

Kansas Corporation Commission Oil & Gas Conservation Division

1070320

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
If Workover/Re-entry: Old Well Info as follows:	
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	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 #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or 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 Approved by: Date:

Side Two



Operator Name:				_ Lease N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Co	ement	# Sacks	Used		Type and	Percent Additives		
Shots Per Foot	PERFORATI Specify I	ON RECORD - Footage of Each	Bridge Plugs Interval Perfo	s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open	Hole (Specify)	Perf.	Dually ((Submit AC		nmingled mit ACO-4)			

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Marshall 1-27
Doc ID	1070320

Tops

Name	Тор	Datum
Anhydrite	1328	784
Chase	2192	-80
Heebner	3562	-1450
Lansing	3606	-1494
ВКС	3924	-1812
Pawnee	4006	-1894
Ft. Scott	4076	-1964
Cherokee	4164	-2052
Mississippian	4164	-2052
LTD	4193	-2081



CINKOE IO	HMILCOM	U)e	7007	
ADDRESS				
CITY 0714 115 0000				

TICKET 20983

SERVICE LOCATIONS / WE	LL/PROJECT NO.	COUNTYPARISH	ISTATE CITY	DATE OWNER
1 1000 - 15	"I-J] MARSHALL	Ness	KS Bazine	3 AUG- 11
2.	TICKET TYPE CONTRACTOR	RIG NAME/NO.	SHIPPED DELIVERED TO	ORDER NO.
	- Cr	*	MET logition	
9		JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION
<u> </u>	Oil Lerchoment	berelooment Committee or	D'DE	ー ダー RN - 43
REFERRAL LOCATION	INVOICE INSTRUCTIONS			

	DATE SIGNED	MUST BE SIGNED BY CL START OF WORK OR DE	but are not limited to, PAYMENT, LIMITED WARRANTY provisions	the terms and con-	LEGAL TERMS:		583	58)	412	d1b	290	POH	276	330	5%D	575	PRICE
	TIME SIGNED	MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to												SECONDARY REFERENCE/ PART NUMBER
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CUSTON	RE YOU SATISFIED WITH OUR SERVICE?	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	E UNDERSTOOD AND ET YOUR NEEDS? UR SERVICE WAS ERFORMED WITHOUT	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SURVEY		•										1
CUSTOMER DID NOT WISH TO RESPOND	WITH OUR S	EQUIPMENT	ND AY?	RFORMED NN?	~		42291. X	425	828	138	4	38	100 15	425	/	B	QTY.
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SWIFT OPERATOR

SWIFT Services, Inc.

	<u></u>
DATE 3 AUG 1	PAGE NO

USTOMER		Varior	WELL NO.	# 1	LEASE A		L JOB TYPE COMENT COMPSUTORP SO TICKET NO.
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUR TUBING		DESCRIPTION OF OPERATION AND MATERIALS
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,							32 jours 88" 23" casing
							Cartillizer 1, 4, 12, 27
							Shoe it. 14:48' Pipe set @ 1344
	0430						on le TRX 114
				·			
	0625						stort 88" 23" casing in well.
							<u> </u>
	0835						circulate well
	,	<u>;</u>					
	0905	42	12		<u> </u>	200	Pump 500 gal mudflosh
		43	20			700	Puno 20 bbl KCL blook
	0912	62	47			200	mx losses sno @ 11.8 pg
	•	62	53			200	mix 150515 SMD@ 129 PS
		62	31		·	200	I MAX 100 SKS DAND & 13.5 OF
		5	22			250	mir 75 sks SMD@ 145 ppg
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TICKET **22183**

Services, Inc.	Inc.		PAGE OF &
SERVICE LOCATIONS 1. VIESS CLTU, KS.	WELL/PROJECT NO. LEASE COUNTY/PAGE: STATE	SALE OF SALE	OWNER
2.	TICKET TYPE CONTRACTOR SHIPPED RIG NAMENO SHIPPED	DELVERED TO CENTER TO	161/
	DISMES TOTROBARY ORILLIZO	TION	
	WELL TYPE WELL CATEGORY JOB PURPOSE	WELL PERMIT NO. WELLLOCA	N N N N N N N N N N N N N N N N N N N
REFERRAL LOCATION			1000

