off Btm: 2016.09.02 @ 14:14:00

**TEST COMMENT:** I.F. 30 minutes/Blow built to bottom of bucket in 3 minutes  
I.S.I. 45 minutes/no blow back  
F.F. 30 minutes/Dead no blow /Flush tool light surge then dead  
F.S.I. 45 minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2668.71	107.54	Initial Hydro-static
1	221.01	110.30	Open To Flow (1)
29	300.00	117.78	Shut-In(1)
74	301.38	115.54	End Shut-In(1)
75	301.38	115.51	Open To Flow (2)
105	303.18	115.35	Shut-In(2)
151	302.88	115.28	End Shut-In(2)
153	2552.16	114.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
542.00	Muddy water with skim of oil in sample	5.93
0.00	Mud 20% Water 80%	0.00

## Gas Rates

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



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# DRILL STEM TEST REPORT

American Warrior Incorporated

**19/31S/21W/Clark**

3118 Cummings Road  
PO Box 399  
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ATTN: Luke Thompson

**Lexington-Marrow 1**

Job Ticket: 65117

**DST#: 3**

Test Start: 2016.09.02 @ 08:57:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:30

Time Test Ended: 17:39:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 134

**Interval: 5192.00 ft (KB) To 5245.00 ft (KB) (TVD)**

Reference Elevations: 2185.00 ft (KB)

Total Depth: 5400.00 ft (KB) (TVD)

2172.00 ft (CF)

Hole Diameter: 8.80 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8960 Outside**

Press@RunDepth: 300.83 psig @ 5239.39 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.02 End Date: 2016.09.02

Last Calib.: 2016.09.02

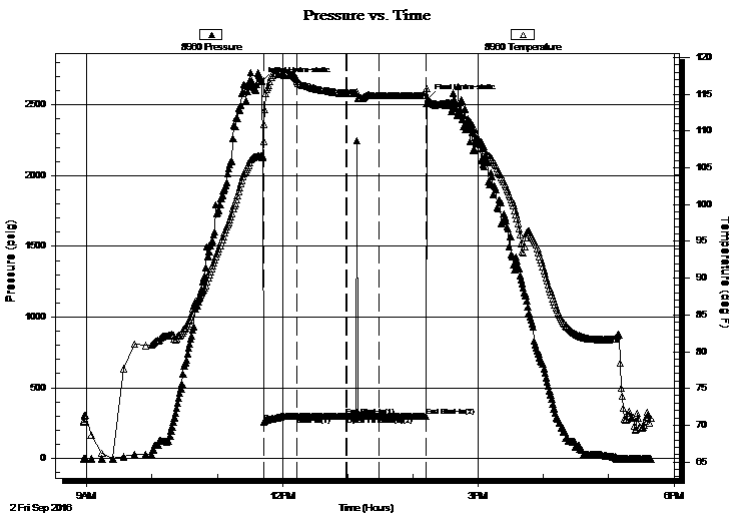
Start Time: 08:57:05 End Time: 17:39:00

Time On Btm: 2016.09.02 @ 11:41:00

Time Off Btm: 2016.09.02 @ 14:14:00

**TEST COMMENT:** I.F. 30 minutes/Blow built to bottom of bucket in 3 minutes  
I.S.I. 45 minutes/no blow back  
F.F. 30 minutes/Dead no blow /Flush tool light surge then dead  
F.S.I. 45 minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2666.33	106.69	Initial Hydro-static
2	257.63	110.93	Open To Flow (1)
32	299.58	117.05	Shut-In(1)
77	299.65	115.23	End Shut-In(1)
78	299.66	115.26	Open To Flow (2)
108	300.76	114.81	Shut-In(2)
151	300.83	114.84	End Shut-In(2)
153	2544.07	114.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
542.00	Muddy water with skim of oil in sample	5.93
0.00	Mud 20% Water 80%	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Incorporated

**19/31S/21W/Clark**

3118 Cummings Road  
PO Box 399  
Garden City, Kansas 67846  
ATTN: Luke Thompson

**Lexington-Marrow 1**

Job Ticket: 65117

**DST#: 3**

Test Start: 2016.09.02 @ 08:57:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:30

Time Test Ended: 17:39:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Pratt/ 134

**Interval: 5192.00 ft (KB) To 5245.00 ft (KB) (TVD)**

Reference Elevations: 2185.00 ft (KB)

Total Depth: 5400.00 ft (KB) (TVD)

2172.00 ft (CF)

Hole Diameter: 8.80 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8521 Below (Straddle)**

Press@RunDepth: 1742.61 psig @ 5268.24 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.02 End Date: 2016.09.02

