

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
--	---

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.

8-14s-35w Logan Co

P.O.Box 399
Garden City KS
67846

Wray #1-8

Job Ticket: 64226

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.09.17 @ 07:11:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:37:00

Time Test Ended: 13:35:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4435.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3253.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6749 Outside

Press@RunDepth: 68.45 psig @ 4505.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.17

End Date:

2017.09.17

Last Calib.:

2017.09.17

Start Time:

07:11:15

End Time:

13:35:15

Time On Btm:

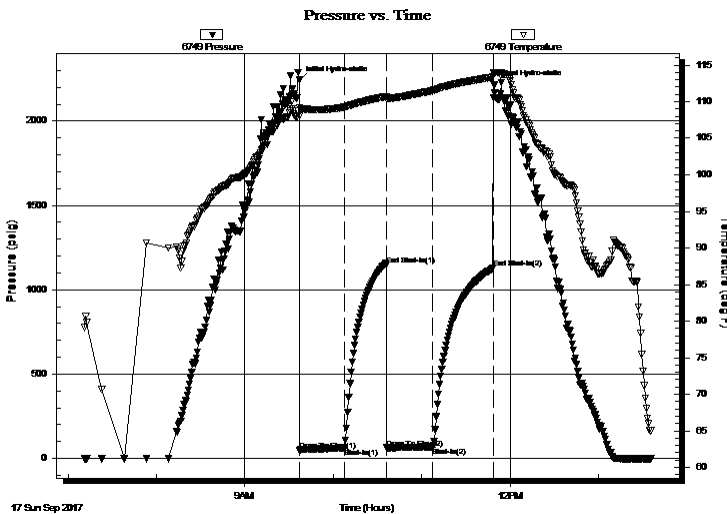
2017.09.17 @ 09:36:45

Time Off Btm:

2017.09.17 @ 11:49:00

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to weak surface blow
FS: No return blow

PRESSURE SUMMARY



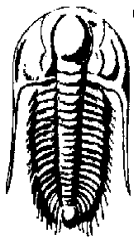
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.75	109.21	Initial Hydro-static
1	48.01	107.99	Open To Flow (1)
31	60.01	109.24	Shut-In(1)
60	1146.25	110.72	End Shut-In(1)
60	61.98	110.39	Open To Flow (2)
91	68.45	111.52	Shut-In(2)
132	1126.44	113.36	End Shut-In(2)
133	2213.55	114.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.

P.O.Box 399
Garden City KS
67846
ATTN: Luke Thompson

8-14s-35w Logan Co

Wray #1-8

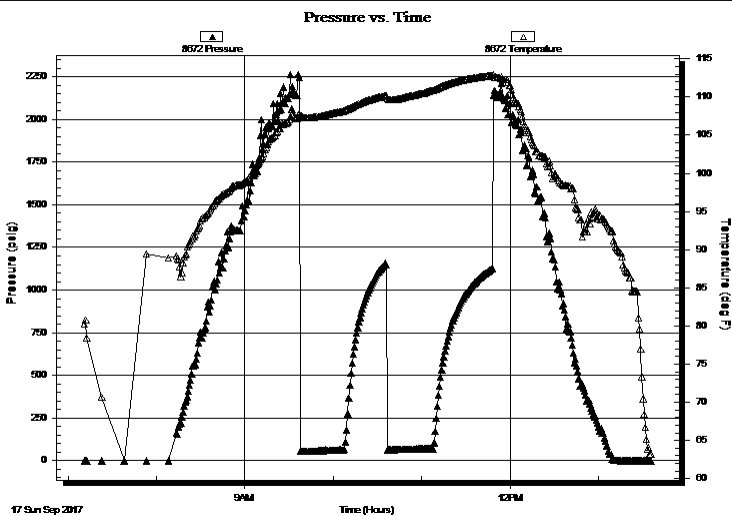
Job Ticket: 64226 **DST#: 1**
Test Start: 2017.09.17 @ 07:11:15

GENERAL INFORMATION:

Formation: Marmaton		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 09:37:00		Tester: Mike Roberts
Time Test Ended: 13:35:15		Unit No: 81
Interval: 4435.00 ft (KB) To 4510.00 ft (KB) (TVD)		Reference Elevations: 3253.00 ft (KB)
Total Depth: 4510.00 ft (KB) (TVD)		3245.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 8.00 ft

Serial #: 8672	Inside		
Press@RunDepth: psig @ 4505.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2017.09.17	End Date: 2017.09.17	Last Calib.: 2017.09.17	
Start Time: 07:11:15	End Time: 13:35:15	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to weak surface blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

8-14s-35w Logan Co

P.O.Box 399
Garden City KS
67846

Wray #1-8

Job Ticket: 64226

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.09.17 @ 07:11:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.000