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	TIME SIGNED	START OF WORK OR DELIVERY OF GOODS	NTY provisions. TOMER OR CUSTOMER'S AGENT PRI	the terms and conditions on the reverse side hereof which include,	LEGAL TERMS: Customer hereby acknowledges and agrees to													SECONDARY REFERENCE/ PART NUMBER
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	DO DO DAM		, all	ch include,	agrees to													ACCOUNTING ACCT
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700-730-2300		P.O. BOX 466	SWIFT SERVICES, INC.	ZEMII TAYMENI IC:		to a		4		LIQUID KCC	MUD FLUSH	LATCH DOWN PLUG + BAFFLI	FORMATION PACKER SHOE	CEMENT BASKETS	(EUTRALIZERS	PUMP CHARGE	MILEAGE # //O	DESCRIPTION
	KE YOU SALISH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	SUF							,					i ja	
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TOMER ACCEPTANCE OF MATERIALS AND SERVICES

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

APPROVAL

								<u></u>
OB LC	G				SWIFT	Servi	ices, Inc. Pareg Aug 11	PAGEN
STOMER	ICAN WAS	RIDR	WELL NO.		MARSI	HALL 1	-27 JOB TYPE 1 LONGSTRING TICKET NO. 201	183
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSUI TUBING	RE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS	
<u></u>	2030	(0, 41	(OOL) (ONL)		TOURG	T GAGING	ON LOCATION	* * * * * * * * * * * * * * * * * * * *
,	2300		,			1	START PIPE 5'4-14"	,
	1000						LTDE 4/93 SETE 2470	, ,
							SHOE JOINT 42.40'	
							CENTRALIZERS 1, 23 4,5,6,7	
						1	CEMENT BASKETS 18	· · · · · · · · · · · · · · · · · · ·
					·····	<u> </u>	GENERAL BISHELD 1, 8	:
	2100			\ \		1100	SET PACKERSHOE - CIRCULATE	
		- 1		T V		1,,,,,,	- CINCHOLL	-
	ळ्या	l,	12	7	<u> </u>	200	Pump 500gac MUD FLUSH	
<u>:</u>	6043	(o	20	7		200		
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	0050		7		 		PLUG RH (305x)	
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	0053	4	39	7		100	MIX 703x SMO @ 11.2086.	
		4	20	7		1	MIX 755× SMD @ 14,5 PRG.	
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	0111						WASH DUT PUMPING LINES.	e de la cel
	G-17-7							
	0114	6		V			RELEASE PLUG START DISPLACEN	1ENI
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	0124	Ø	59			1100	PLUG DOWN PRESSURE UP LATE	H PA
	0/26	1.		7			RELEASE PRESSURE-DRY	
	0130	· .					WASHTRUCK	
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JASON JEFF JOE.



No. 22/83

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کڑ	NO.	DATE 9 AUG 11		TE-1 MAKSHALL 1-27		CUSTOMERICAN ALARRIUR	Off: 785-798-2300	Ness C Off: 7		8
	ũ	No. XXIX S) Box 466.	N R		



American Warrior Inc

Marshall 1-27

P.O. Box 399

27-18s-21w Ness KS

Garden City, KS 67846

Job Ticket: 042725 **DST#:1**

ATTN: Jason Alm

Test Start: 2011.08.08 @ 13:27:59

GENERAL INFORMATION:

Formation: Cher A Sand

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

Time Tool Opened: 15:44:54 Time Test Ended: 18:54:23

Unit No: 35

Tester:

Reference Elevations: 2112.00 ft (KB)

Brandon Turley

2110.00 ft (CF)

Total Depth: 4122.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 2.00 ft

Serial #: 8373
Press@RunDepth:

Interval:

Inside

223.67 psig @ 4093.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

Start Date: 2011.08.08

End Date: 2011.08.08

Time On Btm:

2011.08.08 @ 15:43:39

2011.08.08

Start Time:

13:27:59

4092.00 ft (KB) To 4122.00 ft (KB) (TVD)

End Time: 18:54:23

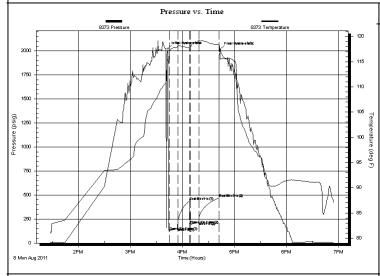
Time Off Btm: 2011

2011.08.08 @ 16:43:39

TEST COMMENT: IF: 1 blow BOB in 3 min.