Last Calib.: 2016.09.02

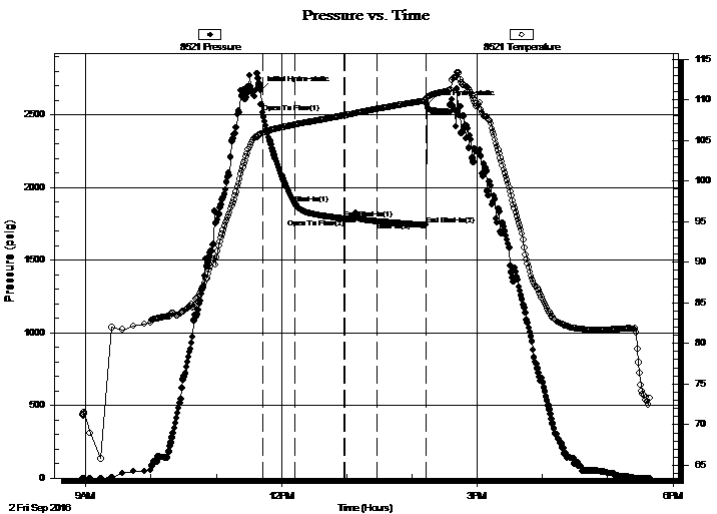
Start Time: 08:57:05 End Time: 17:39:00

Time On Btm: 2016.09.02 @ 11:41:00

Time Off Btm: 2016.09.02 @ 14:13:30

**TEST COMMENT:** I.F. 30 minutes/Blow built to bottom of bucket in 3 minutes  
I.S.I. 45 minutes/no blow back  
F.F. 30 minutes/Dead no blow /Flush tool light surge then dead  
F.S.I. 45 minutes/No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2667.14	105.77	Initial Hydro-static
2	2514.58	105.87	Open To Flow (1)
32	1887.39	106.91	Shut-In(1)
77	1784.40	108.03	End Shut-In(1)
78	1783.46	108.06	Open To Flow (2)
107	1765.54	108.83	Shut-In(2)
152	1742.61	109.85	End Shut-In(2)
153	2570.59	110.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
542.00	Muddy water with skim of oil in sample	5.93
0.00	Mud 20% Water 80%	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Incorporated

**19/31S/21W/Clark**

3118 Cummings Road  
PO Box 399  
Garden City, Kansas 67846  
ATTN: Luke Thompson

**Lexington-Marrow 1**

Job Ticket: 65117

**DST#: 3**

Test Start: 2016.09.02 @ 08:57:00

### 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:

38000 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
542.00	Muddy water with skim of oil in sample	5.927
0.00	Mud 20% Water 80%	0.000

Total Length: 542.00 ft      Total Volume: 5.927 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .152 ohms @ 82 deg