Total Length: 20.00 ft Total Volume: bbl

Num Fluid Samples: 0

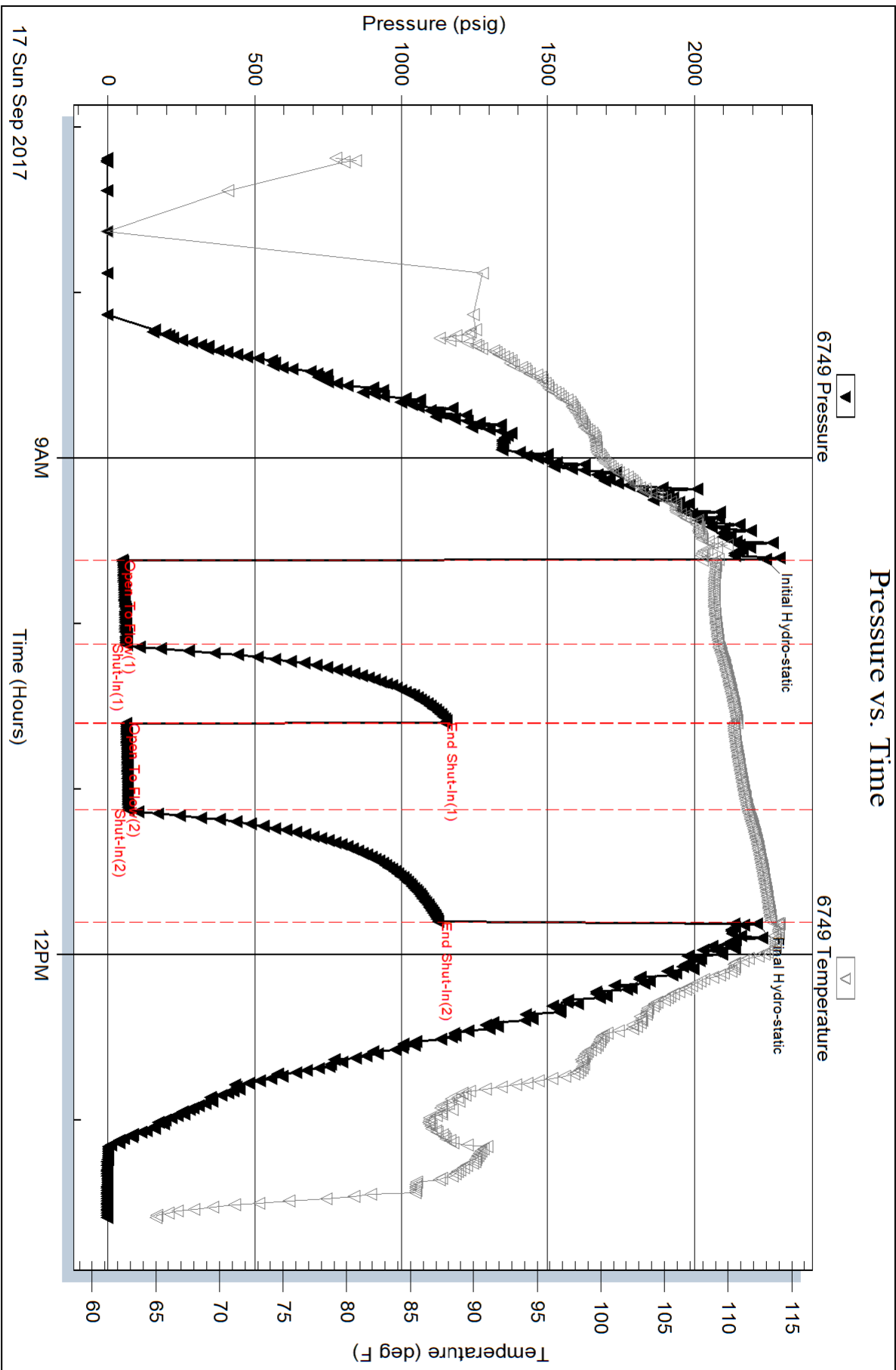
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