IS: Surface blow died in 8 min. FF: 1/4 blow BOB in 7 min.

FS: No return.



PRESSURE SUMMARY

-	_	_	A
Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2023.50	115.52	Initial Hydro-static
2	123.93	116.35	Open To Flow (1)
11	162.04	118.02	Shut-In(1)
25	439.22	117.64	End Shut-In(1)
26	192.10	117.71	Open To Flow (2)
36	223.67	119.21	Shut-In(2)
59	468.67	118.41	End Shut-In(2)
60	2015.42	115.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	mcw 90%w 10%m	1.08
185.00	mcw 85%w 15%m	2.60
102.00	w cm 20%w 80%m	1.43
1		

Gas Rates

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

Trilobite Testing, Inc Ref. No: 042725 Printed: 2011.08.09 @ 08:17:31 Page 1



FLUID SUMMARY

American Warrior Inc

Marshall 1-27

P.O. Box 399

27-18s-21w Ness KS

Garden City, KS 67846

Job Ticket: 042725

DST#: 1

ATTN: Jason Alm

Test Start: 2011.08.08 @ 13:27:59

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:0 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:27000 ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:41.00 sec/qtCushion Volume:bbl

Water Loss: 9.98 in³ Gas Cushion Type:

Resistivity: 6200.00 ohm.m Gas Cushion Pressure: psig

Salinity: 0.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	mcw 90%w 10%m	1.081
185.00	mcw 85%w 15%m	2.595
102.00	w cm 20%w 80%m	1.431

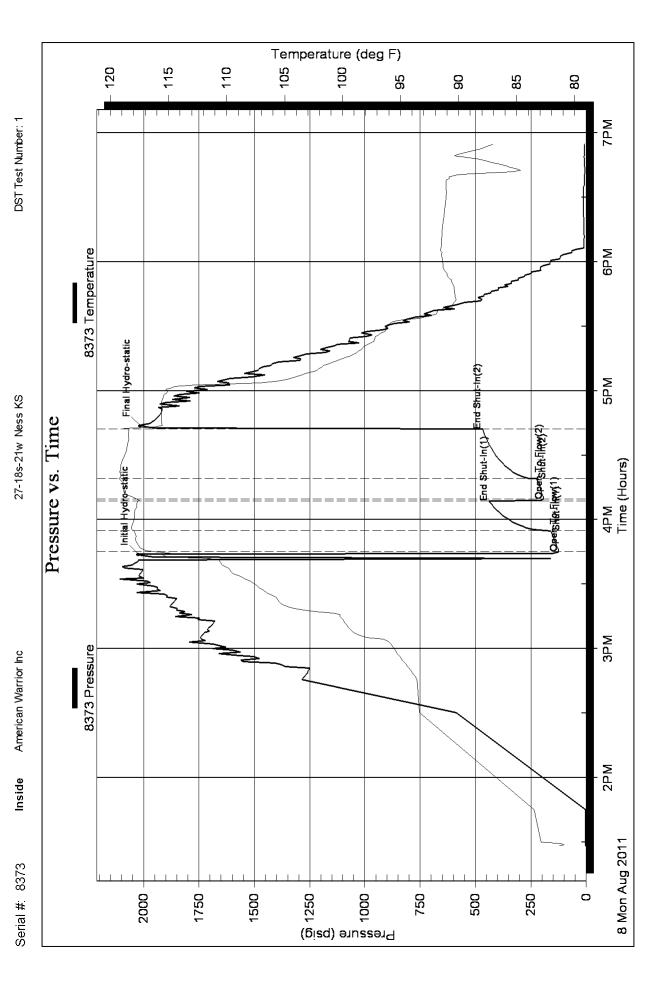
Total Length: 442.00 ft Total Volume: 5.107 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .17@105=27000

Trilobite Testing, Inc Ref. No: 042725 Printed: 2011.08.09 @ 08:17:32 Page 2



Page 3 Printed: 2011.08.09 @ 08:17:32 042725 Ref. No: Trilobite Testing, Inc



American Warrior Inc

Marshall 1-27

P.O. Box 399

Tester:

Unit No:

27-18s-21w Ness KS Job Ticket: 43676

Garden City, KS 67846

DST#: 2

ATTN: Jason Alm Test Start: 2011.08.09 @ 05:50:38

GENERAL INFORMATION:

Formation: Miss

Interval:

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

Time Tool Opened: 07:57:18 Time Test Ended: 11:27:32

> 4187.00 ft (KB) To 4194.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4194.00 ft (KB) (TVD)

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

2.00 ft

2112.00 ft (KB)

2110.00 ft (CF)

Brandon Turley

35

Serial #: 8373 Inside

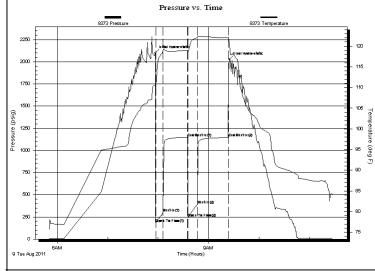
Press@RunDepth: 4188.00 ft (KB) 391.35 psig @ Capacity: 8000.00 psig

Start Date: 2011.08.09 End Date: 2011.08.09 Last Calib.: 2011.08.09 Start Time: 05:50:38 End Time: 2011.08.09 @ 07:56:33 11:27:32 Time On Btm: Time Off Btm: 2011.08.09 @ 09:24:33

TEST COMMENT: IF: BOB in 3 min.

IS: Surface blow died in 15 min.

FF: BOB in 3 min. FS: No return.



PRESSURE SUMMARY

Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2098.09	110.60	Initial Hydro-static
	1	181.86	110.38	Open To Flow (1)
	10	296.22	118.92	Shut-In(1)
	39	1148.56	119.04	End Shut-In(1)
	39	244.34	118.71	Open To Flow (2)
٠	50	391.35	122.03	Shut-In(2)
:	87	1145.30	121.95	End Shut-In(2)
,	88	2028.14	120.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	mcw 95%w 5%m	5.86
186.00	mcw 70%w 30%m	2.61

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc. Ref. No: 43676 Printed: 2011.08.09 @ 12:10:46 Page 1



FLUID SUMMARY

American Warrior Inc

Marshall 1-27

P.O. Box 399

27-18s-21w Ness KS

Garden City, KS 67846

Job Ticket: 43676

DST#: 2

ATTN: Jason Alm

Test Start: 2011.08.09 @ 05:50:38

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 0 deg API

Viscosity: 61.00 sec/qt Cushion Volume: bbl

Water Loss: 7.80 in³ Gas Cushion Type:

Resistivity: 5800.00 ohm.m Gas Cushion Pressure: psig

Salinity: 0.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	mcw 95%w 5%m	5.864
186.00	mcw 70%w 30%m	2.609

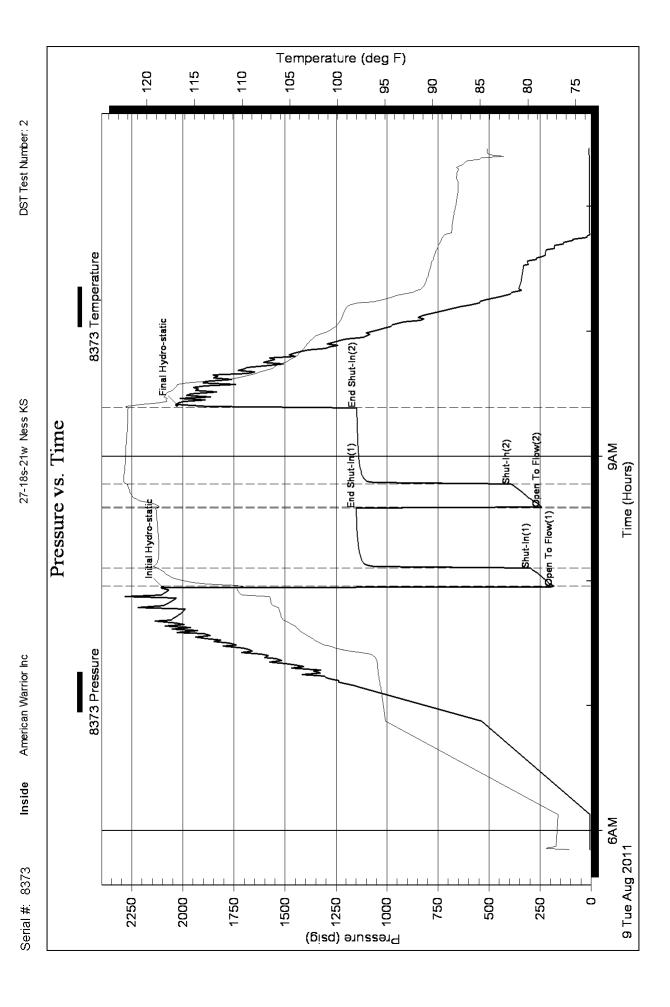
Total Length: 682.00 ft Total Volume: 8.473 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .20@88=27000