Serial #: 6999

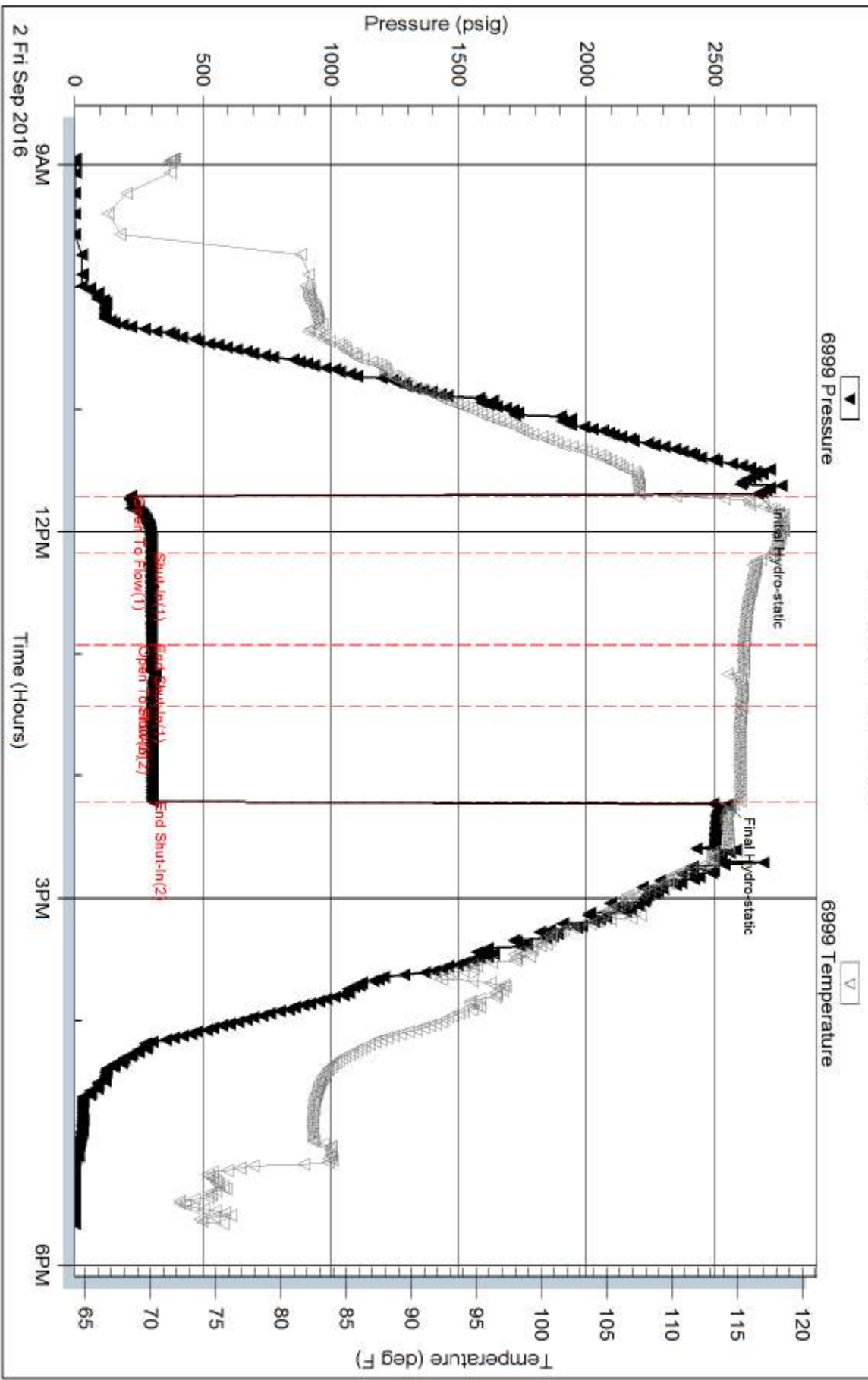
Inside

American Warrior Incorporated

Lexington-Marrow 1

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65117

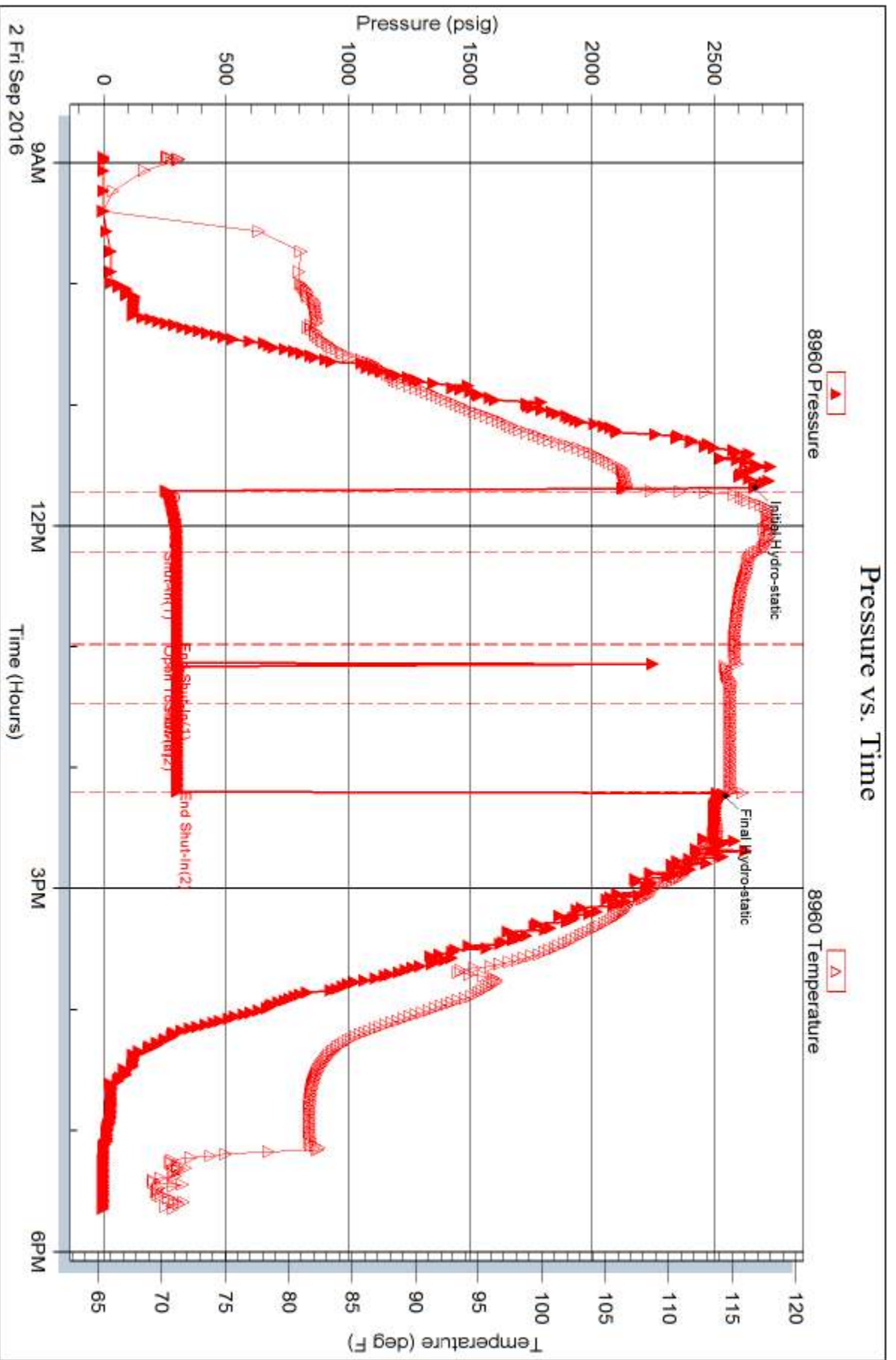
Printed: 2016.09.02 @ 18:30:55

Serial #: 8960

Outside American Warrior Incorporated

Lexington-Marrow 1

DST Test Number: 3

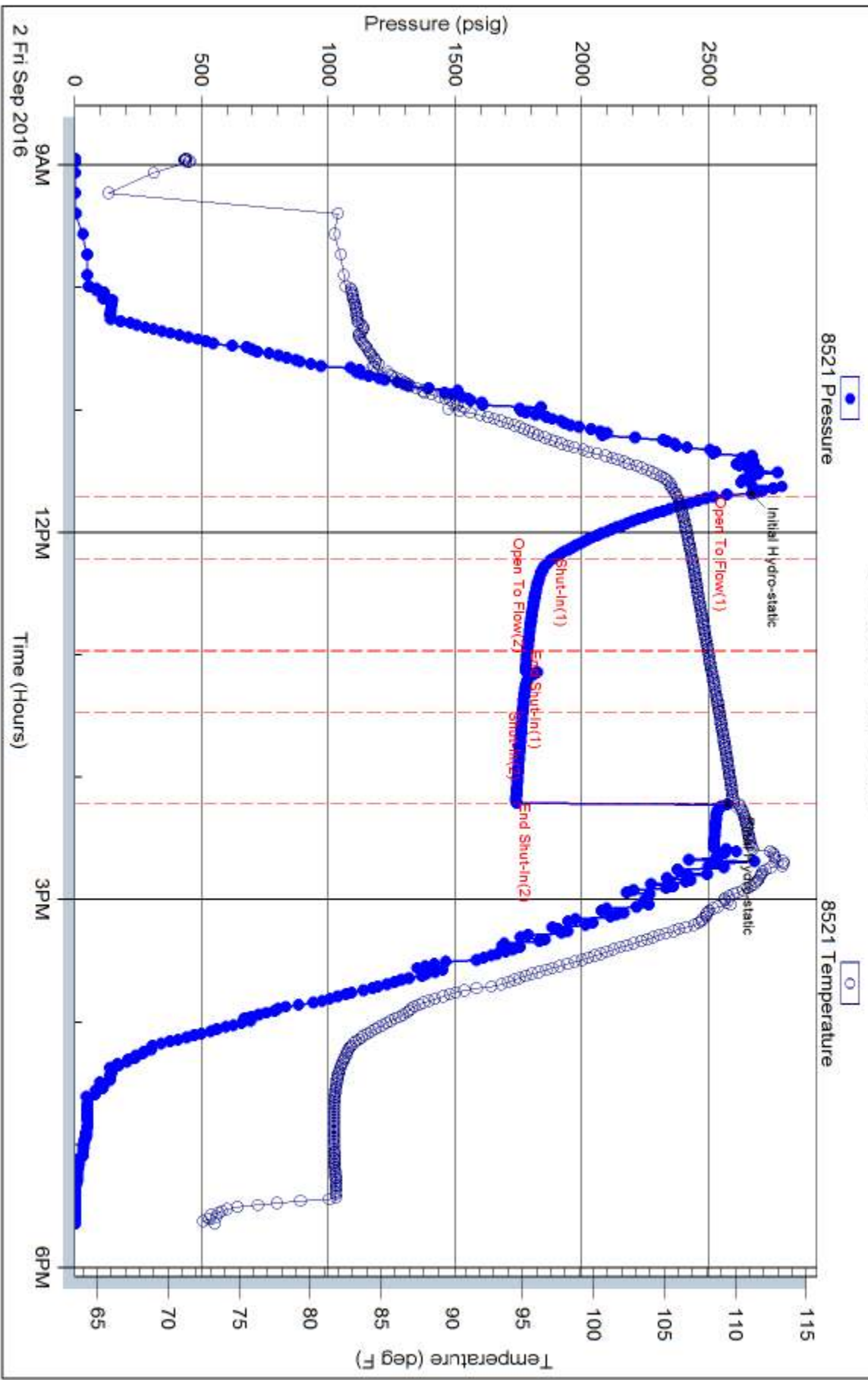


Trilobite Testing, Inc

Ref. No: 65117

Printed: 2016.09.02 @ 18:30:55

### Pressure vs. Time



# **Geological Report**

American Warrior, Inc.

## **Lexington Morrow #1HZ**

521' FNL & 841' FEL

Sec 19, T31s, R21w

Clark County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Lexington Morrow #1HZ  
521' FNL & 841' FEL  
Sec. 19, T31s, R21w  
Clark County, Kansas  
API # 15-025-21592-00-00

Drilling Contractor: Duke Drilling Co. Rig #7

Geologist: Luke Thompson

Spud Date: August 23, 2016

Completion Date: September 4, 2016

Elevation 2172' G.L.  
2185' K.B.

