

## Kansas Corporation Commission Oil & Gas Conservation Division

## 1090302

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 🔲 East 🗌 West
Address 2:	Feet from North / South Line of Section
City:	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?
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW  Plug Back: Plug Back Total Depth  Commingled Permit #:  Dual Completion Permit #:  SWD Permit #:  ENHR Permit #:	Chloride content:ppm Fluid volume:bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:  Operator Name:  Lease Name: License #:  Quarter Sec TwpS. R
GSW Permit #:	County: Permit #:
GSW Permit #:  Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	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											
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			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d		Type and F	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	Housman 3-9
Doc ID	1090302

# Tops

Name	Тор	Datum
Anhy	1342'	+892
B/Anhy	1377'	+857
Heebner	3783'	-1549
Lansing	3850'	-1616
Stark	4102'	-1868
B/KC	4204'	-1970
Marmaton	4226'	-1992
Ft.Scott	4382'	-2148
Mississippian	4462'	-2228

# **Geological Report**

American Warrior Inc.

Housman #3-9
2000' FNL & 1200' FEL
Sec. 9 T23s R22w
Hodgeman County, Kansas



American Warrior, Inc.

### General Data

Well Data:

American Warrior, Inc.

Housman #3-9

2000' FNL & 1200' FEL Sec. 9 T23s R22w

Hodgeman County, Kansas API # 15-083-21801-0000

Drilling Contractor:

Duke Drilling Co. Rig #9

Geologist:

Harley Sayles

Spud Date:

June 22, 2012

Completion Date:

June 29, 2012

Elevation:

2221' Ground Level 2234' Kelly Bushing

Directions:

Hanston KS, 3.8 mi South on Bazine Rd North to L

Rd, then 1.5 mi West on L Rd, South and Southeast

0.4 mi into location

Casing:

23# 8 5/8" surface casing @ 1045, 15.5# 5 1/2"

production casing @ 4475

Samples:

10' wet and dry, 3750' to RTD

Drilling Time:

3700' to RTD

Electric Logs:

None

Drillstem Tests:

One, "Leal Cason"

Problems:

None

Remarks:

None

# **Formation Tops**

	American Warrior, Inc.
	Housman #3-9
	Sec. 9 T23s R22w
Formation	2000' FNL & 1200' FEL
Anhydrite	1342', +892
Base	1377', +857
Heebner	3783', -1549
Lansing	3850', -1616
Stark	4102', -1868
BKc	4204', -1970
Marmaton	4226', -1992
Pawnee	4298', -2064
Fort Scott	4382', -2148
Cherokee	4407', -2173
Mississippian	4462', -2228
Osage	4475', -2241
RTD	4481', -2247

# **Sample Zone Descriptions**

Osage (4475', -2241): Covered in DST #1

 $\Delta$ -Dolo- Cream, fine crystalline, good intercrystalline porosity, mostly chert in sample, white, fresh to fairly weathered, slight show of free oil, weak odor, dull yellow florescence

# **Drill Stem Tests**

Trilobite Testing Inc. "Leal Cason"

## DST #1 Mississippian Osage

Interval (4475' – 4481') Anchor Length 6'
IHP – 2157 #
IFP – 15" – B.O.B. 2" 100-399 #
ISIP – 45" – Surface blow back 1432 #
FFP – 15" – B.O.B. 3" 396-612 #
FSIP – 45" – Surface blow back 1431 #
FHP – 2120 #
BHT – 123 °F

Recovery: 930' O Gravity: 26° API 5% Oil, 95% Water

311' W 65,000 ppm

# **Structural Comparison**

	American Warrior, Inc.	American Warrior, Inc.		Γomlinson Oil Company, Inc	2.
	Housman #3-9	Housman #2-9		Housman #3	
	Sec. 9 T23s R22w	Sec. 9 T23s R22w		Sec. 9 T23s R22w	
Formation	2000' FNL & 1200' FEL	1654' FNL & 1972' FEL		1807' FNL & 543' FEL	
Anhydrite	1342', +892	1342', +891	(+1)	1330', +891	(+1)
Base	1377', +857	1376', +857	flat	1364', +857	flat
Heebner	3783', -1549	3784', -1551	(+2)	3778', -1557	(+8)
Lansing	3850', -1616	3852', -1619	(+3)	3843', -1622	(+6)
Stark	4102', -1868	4106', -1873	(+5)	N/A	N/A
BKc	4204', -1970	4212', -1979	(+9)	N/A	N/A
Marmaton	4226', -1992	4230', -1997	(+5)	N/A	N/A
Pawnee	4298', -2064	4296', -2063	(-1)	N/A	N/A
Fort Scott	4382', -2148	4386', -2153	(+5)	4373', -2152	(+4)
Cherokee	4407', -2173	4410', -2177	(+4)	4399', -2178	(+5)
Mississippian	4462', -2228	4464', -2231	(+3)	4446', -2225	(-3)
Osage	4475', -2241	4476', -2243	(+2)	4464', -2243	(+2)
RTD	4481', -2247				

