

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1196592

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

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: _____

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 <i>(Attach Additional Sheets)</i>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
List All E. Logs Run:					

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

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) _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	D & S 1-5
Doc ID	1196592

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	386	Class A	275	3%cc/2%g el.
Production	7.875	5.50	14	3408	EA-2	145	D-air

Federal Tax ID. # 20-8651475

SERVICE POINT:REMARKS:

SERVICE

TOTAL 2.150.²⁵

PLUG & FLOAT EQUIPMENT

TOTAL 131.04

$$\overline{7.789.36}$$



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

TICKET 25284

PAGE	OF
1	2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays ks	1-5	0-5	Ellsworth	KS		2-3-14	
2. Ness City ks	TICKET TYPE ☒ SERVICE ☐ SALES	CONTRACTOR Dwike	RIG NAME/NO. 8	SHIPPED VIA CT	DELIVERED TO Location	ORDER NO.	
3.	WELL TYPE 0-1	WELL CATEGORY Development	JOB PURPOSE 5 1/2 long string	WELL PERMIT NO.	WELL LOCATION Sec 5, Twp 16s, R 10w		
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 #112	70	mi.			6.00	420.00
578		1			Pump Charge	1	ea			1500.00	1500.00
221		1			Liquid KCL	2	gal			25.00	50.00
281		1			Mud Flush	500	gal			1.25	625.00
290		1			D-Ar	2	gal			42.00	84.00
402		1			Centralizers	8	ea	5 1/2"		70.00	560.00
403		1			Cement Basket	1	ea			300.00	300.00
406		1			Latch Down Plug + Baffle	1	ea			275.00	275.00
407		1			Insert Float Shoe w/ Auto Fill	1	ea			375.00	375.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*
DATE SIGNED 2-3-14 TIME SIGNED 11400 ☐ 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	P1 PAGE TOTAL	4189.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P2	5114.00
WE UNDERSTOOD AND MET YOUR NEEDS?				subtotal	9303.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Ellsworth TAX 7.15%	456.99
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	9759.99
ARE YOU SATISFIED WITH OUR SERVICE?	☐ YES ☐ NO				
☐ CUSTOMER DID NOT WISH TO RESPOND					

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!



TICKET
No. 25284

[illegible]

JOB LOG

SWIFT Services, Inc.

DATE 2-3-14 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
American Warrior		1-5		D+S		5 1/2 long string		25284	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1400							on location	
								TO 3410 SJ 20	
								TP 3408 Insert 3388	
								5 1/2 x 14 ft	
								Centralizers 1, 3, 5, 7, 9, 11, 13, 15	
								Basket 4	
	1515							Start Pipe	
	1630							Drop Ball Break Circulation	
	1730		7					Plug BH. 30 sks	
	1740	5	12		✓		300	Start Mud Flush	
		5	20		✓		300	Start KCL flush	
		5	35		✓		200	Start cement 145 sks	
	1800							Dred Plug	
								Wash out Pump + Lines	
	1803	6			✓			Start Displacement	
	1815	6	82.6		✓		750 1500 1500	land plug	
	1820							Release Dry	
								Wash up Rock up	
	1900							Job Complete	
								Thank You	
								Josh, Brian, Isaac	



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Wyatt Urban

D&S #1-5

5 16s 10w Ellsworth,KS

Start Date: 2014.02.02 @ 11:15:00

End Date: 2014.02.02 @ 18:36:00

Job Ticket #: 50422 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.04 @ 14:19:16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
Garden City KS 67846
ATTN: Wyatt Urban

5 16s 10w Ellsworth, KS

D&S #1-5

Job Ticket: 50422

DST#: 1

Test Start: 2014.02.02 @ 11:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 1820.00 ft (KB)

Time Tool Opened: 13:33:15

Time Test Ended: 18:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3248.00 ft (KB) To 3303.00 ft (KB) (TVD)

Total Depth: 3303.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1820.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8289 Outside

Press@RunDepth: 771.27 psig @ 3267.00 ft (KB)

Start Date: 2014.02.02

End Date:

2014.02.02

Start Time: 11:15:02

End Time:

