



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1254504
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: _____



1254504

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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

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

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Haverfield 1-25
Doc ID	1254504

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Haverfield 1-25
Doc ID	1254504

Tops

Name	Top	Datum
Heebner	3829	-777
Lansing	3874	-822
Stark	4134	-1082
B/KC	4212	-1160
Marmaton	4252	-1200
Pawnee	4348	-1296
Ft.Scott	4403	-1351
Cherokee	4434	-1382
Morrow	4550	-1498



CEMENTING LOG

Date 5/13/2015 District Liberal # 21 Ticket No. 65305
 Company American Warrior Rig Duke # 10
 Lease haverfield Well No 1-25
 County LOGAN 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 439

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
2%GEL, 3%CC,1/4FLOSEAL Excess _____

Amt. 250 Sks Yield 1.39 ft³/sk Density 14.76 PPG

TAIL: Time _____ hrs. Type _____
 Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER Lead 6.5 Gal/sk Tail _____ Gal/sk Total _____ BBLs

Pump Trucks Used: 531-541

Bulk Equipment 956-841

Float Equipment: Manufacturer WEATHERFORD

Shoe: Type GUIDE SHOE Depth 439

Float: Type AFU Insert Valve Depth 396

Centralizers: Quantity 3 Plugs Top 1 Bottom _____

Stage Collars _____

Special Equipment _____

Disp: Fluid Type H2O Amt 25.2 bbls Weight 8.34 PPG

Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER ALDO ESPINOZA

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
500AM						ARRIVE TO LOCATION - RUN FLOAT EQUIPMENT
530AM						RIG UP
930AM						CASING ON BOTTOM
945AM						SAFETY MEETING
1000AM	1000					PRESSURE TEST
1002AM	40		5	5	5	5 BBL WATER SPACER
1005AM	60		67	62	6	PUMP 62 BBL OF SLURRY CEMENT
1023AM					4	RELEASE PLUG- START DISPLACEMENT
1028AM	120		77	10	5	10 BBL GONE
1035AM	200		89	12	5	25 BBL GONE BUMP PLUG
1040AM	900					RELEASE PRESSURE, CHECK FLOATS, GOOD
1100AM						RIG DOWN
1140AM						LEAVE LOCATION
						20 BBL CMENT BACK TO SURFACE

FINAL DISP. PRESS. 200 PSI BUMP PLUG TO 900 PSI BLEEDBACK 0.5 BBLs **THANK YOU**



CEMENTING LOG

Date 5/20/2015 District Liberal # 21 Ticket No. 65308
 Company American Warrior Rig Duke # 10
 Lease HAVERFIELD Well No 1-25
 County LOGAN 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 2440

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 0.044 LIN. FT/BBL 0.05822
 BBLS/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type 10 bbl water
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Time _____ hrs. Type CLASS A
60/40, 4% GEL Excess _____

Amt. 250 Sks Yield 1.41 ft³/sk Density 13.84 PPG

TAIL: Time _____ hrs. Type _____ Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER Lead 6.8 Gal/sk Tail _____ Gal/sk Total _____ BBLs

Pump Trucks Used: 531-541
 Bulk Equipment 993-1066

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

COMPANY REPRESENTATIVE _____ CEMENTER ALDO ESPINOZA

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
800PM						ARRIVE TO LOCATION
830PM						RIG UP
900PM						SAFETY MEETING
915PM						FIRST PLUG, @ 2440 FT, 10 BBL OF WATER AHEAD, 12.6 BBL OF SLURRY, 2 BBL OF WATER BEHIND, 27.2 BBL OF DISPLACEMENT W/MUD
1016PM						SECOND PLUG @ 1200 FT, 25.1 BBL OF SLURRY, 11 BBL OF DISPLACEMENT
1110PM						THIRD PLUG @ 490 FT, 12.6 BBL OF SLURRY, 3.9 BBL OF DISPLACEMENT
1140PM						SURFACE PLUG @ 40 FT, WIPER PLUG, 5 BBL OF SLURRY.
1158PM						RAT HOLE, 8 BBL OF SLURRY
1210AM						MOUSE HOLE, 5 BBL OF SLURRY
1238AM						RIG DOWN
145AM						LEAVE LOCATION

FINAL DISP. PRESS. _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs THANK YOU



DRILL STEM TEST REPORT

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

PO Box 399
Garden City 67846

ATTN: Kevin Timson

Haverfield #1-25

25-13s-36w Logan,KS

Start Date: 2015.05.18 @ 02:00:00

End Date: 2015.05.18 @ 08:26:45

Job Ticket #: 58661 DST #: 1

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

Printed: 2015.05.20 @ 11:49:36



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58661

DST#: 1

ATTN: Kevin Timson

Test Start: 2015.05.18 @ 02:00:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:23:00

Time Test Ended: 08:26:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 71

Interval: 4236.00 ft (KB) To 4299.00 ft (KB) (TVD)

