

#### Kansas Corporation Commission Oil & Gas Conservation Division

1082069

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: 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         □ SHOW           □ 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: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)  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:
Spud Date or Date Reached TD Completion Date or Recompletion Date  Completion 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 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	Schwartz-Jordan 3
Doc ID	1082069

# Tops

Name	Тор	Datum
Anhydrite	1509	781
Heebner	3795	-1505
Lansing	3842	-1552
Base Kansas City	4167	-1877
Pawnee	4288	-1998
Ft.Scott	4334	-2044
Cherokee	4350	-2060
MIssissippian	4413	-2123
TD	4430	-2140

# Alliedcementing co., llc.=

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770 HELPER	<u>(                                    </u>	17/2/			_ •	ráum or leis dh
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HARGE TO LINE	Hook Hook 150 Lwyfe, Circ 2:4	ad to com  1 ps Close  1 sp/rea wi  2 phate  4 fote  5 phate  5 phate  5 phate  5 phate  6 ph	DEPTH OF JOE PUMP TRUCK EXTRA FOOM MILEAGE MANIFOLD	SERVI DB K CHARGE FAGE	TOTAL	Lim Port (118)  through the Market (118)  And (118)  An
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HARGE TO: ME  TREET  TO Allied Cementing Co.  on are hereby requested and furnish cementer and	TATE	TAS COMMENTS  1 3/17 cg. 64/17 cg. 6	DEPTH OF JOE PUMP TRUCK EXTRA FOOM MILEAGE MANIFOLD	SERVIDE SERVID	TOTAL  O  TOTAL  TOTAL  TOTAL  TOTAL  O  O  O  O  O  O  O  O  O  O  O  O  O	
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Edital de de l'imperatorial de la compansión de la compan

A (	CEMENTING Cementing & A	CO., LLC Acidizing Services				CENAENT DATA:
Date 2- X	77-12 Distric	Grant	Deud .	icker No. 4/2	412	CEMENT DATA:
- 17	de Herme &	Dorma	A	ig Detrom	1 10 1	Spacer Type:  Amt. 2 55ks Yield ft³/sk Density
	works -	(comb-		Vell No.	)	Amtft³/sk Density
County	Nan			tate 5		
Location 1922	14e, K9	7-7	957 Fi	eld		LEAD: Pump Time hrs. Type
CASING DATA				Squeeze M		Excess
5/1	Surface			· =	=	AmtSks Yieldft³/sk Density
Size 8 2/8	Type Ne	1. 1	ont 74/3	<i>a</i> \	<i>y</i> – 1	300 CC Flo as Excess
						Amt. 150 Sks Yield 1,34 ft <sup>3</sup> /sk Density
						WATER: Lead gals/sk Tail gals/sk Total
	<b>*</b>	<del>}</del>		727		
Casing Depths: 1	Top	<u> </u>	Bottom	120	·1	Pump Trucks Used
			<del></del>		I	Bulk Equip.
				·		7,0180
Drill Pipe: Size _	41/2	Weight	16.6	Collars & 1	ule	
Open Hole: Size		T.D		P.B. to	ft. I	Float Equip: Manufacturer
CAPACITY FACT	ORS:	~ -	_			Shoe: Type Depth
Casing:	Bbls/Lin. ft	065	Lin. ft./B	ы. / <del>5.</del> /	70	Float: Type Depth
Open Holes:	Bbls/Lin. ft	1458	Lin. ft./B	И.	<del>3 5</del> (	Centralizers: Quantity Plugs Top Btm
Drill Pipe:	Bbls/Lin. ft	A 88 73. m	Lin. ft./B	12 /	0	Stage Collars
Annulus:	Bbls/Lin. fte		Lin. ft./B	UI. <u>/ F · —</u>	•	Special Equip.
Perforations:	Bbls/Lin. ft		Lin. ft./B	-		Disp. Fluid Type Amt Bbls. Weight PPG
renorations:	From	n. to		ft. Amt		Mud Type Weight PPG
COMPANY REPR	RESENTATIVE					CEMENTER CREATER
		250 801		UD DU II 4050 I		
TIME	PRESSUI DRILL PIPE		TOTAL	ID PUMPED [ Pumped Per	DATA RATE	REMARKS
AM/PM	CASING	ANNULUS	FLUID	Time Period	Bbls Min.	
						Chilocotion - Kig w
					 	Noto somety incering
						Ray 83/ Cany
						XUN 10/8 (23)Mg
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						Hock up to cement pump.
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CITY, STATE, ZIP CODE