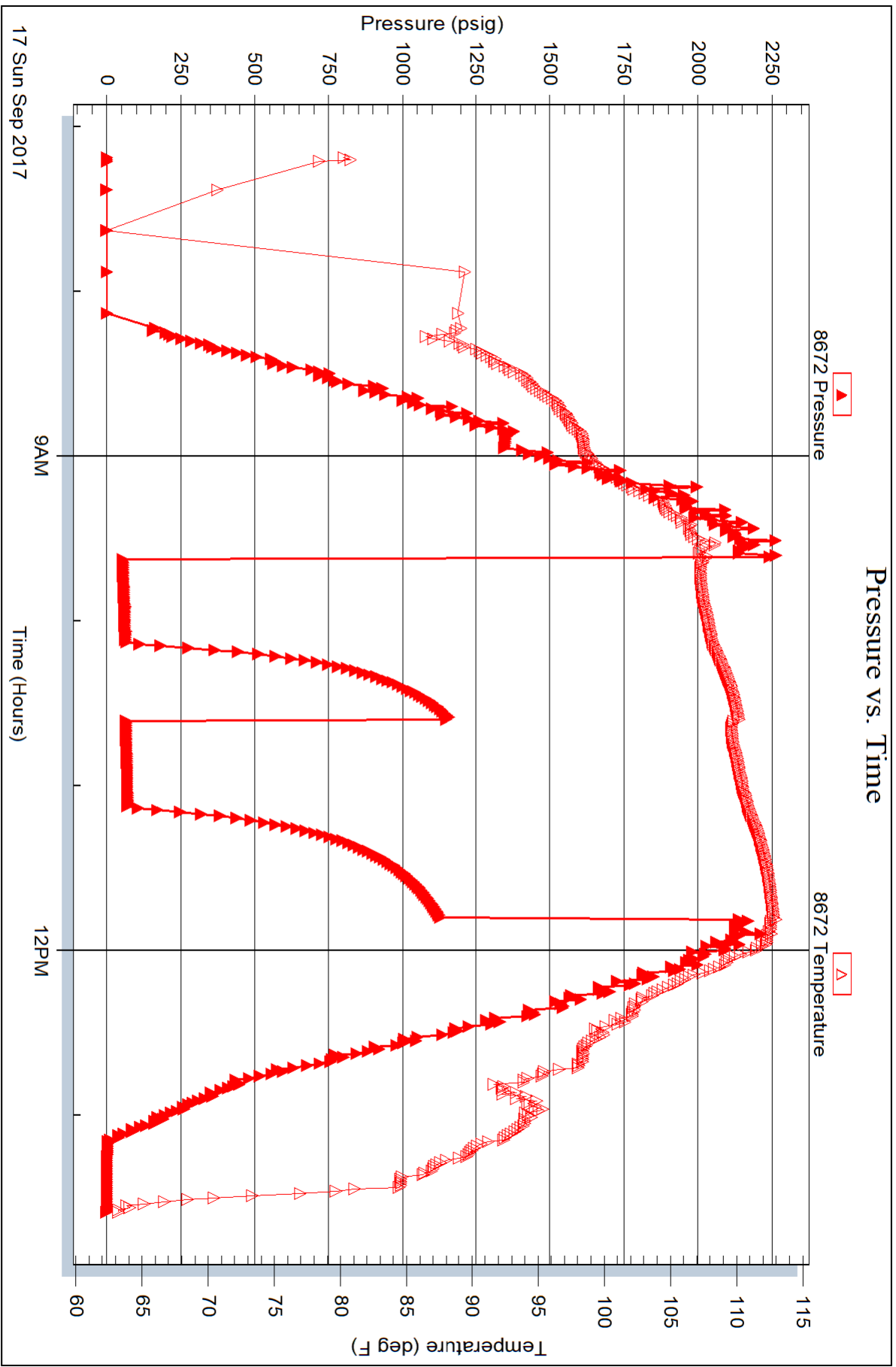
Serial #: 8672

Inside

American Warrior Inc.

Way #1-8

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.

8-14s-35w Logan Co

P.O.Box 399
Garden City KS
67846

Wray #1-8

Job Ticket: 64227

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.09.17 @ 14:28:15

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:41:00

Time Test Ended: 21:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4374.00 ft (KB) To 4384.00 ft (KB) (TVD)

Reference Elevations: 3253.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3245.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6749 Outside

Press@RunDepth: 52.25 psig @ 4375.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.17 End Date: 2017.09.17

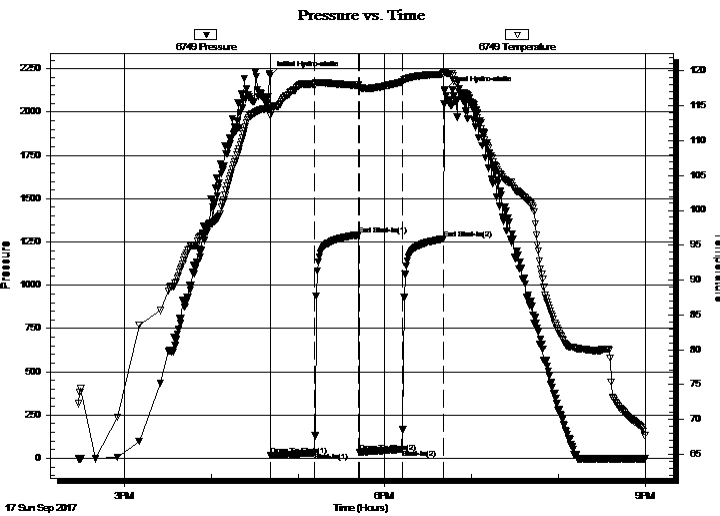
Last Calib.: 2017.09.17

Start Time: 14:28:15 End Time: 21:00:15

Time On Btm: 2017.09.17 @ 16:40:45

Time Off Btm: 2017.09.17 @ 18:41:15

TEST COMMENT: IF: Built to 1 1/2" blow
IS: No return blow
FF: Built to 1 1/2" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.93	114.67	Initial Hydro-static
1	15.82	113.59	Open To Flow (1)
31	32.88	118.10	Shut-In(1)
62	1290.17	117.95	End Shut-In(1)
62	35.60	117.58	Open To Flow (2)
92	52.25	118.41	Shut-In(2)
120	1267.07	119.53	End Shut-In(2)
121	2123.80	119.79	Final Hydro-static

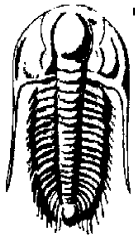
Recovery

Length (ft)	Description	Volume (bbl)
90.00	w cm 3%w 97%w	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.

8-14s-35w Logan Co

P.O.Box 399
Garden City KS
67846
ATTN: Luke Thompson

Wray #1-8

Job Ticket: 64227

DST#: 2

Test Start: 2017.09.17 @ 14:28:15

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:41:00

Time Test Ended: 21:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4374.00 ft (KB) To 4384.00 ft (KB) (TVD)

Total Depth: 4510.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3253.00 ft (KB)

3245.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8672

Inside

Press@RunDepth: psig @ 4375.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.17 End Date: 2017.09.17

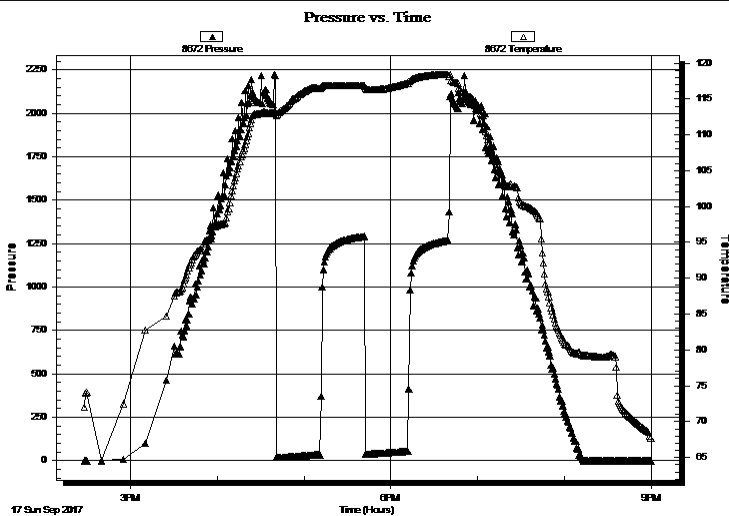
Last Calib.: 2017.09.17

Start Time: 14:28:15 End Time: 21:00:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to 1 1/2" blow
IS:No return blow
FF:Built to 1 1/2" blow
FS:No return blow



PRESSURE SUMMARY

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

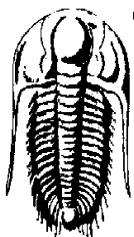
Recovery

Length (ft)	Description	Volume (bbl)
90.00	w cm 3%w 97%w	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.