Reference Elevations: 3052.00 ft (KB)

Total Depth: 4299.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8674

Inside

Press@RunDepth: 22.96 psig @ 4237.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.18

End Date:

2015.05.18

Last Calib.:

2015.05.18

Start Time: 02:00:05

End Time:

08:26:44

Time On Btm:

2015.05.18 @ 04:22:30

Time Off Btm:

2015.05.18 @ 06:21:30

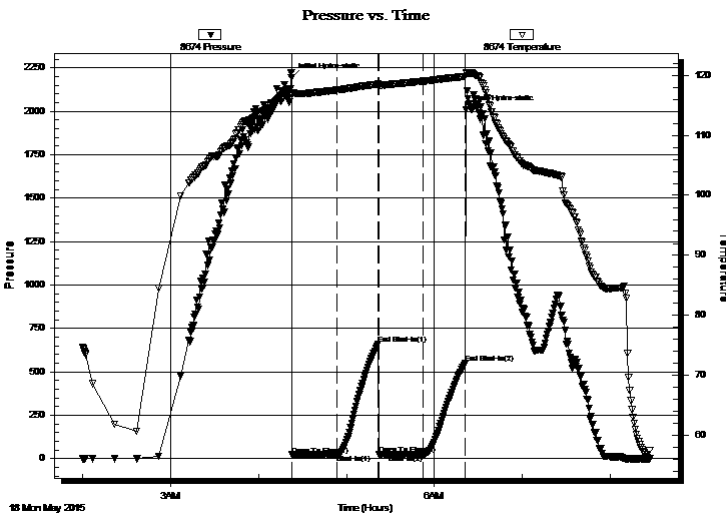
TEST COMMENT: 30: Weak surface blow died in 9 mins.

30: No Return.

30: No Blow .

30: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.89	117.79	Initial Hydro-static
1	21.83	116.89	Open To Flow (1)
31	23.92	117.52	Shut-In(1)
59	660.13	118.49	End Shut-In(1)
60	23.37	118.27	Open To Flow (2)
90	22.96	119.00	Shut-In(2)
119	552.22	119.79	End Shut-In(2)
119	2011.21	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud oil spots	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

25-13s-36w Logan, KS

PO Box 399
Garden City 67846

Haverfield #1-25

ATTN: Kevin Timson

Job Ticket: 58661

DST#: 1

Test Start: 2015.05.18 @ 02:00:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:23:00

Time Test Ended: 08:26:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 71

Interval: 4236.00 ft (KB) To 4299.00 ft (KB) (TVD)

Reference Elevations: 3052.00 ft (KB)

Total Depth: 4299.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8355 Outside

Press@RunDepth: psig @ 4237.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.18

End Date: 2015.05.18

Last Calib.: 2015.05.18

Start Time: 02:00:05

End Time: 08:27:14

Time On Btm:

Time Off Btm:

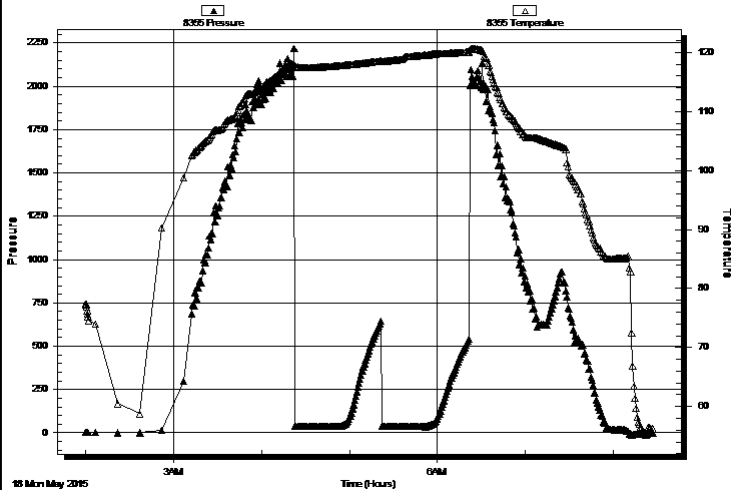
TEST COMMENT: 30: Weak surface blow died in 9 mins.

30: No Return.

30: No Blow .

30: No Return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud oil spots	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58661

DST#: 1

ATTN: Kevin Timson

Test Start: 2015.05.18 @ 02:00:00

Tool Information

Drill Pipe:	Length: 4232.00 ft	Diameter: 3.80 inches	Volume: 59.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4236.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4209.00	
Shut In Tool	5.00			4214.00	
Hydraulic tool	5.00			4219.00	
Jars	5.00			4224.00	
Safety Joint	3.00			4227.00	
Packer	5.00			4232.00	28.00 Bottom Of Top Packer
Packer	4.00			4236.00	
Stubb	1.00			4237.00	
Recorder	0.00	8355	Outside	4237.00	
Recorder	0.00	8674	Inside	4237.00	
Perforations	23.00			4260.00	
Change Over Sub	1.00			4261.00	
Drill Pipe	32.00			4293.00	
Change Over Sub	1.00			4294.00	
Bullnose	5.00			4299.00	63.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58661