Directions: From the center of Bucklin, KS at the intersection of Hwy 54 and Hwy 34 go 15 miles south to the NE corner of 19-31s-21w, go 0.4 miles south on Hwy 34 to ingress with cattle guard. Take lease road N then W then N to location

Casing: 60' 20" Conductor Casing  
670' 9 5/8" Surface Casing

Samples: 4300' to RTD 30' wet & dry

Drilling Time: 4300' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"  
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Ken Swinney"

Problems: Bridge @ 4670'

**Formation Tops**  
**Lexington Morrow #1HZ**  
**521' FNL & 841' FEL**  
**Sec. 19, T31s, R21w**

<b>Anhydrite</b>	<b>1184' +1001</b>
<b>Base</b>	<b>1210' +975</b>
<b>Heebner</b>	<b>4304' -2119</b>
<b>Lansing</b>	<b>4500' -2315</b>
<b>BKC</b>	<b>4959' -2774</b>
<b>Marmaton</b>	<b>4980' -2795</b>
<b>Cherokee</b>	<b>5140' -2955</b>
<b>Morrow</b>	<b>5214' -3029</b>
<b>Morrow Sand</b>	<b>5235' -3050</b>
<b>Mississippi</b>	<b>5322' -3137</b>
<b>RTD</b>	<b>5400' -3215</b>
<b>LTD</b>	<b>5402' -3217</b>

**Sample Zone Descriptions**

**Morrow**

**(5240', -3055): Covered in DST #1-3**

Sandstone, clear/white/brown, med grain, sub round, poor to fair sorting, poor cementation, good inter-crystalline porosity, fair/light odor, fair/poor show of free oil, fair show of free oil when crushed, good flush cut. Gas

**Drill Stem Tests**

Trilobite Testing

“Ken Swinney”

**DST #1**

**Morrow (straddle)**

Interval (5192' – 5240') Anchor Length 48', Tail Pipe 162'

**Hit bridge at 4670'**

**DST #2**

**Morrow (straddle)**

Interval (5192' – 5204') Anchor Length 48', Tail Pipe 162'

IHP - 2728 #

IFP - 30" – 2" in 6 min (light surging) 77-76 #

ISI - 30" – no return 301 #

FFP - 30" – wsb died in 2 min Flush no help 62-118#

FSIP - 30" – no return 301 #

FHP - 2626 #

BHT - 114 ° F

**Recovery:** 120' M

**Tool Plugged**

**DST #3**

**Morrow (straddle)**

Interval (5192' – 5245') Anchor Length 53', Tail Pipe 157'