18:36:00

Capacity: 8000.00 psig

Last Calib.: 2014.02.02

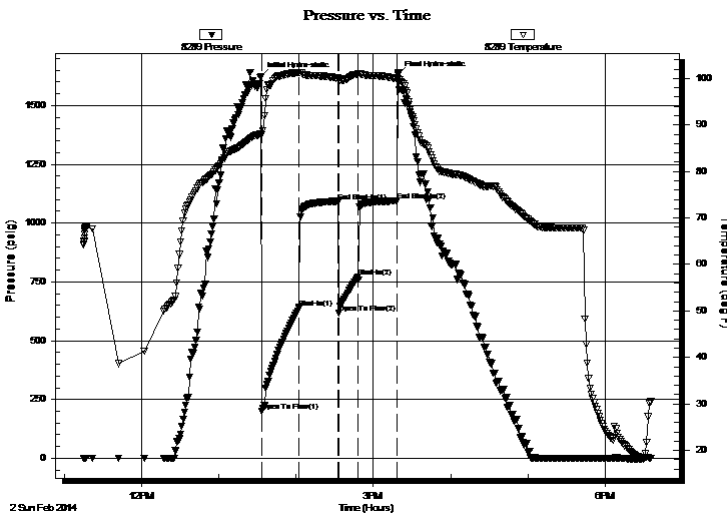
Time On Btm: 2014.02.02 @ 13:32:30

Time Off Btm: 2014.02.02 @ 15:19:00

TEST COMMENT: 30-IFP- BOB in 1 min.
30-ISIP- No Blow
15-FFP- BOB in 1 min.
30-FSIP- No Blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.72	88.03	Initial Hydro-static
1	199.41	87.89	Open To Flow (1)
30	640.95	101.23	Shut-In(1)
61	1092.44	100.05	End Shut-In(1)
61	616.76	99.87	Open To Flow (2)
76	771.27	100.93	Shut-In(2)
106	1093.91	99.94	End Shut-In(2)
107	1629.32	100.02	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW 5% m 95% w	1.75
314.00	GMOCW 20% g 5% m 25% o 50% w	4.40
1250.00	GMWCO 25% g 10% m 20% w 45% o	17.53
95.00	OSGWCM 25% g 5% w 75% m	1.33
0.00	125 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
Garden City KS 67846
ATTN: Wyatt Urban

5 16s 10w Ellsworth, KS

D&S #1-5

Job Ticket: 50422

DST#: 1

Test Start: 2014.02.02 @ 11:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 1820.00 ft (KB)

Time Tool Opened: 13:33:15

Time Test Ended: 18:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3248.00 ft (KB) To 3303.00 ft (KB) (TVD)

Total Depth: 3303.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1820.00 ft (KB)

1811.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3267.00 ft (KB)

Start Date: 2014.02.02

End Date:

2014.02.02

Start Time: 11:15:02

End Time:

18:35:45

Capacity: 8000.00 psig

Last Calib.:

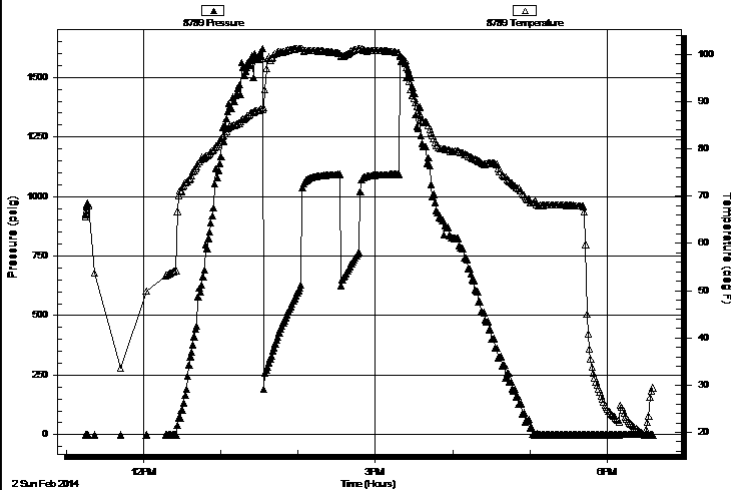
2014.02.02

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 1 min.
30-ISIP- No Blow
15-FFP- BOB in 1 min.
30-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
125.00	MCW 5% m 95% w	1.75
314.00	GMOCW 20% g 5% m 25% o 50% w	4.40
1250.00	GMWCO 25% g 10% m 20% w 45% o	17.53
95.00	OSGWCM 25% g 5% w 75% m	1.33
0.00	125 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