## **Summary**

The location for the Housman #3-9 well was found via 3-D seismic survey. The new well ran structurally as expected via the survey. A seismic map was not made of the Mississippian horizon. The one drill stem test was conducted, which recovered commercial amounts of oil from the Mississippian Osage Stage. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Housman #2-9 well.

## **Recommended Perforations**

**Primary:** 

Mississippian Osage Open Hole:

(4475' - 4479')

**DST #1** 

Respectfully Submitted,

Harley K. Sayles American Warrior Inc.

# ALLIED OIL & GAS SERVICES, LLC 053632

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

Gier Fadjes

							,
DATE 6-23-12	SEC.9	TWP. 235	RANGE 22m	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Flousing	WELL#	3-9	LOCATION Hand	in you 25	2 E Sin 10	COUNTY Hodgeman	STATE Fran 505
OLD OR NEW					2 ,,,,,	True Chara	1100 707
CONTRACTOR	2.40	2.11.	#6			_	
CONTRACTOR TYPE OF JOB	Sur face		Jan Py	OWNER			
	2'14	T.D		CEMENT			
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BULK TRUCK	EU/00/00/910/00					@	
# 379	DRIVER	Marl	i's	- HANDLING	581	@ 2.10	1221.80
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To: Allied Oil	& Gas Serv	vices, LLC	•				
You are hereby	requested	to rent cer	nenting equipmen	nt —	-		
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CHARGE TO:	0-252,000	WARRIOR	
ADDRESS	HMEKILLAN	WARRION	
CITY STATE	ZIP CODE		

TICKET

Nº 22745

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American Contract	1 7

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SWIFT OPERATOR	de 5	Karlel	R ACC	COMMITTEE STATE	OF M	Branch Action and Springer	RVICES Th	e customer hereby ackn	owledges receip	t of the mate	rials and	d service	es listed on	this ticket.			Thank '	You!



PO Box 466 Ness City, KS 67560

## TICKET CONTINUATION

			785-798-2300			EMERICAN WARRIOR		40U	21141	13-9	DATE 9JUN 12	2 PAGE 2 OF 2	
PRICE EFERENCE	SECONDARY REFERENCE/ PART NUMBER		ACCT	DF	TIME	DESCRIPTION	Q1	rv.	U/M	QTY.   Un	UNIT PRICE		AMOUNT
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JOB	LUG

SWIFT Services, Inc.

DATE 9 TUN /2 PAGE NO

AMERICAN WARRIDR WELL NO.			HOUSMAN	3-9 JOB TYPE SELDNESTRING TICKET NO. 22745		
NO.	TIME RATE (BPM)		VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0600					ON LOCATION
	0730					START PIPE 53-15.5
						RTDP 4481 SETP 4475
						SADEJT. 21.05'
						CENTRALICERS 1,3,5,7,9,11,13,15,17
						BASKET 4
			-			
						PACKER SHOE DID NOT SET
	1015		-			CIRCULATE
	11.				1.1	
	1050	Le	12	7	400	Pump500 gar MUD FrusH
	-	Lo	20		400	Pump 20 BbR KCL FLUSH
	107-11		+10			PLUG RH-MH (305x-205x)
	1057		7,5			FLUG KH-INH (3USX 3USX)
	1059	Н	30			MIX 125 SX EAZ
	103 /		100	- 1		MIX Ids SX PS12
	2114		1			WASH OUT Pump & LINES
			1			Colon Carl Varia France
	1116	7		\ \ \		START DISPLACING PLUG
	11.31	Ø	106	7	1500	PLUG DOWN PSIUP LATCH PLUG IN
	1133					RELEASE PSI-DRY
	Set 1	HE-re-		- December 1		
	1/35					WASH TRUCK
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## DRILL STEM TEST REPORT

American Warrior Inc

9-23S-22W Hodgeman

PO Box 399

Garden City, KS 67846

Housman 3-9
Job Ticket: 47609

DST#:1

ATTN: Harley Sayles

Test Start: 2012.06.28 @ 13:49:09

Leal Cason

### **GENERAL INFORMATION:**

Formation: Osage

Interval:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:19:09 Time Test Ended: 21:23:39