IHP - 2669 #

IFP - 30" – BOB 3 min 221-300#

ISI - 45" – No Return 301#

FFP - 30" – No Blow Flush surged and died 301-303 #

FSIP - 45" – no return 303#

FHP - 2552 #

BHT - 114 ° F

**Recovery:** 542' MW w/skim of oil in sample

## Structural Comparison

	American Warrior, Inc. Lexington Morrow #1HZ Sec. 19, T31s, R21w 521' FNL & 841' FEL		Mesa Petroleum Co. Seacat #5-19 Sec. 19, T31s, R21w 660, FNL & 660' FEL		Mesa Petroleum Co. Seacat #14-19 Sec. 19, T31s, R21w 4720' FSL & 1720' FEL
<b>Formation</b>					
<b>Heebner</b>	4304' -2119	-8	4300' -2111	+4	4265' -2123
<b>Lansing</b>	4500' -2315	-10	4494' -2305	-5	4452 -2310
<b>BKC</b>	4959' -2774	-13	4950' -2761	0	4916' -2774
<b>Marmaton</b>	4980' -2795	-14	4970' -2781	-3	4934' -2792
<b>Cherokee</b>	5140' -2955	-12	5132' -2943	+8	5105' -2963
<b>Morrow</b>	5214' -3029	-14	5204' -3015	+9	5180' -3038
<b>Morrow SD</b>	5235' -3050	-13	5226' -3037	+5	5197' -3055
<b>Mississippi</b>	5322' -3137	-14	5302' -3113	-19	5260' -3118

### Summary

The location for the Lexington Morrow #1HZ well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem test were conducted, none of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made plug and abandon the Lexington Morrow #1HZ well.

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1000222	1718	09/04/2016
INVOICE NUMBER			
92217315			

Pratt (620) 672-1201  
 B AMERICAN WARRIOR INC  
 I PO BOX 399  
 L GARDEN CITY  
 L KS US 67846  
 T  
 O ATTN: CECIL O'BRATE

J LEASE NAME Lexington Morrow 1  
 O LOCATION  
 B COUNTY Clark  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40962435	19919		Net - 30 days	10/04/2016	
<i>For Service Dates: 08/24/2016 to 08/24/2016</i>					
0040962435					
171813700L Cement-New Well Casing/Pi 08/24/2016 Cement Surface Casing					
A-Con' Blend		130.00	EA	6.51	846.30 T
Premium Plus Cement		130.00	EA	5.71	742.30 T
Celloflake		66.00	EA	1.30	85.80 T
Calcium Chloride		615.00	EA	0.37	227.55 T
C-51		25.00	EA	8.75	218.75 T
"Guide Shoe - Regular, 9 5/8" (Blue)"		1.00	EA	450.00	450.00
"Top Rubber Cmt Plug, 9 5/8" ""		1.00	EA	260.00	260.00
Flapper Type Insrt Float Valve 9 5/8(Blu		1.00	EA	315.00	315.00
8 5/8 x 12 1/4 No Fins (Green)		6.00	EA	90.00	540.00
9 5/8 Canvas Basket (Gray)		1.00	EA	450.00	450.00
"Unit Mileage Chg (PU, cars one way)"		60.00	MI	1.58	94.80
Heavy Equipment Mileage		120.00	MI	2.63	315.60
"Proppant & Bulk Del. Chgs., per ton mil		738.00	EA	0.88	649.44
Blending & Mixing Service Charge		260.00	BAG	0.49	127.40
Plug Container Util. Chg.		1.00	EA	87.50	87.50
"Cement Pumper, Add'l hrs. on Location"		4.00	HR	175.00	700.00
Cement Data Acquisition Monitor		1.00	EA	192.50	192.50
Depth Charge; 501'-1000'		1.00	EA	420.00	420.00
"Service Supervisor, first 8 hrs on loc.		1.00	EA	61.25	61.25

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,784.19
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	137.85
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,922.04
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		





**BASIC**  
ENERGY SERVICES

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING**

**Job Log**

Customer:	American Warrior	Cement Pump No.:	38117, 19919 2.5Hrs.	Operator TRK No.:	78938
Address:		Ticket #:	1718 13700 L	Bulk TRK No.:	30463, 37547 Jason
City, State, Zip:		Job Type:	Z-42 Cement Surface Casing		
Service District:	1718 - Liberal Ks	Well Type:	OIL		
Well Name and No.:	Lexington Morrow #1	Well Location:	19, 31, 21	County:	Clark State: Ks.

