

## Kansas Corporation Commission Oil & Gas Conservation Division

### 1054672

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	

### **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								
Letter of Confidentiality Received								
Date:								
Confidential Release Date:								
Wireline Log Received								
Geologist Report Received								
UIC Distribution								
ALT I II III Approved by: Date:								

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [		Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc.  Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (	00115575	DECORD			
	Depth	ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	# Sacks Used	# Sacks Used			Type and Percent Additives			
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (	Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Seltman 5
Doc ID	1054672

## Tops

Name	Тор	Datum
Anhydrite	1293	806
Heebner	3522	-1421
Lansing	3566	-1465
ВКС	3877	-1776
Pawnee	3962	-1861
Ft. Scott	4022	-1921
Cherokee	4038	-1937
Mississippian	4118	-2017
TD	4151	-2054



## DRILL STEM TEST REPORT

American Warrior, Inc.

Garden City, Ks 67846

Seltman #5

P.O. Box 399

Job Ticket: 41846

24/18S/21W-Ness

DST#: 1

ATTN: Jason Alm

Test Start: 2011.03.02 @ 20:35:49

### GENERAL INFORMATION:

Formation: Cherokee 'A' Sand

Deviated: Whipstock: Test Type: Conventional Bottom Hole ft (KB)

Time Tool Opened: 22:38:49 Tester: Dustin Rash 47

Time Test Ended: 01:50:49 Unit No:

4040.00 ft (KB) To 4060.00 ft (KB) (TVD) Reference Elevations: 2101.00 ft (KB) Interval:

2093.00 ft (CF)

7.88 inches Hole Condition: Poor KB to GR/CF: Hole Diameter: 8.00 ft

Serial #: 6719 Inside

Total Depth:

Press@RunDepth: 4041.00 ft (KB) 143.42 psig @ Capacity: 8000.00 psig

Start Date: 2011.03.02 End Date: 2011.03.03 Last Calib.: 2011.03.03 Start Time: 20:35:54 End Time: 2011.03.02 @ 22:37:19 01:50:48 Time On Btm: 2011.03.02 @ 23:23:49 Time Off Btm:

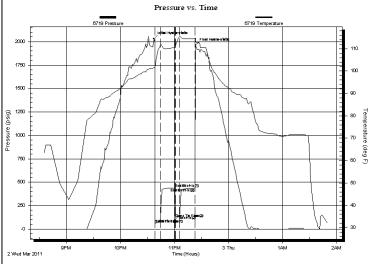
TEST COMMENT: IF-Strong building blow . BOB in 3 minutes 10 seconds.

ISI-Surging surface blow @ 1&1/2 minutes.

FF-Strong building blow . BOB in 4 minutes 10 seconds.

FSI-No Return.

4060.00 ft (KB) (TVD)



## PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2033.11	101.64	Initial Hydro-static
	2	59.73	101.18	Open To Flow (1)
	8	106.23	111.57	Shut-In(1)
Т	24	438.89	110.37	End Shut-In(1)
Temperature (deg	24	115.54	111.27	Open To Flow (2)
rature	29	143.42	115.30	Shut-In(2)
(deg l	46	435.65	114.53	End Shut-In(2)
F)	47	1962.78	113.42	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
186.00	50%Oil/25%Water/15%Gas/10%Mud	2.33
62.00	70%Oil/20%Mud/10%Gas	0.87
72.00	60%Mud/20%Oil/20%Gas	1.01

### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 41846 Printed: 2011.03.03 @ 08:23:00 Page 1



## DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior, Inc.

Seltman #5

24/18S/21W-Ness

P.O. Box 399

Garden City, Ks 67846 Job Ticket: 41846

ATTN: Jason Alm

DST#: 1

Test Start: 2011.03.02 @ 20:35:49

### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 53.00 sec/qt Cushion Volume: bbl

Water Loss: 7.97 in<sup>3</sup> 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
186.00	50%Oil/25%Water/15%Gas/10%Mud	2.327
62.00	70%Oil/20%Mud/10%Gas	0.870
72.00	60%Mud/20%Oil/20%Gas	1.010