DST#: 1

ATTN: Kevin Timson

Test Start: 2015.05.18 @ 02:00:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud oil spots	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

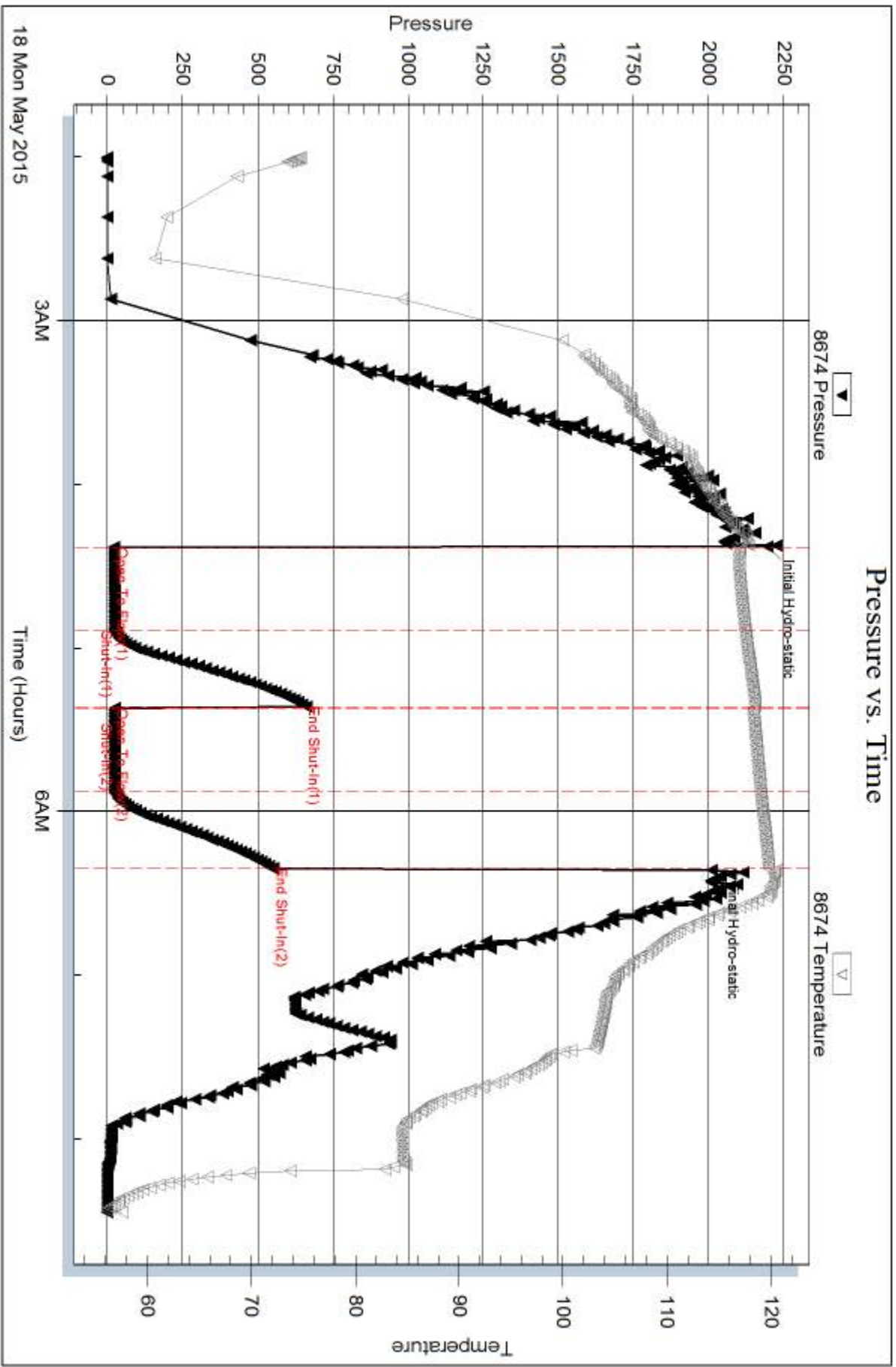
Num Gas Bombs: 0

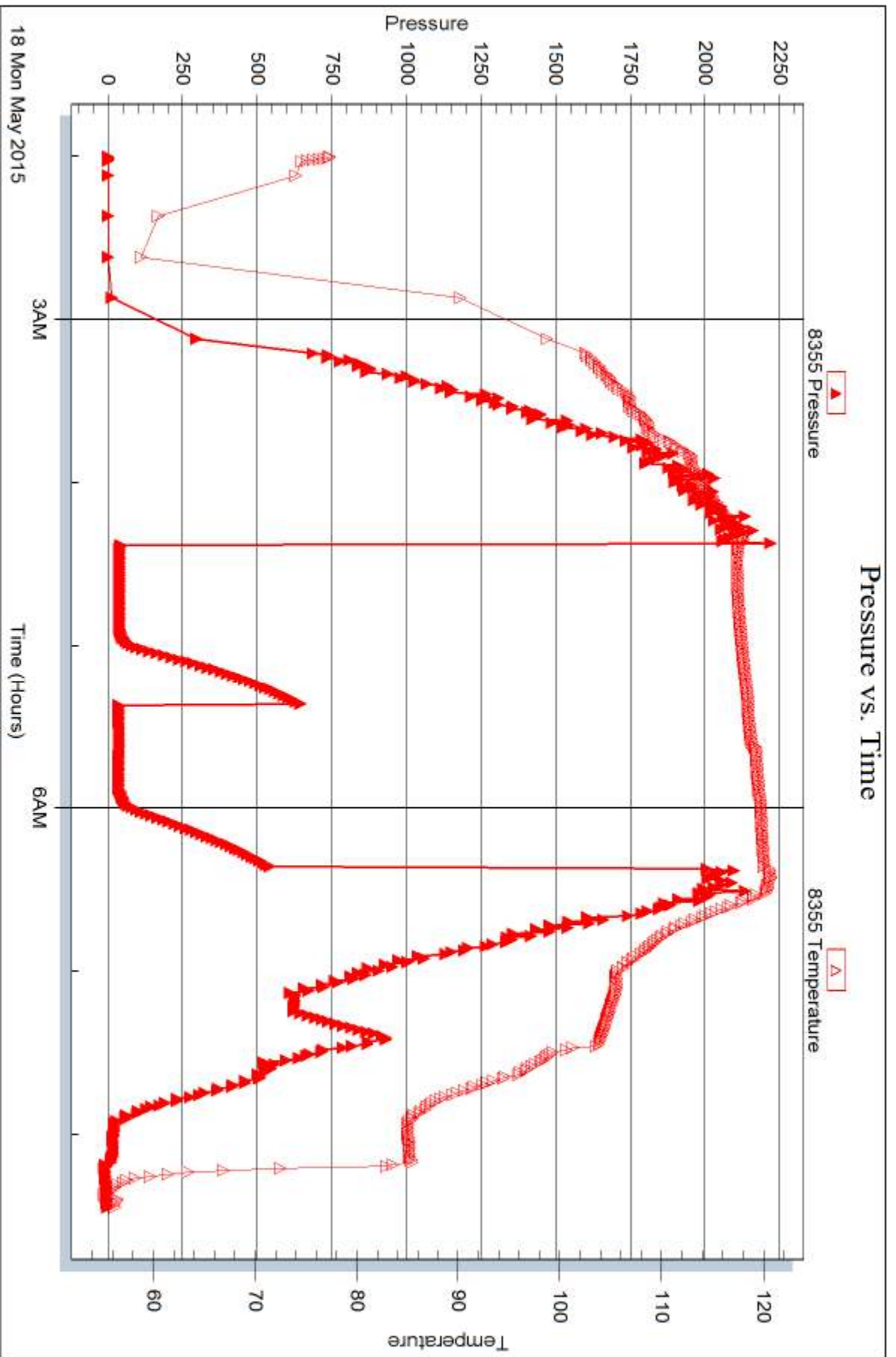
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

PO Box 399
Garden City 67846

ATTN: Kevin Timson

Haverfield #1-25

25-13s-36w Logan,KS

Start Date: 2015.05.19 @ 10:12:00

End Date: 2015.05.19 @ 17:11:15

Job Ticket #: 58662 DST #: 2

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

Printed: 2015.05.20 @ 11:48:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58662

