Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1235367

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 # 4058
Name: American Warrior, Inc.
Address 1: 3118 CUMMINGS RD
Address 2: PO BOX 399
City: GARDEN CITY State: KS Zip: 67846 + ____
Contact Person: Joe Smith
Phone: (620) 275-2963
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Kevin Timson
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 #: ____

11/16/2014	11/24/2014	11/24/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-055-22338-00-00
Spot Description: ____

SW NE NE SW Sec. 2 Twp. 25 S. R. 31 ☐ East ☑ West
2014 Feet from ☐ North / ☑ South Line of Section
2284 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW

GPS Location: Lat: ____ *(e.g. xx.xxxxx)* , Long: ____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Finney
Lease Name: Ward Well #: 1-2
Field Name: ____
Producing Formation: None
Elevation: Ground: 2857 Kelly Bushing: 2868
Total Vertical Depth: 5050 Plug Back Total Depth: 0
Amount of Surface Pipe Set and Cemented at: 1700 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: 15000 ppm Fluid volume: 65 bbls
Dewatering method used: Evaporated

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:** NAOMI JAMES **Date:** 12/16/2014

1235367

Operator Name: American Warrior, Inc. Lease Name: Ward Well #: 1-2

Sec. 2 Twp. 25 S. R. 31 ☐ East ☑ West County: Finney

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Induction
Porosity
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.250	8.625	24	1700	Class A	825	3%CC,2%gel.

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Ward 1-2
Doc ID	1235367

Tops

Name	Top	Datum
Anhy	1900	+968
B/Anhy	1982'	+886
Heebner	4015'	-1147
Lansing	4060'	-1192
B/KC	4550'	1682
Marmaton	4576'	-1798
Ft.scott	4670'	-1802
Morrow	4846'	-1978
Mississippian	4864'	-1996

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

Date 11/17/2014 District Liberal # 21 Ticket No. 64551
Company American Warrior Rig Duke # 10
Lease WARD Well No 1-2
County Finney State KS
Location
Field
Casing Data [ ] Conductor [ ] PTA [ ] Squeeze [ ] Misc. [✓] Surface [ ] Intermediate [ ] Production [ ] Liner
Size 8 5/8 Type Weight 24 Collar

Casing Depths Top Bottom 1710

Drill Pipe:	BBLS/LIN. FT		LIN. FT/BBL	
Open Hole:	BBLS/LIN. FT		LIN. FT/BBL	
Capacity Factors:	BBLS/LIN. FT		LIN. FT/BBL	
Casing	BBLS/LIN. FT	0.0637	LIN. FT/BBL	
Open Holes	BBLS/LIN. FT		LIN. FT/BBL	
Drill Pipe	BBLS/LIN. FT		LIN. FT/BBL	
Annulus	BBLS/LIN. FT	0.0735	LIN. FT/BBL	13.6037
	BBLS/LIN. FT		LIN. FT/BBL	

Perforations From ft to ft Amt

CEMENT DATA
Spacer Type 5 bbl water
Amt. Sks Yield ft³/sk Density PPG

LEAD: Time hrs. Type CLASS A
65/35, 6%GEL, 3%CC,1/4FLOSEAL Excess
Amt. 625 Sks Yield 2 ft³/sk Density 12.46 PPG
TAIL: Time hrs. Type CLASS A
3%cc,,1/4 floseal Excess
Amt. 200 Sks Yield 1.2 ft³/sk Density 15.63 PPG
WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total BBLS

Pump Trucks Used: 530-484
Bulk Equipment 562-528
774-744

Float Equipment: Manufacturer WEATHERFORD
Shoe: Type GUIDE SHOE Depth 1706
Float: Type AFU Insert Valve Depth 1662.2
Centralizers: Quantity 3 Plugs Top 1 Bottom
Stage Collars
Special Equipment Cement Basket @ 1054' ft
Disp: Fluid Type H2O Amt 106.4 bbls Weight 8.34 PPG
Mud Type Weight

COMPANY REPRESENTATIVE

CEMENTER CESAR PAVIA

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
1000PM						ARRIVE TO LOCATION -- RUN FLOAT EQUIPMENT
1030PM						RIG UP
1230AM						CASING ON BOTTOM
100AM						SAFETY MEETING
130AM	2000					PRESSURE TEST
140AM	40		5		5	5 BBL WATER SPACER
150AM	60		227		6	PUMP 222 BBL OF LEAD SLURRY CEMENT
235AM	80		270		6	PUMP 43 BBL OF TAIL SLURRY CEMENT
300AM					4	RELEASE PLUG- START DISPLACEMENT
315AM	120		290		5	20 BBL GONE
320AM	150		310		5	40 BBL GONE
325AM	420		330		5	60BBLGONE
334AM	500		350		5	80 BBL GONE
345AM	460		360		3	106 BBL GONE SLOW DOWN TO 3 BPM
347AM	680		365		3	BUMP PLUG
352AM	1200					RELEASE PRESSURE, CHECK FLOATS
400AM						RIG DOWN
430AM						LEAVE LOCATION
						100 BBL OF CEMENT BACK

FINAL DISP. PRESS. 680 PSI BUMP PLUG TO 1200 PSI BLEEDBACK 0.5 BBLS THANK YOU

ALLIED
OIL & GAS SERVICES, LLC

CEMENTING LOG

Date 11/25/2014 District Liberal # 21 Ticket No. 64508
Company American Warrior Rig Duke #10
Lease Ward Well No 1-2
County Finney State KS
Location
Field
Casing Data ☐ Conductor ☑ PTA ☐ Squeeze ☐ Misc. ☐ Surface ☐ Intermediate ☐ Production ☐ Liner
Size 8 5/8 Type Weight 24# Collar

