

### Kansas Corporation Commission Oil & Gas Conservation Division

1054560

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 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	Witthuhn Unit 2-26
Doc ID	1054560

# Tops

Name	Тор	Datum
Anhydrite	1404	744
Heebner	3607	-1459
Lansing	3653	-1505
ВКС	3969	-1821
Pawnee	4062	-1914
Ft. Scott	4133	-1985
Cherokee	4151	-2003
Mississippian	4213	-2065
TD	4223	-2075

# **Geological Report**

American Warrior, Inc. Witthuhn Unit #2-26
140' FSL & 335' FEL
Sec. 26 T18s R22w
Ness County, Kansas



American Warrior, Inc.

### **General Data**

Well Data: American Warrior, Inc.

Witthuhn Unit #2-26 140' FSL & 335' FEL Sec. 26 T18s R22w Ness County, Kansas API # 15-135-25086-0000

Drilling Contractor: Petromark Drilling, LLc. Rig #1

Geologist: Jason Alm

Spud Date: February 7, 2010

Completion Date: Fedruary 13, 2010

Elevation: 2142' Ground Level

2148' Kelly Bushing

Directions: Bazine KS, 1 mi. West on Hwy 96, North and West

into location.

Casing: 1421' 8 5/8" surface casing

4222' 5 1/2" production casing

Samples: 10' wet and dry, 3500' to RTD

Drilling Time: 3500' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Andy Carreira"

Problems: Rig was 31 ft long at TD

Remarks: Mistake to board was made while drilling out from

under surface. All formation tops and tests are

depth corrected.

# **Formation Tops**

	American Warrior, Inc. Witthuhn Unit #2-26
	Sec. 26 T18s R22w
Formation	140' FSL & 335' FEL
Anhydrite	1404', +744
Base	1447', +701
Heebner	3607', -1459
Lansing	3653', -1505
BKc	3969', -1821
Pawnee	4062', -1914
Fort Scott	4133', -1985
Cherokee	4151', -2003
Mississippian	4213', -2065
RTD	4223', -2075

# **Sample Zone Descriptions**

# Mississippian Osage (4220', -2068): Covered in DST #1

Dolo –  $\Delta$  – Fine to medium sucrosic crystalline with poor to fair inter-crystalline and vuggy porosity, very heavy chert, triptolitic, weathered with good vuggy porosity, light to fair oil stain and saturation, show of free oil, fair odor, good yellow cut fluorescents, 45 units hotwire.

### **Drill Stem Tests**

Trilobite Testing, Inc. "Andy Carreira"

### DST #1 <u>Mississippian Osage</u>

Interval (4178' – 4223') Anchor Length 45'

IHP - 2156 #

IFP - 5" - B.O.B. 30 sec. 419-574 #
ISI - 30" - Built to 1 in. 1336 #
FFP - 5" - B.O.B. On Open 651-780 #
FSI - 30" - W.S.B. 1336 #

FHP - 2084 # BHT - 122°F

Recovery: 80' GIP

1595' GCO 41° API

120' HOCGM 20% Oil, 20% Gas

# **Structural Comparison**

	American Warrior, Inc.	American Warrior, Inc.		American Warrior, Inc.	
	Witthuhn Unit #2-26	Witthuhn Heirs #2-35		Witthuhn Unit #1-26	
	Sec. 26 T18s R22w	Sec. 35 T18s R22w		Sec. 26 T18s R22w	
Formation	140' FSL & 335' FEL	335' FNL & 335' FEL		2200' FSL & 40' FEL	
Anhydrite	1404', +744	1407', +742	(+2)	1409', +743	<b>(+1)</b>
Base	1447', +701	NA	NA	NA	NA
Heebner	3607', -1459	3606', -1457	(-2)	3602', -1450	<b>(-9</b> )
Lansing	3653', -1505	3652', -1503	(-2)	3648', -1496	<b>(-9</b> )
BKc	3969', -1821	3972', -1823	(+2)	3965', -1813	(-8)
Pawnee	4062', -1914	4063', -1914	FL	4054', -1902	<b>(-12)</b>
Fort Scott	4133', -1985	4140', -1991	(+6)	4129', -1977	(-8)
Cherokee	4151', -2003	4160', -2011	(+8)	4151', -1999	(-4)
Mississippian	4213', -2065	4240', -2091	(+26)	4220', -2068	(+3)

# **Summary**

The location for the Witthuhn Unit #2-26 was found via 3-D seismic survey. The new well ran structurally higher than expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5  $\frac{1}{2}$  inch production casing to further evaluate the Witthuhn Unit #2-26 well.