DST#: 2

ATTN: Kevin Timson

Test Start: 2015.05.19 @ 10:12:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:44:00

Time Test Ended: 17:11:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 71

Interval: 4540.00 ft (KB) To 4602.00 ft (KB) (TVD)

Reference Elevations: 3052.00 ft (KB)

Total Depth: 4602.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8674

Inside

Press@RunDepth: 1125.63 psig @ 4541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.19

End Date:

2015.05.19

Last Calib.:

2015.05.19

Start Time: 10:12:05

End Time:

17:11:14

Time On Btm:

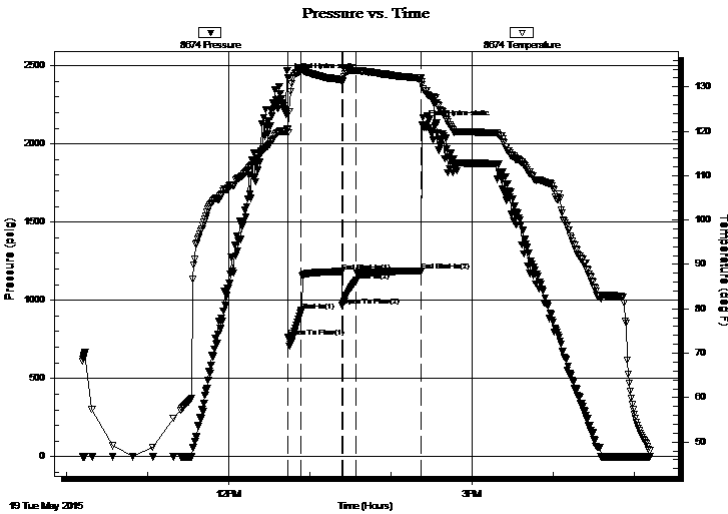
2015.05.19 @ 12:43:30

Time Off Btm:

2015.05.19 @ 14:22:45

TEST COMMENT: 10: B.O.B. in 1 min.
30: No Return.
10: B.O.B. in 1 min.
45: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.77	120.45	Initial Hydro-static
1	765.10	119.60	Open To Flow (1)
10	930.34	133.54	Shut-In(1)
40	1183.33	131.49	End Shut-In(1)
41	965.95	131.21	Open To Flow (2)
51	1125.63	133.67	Shut-In(2)
99	1186.49	131.95	End Shut-In(2)
100	2121.56	131.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
470.00	w cm 30w 70m	6.59
2162.00	mcw 10m 90w	30.33

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58662

DST#: 2

ATTN: Kevin Timson

Test Start: 2015.05.19 @ 10:12:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:44:00

Time Test Ended: 17:11:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 71

Interval: 4540.00 ft (KB) To 4602.00 ft (KB) (TVD)

Total Depth: 4602.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3052.00 ft (KB)

3040.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8355 Outside

Press@RunDepth: psig @ 4541.00 ft (KB)

Start Date: 2015.05.19

End Date: 2015.05.19

Capacity: 8000.00 psig

Last Calib.: 2015.05.19

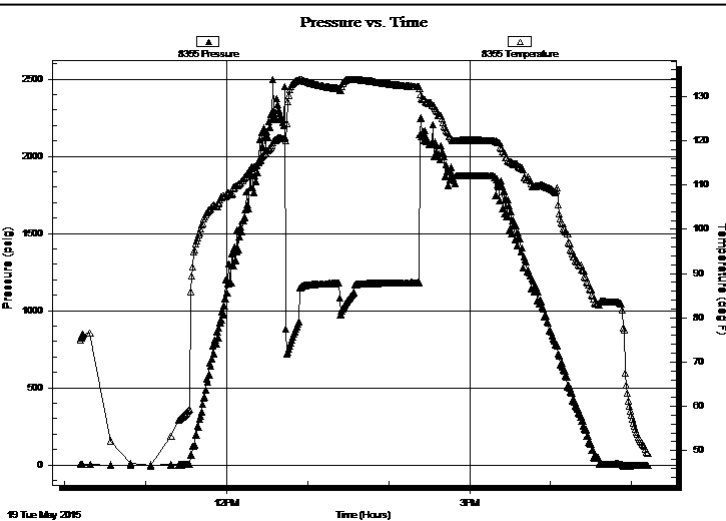
Start Time: 10:12:05

End Time: 17:11:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 10: B.O.B. in 1 min.
30: No Return.
10: B.O.B. in 1 min.
45: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
470.00	w cm 30w 70m	6.59
2162.00	mcw 10m 90w	30.33

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58662

DST#: 2

ATTN: Kevin Timson

Test Start: 2015.05.19 @ 10:12:00

Tool Information

Drill Pipe:	Length: 4517.00 ft	Diameter: 3.80 inches	Volume: 63.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4540.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4513.00	
Shut In Tool	5.00			4518.00	
Hydraulic tool	5.00			4523.00	
Jars	5.00			4528.00	
Safety Joint	3.00			4531.00	
Packer	5.00			4536.00	28.00 Bottom Of Top Packer
Packer	4.00			4540.00	
Stubb	1.00			4541.00	
Recorder	0.00	8355	Outside	4541.00	
Recorder	0.00	8674	Inside	4541.00	
Perforations	22.00			4563.00	
Change Over Sub	1.00			4564.00	
Drill Pipe	32.00			4596.00	
Change Over Sub	1.00			4597.00	
Bullnose	5.00			4602.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

25-13s-36w Logan,KS

PO Box 399
Garden City 67846

Haverfield #1-25

Job Ticket: 58662

DST#: 2

ATTN: Kevin Timson

Test Start: 2015.05.19 @ 10:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
470.00	w cm 30w 70m	6.593
2162.00	mcw 10m 90w	30.327