5 16s 10w Ellsworth,KS

PO Box 399
Garden City KS 67846

D&S #1-5

Job Ticket: 50422

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.02.02 @ 11:15:00

Tool Information

Drill Pipe:	Length:	3251.00 ft	Diameter:	3.80 inches	Volume:	45.60 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	46000.00 lb
					Total Volume:	45.60 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight: Initial	38000.00 lb
Depth to Top Packer:		3248.00 ft					Final	44000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		55.00 ft						
Tool Length:		83.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3221.00	
Shut In Tool	5.00		3226.00	
Hydraulic tool	5.00		3231.00	
Jars	5.00		3236.00	
Safety Joint	2.00		3238.00	
Packer	5.00		3243.00	28.00 Bottom Of Top Packer
Packer	5.00		3248.00	
Stubb	1.00		3249.00	
Perforations	18.00		3267.00	
Recorder	0.00	8789 Inside	3267.00	
Recorder	0.00	8289 Outside	3267.00	
Change Over Sub	1.00		3268.00	
Blank Spacing	31.00		3299.00	
Change Over Sub	1.00		3300.00	
Bullnose	3.00		3303.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

5 16s 10w Ellsworth, KS

PO Box 399
Garden City KS 67846

D&S #1-5

Job Ticket: 50422

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.02.02 @ 11:15:00

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: 26000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MCW 5%m 95%w	1.753
314.00	GMOCW 20%g 5%m 25%o 50%w	4.405
1250.00	GMWCO 25%g 10%m 20%w 45%o	17.534
95.00	OSGWCM 25%g 5%w 75%m	1.333
0.00	125 GIP	0.000

Total Length: 1784.00 ft

Total Volume: 25.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

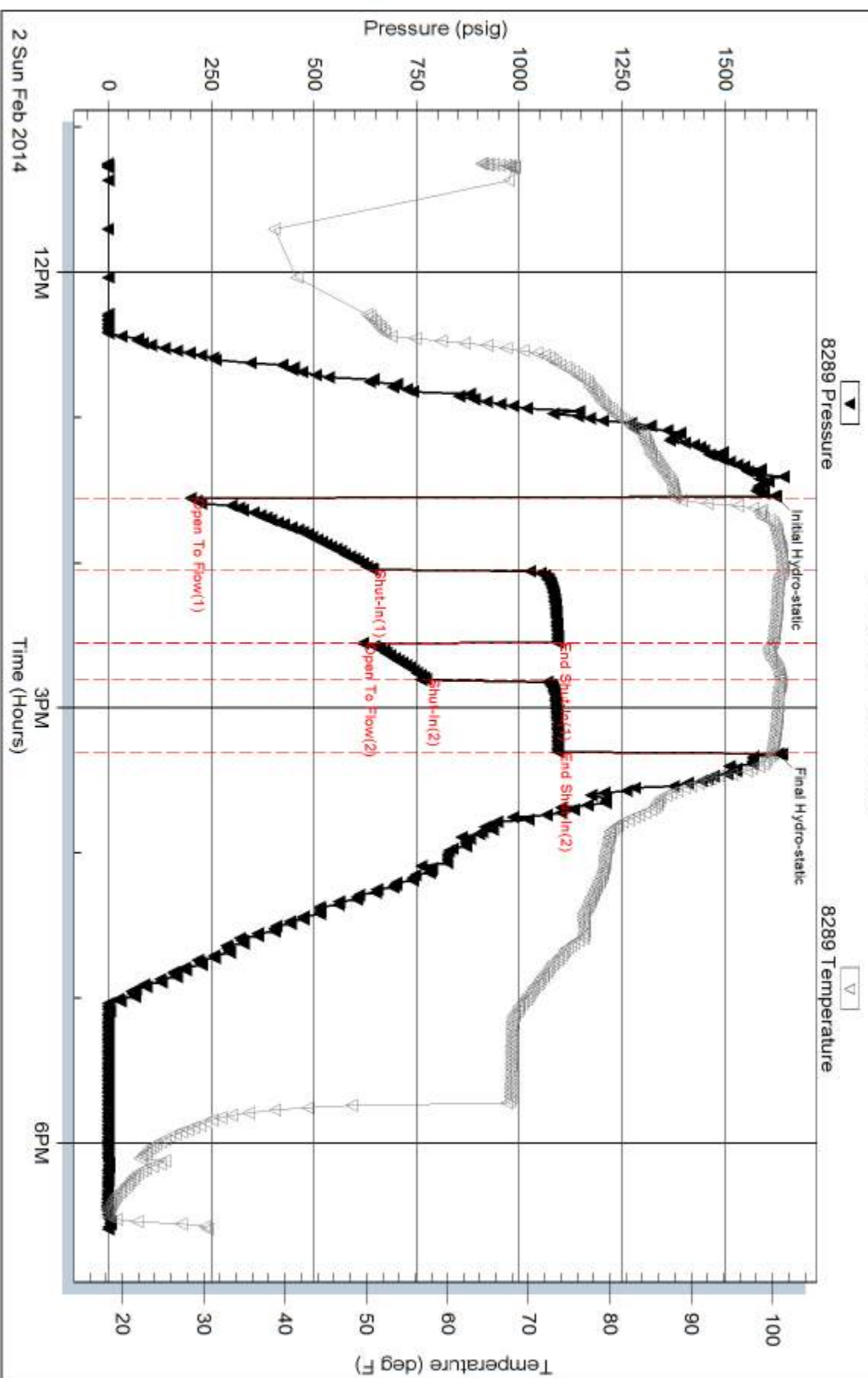
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .600 @ 30