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Con' Blend	130	2% Calcium Chloride, 1/4# Polyflake, .2% WCA1	30463, 37547 Jason	Front	Back
Premium Plus Cement	130	2% Calcium Chloride, 1/4# Polyflake	30463, 37547	Front	Back
				Front	Back

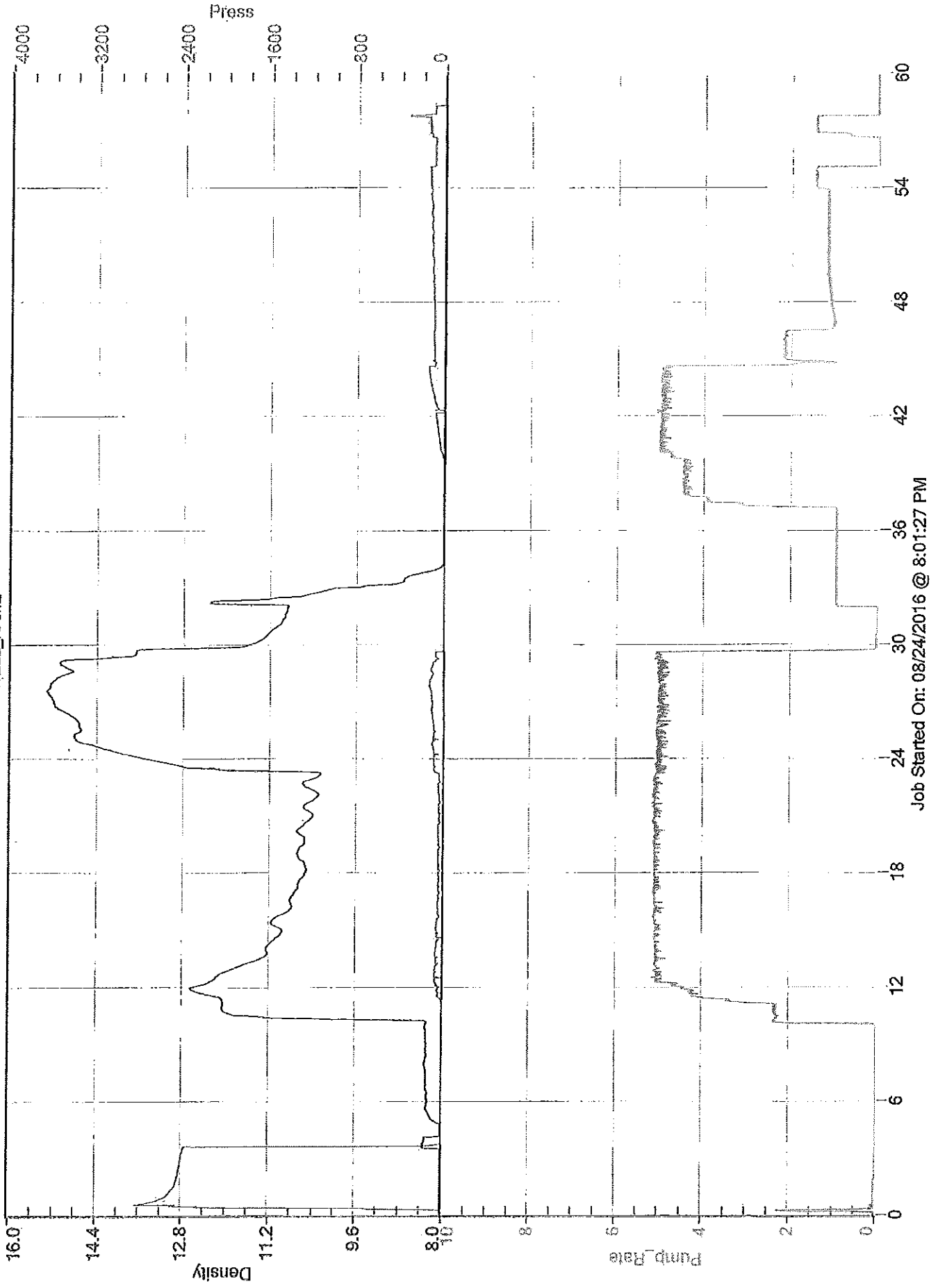
Lead/Tail:	Weight #1 Gal.	Yield	Water Requirements	CU. FT.	Man Hours / Personnel
<b>Lead:</b>	12.1	2.4	14	312	Man Hours: <del>18</del> 18 DB
<b>Tail:</b>	14.8	1.34	6.33	174.2	# of Men on Job: 3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
4:15							ON LOCATION
4:20							SAFETY MEETING
4:35 AM							RIG UP
5:15 AM							WAIT ON RIG
7:42 PM							CIRCULATE HOLE
20:00							RIG TO P.T.
20:02							PRESSURE TEST TO 2700
8:10 PM	5	55.5 slurry				60	PUMP 130SX 'A-CON' @ 12.1#
20:25	5	31.0 slurry				90	PUMP 130SX PREMIUM PLUS @ 14.80#
20:33							SHUTDOWN / DROP PLUG
20:35	3	10					DISPLACE
	5	20				40	
	5	30				100	
20:47	4.9	38				150	SLOW RATE TO 2.0BBPM @ 100PSI
	1	40				100	SLOW RATE / HEAD LEAKING
21:00	1.2	48.5				130	LAND PLUG PRESSURE UP TO 300PSI
							RELEASE BACK --- FLOAT HELD
							JOB COMPLETE