### **Recommended Perforations**

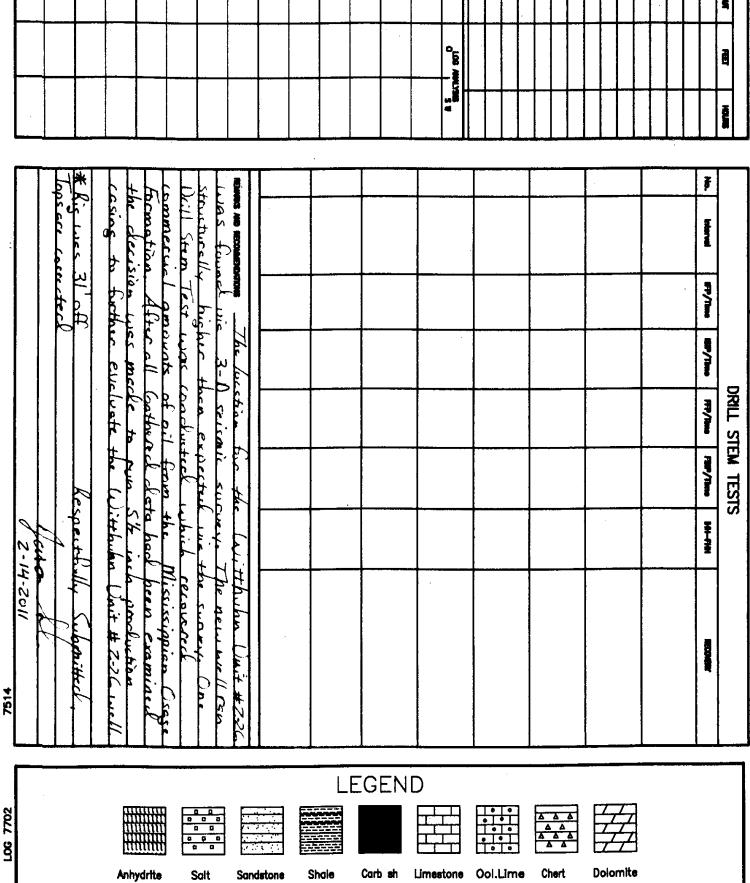
Mississippian Osage: (4213' – 4222') DST #1

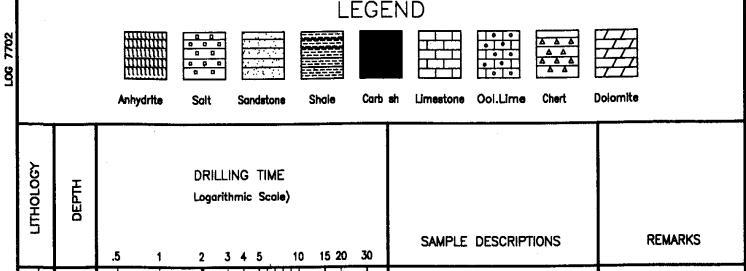
Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.