Pressure vs. Time



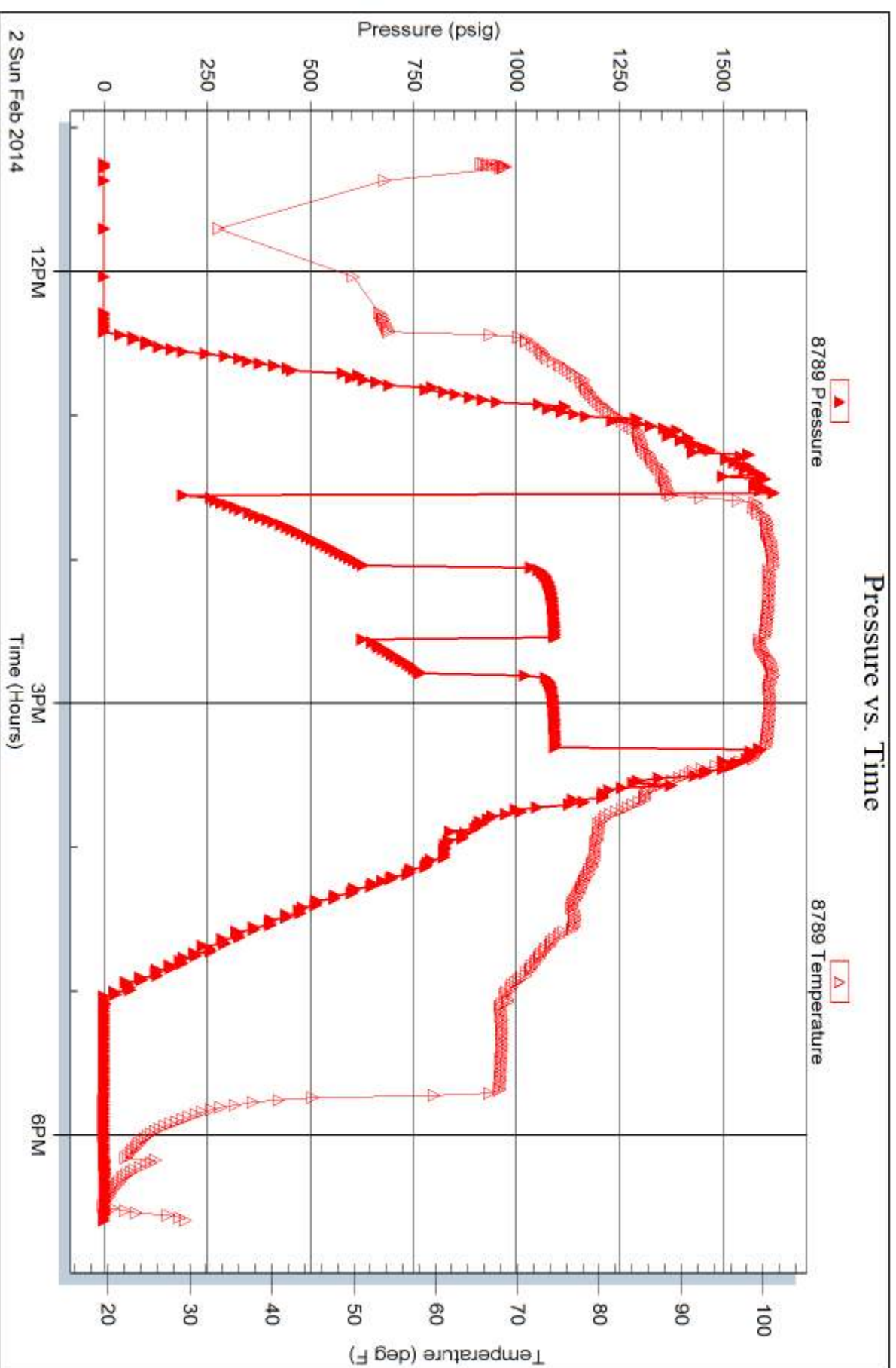
Serial #: 8789

Inside

American Warrior Inc

D&S #1-5

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50422

Well Name & No. D & S # 1-5 Test No. 1 Date 2-2-14
 Company American Warrior Inc Elevation 1820 KB 1811 GL
 Address 3118 Cummings Rd, Garden City KS 67846
 Co. Rep / Geo. Wyatt Urban Rig Duke 8
 Location: Sec. 5 Twp. 16^s Rge. 10^w Co. Ellsworth State KS

Interval Tested 3248-3303 Zone Tested Arbuckle
 Anchor Length 55 Drill Pipe Run 3251 Mud Wt. 9.4
 Top Packer Depth 3243 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3248 Wt. Pipe Run 0 WL 7.6
 Total Depth 3303 Chlorides 4800 ppm System LCM 0

Blow Description IFP - BOB in lumen.
ISIP - No Blow
FFP - BOB in lumen
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>314</u>	<u>2 MOCW</u>	<u>20</u>	<u>25</u>	<u>50</u>	<u>5</u>
<u>1250</u>	<u>2 MWC0</u>	<u>25</u>	<u>45</u>	<u>20</u>	<u>10</u>
<u>95</u>	<u>0.5 MWCm</u>	<u>25</u>	<u>5</u>	<u>70</u>	
	<u>125 SIP</u>				