Total Length: 2632.00 ft Total Volume: 36.920 bbl

Num Fluid Samples: 0

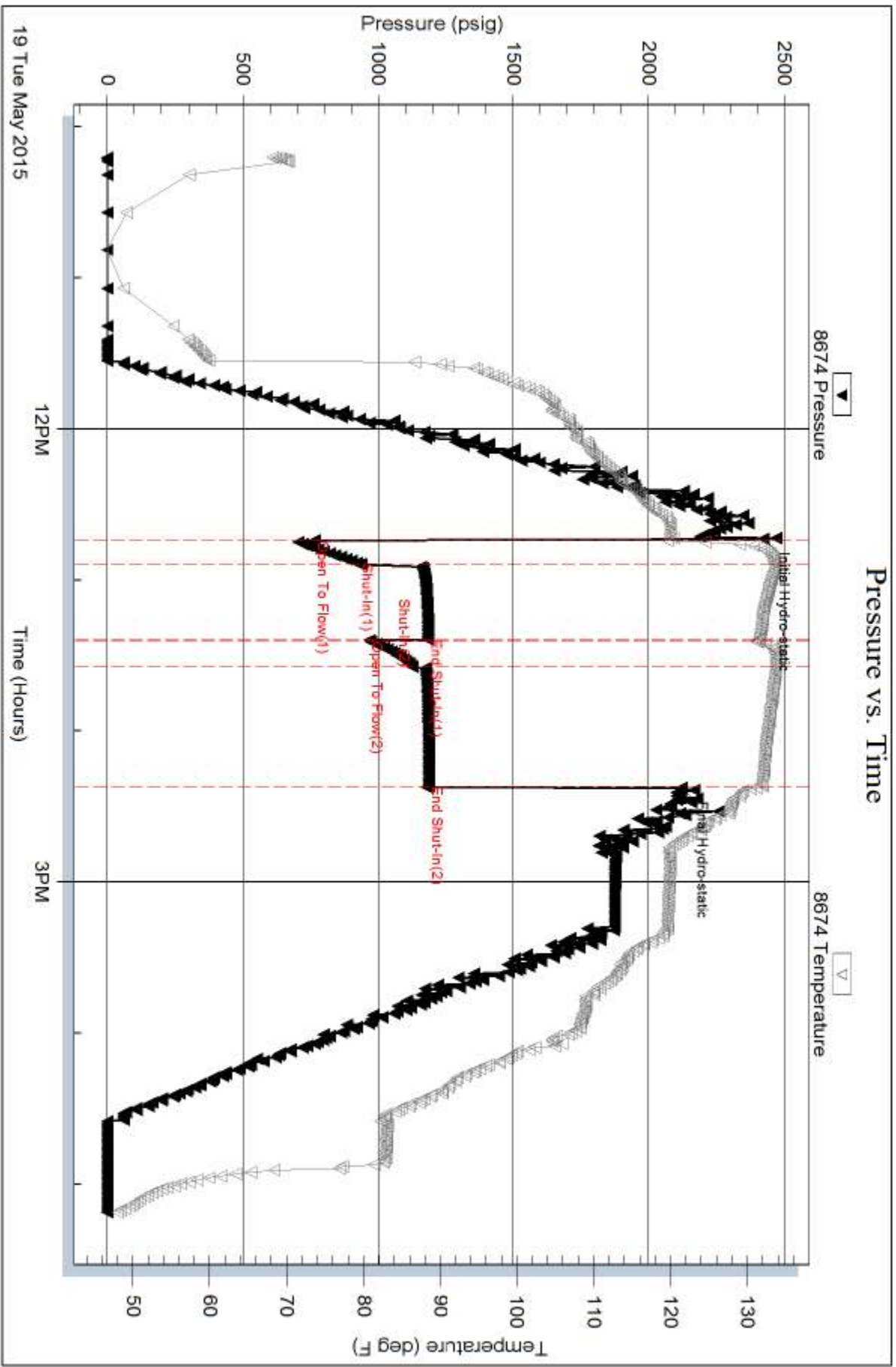
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW 46F @ .20 = 17000 Chlorides