### Aphydicite SAMPLES EXAMINED FROM DRILLING TIME KEPT FROM SAMPLES SAVED FROM COMM. CONTRACTOR Petnomack Deilling, LL. Ku GEOLOGICAL SUPERVISION FROM MUD UP 3300 Parace SEC. 26 COUNTY Ness OPERATOR American LOCATION \_ FIELD Wildcat LEASE Withwhn separe REFERENCE WELL FOR STRUCTURAL COMPARISON Enzing THOUSEN enikss FORMATION 4223 ditt huben 140 ESL & 335 EE 뎧 . T₩P:\_ HeJCS # 2-35 3500, 10 -Hard Rock Consulting, Inc. 3500 DRILLING TIME AND SAMPLE LOG 3500' - TYPE MUD -Jason Alm Petroleum Geologist 185 Unit WELL NO. 2-26 DATUM TOP 3500 STATE 1133 - 1914 E 1133 - 1985 + 6 1133 - 2003 + 8 1133 - 200 **GEOLOGIST'S** Morrior, 1 36.53-1821 36.53-1808 36.53-1808 Hays, KS 6760 1447 + 701 P.O. Box 1260 ์ เ ไ | 경 | HOH + 744 SAMPLE Kansas Name Chemical RGE 2244 기 라 335 FNI 5 335 FEL Suc 35 T182 BIB American Rig #I RT1REPORT STRUCT. T 14. #15-135-25086-00 무 1/cmies PRODUCTION 5/2" (2) 4/22 SURFACE 83/8 19 1421 奇 From Kelly GL 2142' Measurements ELECTRICAL SURVEYS None CASING RECORD 2148 ELEVATION ڏه 3

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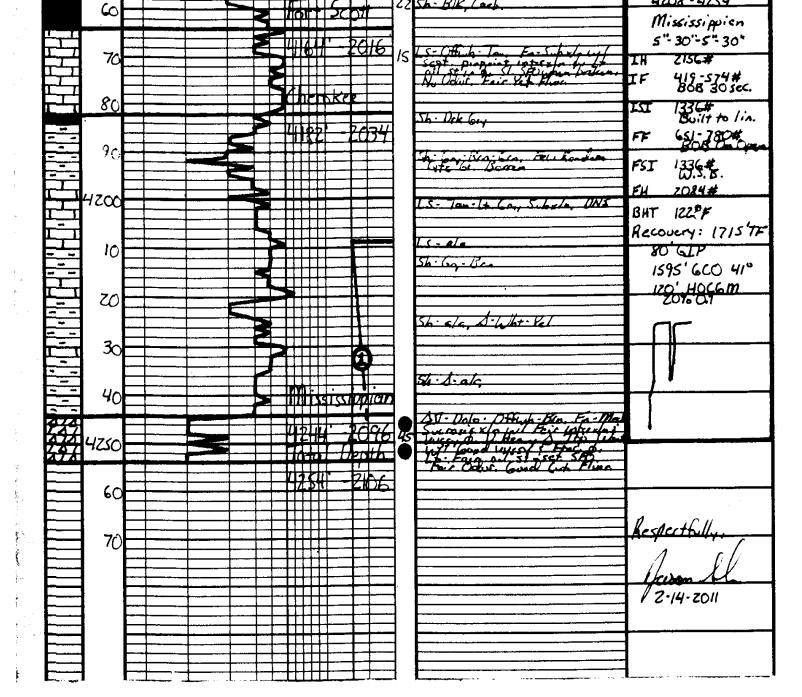




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TICKET 20137

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- 13	WELL/PROJECT NO.	LEASE	COUNTY/PARIGH.	ISTATE ICITY	IDATE	OWNER
1. KJESS (3.44, K)	2-26	WITTHING UNIT   NESS	T Ness	KS. BAZIN	EKS (GEBI	
2	TICKET TYPE CONTRACTOR		RIG NAME/NO.	SHIPPED DELIVERED TO	ORDER NO.	
	BALES TO TO MARK DRILLING	ARK DRILLING		MA /CCATIC	<u></u>	
ļ.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	
	OIL	Teveropine NT	DEVELOPMENT 88 SURFACE PERKIN	(FINENT)	1 X C 2 1	בולס
REFERRAL LOCATION	INVOICE INSTRUCTIONS					*