Casing Depths Top Bottom

Drill Pipe:	BBLS/LIN. FT		LIN. FT/BBL	
Open Hole:	BBLS/LIN. FT		LIN. FT/BBL	
Capacity Factors:	BBLS/LIN. FT		LIN. FT/BBL	
Casing	BBLS/LIN. FT		LIN. FT/BBL	
Open Holes	BBLS/LIN. FT		LIN. FT/BBL	
Drill Pipe	BBLS/LIN. FT	0.01422	LIN. FT/BBL	
Annulus	BBLS/LIN. FT		LIN. FT/BBL	
	BBLS/LIN. FT		LIN. FT/BBL	

Perforations From ft to ft Amt

CEMENT DATA
Spacer Type
Amt. Sks Yield ft³/sk Density PPG

LEAD: Time hrs. Type Allied 60/40 Poz
2% Premium Gel Excess
Amt. 210 Sks Yield 1.5 ft³/sk Density 13.5 PPG
TAIL: Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
WATER Lead 7.5 Gal/sk Tail Gal/sk Total 28 BBLS

Pump Trucks Used: 531-541
Bulk Equipment 868-467

Float Equipment: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Bottom
Stage Collars
Special Equipment
Disp: Fluid Type H2O & Mud Amt bbls Weight PPG
Mud Type Weight 9.5

COMPANY REPRESENTATIVE
CEMENTER Edgar A. Rodriguez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
8:00 am						Arrive on location
8:15						Spot equipment and rig up
9:45						Rig done going in with drillpipe
10:10						Safety meeting
						1st plug @1740'
10:35	130		13		3	50 sks of cmt (13 bbls @13.5)
10:40	90		21.5		3	21.5 bbls of mud displacement
10:47						Come out of hole with drillpipe
						2nd plug @960'
11:35	90		13		3	50 sks of cmt (13 bbls @13.5)
11:40	90		10		3	10 bbls of water displacement
11:44						Come out of hole with drillpipe
						3rd plug @390'
12:12 pm	90		10.5		3	40 sks of cmt (10.5 bbls @13.5)
12:15	90		3		3	3 bbls of water displacement
12:16						Come out of hole with drillpipe
						4th plug @60'
12:36	90		5		3	20 sks of cmt (5 bbls @13.5)
12:38						Come out of hole with drillpipe
						Rat & Mouse hole
12:57	90		13		2	50 sks of cmt (13 bbls @13.5)
1:12						Clean lines and truck
1:35						End job
1:40						Rig down equipment
2:30						Crew leave location

FINAL DISP. PRESS. 90 PSI BUMP PLUG TO PSI BLEEDBACK BBLS THANK YOU

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

Ward # 1-2

2-25s-31w Finney,KS

Start Date: 2014.11.23 @ 03:48:00

End Date: 2014.11.23 @ 12:00:24

Job Ticket #: 58717 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.26 @ 10:56:18

DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58717 **DST#: 1**

Test Start: 2014.11.23 @ 03:48:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:26:40
Time Test Ended: 12:00:24

Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 71

Interval: 4870.00 ft (KB) To 4870.00 ft (KB) (TVD)
Total Depth: 4870.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

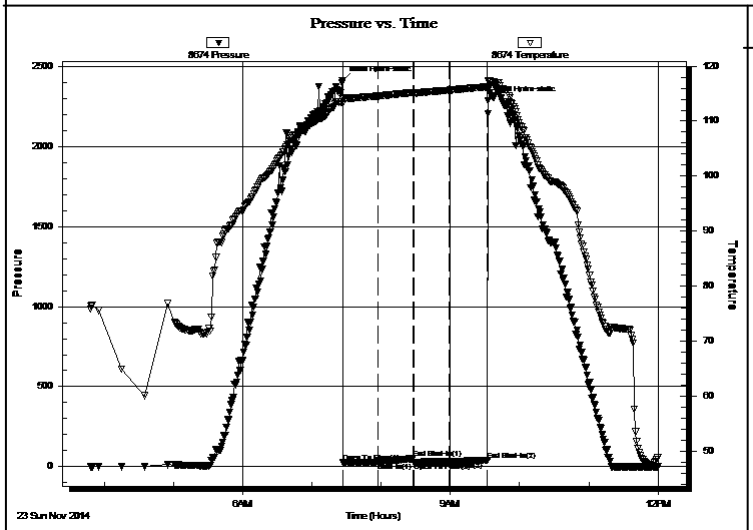
Reference Elevations: 2868.00 ft (KB)
2857.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 30.16 psig @ 4821.00 ft (KB)
Start Date: 2014.11.23 End Date: 2014.11.23
Start Time: 03:48:00 End Time: 12:00:24

Capacity: 8000.00 psig
Last Calib.: 2014.11.23
Time On Btm: 2014.11.23 @ 07:26:25
Time Off Btm: 2014.11.23 @ 09:32:24

TEST COMMENT: IF- Weak Surface Blow Built to 1 1/2" Died Back to 1"
ISI- No Blow
FF- No Blow
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.46	114.01	Initial Hydro-static
1	27.89	113.15	Open To Flow (1)
31	29.13	114.57	Shut-In(1)
62	51.04	115.19	End Shut-In(1)
62	29.00	115.18	Open To Flow (2)
92	30.16	115.62	Shut-In(2)
126	41.43	116.23	End Shut-In(2)
126	2287.72	117.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%m	0.21

Gas Rates

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

DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58717 **DST#: 1**

Test Start: 2014.11.23 @ 03:48:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:26:40
Time Test Ended: 12:00:24

Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 71

Interval: 4870.00 ft (KB) To 4870.00 ft (KB) (TVD)
Total Depth: 4870.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