Trilobite Testing, Inc Ref. No: 43676 Printed: 2011.08.09 @ 12:10:47 Page 2



Page 3 Printed: 2011.08.09 @ 12:10:47 43676 Ref. No: Trilobite Testing, Inc

Geological Report

American Warrior, Inc.

Marshall #1-27

1300' FSL & 2070' FWL

Sec. 27 T18s R21w

Ness County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Marshall #1-27 1300' FSL & 2070' FWL Sec. 27 T18s R21w Ness County, Kansas API # 15-135-25137-0000
Drilling Contractor:	Petromark Drilling, LLc. Rig #1
Geologist:	Jason Alm
Spud Date:	August 1, 2011
Completion Date:	August 9, 2011
Elevation:	2106' Ground Level 2112' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 3 $\frac{1}{2}$ mi. South into location off highway.
Casing:	1342' 8 5/8" surface casing 2470' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD
Electric Logs:	Log-Tech, Inc. "Robert Barnhart" CNL/CDL, DIL
Drillstem Tests:	Two, Trilobite Testing, Inc. "Brandon Turley"
Problems:	None

None

Remarks:

Formation Tops

	American Warrior, Inc.
	Marshall #1-27
	Sec. 27 T18s R21w
Formation	1300' FSL & 2070' FWL
Anhydrite	1328', +784
Base	1360', +752
Chase	2192', -80
Heebner	3562', -1450
Lansing	3606', -1494
BKc	3924', -1812
Pawnee	4006', -1894
Fort Scott	4076', -1964
Cherokee	4091', -1979
Cher. Sand	4164', -2052
Mississippian	4183', -2071
RTD	4194', -2082
LTD	4193', -2081

Sample Zone Descriptions

Cherokee Sand (4103', -1991): Covered in DST #1

Ss – Quartz, Clear to slightly frosted, fine to medium grained, sub-angular, fair cementation, fairly sorted, with poor to fair intergranular porosity, light to fair oil stain in cluster, slight show of free oil when broken, very light odor, dull yellow fluorescents, 16 units hotwire.

Mississippian Osage (4183', -2071): Covered in DST #2

Dolo $-\Delta$ – Fine sucrosic crystalline with poor vuggy porosity, very heavy triptolitic chert, fairly weathered with fair vuggy porosity, light scattered oil stain in porosity, no show of free oil, light odor, very dull yellow fluorescents, 12 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc. "Brandon Turley"

DST #1 Cherokee "A" Sand

Interval (4092' – 4122') Anchor Length 30'

IHP − 2023 #

IFP - 10" - B.O.B. 3 min. 123-162 # ISI - 15" - W.S.B. 439 # FFP - 10" - B.O.B. 7 min. 192-224 # FSI - 15" - Dead 468 #

FHP - 2015 # BHT - 118°F

Recovery: 442' Gassy Muddy Water

DST #2 Mississippian Osage

Interval (4187' – 4194') Anchor Length 7'

IHP − 2098 #

IFP - 10" - B.O.B. 3 min. 181-296 # ISI - 30" - W.S.B. 1148 # FFP - 10" - B.O.B. 3 min. 244-391 # FSI - 30" - Dead 1145 #