	Ì	OND	CUSTOMER DID NOT WISH TO RESPOND	TOMER DID NO	<b>333</b> C				W / F 3/
			SERVICE?	RE TOU SAIISHED WITH OUR SERVICE?			Ç A	TIME SIGNED	DATE SIGNED
	TAX		=	RE OPERATED THE EQUIPMENT NO PERFORMED JOB ALCULATIONS ATISFACTORILY?	WE OPERATED THE AND PERFORMED CALCULATIONS SATISFACTORILY?	P.O. BOX 466 NESS CITY KS 67560	*	RY OF GOODS	START OF WORK OR DELIVERY OF GOODS
				THOUT DELAY?	PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.		MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO	MUST BE SIGNED BY CUSTO
				)S?	WE UNDERSTOOD AND MET YOUR NEEDS?		MINITY, and	but are not limited to, <b>Payment</b> , <b>Release</b> , <b>Indemnity</b> , and <b>Limited warranty</b> provisions	LIMITED WARRANTY provisions
10.065	TAGE			T PERFORMED (DOWN?	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	ZEMENT C.	hich include,	the terms and conditions on the reverse side hereof which include,	the terms and condition
<u>.</u> دول	BACE TOTAL	DECIDED AGREE	AGREE	SURVEY	RUS	DEMIT DAVACNIT TO	nd agrees to	LEGAL TERMS: Customer hereby acknowledges and agrees to	LEGAL TERMS: Cus
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637 152	150		\$ <u>_</u>	158		STRUICE CHARLE CEMENT			8
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1(0) SE	150		1/1/25	107		FLORELE			276
SO @	8.5%		26.5	L)		LION IS KCL			221
5000	/I <sup>©</sup>		SA.	SOC		MAN FLUSH			281
250 PB	25000		ĔΑ		7.	INSERT FLOAT BAFFE W/O FILL			4/12
100	101) @	-	KA			TOP PLUS			410
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1101)	1100) <u>rea</u>	17 FT.	Jos 1/4/7	<u> </u>		PLAND CHARGE			S7LD
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AMOUNT	PRICE	Y. UM	עזע פורי.	QTY.		DESCRIPTION	ACCOUNTING C ACCT DF	PART NUMBER LOC	PRICE

Thank You.

JOB LOG CUSTOMER

SWIFT Services, Inc.



CUSTOMER	ICAN W	ARRIDA	WELL NO.			LEASE USITTY	WHILL	NITAR JOB TYPE 8 5/8 SURFACE TICKET NO. 20137
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUI T	AP8	PRESSUR TUBING		DESCRIPTION OF OPERATION AND MATERIALS
	5900							ON LOCATION
	1005							START PIPE 85/8-234
<u>.</u>								RTDE1417 SETE1416
4		·						CENTRALIZERS 1,412 28
	1235							CIRCULATE.
					L			
	1242	6	12		<u>\</u>		200	Pung 500 Car Mad FLISH
4	1244	ها	20		V		200	Pump 500 gar MUDFLINSH
· ·	1248	_						MIX CENENT-SMD
		6	46		1		200	1005. @ 11.8 ppg.
		6	48		7		200	125 Sx @ 12.5 pp6.
		6	31		7			100 Sx @ 13.5 ppc.
		6	26		7		100	100 Sx € 14.5 pp6
						<u> </u>		**
	1317							WASH OUT BUMPING LINES.
) 19 <u>11 - 19</u> 11								
	1320.	6			>			RELEASE PLUG START DISDLACEMENT
١	1335	Ø	883		~		500	PLUE DOWN SHUT WELL IN.
								CIRCULATE CEMENT TO SURFACE
	1338							WASH TRUCK
<u> </u>								
. <u> </u>	1415		·					JOB CONDLETE
								THANKS #110
								·
								JASON JEFF JOHN