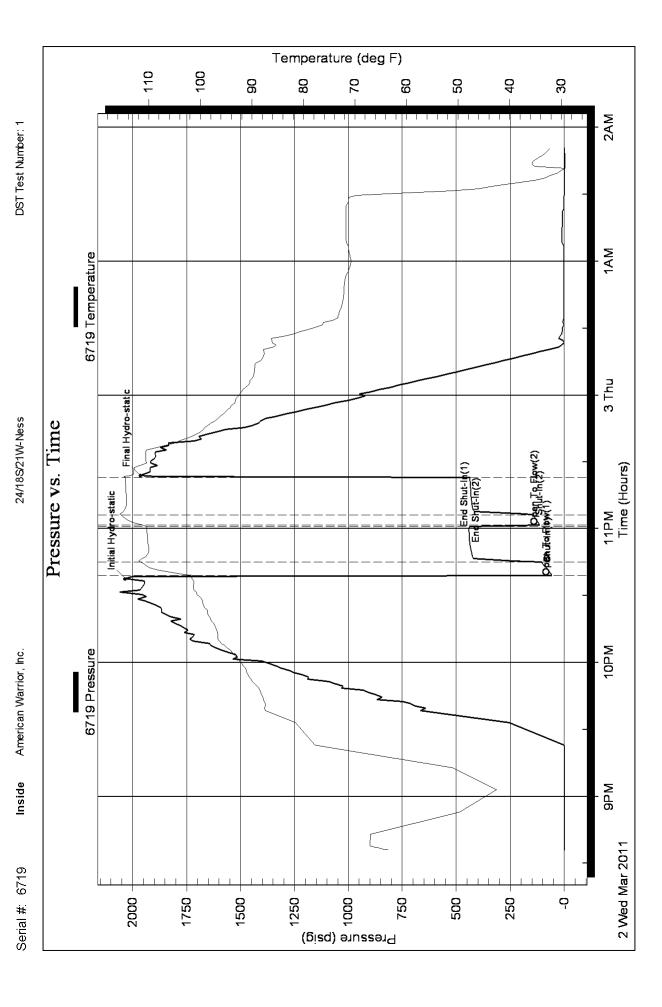
Total Length: 320.00 ft Total Volume: 4.207 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 41846 Printed: 2011.03.03 @ 08:23:01 Page 2



Page 3 Printed: 2011.03.03 @ 08:23:02 Ref. No: Trilobite Testing, Inc



CITY, STATE, ZIP CODE

CHARGE IO:	A COM	Wast Dr
ADDRESS		

TICKET 20152

Thank You!	$\tau$						VAL	APPROVAL			SWIFT OPERATOR
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SWIFT OPERATOR

Thank You!

SWIFT Services, Inc.

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TICKET 20062

Services, Inc.		CITY, STATE, ZIP CODE			PAGE 1	ر ا
SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	ISTATE ICITY	IDATE IOWNER	
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REFERRAL LOCATION	INVOICE INSTRUCTIONS					350
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SWIFT OPERATOR LAWE WITSON CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

Thank You!



# TICKET CONTINUATION

TICKET No. 20062

PO Box 466. Ness City, KS 67560 Off: 785-798-2300 ANSTRAL LAWRIDG TX SELTMAN # 5 DATE 3-3-11

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# SWIFT Services, Inc.

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CHART NO.	TIME	RATE (BPM)	(BBL) (GAL)	PUMPS T C	PRESSUR TUBING	E (PSI) Casing	DESCRIPTION OF OPERATION AND MA	TERIALS
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AUUKESS

TICKET 20536

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SERVICE LOCATIONS	WELL/PROJECT NO.	ILEASE	COUNTYMAKEL	ATE CITY	IDATE OWNER
TAILS CAINTY		SECTMAN #5	NESS /	W. HLEXAUSER, KS.	Xxxx//
2.	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED DELIVERED TO	ORDER NO.
	O SALES		W	LOCATION	
	WELL TYPE	WELL CATEGORY JOB PL	JOB PURPOSE //	WELL PERMIT NO.	WELL LOCATION
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O TO AX	DATE SIGNED A TIME SIGNED	START OF WORK OR DELIVERY OF GOODS  X  START OF WORK OR DELIVERY OF GOODS	LIMITED WARRANTY provisions.	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to		88	185	330		290	276			577	575	
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CEPTANCE OF MATERIALS AND SERVICES