8-14s-35w Logan Co

P.O.Box 399
Garden City KS
67846

ATTN: Luke Thompson

Wray #1-8

Job Ticket: 64227

DST#: 2

Test Start: 2017.09.17 @ 14:28:15

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:41:00

Time Test Ended: 21:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4374.00 ft (KB) To 4384.00 ft (KB) (TVD)

Total Depth: 4510.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3253.00 ft (KB)

3245.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8647

Outside

Press@RunDepth: psig @ 4501.00 ft (KB)

Start Date: 2017.09.17

End Date:

2017.09.17

Start Time: 14:28:15

End Time:

20:59:45

Capacity: 8000.00 psig

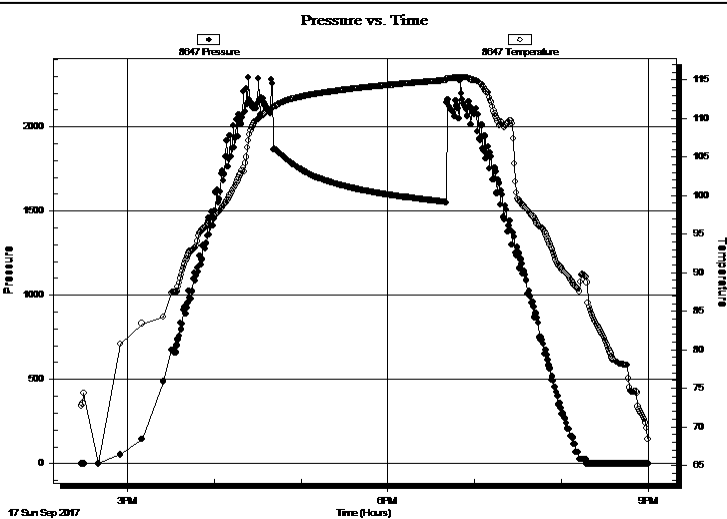
Last Calib.:

2017.09.17

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Built to 1 1/2" blow
IS:No return blow
FF:Built to 1 1/2" blow
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	w cm 3%w 97%w	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

8-14s-35w Logan Co

P.O.Box 399
Garden City KS
67846

Wray #1-8

Job Ticket: 64227

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.09.17 @ 14:28:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9500 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

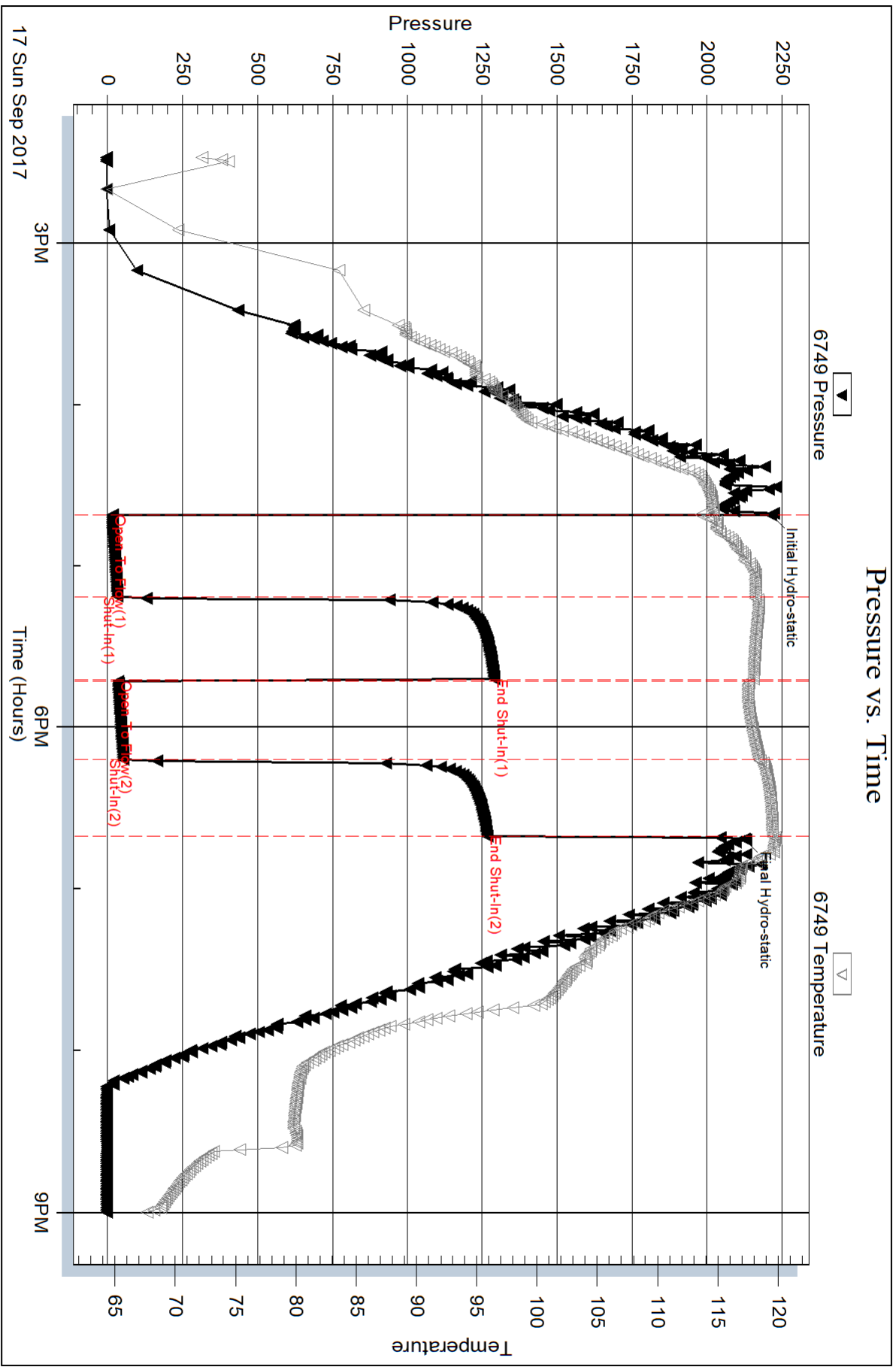
Length ft	Description	Volume bbl
90.00	w cm 3%w 97%w	0.000