4475.00 ft (KB) To 4481.00 ft (KB) (TVD)

Total Depth: 4481.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Unit No: 45

Reference Elevations:

Tester:

2234.00 ft (KB)

2221.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6798 Inside

Press@RunDepth: 611.76 psig @ 4476.00 ft (KB) Capacity: 8000.00 psig

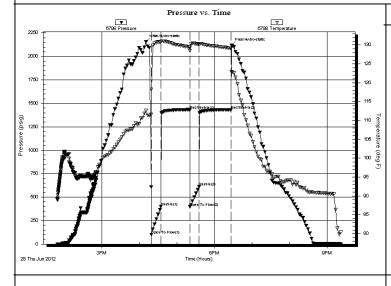
 Start Date:
 2012.06.28
 End Date:
 2012.06.28
 Last Calib.:
 2012.06.28

 Start Time:
 13:49:10
 End Time:
 21:23:39
 Time On Btm:
 2012.06.28 @ 16:10:39

 Time Off Btm:
 2012.06.28 @ 18:27:09

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes

ISI: Weak Surface Blow Back FF: Strong Blow , BOB in 3 minutes FSI: Weak Surface Blow Back



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2157.48	112.63	Initial Hydro-static
9	100.35	118.22	Open To Flow (1)
24	399.25	130.67	Shut-In(1)
70	1431.92	129.32	End Shut-In(1)
70	396.30	128.48	Open To Flow (2)
85	611.76	130.07	Shut-In(2)
136	1431.46	129.12	End Shut-In(2)
137	2120.11	122.86	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
311.00	Water	2.66
186.00	OCW 5%O 95%W	2.61
930.00	Oil	13.05
-		

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 47609 Printed: 2012.06.29 @ 04:56:26



## DRILL STEM TEST REPORT

American Warrior Inc

9-23S-22W Hodgeman

PO Box 399

Garden City, KS 67846

Housman 3-9 Job Ticket: 47609

DST#: 1

Test Start: 2012.06.28 @ 13:49:09 ATTN: Harley Sayles

### GENERAL INFORMATION:

Formation: Osage

Total Depth:

Deviated: No Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 16:19:09 Tester: Leal Cason Time Test Ended: 21:23:39 Unit No: 45

Interval: 4475.00 ft (KB) To 4481.00 ft (KB) (TVD) Reference Elevations: 2234.00 ft (KB)

2221.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8367 Outside

Press@RunDepth: 4476.00 ft (KB) 8000.00 psig psig @ Capacity:

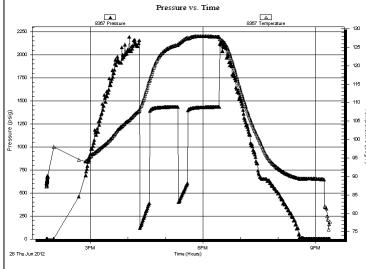
Start Date: 2012.06.28 End Date: 2012.06.28 Last Calib.: 2012.06.28

Start Time: 13:49:10 End Time: Time On Btm: 21:23:39 Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 2 minutes

4481.00 ft (KB) (TVD)

ISI: Weak Surface Blow Back FF: Strong Blow, BOB in 3 minutes FSI: Weak Surface Blow Back



## PRESSURE SUMMARY

	T RESSURE SUMMARY						
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation			
	, ,	(1 · 3)	. 3 /				
Temp							
Temperature (deg F)							
leg F)							

#### Recovery

Length (ft)	Description	Volume (bbl)
311.00	Water	2.66
186.00	OCW 5%O 95%W	2.61
930.00	Oil	13.05
-		

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 47609 Printed: 2012.06.29 @ 04:56:26



## DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior Inc

9-23S-22W Hodgeman

Housman 3-9

PO Box 399

Garden City, KS 67846 Job Ticket: 47609

ATTN: Harley Sayles

09 **DST#:1** 

Test Start: 2012.06.28 @ 13:49:09

#### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:25.8 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:65000 ppm

Viscosity: 44.00 sec/qt Cushion Volume: bbl

9.19 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 3600.00 ppm Filter Cake: 0.02 inches

### **Recovery Information**

Water Loss:

#### Recovery Table

Length ft	Description	Volume bbl
311.00	Water	2.659
186.00	OCW 5%O 95%W	2.609
930.00	Oil	13.045

Total Length: 1427.00 ft Total Volume: 18.313 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity w as 29 @ 92 degrees

RW w as .09 @ 90 degrees

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