FHP - 2028 # BHT - 122°F

Recovery: 682' Gassy Muddy Water

Structural Comparison

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.						
	Marshall #1-27	Jensen #2		Jensen #3						
	Sec. 27 T18s R21w	Sec. 27 T18s R21w		Sec. 27 T18s R21w						
Formation	1300' FSL & 2070' FWL	1350' FSL & 1530' FEL		1250' FSL & 680' FEL						
Anhydrite	1328', +784	1322', +789	(-5)	1314', +798	(-14)					
Base	1360', +752	NA	NA	1349', +763	(-11)					
Chase	2192', -80	NA	NA	NA	NA					
Heebner	3562', -1450	3560', -1449	(-1)	3564', -1452	(+2)					
Lansing	3606', -1494	3606', -1495	(+1)	3608', -1496	(+2)					
BKc	3924', -1812	3918', -1807	(-5)	3926', -1812	FL					
Pawnee	4006', -1894	3998', -1887	(-7)	4008', -1894	FL					
Fort Scott	4076', -1964	4068', -1957	(-7)	4079', -1965	(+1)					
Cherokee	4091', -1979	4085', -1974	(-5)	4094', -1982	(+3)					
Mississippian	4164', -2052	NA	NA	NA	NA					
Osage	4183', -2071	4164', -2053	(-18)	4194', -2080	(+9)					

Summary

The location for the Marshall #1-27 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted both of which were negative. After all gathered data had been examined the decision was made to run $5\frac{1}{2}$ inch production casing to further evaluate the shallow gas zones in the Marshall #1-27 well.

Recommended Perforations

Primary:

Krider Upper	(2202' - 2208')	Not Tested
Krider Lower	(2218' - 2228')	Not Tested

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

Hard Rock Consulting, Inc.	DATE GEPTN	NO SIEE MARE THPE	DEPTH OUT PEET HOUSES	DRILL STEM TESTS		2																								7 0				13.
Jason Alm Petroleum Geologist P.O. Box 1260 Hays, KS 67601 APT# 15-135-ZS137-0000 CEOLOGIST'S DEPORT				No. Interval 1679/Time ISSP/Time FSSP/Time FSSP/Time BHI-FIM ISSSMENT		REMARKS ON JOCKHO.																				DST#1	E1:500 #291-821 #291-821 # 8202 \$1:01-,51:01	1925.224# 1926.324# 1988# 2015#	M9.2kh	DST #2 Mississippis 4/87:4/84 10:30:10:3	18.5.74 #8.	2020# 2020 F 2020 F 2020 F		Spect H.112, Jason 7 -
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GEOLOGICAL SUPERVISION FROM 3600' TO RTD ELECTRICAL SURVEYS MUD UP 3400' TYPE MUD Chemical LOG Tech FORMATION TOP DATUM COMP. CNL/CDL, DIL					Shole Shole	10 15 20		eebner 563°-145	ansing	6hl80s												Kc 729'-181			awnee	81-800		ort Scott	076'-196 herokee 094'-198	0		Mississip 1164'-20	Osage 186-207	02- ,461
Anhydrite 1328, +784 1328 +784 Base 1360' +752 1360' +752 Chase 2192' -80 Hechner 3562' -1450 3563' -1451				Was found via 3-D seismic survey. Two clr. Il stem	It Sandsto	10	\/\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1 / 1	I WWW	\	MMM	M	/\\\\	WW\	WWW	~/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	M/W/M/	^-w-{\}\	~ ^~₩	LWWA		TUMN	-	w.vw.	W-W			M Lum	MAM	J/\\\	MW		
Heebacr 3562: -1450 3563: -1451 Lansing 3606: -1494 3608: -1496 BKL 3924: -1812 3929: -1817 Pawner 4006: -1894 4008: -1896 Fort Scott 4076: -1964 4076: -1964 Cherokee 4091: -1979 4094: -1982				well ren structurally as expected via the survey. After all gathered clate had been examined the devision was made to run strain production to further evaluate	Adrie S S G 3									W										\\				V		V	# 7% #		W	
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REFERENCE WELL FOR STRUCTURAL COMPARISON American Warrior, Inc. Jensen #Z 1350'FSL: 1530'FEL Sec. Z7 T185 RZIW				Jason T fl. 8-10-2011	HOFOCA FOR ALOS								17774															1-1-1-1-1						