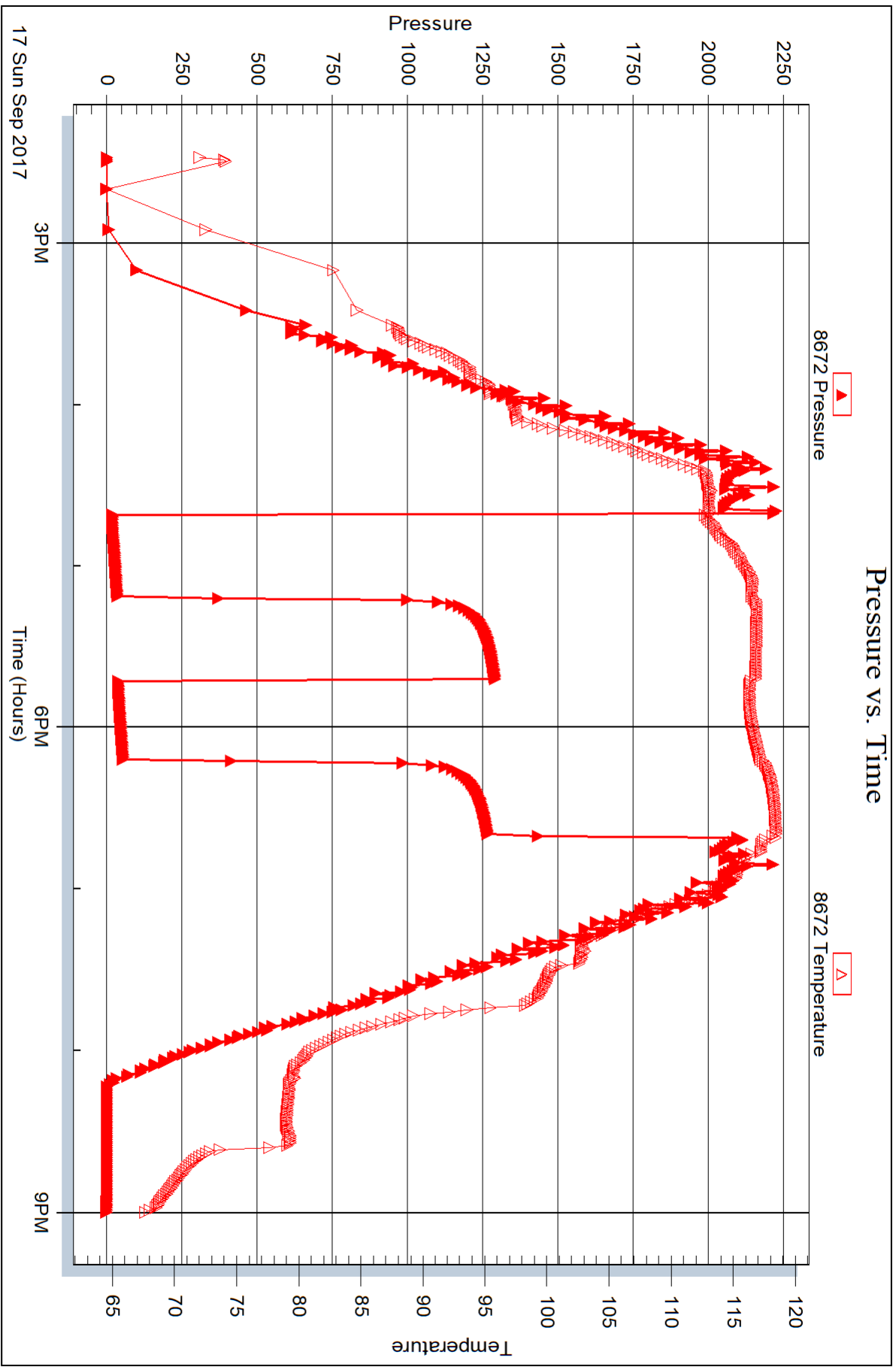
Total Length: 90.00 ft Total Volume: bbl