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CITY, STATE, ZIP CODE

TICKET 19553

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SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE CITY	DATE OWNER	
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2. None City To	TICKET TYPE CONTRACTOR	*	RIG NAME/NO.	SHIPPED DELIVERED TO	ORDER NO.	
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C-	-WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	
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2 7 2 7	DATE SIGNLED	START OF WORK OF DEL	MUST BE SIGNED BY CUSTOMER OR CUSTOM	but are not limited	the terms and cond	LEGAL TERMS: (			219	407	4115	<th>2/12</th> <th>350</th> <th>221</th> <th>221</th> <th>578</th> <th>575</th> <th>PRICE</th>	2/12	350	221	221	578	575	PRICE
1 17:50	TIME SIGNED	DELIVERY OF BACOS	LIMITED WARRANTY PROVISIONS  MUST BE SIGNED BY CUSTOMER OR CLATOMER'S AGENT PRIOR TO	but are not limited to, PAYMENT, RELEASE, INDEMNITY, and	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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700-790-2000	1 5	lø o><	SWIFT SERVICES, INC. OURS	WE IN	TEMIL TAYMEN I C: OUR EX			<b>:</b>	Rotating Hoad Rostal	Ensert Fleat Strate William F	Lath Down Boffle & Phas	Comput Basket	Contralizers	D. A.O	Pluck Dush	Liquial KCL	Francisco Charge	MILEAGE # //3	DESCRIPTION
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

Thank You!



# TICKET CONTINUATION

No. /9553

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TICKET 20143

PAGE

REFERRAL LOCATION Services, Inc. TICKET TYPE CONTRACTOR

TSERVICE

TSALES

WELL TYPE INVOICE INSTRUCTIONS LEASE TIM WHANHALLIN DE VELLIAMENT WELL CATEGORY Sy Annus (FARA) COUNTY PARTIENT STATE CITY

KS. BAZINE
SHIPPED DELIVERED TO WELL PERMIT NO. 公 ORDER NO. DATE MELL LOCATION W. N INTO OWNER

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SWIFT OPERATOR

ISTOMER ACCEPTANCE OF MATERIALS AND SERVICES

APPROVAL

Thank You!

SWIFT Services, Inc.

DATE 15 FEB 1 PAGE NO.

USTOMER	ALV URDI	שמום	WELL NO.	-26	WITHUAN U	WIT CEMENT ANNULUS 8 1/8 TICKET NO. 20143
CHART NO.	TIME	<del> </del>	VOLUME	PUMPS	PRESSURE (PSI)	
NO.	<del></del>	RATE (BPM)	(BBL) (GAL)	T C	TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
·	1400		<u> </u>			ON FORMION
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	1430		-	7	500	PRESSURE UP CASING SHUT IN
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	1440	スラ		7	600	TAKE INT PATE.
			10			
. ·	1443	3	49		-100	MIX 125 SX SMD@ 12.4 ppg
			-			<u> </u>
·	1500		_			SHUT WELL IN
			<b>_</b>			<u> </u>
-	1505		<del> </del>			WASHTRUCK
	1530					JOB COMPLETE
		<del></del>	-			
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### DRILL STEM TEST REPORT

American Warrior inc.

Withuhn 2-26

PO Box 399

26-18s-22w Ness

Garden City, Ks. 67846

Job Ticket: 041549 DST#: 1

Andy Carreira

39

Test Start: 2011.02.12 @ 04:57:05 ATTN: Jason Alm

Tester:

Unit No:

### **GENERAL INFORMATION:**

Formation: Mississippi

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

Time Tool Opened: 07:02:30 Time Test Ended: 12:34:59

Interval:

4208.00 ft (KB) To 4253.00 ft (KB) (TVD) Reference Elevations: 2148.00 ft (KB)

Total Depth: 4253.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 6.00 ft

2142.00 ft (CF)

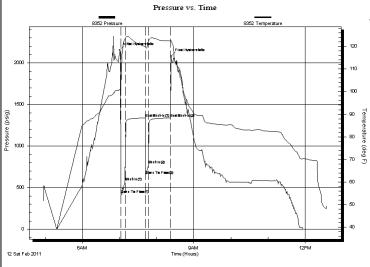
Serial #: 8352 Outside

Press@RunDepth: 4213.00 ft (KB) 780.42 psig @ Capacity: 8000.00 psig

Start Date: 2011.02.12 End Date: 2011.02.12 Last Calib.: 2011.02.12 Start Time: 04:57:05 End Time: 2011.02.12 @ 07:00:40 12:34:59 Time On Btm: Time Off Btm: 2011.02.12 @ 08:23:40

TEST COMMENT: IF: BOB, 30 sec.