Rec Total 1784 BHT 100 Gravity _____ API RW 1600 @ 30 °F Chlorides 26000 ppm

(A) Initial Hydrostatic <u>1622</u>	☒ Test <u>1150</u>	T-On Location <u>07:20</u>
(B) First Initial Flow <u>199</u>	☒ Jars <u>250</u>	T-Started <u>11:15</u>
(C) First Final Flow <u>640</u>	☒ Safety Joint <u>75</u>	T-Open <u>13:33</u>
(D) Initial Shut-In <u>1092</u>	☐ Circ Sub _____	T-Pulled <u>15:18</u>
(E) Second Initial Flow <u>616</u>	☐ Hourly Standby _____	T-Out <u>18:36</u>
(F) Second Final Flow <u>771</u>	☒ Mileage <u>RT 112</u> 173.60	Comments _____
(G) Final Shut-In <u>1093</u>	☐ Sampler _____	
(H) Final Hydrostatic <u>1629</u>	☐ Straddle _____	

Initial Open <u>30</u>	☐ Shale Packer _____	☐ Ruined Shale Packer _____
Initial Shut-In <u>30</u>	☐ Extra Packer _____	☐ Ruined Packer _____
Final Flow <u>15</u>	☐ Extra Recorder _____	☐ Extra Copies _____
Final Shut-In <u>30</u>	☐ Day Standby _____	Sub Total <u>0</u>
	☐ Accessibility _____	Total <u>1648.60</u>
	Sub Total <u>1648.60</u>	MP/DST Disc't _____

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.