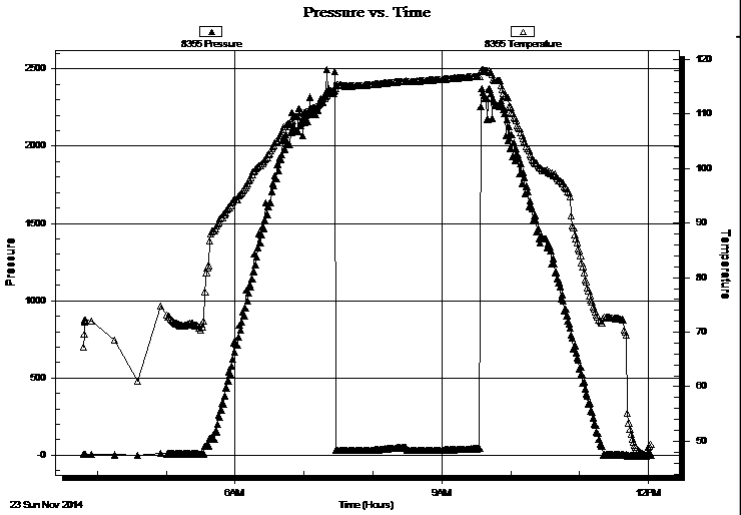
Reference Elevations: 2868.00 ft (KB)
2857.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8355 **Outside**

Press@RunDepth: psig @ 4821.00 ft (KB)
Start Date: 2014.11.23 End Date: 2014.11.23
Start Time: 03:48:05 End Time: 12:01:59

Capacity: 8000.00 psig
Last Calib.: 2014.11.23
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 1 1/2" Died Back to 1"
ISI- No Blow
FF- No Blow
FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100%m	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58717 **DST#: 1**

Test Start: 2014.11.23 @ 03:48:00

Tool Information

Drill Pipe:	Length:	4801.00 ft	Diameter:	3.80 inches	Volume:	67.35 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:		34000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		12000.00 lb
					Total Volume:	67.35 bbl	Tool Chased		ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4818.00 ft						Final	64000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		52.00 ft							
Tool Length:		79.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4792.00		
Shut In Tool	5.00			4797.00		
Hydraulic tool	5.00			4802.00		
Jars	5.00			4807.00		
Safety Joint	2.00			4809.00		
Packer	5.00			4814.00	27.00	Bottom Of Top Packer
Packer	4.00			4818.00		
Stubb	1.00			4819.00		
Perforations	2.00			4821.00		
Recorder	0.00	8355	Outside	4821.00		
Recorder	0.00	8674	Inside	4821.00		
Perforations	10.00			4831.00		
Change Over Sub	1.00			4832.00		
Drill Pipe	32.00			4864.00		
Change Over Sub	1.00			4865.00		
Bullnose	5.00			4870.00	52.00	Bottom Packers & Anchor
Total Tool Length:	**79.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58717 **DST#: 1**

Test Start: 2014.11.23 @ 03:48:00

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:	ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.96 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2100.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