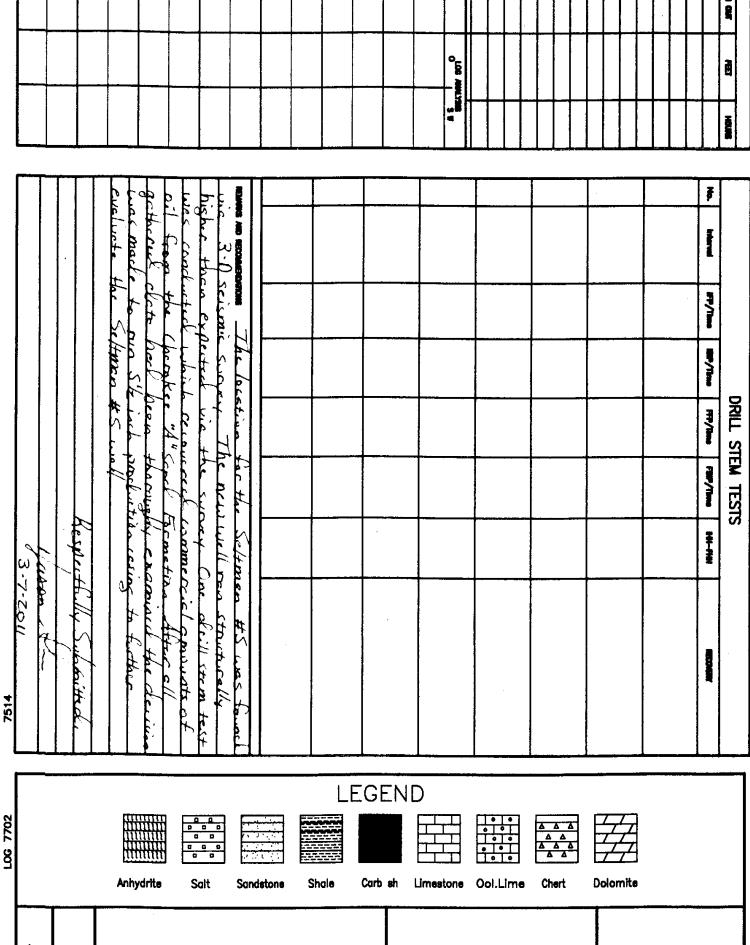
Thank You!

JOB LO	G				SWIFT Services,	Inc.	
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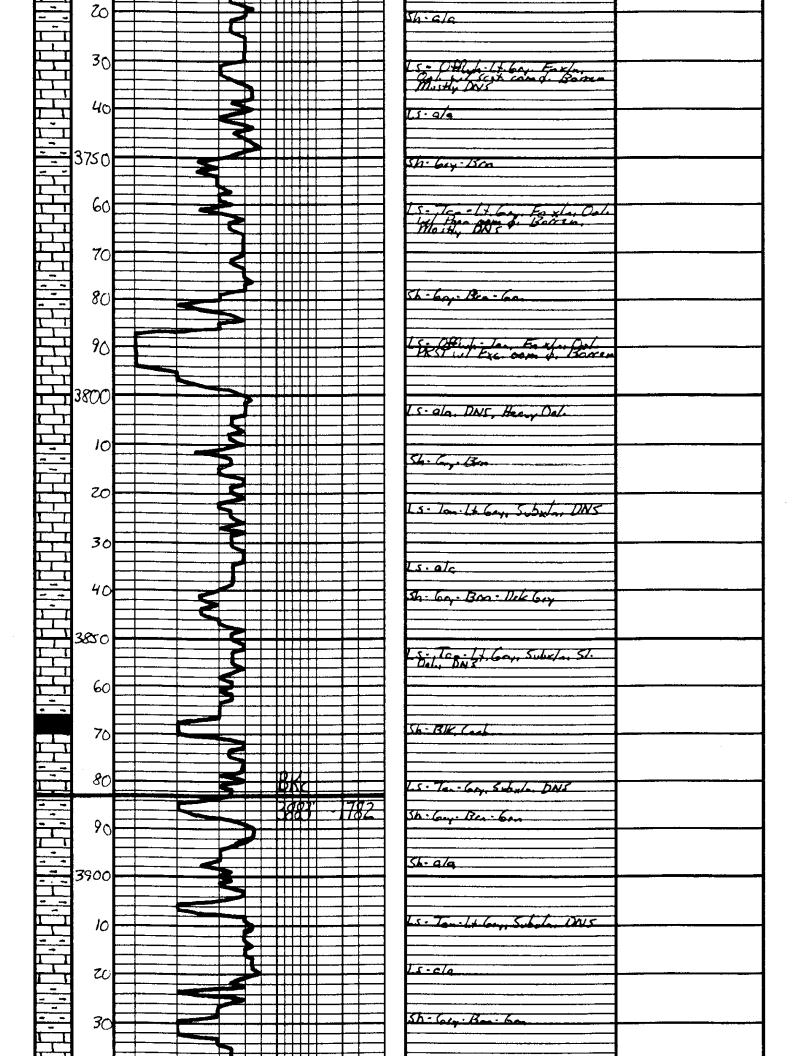
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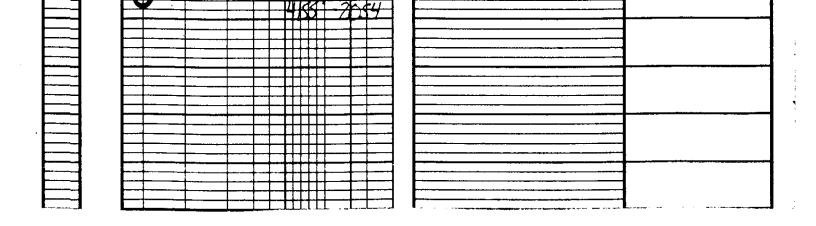