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.
D&S #1-5
NE-NW-SW-SW (1100' FSL & 500' FWL)
Section 5-16s-10w
Ellsworth County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Duke Drilling Co. (Rig #8)
Commenced: January 28, 2014
Completed: February 2, 2014
Elevation: 1819' K.B; 1817' D.F; 1811' G.L.
Casing program: Surface; 8 5/8" @ 386'
Production; 5 1/2" @ 3409'
Sample: Samples saved and examined 2650' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2650 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There was one (1) Drill Stem Test ran by Trilobite Testing Co.
Electric Log: By Pioneer; Dual Induction, Dual Compensated Porosity Log and Micro.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Heebner	2853	-1034
Toronto	2874	-1053
Douglas	2886	-1065
Brown Lime	2954	-1135
Lansing	2969	-1150
Base Kansas City	3257	-1438
Arbuckle	3283	-1464
Rotary Total Depth	3410	-1591
Log Total Depth	3412	-1593

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**TOPEKA SECTION**

2797-2834' Limestone; tan, brown, few fossiliferous, poor scattered visible porosity, no shows.

TORONTO SECTION

2875-2884' Limestone; tan/brown, finely crystalline, few fossiliferous, poor visible porosity, no shows.

LANSING SECTION

2969-2980'	Limestone; tan, oolitic, poorly developed porosity, dense, no shows.
3001-3012'	Limestone; cream, tan, finely crystalline, sub oomoldic in pat, no shows.
3018-3028'	Limestone; cream/tan, oomoldic, scattered oomoldic porosity, trace stain, no free oil and faint odor in fresh samples.
3048-3060'	Limestone; tan, chalky, oomoldic in part, few with scattered oomoldic, vuggy porosity, no shows.
3068-3080'	Limestone; cream/tan, oomoldic, good oomoldic and vuggy type porosity, no shows.
3112-3122'	Limestone; cream, finely crystalline, few fossiliferous, poor visible porosity, no shows.
3142-3162'	Limestone; tan, brown, finely crystalline, oolitic, scattered porosity, no shows.
3193-3203'	Limestone; tan, finely crystalline, poorly developed porosity, light brown stain, show of free oil and faint odor in fresh samples.
3218-3234'	Limestone; tan, cream, finely crystalline, poorly developed porosity, no shows.

ARBUCKLE SECTION

3283-3298'	Dolomite; tan, sucrosic, poor visible porosity, light brown stain, show of free oil and faint odor in fresh samples.
3298-3305'	Dolomite; as above, fair pinpoint to fine vuggy type porosity, light brown stain, show of free oil and faint/fair odor in fresh samples.

Drill Stem Test #1 3248-3303'

Times: 30-30-15-30

Blow: Strong

Recovery: 125' gas in pipe
95' oil specked gassy thin watery mud
(25% gas, 5% water, 75% mud)
1250' heavy oil and gas cut muddy water
(25% gas, 10% mud, 20% water, 45% oil)
314' oil and gas cut muddy water
(20% gas, 5% mud, 25% oil, 50% water)
125' muddy water

Pressures: ISIP 1092 psi
FSIP 1094 psi
IFP 99-641 psi
FFP 617-771 psi
HSH 1622-1629 psi

3303-3320'	Dolomite; tan, finely crystalline, sucrosic, poor intercrystalline porosity, light brown stain, show of free oil and faint odor in fresh samples.
3320-3350'	Dolomite; tan, sucrosic, slightly cherty, poor to fair intercrystalline porosity, no stain, no show of free oil and questionable odor in fresh samples.
3350-3380'	Dolomite; tan, finely crystalline, dense, poorly developed porosity, no shows.
3380-3410'	Dolomite; tan/brown, finely crystalline, sucrosic, cherty in part, no shows.

Rotary Total Depth	3410
Log Total Depth	3412

Recommendations: 5 ½" production casing was set and cemented in the American Warrior D&S #1-5.

Respectfully submitted;



Wyatt Urban,
Petroleum Geologist