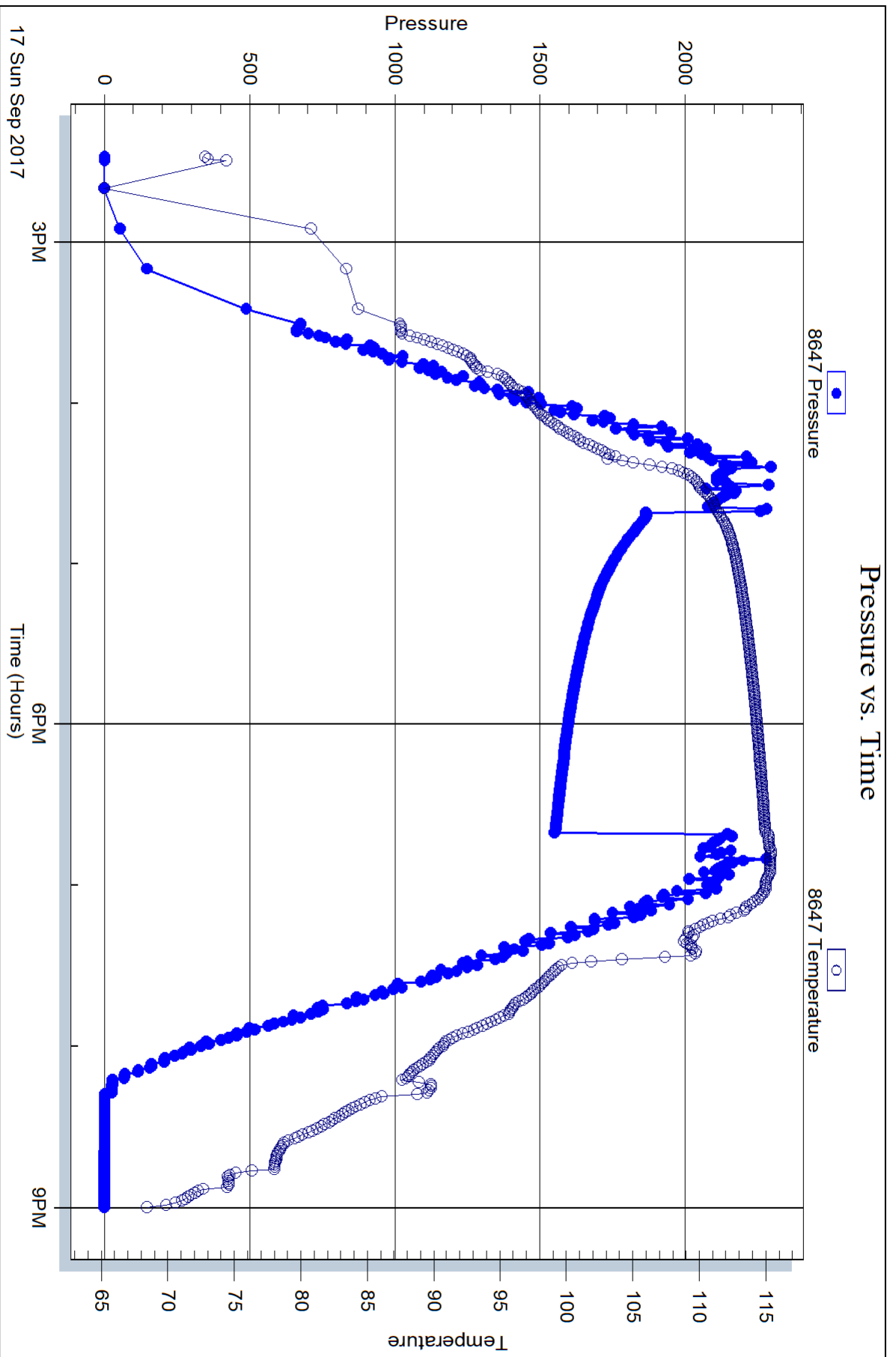
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .934@56.4 = 9,500 ppm







Geological Report

American Warrior, Inc.

Wray #1-8

1076' FNL & 1122' FWL

Sec 8, T14s, R35w

Logan County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Wray #1-8
1076' FNL & 1122' FWL
Sec. 8, T14s, R35w
Logan County, Kansas
API # 15-109-21512-00-00

Drilling Contractor: Discovery Drilling Rig #1

Geologist: Luke Thompson

Spud Date: September 11, 2017

Completion Date: September 20, 2017

Elevation 3245' G.L.
3253' K.B.

Directions: From the West side of Russell Springs, KS at the intersection of Hwy 25 & Broadway Ave. – Now go 0.8 miles South on Hwy 25 Rd then 2 miles West on Hwy 25 - Now go about 4 miles South on 240 Rd to Kiowa Rd – Now go West 1 mile to 230 Rd – Now go North 0.5 miles – East into

Casing: 210' 8 5/8" #23 Surface Casing

Samples: 3750' to RTD 10' Wet & Dry

Drilling Time: 3700' to RTD

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

Drillstem Tests: Two-Trilobite Testing "Mike Roberts"

Problems: Pulled Tight on all trips

Formation Tops

Wray #1-8

Sec. 8, T14s, R35w

1076' FNL & 1122' FWL

Anhydrite	2622' +631
Base	2643' +610
Heebner	4038' -785
Lansing	4091' -838
Stark	4345' -1092
BKC	4417' -1164
Marmaton	4461' -1208
Pawnee	4554' -1301
Fort Scott	4614' -1361
Cherokee	4642' -1389
Johnson	4689' -1436
Morrow	4762' -1509
Miss	4836' -1583
RTD	4900' -1647
LTD	4900' -1647

Sample Zone Descriptions

Marmaton (4490' -1237): Covered in DST #1

Limestone, cream, sub-crystalline, slightly chalky, occasionally oolitic, scattered poor pinpoint vuggy and oolitic porosity, very slight fleeting odor, poor stain and saturation in 1 piece, very poor show of free oil, no fluorescence slow string cut. No Gas Kick.

Lansing K (4380' -1127): Covered in DST #2

Limestone, cream, oolitic packstone, slightly chalky, poor to fair oolitic porosity, very faint odor, fair stain, fair to good saturation, fair show of free oil, no fluorescence, fair to good stream cut. No Gas Kick.