IS: 1 inch return blow FF: BOB, Immediately FS: Surface return blow



### PRESSURE SUMMARY

			\_ O O O I	L COMMUNICA
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2155.58	101.02	Initial Hydro-static
	2	419.70	100.14	Open To Flow (1)
	9	573.56	123.36	Shut-In(1)
7	42	1336.06	119.95	End Shut-In(1)
empe	42	651.72	119.58	Open To Flow (2)
rature	47	780.42	122.28	Shut-In(2)
Temperature (deg F;	82	1336.03	122.32	End Shut-In(2)
Э	84	2084.61	122.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	HOCGM g=20% 0=20% m=60%	0.59
1595.00	GO g=20% o=80%	22.37
0.00	GIP= 80ft	0.00

### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 041549 Printed: 2011.02.12 @ 13:42:14 Page 1



### DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior inc.

Withuhn 2-26

PO Box 399

26-18s-22w Ness

Garden City, Ks. 67846

Job Ticket: 041549 **DST#:1** 

ATTN: Jason Alm

Test Start: 2011.02.12 @ 04:57:05

### **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: 50.00 sec/qt Cushion Volume: bbl

Water Loss: 13.99 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 6700.00 ppm Filter Cake: inches

### **Recovery Information**

### Recovery Table

Length ft	Description	Volume bbl
120.00	HOCGM g=20% 0=20% m=60%	0.590
1595.00	GO g=20% o=80%	22.368
0.00	GIP= 80ft	0.000

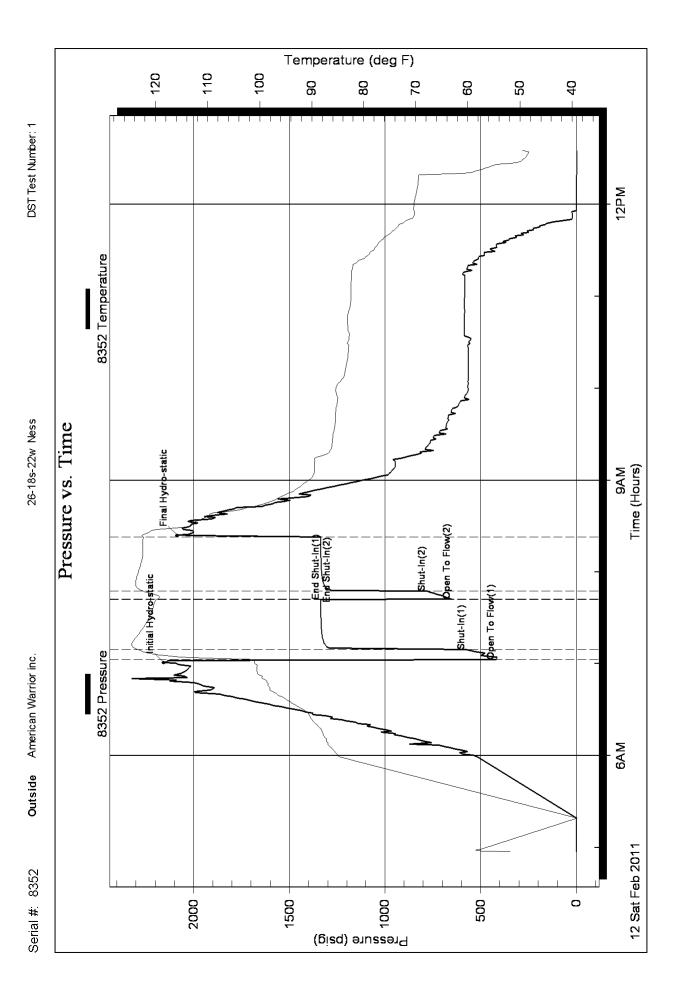
Total Length: 1715.00 ft Total Volume: 22.958 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 041549 Printed: 2011.02.12 @ 13:42:14 Page 2



Printed: 2011.02.12 @ 13:42:14 Page 3 041549 Ref. No: Trilobite Testing, Inc