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# **Geological Report**

American Warrior, Inc.
Seltman #5
2580' FNL & 2596' FEL
Sec. 24 T18s R21w
Ness County, Kansas



American Warrior, Inc.

## **General Data**

Well Data:	American Warrior, Inc. Seltman #5 2580' FNL & 2596' FEL Sec. 24 T18s R21w Ness County, Kansas API # 15-135-25107-0000
Drilling Contractor:	Discovery Drilling Co., Inc. Rig #3
Geologist:	Jason Alm
Spud Date:	February 26, 2011
Completion Date:	March 4, 2011
Elevation:	2093' Ground Level 2101' Kelly Bushing
Directions:	Alexander KS, West ½ mi. on Hwy 96 to McCracken Rd. North 1½ mi. West via county rd 1½ mi. South into location.
Casing:	1310' 8 5/8" surface casing 4150' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "R. Barnhart" CNL/CNL, DIL, MEL
Drillstem Tests:	One, Trilobite Testing, Inc. "Dustin Rash"
Problems:	None

None

Remarks:

## **Formation Tops**

	American Warrior, Inc.
	Seltman #5
	Sec. 24 T18s R21w
Formation	2580' FNL & 2596' FEL
Anhydrite	1293', +806
Base	1327', +774
Heebner	3522', -1421
Lansing	3566', -1465
BKc	3877', -1776
Pawnee	3962', -1861
Fort Scott	4022', -1921
Cherokee	4038', -1937
Mississippian	4118', -2017
LTD	4151', -2050
RTD	4155', -2054

## **Sample Zone Descriptions**

## Cherokee A Sand (4050', -1949): Covered in DST #1

Ss – Quartz, fine grained, well sorted, sub-rounded, fairly cemented with fair inter-granular porosity, light to fair scattered oil stain and saturation in porosity, show of free oil, light odor, 85 units hotwire.

## **Drill Stem Tests**

Trilobite Testing, Inc. "Dustin Rash"

## DST #1 Cherokee A Sand

<u>Interval (4040' – 4060')</u> Anchor Length 20'

IHP - 2033 #

IFP - 5" - B.O.B. 3 min. 59-106 #
ISI - 15" - W.S.B. 439 #
FFP - 5" - B.O.B. 4 min. 115-143 #
FSI - 15" - Dead 436 #

FHP - 1963 # BHT - 115°F

Recovery: 72' GOCM 20% Oil

62' GMCO 70% Oil

186' GMCWO 50% Oil, 25% Water

## **Structural Comparison**

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	American Warrior, Inc.	Shields R W		Phillips Petroleum Co.	
	Seltman #5	Pabst #1		Pabst A #1	
	Sec. 24 T18s R21w	Sec. 24 T18s R21w		Sec. 24 T18s R21w	
Formation	2580' FNL & 2596' FEL	SE SE NW		NE NE SW	
Anhydrite	1293', +806	NA	NA	NA	NA
Base	1327', +774	NA	NA	NA	NA
Heebner	3522', -1421	3522', -1426	(+5)	NA	NA
Lansing	3566', -1465	3566', -1470	(+5)	3568', -1473	(+8)
BKc	3877', -1776	NA	NA	NA	NA
Pawnee	3962', -1861	NA	NA	NA	NA
Fort Scott	4022', -1921	NA	NA	NA	NA
Cherokee	4038', -1937	4055', -1959	(+22)	NA	NA
Mississippian	4118', -2017	4118', -2022	(+5)	4110', -2015	(-2)

## **Summary**

The location for the Seltman #5 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Cherokee A Sand Formation. After all gathered data had examined the decision was made to run 5 1/2 inch production casing to further evaluate the Seltman #5 well.

## **Recommended Perforations**

Cherokee A Sand: (4050' – 4052') DST #1

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.