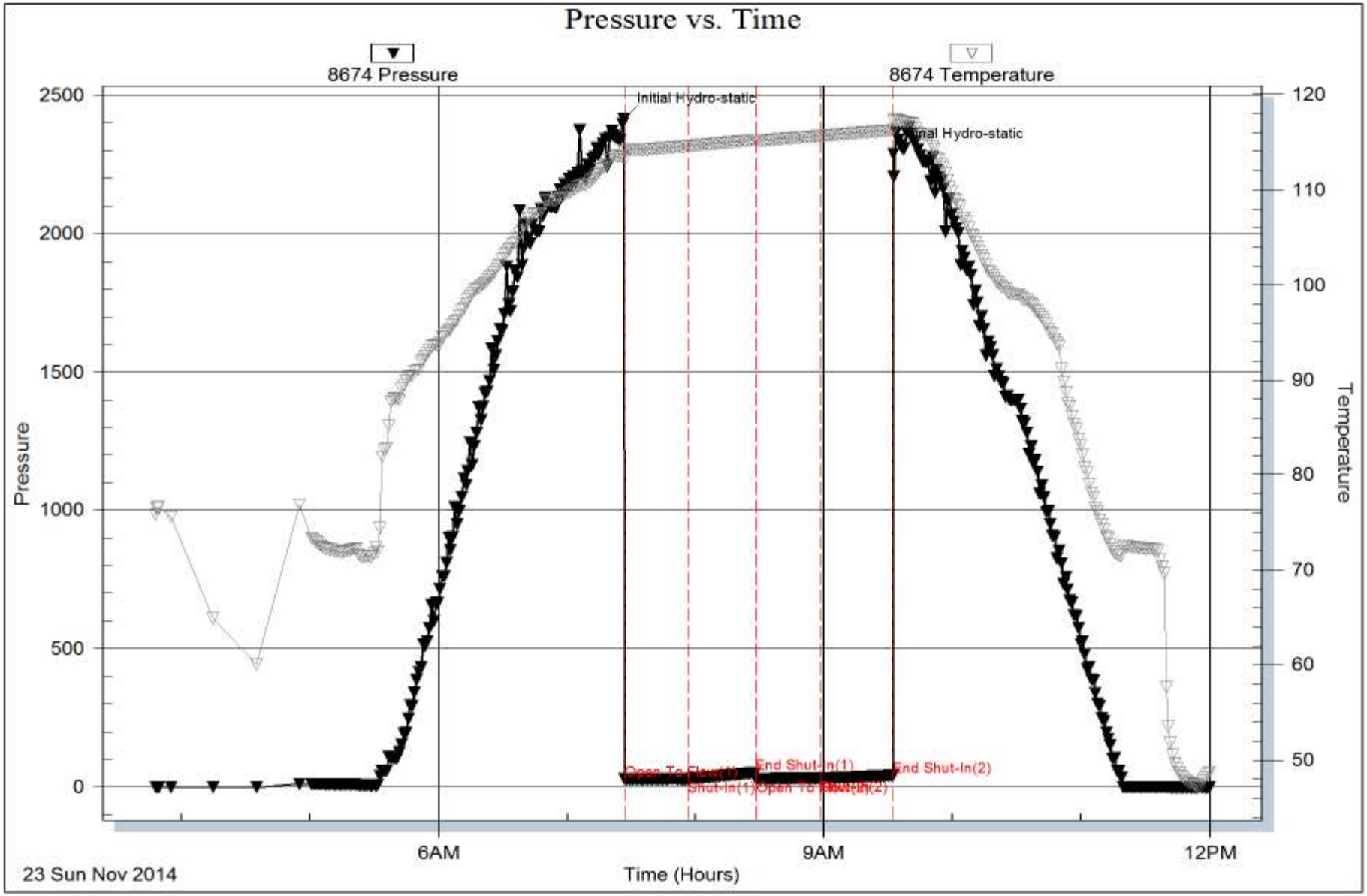
Recovery Table

Length ft	Description	Volume bbl
15.00	100%m	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

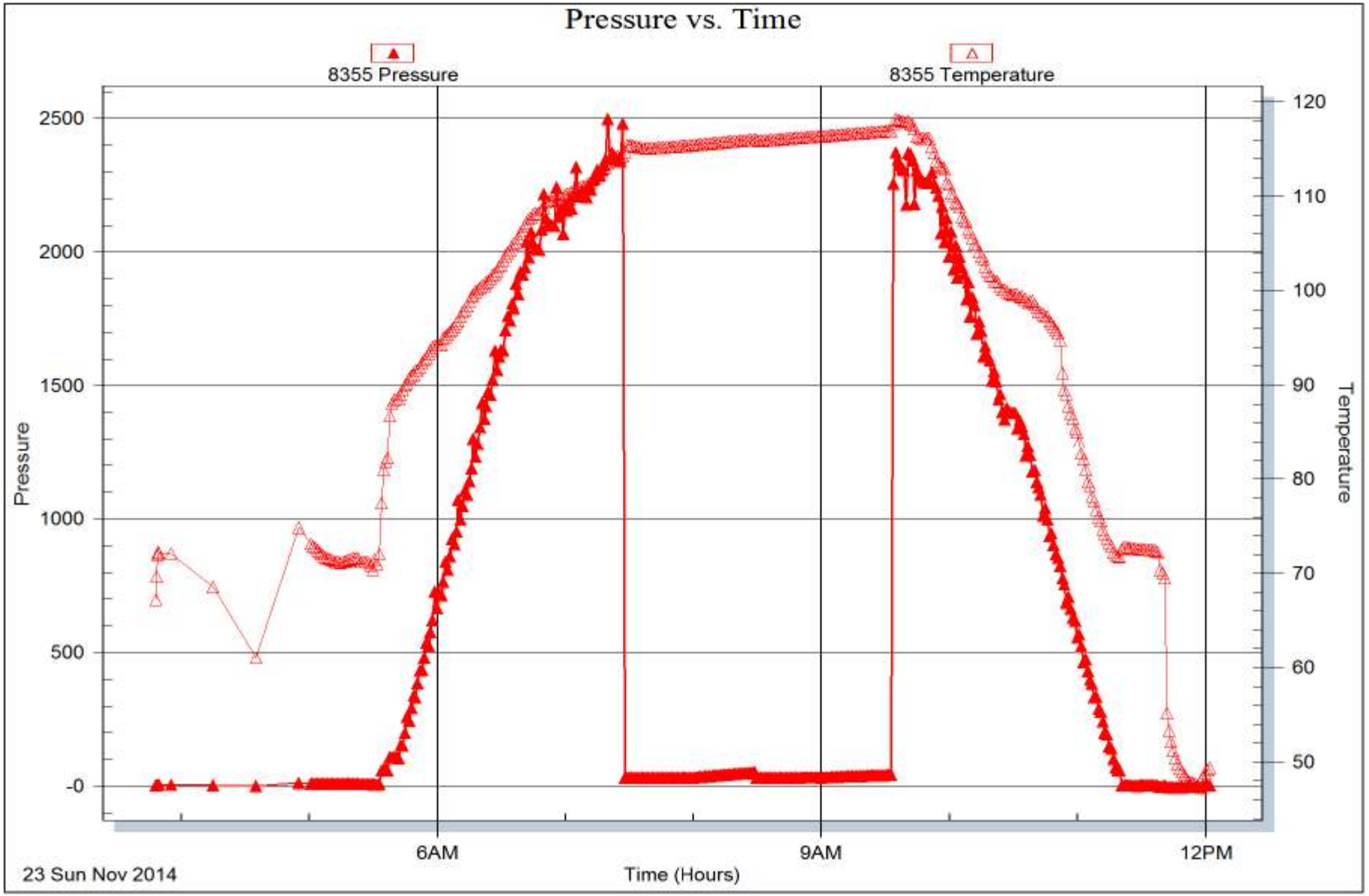
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Inside** American Warrior Inc. Ward # 1-2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58717 Printed: 2014.11.26 @ 10:56:19

Serial #: 8355 **Outside** American Warrior Inc. Ward # 1-2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58717 Printed: 2014.11.26 @ 10:56:19

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

Ward # 1-2

2-25s-31w Finney,KS

Start Date: 2014.11.23 @ 22:52:00
End Date: 2014.11.24 @ 06:03:24
Job Ticket #: 58718 DST #: 2

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

Printed: 2014.11.26 @ 10:56:00

DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58718 **DST#: 2**

Test Start: 2014.11.23 @ 22:52:00

GENERAL INFORMATION:

Formation: **St. Louis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:03:40
Time Test Ended: 06:03:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 71

Interval: 4902.00 ft (KB) To 4935.00 ft (KB) (TVD)
Total Depth: 4935.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

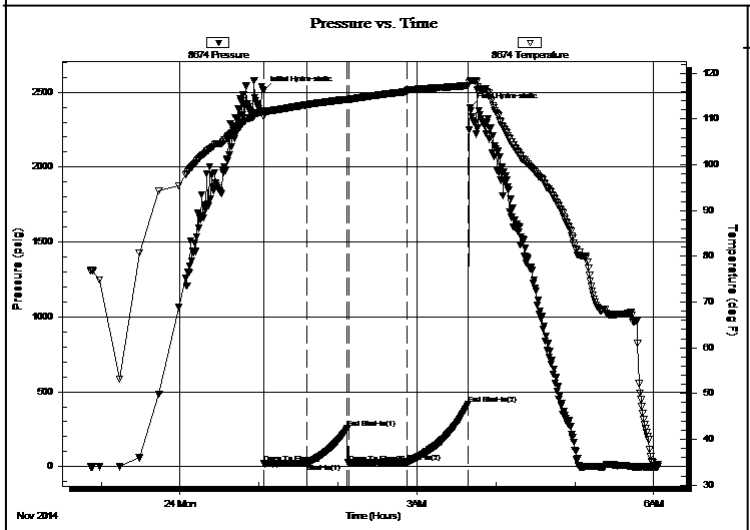
Reference Elevations: 2868.00 ft (KB)
2857.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8674 **Inside**

Press@RunDepth: 31.93 psig @ 4905.00 ft (KB)
Start Date: 2014.11.23 End Date: 2014.11.24
Start Time: 22:52:00 End Time: 06:03:24

Capacity: 8000.00 psig
Last Calib.: 2014.11.24
Time On Btm: 2014.11.24 @ 01:03:25
Time Off Btm: 2014.11.24 @ 03:40:24

TEST COMMENT: IF- Weak Surface Blow Built to 6 1/4"
ISI- No Blow
FF- Weak Surface Blow Built to BOB in 39 1/2 min
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2513.61	111.77	Initial Hydro-static
1	21.63	110.58	Open To Flow (1)
33	23.18	113.09	Shut-In(1)
64	255.11	114.31	End Shut-In(1)
65	22.42	114.24	Open To Flow (2)
110	31.93	116.27	Shut-In(2)
156	418.08	117.33	End Shut-In(2)
157	2395.51	118.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OGCM 9%oil 14%g	0.63
0.00	237' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58718 **DST#: 2**

Test Start: 2014.11.23 @ 22:52:00

GENERAL INFORMATION:

Formation: **St. Louis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:03:40
Time Test Ended: 06:03:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Will MacLean
Unit No: 71

Interval: 4902.00 ft (KB) To 4935.00 ft (KB) (TVD)
Total Depth: 4935.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

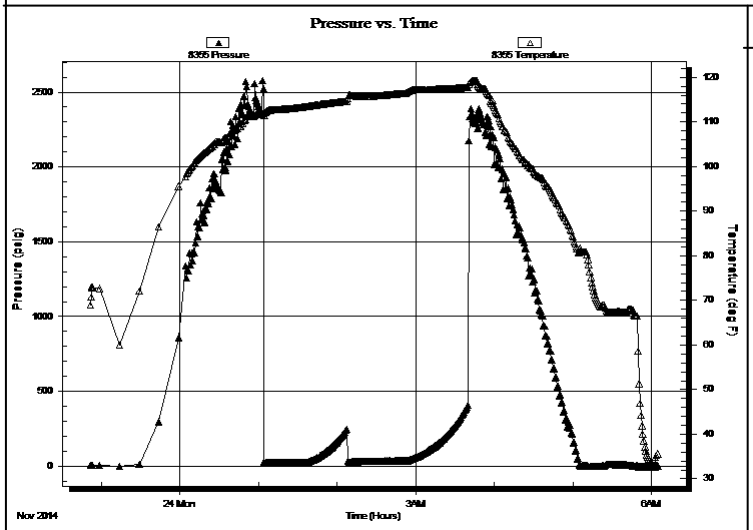
Reference Elevations: 2868.00 ft (KB)
2857.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8355 **Outside**

Press@RunDepth: psig @ 4905.00 ft (KB)
Start Date: 2014.11.23 End Date: 2014.11.24
Start Time: 22:52:05 End Time: 06:04:59

Capacity: 8000.00 psig
Last Calib.: 2014.11.24
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 6 1/4"
ISI- No Blow
FF- Weak Surface Blow Built to BOB in 39 1/2 min
FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OGCM 9%oil 14%g	0.63
0.00	237' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58718 **DST#: 2**

Test Start: 2014.11.23 @ 22:52:00

Tool Information

Drill Pipe:	Length:	4895.00 ft	Diameter:	3.80	inches	Volume:	68.66	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	68.66	bbl	

Drill Pipe Above KB:	20.00 ft
Depth to Top Packer:	4902.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	33.00 ft
Tool Length:	60.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		28000.00 lb
Weight to Pull Loose:		8000.00 lb
Tool Chased		ft
String Weight:	Initial	64000.00 lb
	Final	64000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4876.00		
Shut In Tool	5.00			4881.00		
Hydraulic tool	5.00			4886.00		
Jars	5.00			4891.00		
Safety Joint	2.00			4893.00		
Packer	5.00			4898.00	27.00	Bottom Of Top Packer
Packer	4.00			4902.00		
Stubb	1.00			4903.00		
Perforations	2.00			4905.00		
Recorder	0.00	8355	Outside	4905.00		
Recorder	0.00	8674	Inside	4905.00		
Perforations	25.00			4930.00		
Bullnose	5.00			4935.00	33.00	Bottom Packers & Anchor
Total Tool Length:	**60.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