Drill Stem Tests

Trilobite Testing

“Mike Roberts”

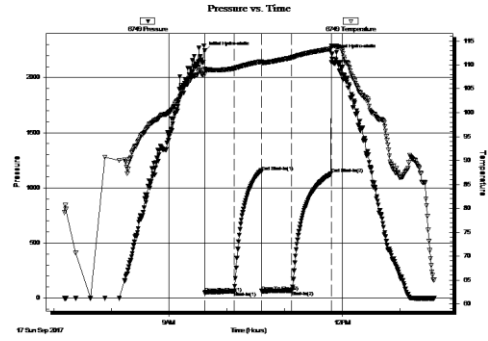
DST #1

Marmaton

Interval (4435' – 4510') Anchor Length 75'

IHP	- 2243 #	
IFP	- 30" – built to 2"	48-60#
ISI	- 30" – No return	1146#
FFP	- 30" – WSB	62-68#
FSIP	- 30" – No return	1126#
FHP	- 2214 #	
BHT	- 114° F	

Recovery: 20' M



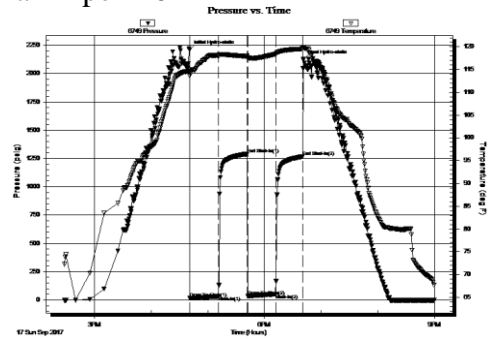
DST #2

Lansing K (straddle test)

Interval (4374' – 4384') Anchor Length 10'; Tail Pipe 126'

IHP	- 2212 #	
IFP	- 30" – Built to 1 1/2"	16-33#
ISI	- 30" – No Return	1290#
FFP	- 30" – built to 1 1/2"	36-52#
FSIP	- 30" – No Return	1267#
FHP	- 2124 #	
BHT	- 120° F	

Recovery: 90' WCM



Structural Comparison

	American Warrior, Inc. Wray #1-8 Sec. 8, T14s, R35w 1076' FNL & 1122' FWL			American Warrior, Inc. Fairchild #1-17 Sec. 17, T14s, R35w 1506' FNL 1036' FEL			American Warrior, Inc. Ausmus Unit #1-7 Sec. 7, T14s, R35w 160' FSL & 792' FEL	
<u>Formation</u>								
Heebner	4038	-785	-8	4004	-777	-12	3995	-773
Lansing	4091	-838	-7	4058	-831	-10	4050	-828
Stark	4345	-1092	-5	4314	-1087	-6	4308	-1086
BKC	4417	-1164	-1	4390	-1163	4	4390	-1168
Marmaton	4461	-1208	-3	4432	-1205	5	4435	-1213
Pawnee	4554	-1301	-7	4521	-1294	1	4524	-1302
Fort Scott	4614	-1361	-6	4582	-1355	3	4586	-1364
Cherokee	4642	-1389	-6	4610	-1383	3	4614	-1392
Johnson	4689	-1436	-6	4657	-1430	4	4662	-1440
Morrow	4762	-1509	-8	4728	-1501	9	4740	-1518
Miss	4836	-1583	-18	4792	-1565	9	4814	-1592

Summary

The location for the Wray #1-8 well was found via 3-D seismic survey. The new well ran structurally as expected. Two 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 to plug and abandon the Wray #1-8 well.

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.



American Warrior, Inc.

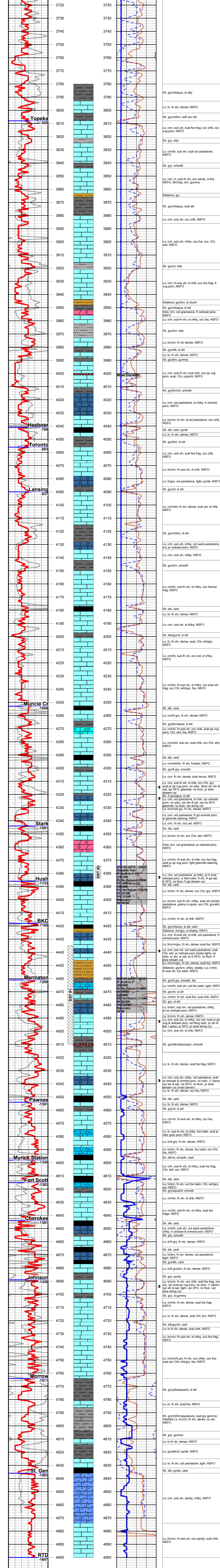
Luke Thompson - Geologist
 3118 Cummings Rd
 Garden City, KS 67846
 (785) 493-1254 cell
 (620) 275-5067 office

WELL: **Wary #1-8** API #: **15-109-21512-00-00** LOCATION: **Logan County, KS 1076' FNL & 1122' 8-14s-35w** FWL: **Elevation KB: 3253' GL: 3245'** Measurements from KB

Lithology Key		Curve Data:		Geologist: Luke Thompson (American Warrior, Inc.)	
	Limestone		Black Shale	Drilling Contractor: Discovery Rig #1	
	Silty Limestone		Shale	Samples from: 3750' - RTD	
	Shaley Limestone		Silty Shale	Drilling time from: 3700' - TD	
	Sandy Limestone		Siltstone	Geological Supervision from: 3750' - TD	
	Fossil Limestone		Sandstone	Correlating Log: Fairchild #1-17 (17-14s-35w)	
	Cherty Limestone		Oolitic Dolomite	Surface Casing: 210' 8 5/8" 23#	
	Oolitic Limestone		Dolomite	Production Casing:	
	Shale Interbed		Cherty Dolomite	RTD: 4900'	
	Limestone Interbed		CFS	LTD: 4900'	