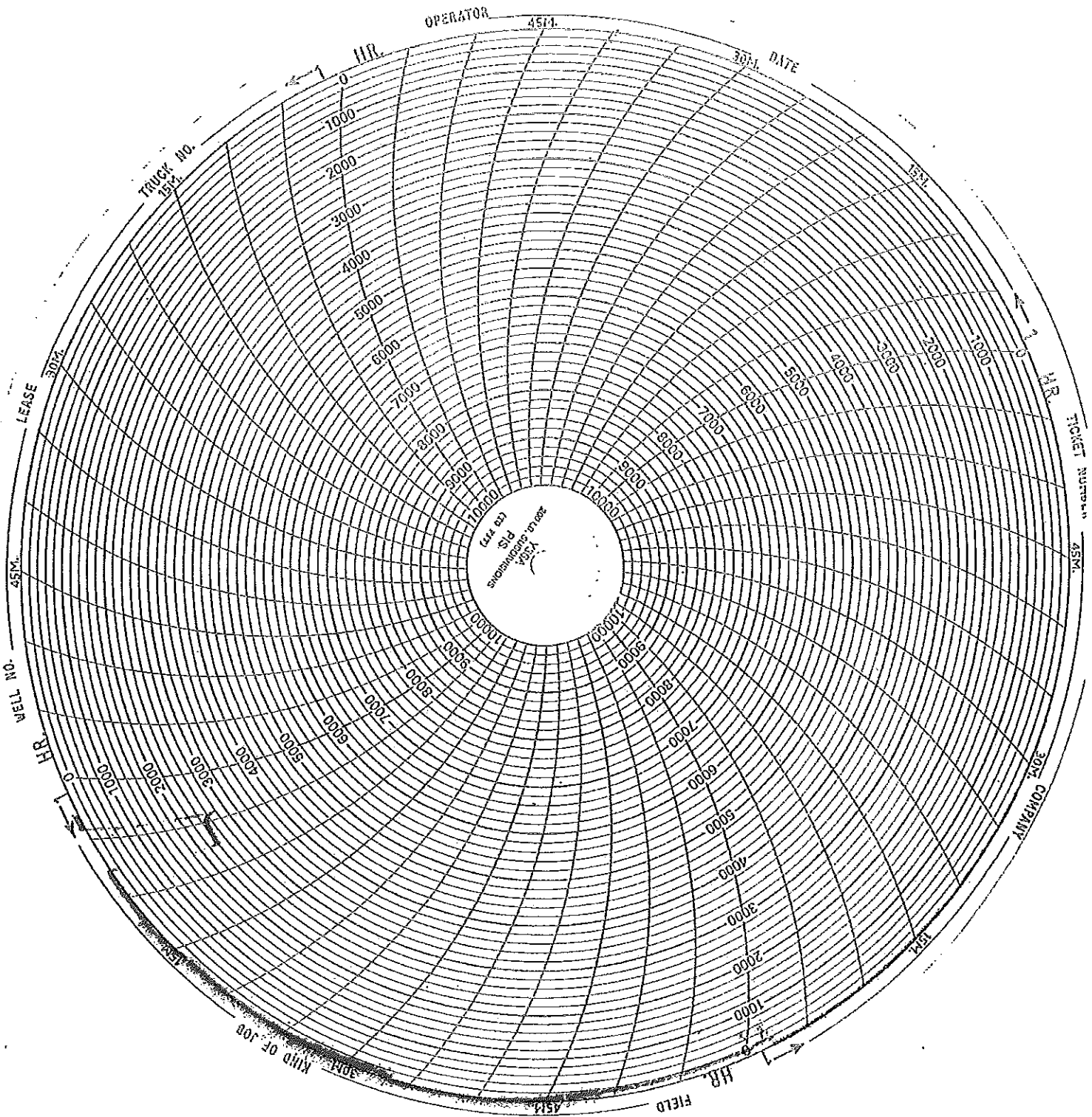
Size Hole	12 1/4"	Depth			TYPE	PLUG CONTAINER	
Size & Wt. Csg.	9 5/8" 36#	Depth	668.42'	New / Used	Packer	Depth	
log.		Depth			Retainer	Depth	
Top Plugs		Type			Perfs	CIBP	

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	8/24/2016

American Warrior  
WELL\_NAME



Job Started On: 08/24/2016 @ 8:01:27 PM



08-24-16  
American Warrior  
Lexington Morrow #1  
Clark, KS  
Cement Surface Casing