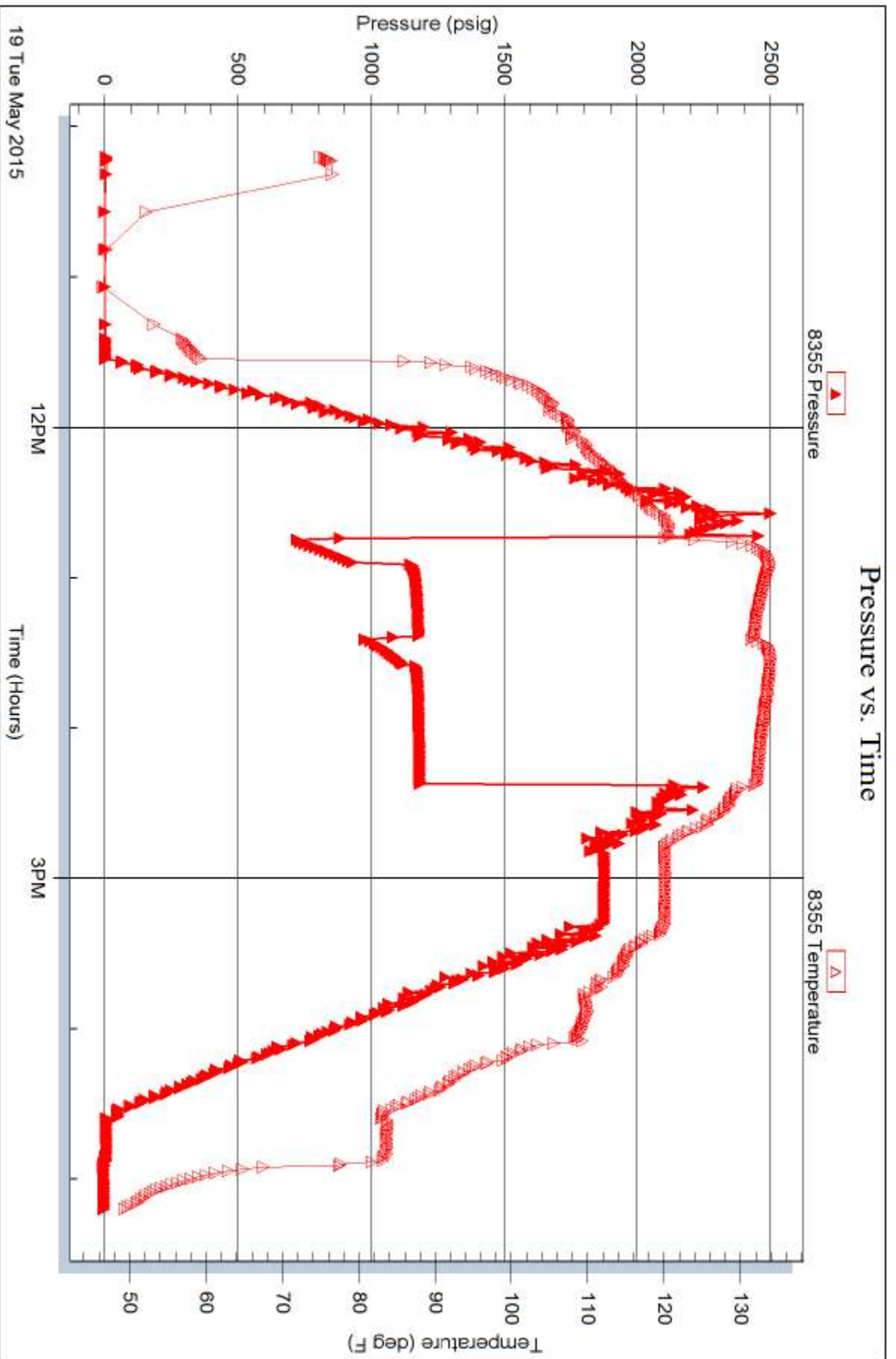


Serial #: 8355

Outside American Warrior, Inc.

Haverfield #1-25

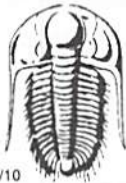
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59662

Printed: 2015.05.20 @ 11:48:58



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58661

4/10

Well Name & No. Haverfield # 1-25 Test No. 1 Date 5/19
 Company American Warrior, Inc. Elevation 3052 KB 3040 GL
 Address 3118 Cummings RD P.O. Box 399 Garden city 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #10
 Location: Sec. 25 Twp. 13S Rge. 36W Co. Logan State KS

Interval Tested 4236 4299 Zone Tested Pleasanton
 Anchor Length 63 Drill Pipe Run 4232 Mud Wt. 9.2
 Top Packer Depth 4232 Drill Collars Run Ø Vis 54
 Bottom Packer Depth 4236 Wt. Pipe Run Ø WL 9.4
 Total Depth 4299 Chlorides 3500 ppm System LCM 2

Blow Description 30 weak surface blow Diced in 9 mins.
30 No Return
30 No Blow
30 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud oil spots</u>		<u>1</u>		<u>99</u>
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 10 BHT 120 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2196 Test 1150 T-On Location 1:20
 (B) First Initial Flow 22 Jars 250 T-Started 2:00
 (C) First Final Flow 24 Safety Joint 75 T-Open 4:20
 (D) Initial Shut-In 460 Circ Sub N/C T-Pulled 6:20
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 8:26
 (F) Second Final Flow 23 Mileage 129 BT 102 Comments _____
 (G) Final Shut-In 552 Sampler _____
 (H) Final Hydrostatic 2011 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

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

Sub Total 0
 Total 1577
 MP/DST Disc't _____

Sub Total 1577

Approved By _____ 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 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. 58662

4/10

Well Name & No. Haverfield # 1-25 Test No. 2 Date 5/19
 Company American Warrior Inc Elevation 3052 KB 3040 GL
 Address 3118 Cummings RD P.O. Box 399 Garden city 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #10
 Location: Sec. 25 Twp. 13S Rge. 3W Co. Logan State KS