Formation	Top Log	Datum	Top Sample	Datum	Correlating Well Structural Comparison
Topeka	3810	-557	3808	-555	-4
Heebner	4038	-785	4041	-788	-8
Toronto	4054	-801	4056	-803	-7
Lansing	4091	-838	4090	-837	-7
Stark	4345	-1092	4344	-1091	-5
Hush	4386	-1133	4386	-1133	-5
BKC	4417	-1164	4418	-1165	-1
Marmaton	4461	-1208	4461	-1208	-3
Pawnee	4554	-1301	4554	-1301	-7
Fort Scott	4614	-1361	4615	-1362	-6
Cherokee	4642	-1389	4644	-1391	-6
Johnson	4689	-1436	4689	-1436	-6
Morrow	4762	-1509	4764	-1511	-8
St. Gen	4836	-1583	4836	-1583	-18

Status: P&A



DST #2

DST #1

DST #2 (4374' - 4384')
 Straddle Test
 IF: built to 1 1/2" (16-33#)
 IS: No Return (1290#)
 FF: built to 1 1/2" (96-52#)
 FS: No Return (1267#)
 WI: 2212#
 FH: 2124#
 Recovery: 90' WCM

DST #1 (4435' - 4510')
 IF: built to 2" (48-60#)
 IS: No Return (1146#)
 FS: WCB (62-68#)
 FS: No Return (1126#)
 WI: 2243#
 FH: 2214#
 Recovery: 20' M

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0



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

TICKET 30494

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Hays, KS WELL/PROJECT NO. 1-8 LEASE Wray COUNTY/PARISH Logan STATE KS CITY _____ DATE 9/19/17 OWNER _____
 2. Ness City, KS CONTRACTOR Discovery Drilling RIG NAME/NO. #1 SHIPPED VIA _____ DELIVERED TO Location ORDER NO. _____
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Plug to Abandon WELL PERMIT NO. _____ WELL LOCATION _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	120	mi			5.00	600.00
576P		1			Pump Charge -PTA	1	EA			800.00	800.00
290		1			D-AIR	5	gal			42.00	210.00
410		1			Top Plug 8 5/8"	1	EA			120.00	120.00
328-4		2			60/40 Pozmix (40% gel)	255	sks			10.25	2613.75
279		2			Bentonite Gel	800	lbs	8	sks	25.00	200.00
581		2			Service Charge Cement	255	sks	21378.5	lbs	1.50	382.50
583		2			Drayage	120	mi	1282.71	TM	0.75	962.03
											5888.28

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 Chiff Maffei
 DATE SIGNED _____ TIME SIGNED _____
 A.M.
 P.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
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?				Logan TAX 8.0%
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				251.50
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL
				6139.78

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

SWIFT OPERATOR Tom Knapp APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE: 9/19/17 PAGE NO. 1

CUSTOMER: **AWI** WELL NO.: **1-8** LEASE: **Wray** JOB TYPE: **PTA** TICKET NO.: **30494**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1850							On location Rig Running Drill Pipe Plugs @ 2636', 1444', 260', 40' 255 SKS, 60/40 Pozmix (40% gel) On bottom, hook up Kelly Get Circulation,
	1945	3				250		Start H ₂ O ahead
	1950	3	8			250		Fin H ₂ O, Start Cmt, 50 SKS
	1955	3	13			200		Fin Cmt, Start H ₂ O Behind
	2005	3	3			Vac		Fin H ₂ O
	2010		30					Hook up to Rig to pump Mud Pull up to 1444'
	2105	3				150		Start H ₂ O ahead
	2110	3	8			100		Fin H ₂ O, Start Cmt 100 SKS
	2115	3	26			Vac		Fin Cmt, Start H ₂ O
	2120	3	5			Vac		Fin H ₂ O Pull up to 260'
	2155	2	1			100		Pump H ₂ O ahead
		3	12			100		Pump Cmt, 50 SKS
	2200	3	1/2			100		Pump H ₂ O behind
	2205							Pull out to ophole Push Top plug down w/ Kelly
	2250	3	3			100		Pump Cmt, 10 SKS Put Kelly
	2300	2	8					Plug Rat hole, 30 SKS
	2305	2	4					Plug Mouse hole, 15 SKS
	1115							Wash up truck Job Complete,

Thanks,
Jon, Austin



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

TICKET 30491

PAGE 1 OF 1

SERVICE LOCATIONS:
 1. Hays, KS WELL/PROJECT NO. 1-8 LEASE Wray 127410 COUNTY/PARISH Logan STATE KS CITY Logan DATE 9-11-17 OWNER
 2. Ness City, KS TICKET TYPE SERVICE SALES CONTRACTOR Discovery Drilling RIG NAME/NO. #1 SHIPPED VIA Location DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Developmental JOB PURPOSE Cement Surface Casing WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	120	mi			5.00	600.00
576S		1			Pump Charge - Shallow Surface	1	EA			800.00	800.00
290		1			D-AIR	2	gal			42.00	84.00
325		2			Standard Cement	175	SKS			12.25	2143.75
279		2			Bentonite Gel 2%	3	SKS	300	lbs	25.00	75.00
278		2			Calcium Chloride 3%	8	SKS	400	lbs	40.00	320.00
581		2			Service Charge Cement	175	SKS	16450	lbs	1.50	262.50
583		2			Drayage			1029	TM	0.75	771.75

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 [Signature]
 DATE SIGNED TIME SIGNED A.M. P.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	5057.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	5216.82

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

SWIFT OPERATOR [Signature] APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-11-17 PAGE NO. 1

CUSTOMER **AWI** WELL NO. **1-8** LEASE **Wray** JOB TYPE **Cont Surface** TICKET NO. **30491**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							On location, Setup trucks 175 SKs standard, 2% gel, 3% CC
	1315							Waiting Bulk truck, Break Circulation @ 210'
	1330	3 1/2	5			150		start H ₂ O ahead, start Cement, 175 SKs.
		3 1/2						Fin Cement - Go to Displacement
		3 1/2	42			Vac		Fin Displacement
			12 1/2			100		Cement Circulated to Surface
	1345							Close in, Release
	1400							Washup Job Complete

Thanks,
Jon, Austin, ISAAC