2-25s-31w Finney,KS

Ward # 1-2

Job Ticket: 58718 **DST#: 2**

Test Start: 2014.11.23 @ 22:52:00

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:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.75 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

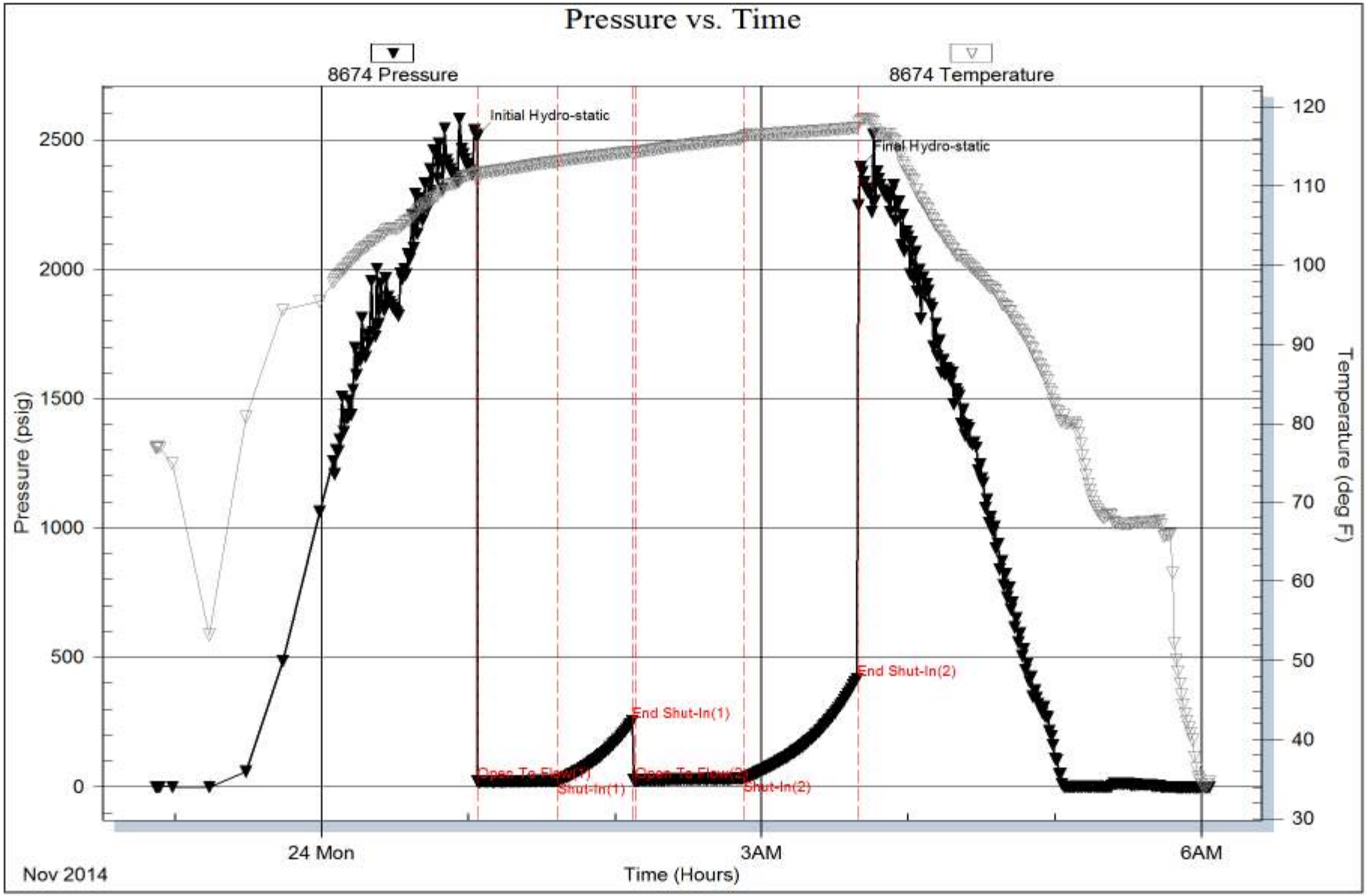
Recovery Table

Length ft	Description	Volume bbl
45.00	OGCM 9%oil 14%g	0.631
0.00	237' of GIP	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl

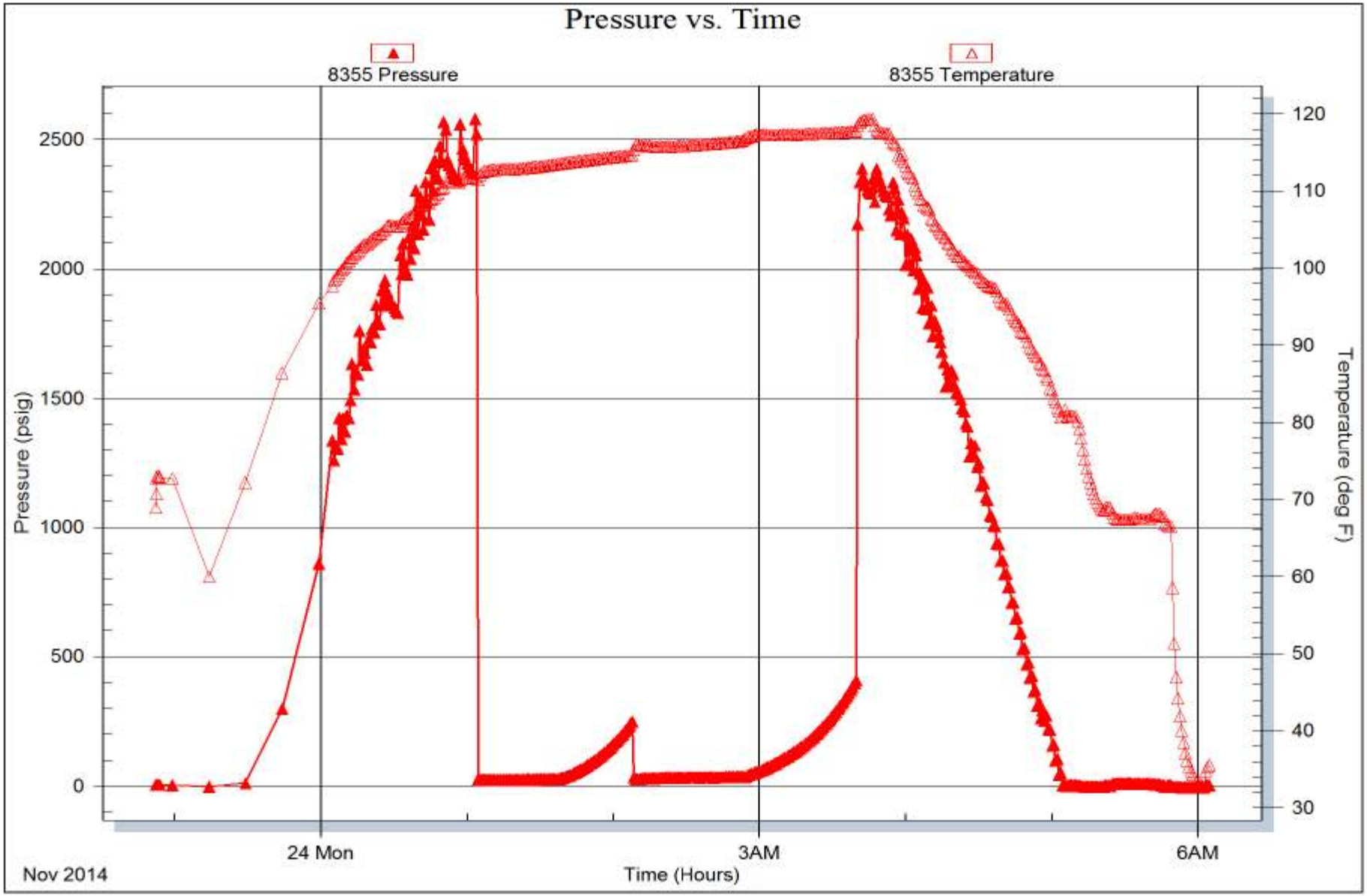
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Inside** American Warrior Inc. Ward # 1-2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 58718 Printed: 2014.11.26 @ 10:56:01

Serial #: 8355 **Outside** American Warrior Inc. Ward # 1-2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 58718 Printed: 2014.11.26 @ 10:56:01

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 58717

Well Name & No. Ward #1-2 Test No. DST #1 Date 11-23-14

Company American Warrior Inc Elevation 2868 KB 2857 GL

Address P.O Box 399 Garden City KS 67846

Co. Rep / Geo. Kevin Timson Rig Duke #10

Location: Sec. 2 Twp. 25s Rge. 31w Co. Finney State KS

Interval Tested 4818-4870 Zone Tested Morrow

Anchor Length 52 Drill Pipe Run 4801 Mud Wt. 9.3

Top Packer Depth 4814 Drill Collars Run 0 Vis 63

Bottom Packer Depth 4818 Wt. Pipe Run 0 WL 8.0

Total Depth 4870 Chlorides 2100 ppm System LCM 1/6

Blow Description IF- Weak Surface Blow Built to 1½" Died Back to 1"

ISI- No Blow

FF- No Blow

FSI- No Blow

Rec 15	Feet of Mud	%gas	%oil	%water 100	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 117 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2413	☑ Test 1250	T-On Location 2:08
(B) First Initial Flow 27	☑ Jars 250	T-Started 3:48
(C) First Final Flow 29	☑ Safety Joint 75	T-Open 7:26
(D) Initial Shut-In 51	☑ Circ Sub N/C	T-Pulled 9:32
(E) Second Initial Flow 29	☐ Hourly Standby	T-Out 12:00
(F) Second Final Flow 30	☑ Mileage 100 R/T 155	Comments
(G) Final Shut-In 41	☐ Sampler	
(H) Final Hydrostatic 2287	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1730.00
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1730	

Approved By ____ Our Representative Kevin Mac

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 58718

Well Name & No. Ward # 1-2 Test No. ~~#3~~ #2 Date 11-23-14

Company American Warrior Inc Elevation 2868 KB 2857 GL

Address P.O Box 399 Garden City KS 67846

Co. Rep / Geo. Kevin Timson Rig Duke 10

Location: Sec. 2 Twp. 25s Rge. 31w Co. Finney State KS

Interval Tested 4902-4935 Zone Tested St. Louis

Anchor Length 33 Drill Pipe Run 4895 Mud Wt. 9.2

Top Packer Depth 4898 Drill Collars Run 0 Vis 56

Bottom Packer Depth 4902 Wt. Pipe Run 0 WL 8.8

Total Depth 4935 Chlorides 2200 ppm System LCM 2lb

Blow Description IF- Weak Surface Blow Built to 6¼"