Interval Tested 4540 4602 Zone Tested Morrow
 Anchor Length 62 Drill Pipe Run 4517 Mud Wt. 9.5
 Top Packer Depth 4536 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4540 Wt. Pipe Run 0 WL 10.4
 Total Depth 4602 Chlorides 5000 ppm System LCM 4

Blow Description 10 B.O.B in 1 min
30 No Return
10 B.O.B in 1 min
45 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2162</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
<u>470</u>	<u>WCM</u>			<u>30</u>	<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2632 BHT 132 Gravity 1150 API RW 44 @ 20 ° F Chlorides 17000 ppm
 (A) Initial Hydrostatic 2424 Test 1150 T-On Location 10:10
 (B) First Initial Flow 765 Jars 250 T-Started 10:12
 (C) First Final Flow 930 Safety Joint 75 T-Open 12:41
 (D) Initial Shut-In 1143 Circ Sub N/C T-Pulled 14:16
 (E) Second Initial Flow 966 Hourly Standby _____ T-Out 17:18
 (F) Second Final Flow 1124 Mileage 129 RT 102
 (G) Final Shut-In 1186 Sampler _____
 (H) Final Hydrostatic 2122 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1577

Initial Open 10
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In 45

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1577
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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Geological Report

American Warrior, Inc.

Haverfield #1-25

93' FSL & 1779' FEL

Sec. 25, T13s, R36w

Logan County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Haverfield #1-25
93' FSL & 1779' FEL
Sec. 25, T13s, R36w
Logan County, Kansas
API # 15-109-21410-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: May 13, 2015

Completion Date: May 21, 2015

Elevation 3041' G.L.
3052' K.B.

Directions: From Russell Springs, KS. Go SW on Hwy 25 5 miles. Go South on lease road.

Casing: 439' 8 5/8" #24 Surface Casing

Samples: 3750' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "C. Desaire"
Full Sweep

Drillstem Tests: Two-Trilobite Testing "Justin Harris"

Problems: None

Formation Tops

Haverfield #1-25

Sec. 25, T13s, R36w

93' FSL & 1779' FEL

Anhydrite	2429' +623
Base	2451' +601
Heebner	3829' -777
Lansing	3874' -822
Stark	4134' -1082
BKc	4212' -1160
Marmaton	4252' -1200
Pawnee	4348' -1296
Fort Scott	4403' -1351
Cherokee	4434' -1382
Morrow	4550' -1498
RTD	4710' -1658
LTD	4711' -1659

Sample Zone Descriptions

Pleasanton (4236', -1184): Covered in DST #1

Ls. Tan. Sub crystalline. Fair oolycastic porosity. Fair stain. Poor saturation. No show of free oil. Poor odor. 20 Unit kick.

Morrow (4550', -1498): Covered in DST #2

Ss. Gray. Glauconitic. Medium to coarse grained. Sub angular. Well sorted. Poorly cemented. Barren. No kick.

Drill Stem Tests
Trilobite Testing
"Justin Harris"

DST #1

Pleasanton

Interval (4236' - 4299') Anchor Length 63'

IHP	-2196 #	
IFP	- 30" – WSB died in 9 min	22-24 #
ISI	- 30" – No Return	660 #
FFP	- 30" – No blow	23-23 #
FSIP	- 30" - No Return	552 #
FHP	- 2011 #	
BHT	- 120° F	
Recovery:	10' Mud with oil spots	

DST #2

Morrow

Interval (4540' - 4602') Anchor Length 62'

IHP	-2424 #	
IFP	- 10" - BOB in 1 min	765-930#
ISI	- 30" - No Return	1183 #
FFP	- 10" - BOB in 1 min	966-1126 #
FSIP	- 45" - No Return	1186#
FHP	-2122 #	
BHT	- 134° F	
Recovery:	2162' MCW	
	470' WCM	

Structural Comparison

Formation	American Warrior, Inc. Haverfield #1-25 Sec. 25, T13s, R36w 93' FSL & 1779' FEL	American Warrior, Inc. Sneed-Lamb #1-24 Sec. 24, T13s, R36w 878' FNL & 1235' FWL	Texaco Inc. Berry #1 Sec 21, T13s, R36w 1650' FSL & 330' FEL
Heebner	3829' -777	-16	3715' -761
Lansing	3874' -822	-14	-20
Stark	4134' -1082	-17	3776' -757
BKC	4212' -1160	-22	-16
Marmaton	4252' -1200	-24	3825' -806
Pawnee	4348' -1296	-30	-14
Fort Scott	4403' -1351	-29	4087' -1068
Cherokee	4434' -1382	-29	-25
Morrow	4550' -1498	-26	-24
Miss	NA	NA	-25
			4195' -1176
			-23
			4290' -1271
			-23
			4347' -1328
			-23
			4378' -1359
			-10
			4507' -1488
			NA
			4622' -1603

Summary

The location for the Haverfield #1-25 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 Haverfield #1-25 well.