IST- No Blow

FF- Weak Surface Blow Built to BOB in 39½ min

FSI- No Blow

Rec 45	Feet of @GCM	14 %gas	9 %oil	%water	77 %mud
Rec	Feet of 237' of GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 117 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2513	☑ Test 1250	T-On Location 21:04
(B) First Initial Flow 21	☑ Jars 250	T-Started 22:52
(C) First Final Flow 23	☑ Safety Joint 75	T-Open 1:03
(D) Initial Shut-In 255	☑ Circ Sub N/C	T-Pulled 3:40
(E) Second Initial Flow 22	☐ Hourly Standby	T-Out 6:03
(F) Second Final Flow 31	☑ Mileage 100 R/T 155	Comments
(G) Final Shut-In 418	☐ Sampler	
(H) Final Hydrostatic 2395	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 45	☐ Day Standby	Total 1730
Final Shut-In 45	☐ Accessibility	MP/DST Disc't
	Sub Total 1730	

Approved By ____ Our Representative NS

Geological Report

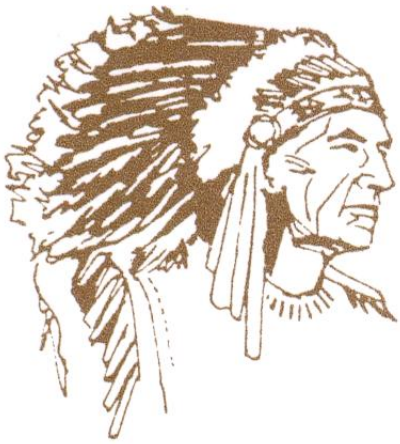
American Warrior, Inc.

Ward #1-2

2014’ FSL & 2284’ FWL

Sec. 2, T25s, R31w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Ward #1-2 2014’ FSL & 2284’ FWL Sec. 2, T25s, R31w Finney County, Kansas API # 15-055-22338-00-00
Drilling Contractor:	Duke Drilling Co. Rig #10
Geologist:	Kevin Timson
Spud Date:	November 16, 2014
Completion Date:	November 25, 2014
Elevation	2857’ G.L. 2868’ K.B.
Directions:	From Garden City Airport. Go SE on Hwy 50 2 miles and East/SE into location.
Casing:	1700’ 8 5/8” #24 Surface Casing
Samples:	4550’ to RTD 10’ Wet & Dry
Drilling Time:	3950’ to RTD
Electric Logs:	Pioneer Energy Services “Y. Ruiz” Stacked-Micro
Drillstem Tests:	Two-Trilobite Testing “Will MacLean”
Problems:	None

Formation Tops

Ward #1-2

Sec. 2, T25s, R31w

2014' FSL & 2284' FWL

Anhydrite	**1900' +968**
Base	**1982' +886**
Heebner	**4015' -1147**
Lansing	**4060' -1192**
Stark	**4423' -1555**
Bkc	**4550' -1682**
Marmaton	**4576' -1708**
Pawnee	**4646' -1778**
Fort Scott	**4670' -1802**
Cherokee	**4686' -1818**
Morrow	**4846' -1978**
Miss	**4864' -1996**
RTD	**5050' -2182**
LTD	**5052' -2184**

Sample Zone Descriptions

Morrow **(4846', -1978):** **Covered in DST #1**

Sandstone. Grey/Glauconitic. Fine to medium grain. Well rounded, well sorted. Fair to good stain. Poor to fair saturation. No show of free oil. Poor to fair. 10 units hotwire.

St. Louis **(4864', -1996):** **Covered in DST #2**

Ls. Tan. Sub crystalline. Fair oomoldic and oolycastic porosity. Fair stain and fair saturation in porosity. Slight show of free oil when broken. Fair odor. 30 units hotwire.

Drill Stem Tests

Trilobite Testing

"Will MacLean"

DST #1 **Morrow**

Interval (4818' – 4870') Anchor 52'

IHP	- 2413 #	
IFP	- 30" – WSB built to 1.5"	27-29 #
ISI	- 30" – No return	51 #
FFP	- 30" – No blow	29-30 #
FSIP	- 30" – No return	54 #
FHP	- 2287 #	
BHT	- 117° F	

Recovery: 15' Mud

DST #2 **St. Louis**

Interval (4902' – 4935') Anchor 33'

IHP	- 2513 #	
IFP	- 30" – 6.25" blow	21-23 #
ISI	- 30" – No return	255 #
FFP	- 45" – BOB in 39.5 min	22-31 #
FSIP	- 45" – No return	418 #
FHP	- 2395 #	
BHT	- 117° F	

Recovery: 237' GIP

45' OGCM (9% Oil)

Structural Comparison

Formation	American Warrior, Inc. Ward #1-2 Sec. 2, T25s, R31w 2014’ FSL & 2284’ FWL		American Warrior, Inc. Clark #1-2 Sec. 2, T25s, R31w 2415’ FSL & 1145’ FEL		American Warrior, Inc. Clark #3-2 Sec 2, T25s, R31w 2165’ FSL & 1738’ FEL
Heebner	**4015' -1147**	**+11**	4002’ -1158	**-3**	3983’ -1144
Lansing	**4060' -1192**	**+12**	4048’ -1204	**+1**	4032’ -1193
Stark	**4423' -1555**	**+12**	4411’ -1567	**+3**	4397’ -1558
BKC	**4550' -1682**	**+14**	4540’ -1696	**+7**	4528’ -1689
Marmaton	**4576' -1708**	**+12**	4564’ -1720	**+5**	4552’ -1713
Pawnee	**4646' -1778**	**+13**	4635’ -1791	**+8**	4625’ -1786
Fort Scott	**4670' -1802**	**+12**	4658’ -1814	**+5**	4646’ -1807
Cherokee	**4686' -1818**	**+12**	4674’ -1830	**-4**	4653’ -1814
Morrow	**4846' -1978**	**+7**	4829’ -1985	**-3**	4820’ -1981
Miss	**4864' -1996**	**+18**	4858’ -2014	**+8**	4843’ -2004

Summary

The location for the Ward #1-2 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests 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 Ward #1-2 well.

Respectfully Submitted,

Kevin Timson
American Warrior, Inc.