TICKET

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SERVICE LOCATIONS 1. N.C. S.S. ZIT, V.S.	WELL/PROJECT NO.	CEASE	LEASE COUNTY/PARISH	N STATE	CITY	DA	DATE OWNER	ウ AMC
	TICKET TYPE CONTRACTOR		RIG NAMENO.	SHIPPED	DELVERED TO		ORDER NO.	֭֓֞֜֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֡֓֡֓֓֡֓֓֡֓֓֡֓֡֓֡֓֡
	_	WELL CATEGORY	TEGORY JOB PURPOSE		MEI DEBUIT NO		TO LOCATION	
	On On	りたい	137		WELL YERMII NO.		SE/RATINE V	
REFERRAL LOCATION	INVOICE INSTRUCTIONS							
PRICE SE REFERENCE	SECONDARY REFERENCE/ ACC PART NUMBER LOC	ACCOUNTING ACCT DF	DESCRIPTION		מדץ.   עאו	QTY. UM	PRICE	AMOUNT
575			MILEAGE # 110		20 mz		o- 0	120 00
S78			Pump Charge		1 500	44301万	1500,00	150000
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281			MUDFIUSH		500 GAZ	-	) X	625,00
4QJ			CSATEMIZZOS		2/54	S/h."	70,00	350 00
403		-	CEMENT BASKETS		2 EA		250loo	500 00
401			PORT COURSE TOP IT # 70		] [SA	1494 FF	2400 00	2400,00
Hob			LATEH DOWN PLUG . BAFFLE		182		30 80 80	250 oo
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1)19			POTATION HEAD RETTAL		- Ingg		2000	20000
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EGAL TERMS: Custor	LEGAL TERMS: Customer hereby acknowledges and agrees to	grees to	DEMIT DAYMENT TO.	SURVEY	EY AGREE	E DECIDED AGREE	-	_
ut are not limited to, PA	the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT</b> , <b>RELEASE</b> , <b>INDEMNITY</b> , and	include, TY, and		WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR MEETS?	ERFORMED OWN? AND		1	6345100
LIMITED WAKKANIT PROVISIONS	OR CUSTOMER'S ACENT BRICE TO		SWIFT SERVICES, INC.	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	OUT DELAY?		#2	72 1954
RT OF WORK OR DELIVERY	START OF WORK OR DELIVERY OF GOODS			WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCILLATIONS	JOB E EQUIPMENT		ナットナー	10,906 25
Scott	TIME SIGNED		NESS CITY, KS 67560	SATISFACTORILY? ARE YOU SATISFIEL	WITH OUR SERVICE		6.3%	5471.23
3.4.17	2100	P.M.	/85-/98-2300	Cust	DI MISH I	RESPOND	TOTAL	11,453 48

SWIFT OPERATOR WAYNE WATSON

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

APPROVAL

Thank You!



# TICKET CONTINUATION

No. 21988

PO Box 466. Ness City, KS 67560 Off: 785-798-2300 WELL MACOUS - JORDAN 3 DATE 3- 4-12 

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	-																·				i i	O#:
																						Off: 785-798-2300
TOTAL WEIGHT	SERVICE CHARGE														ローる	Haus - 322	CMSAL	SAIT		STANDARD CONCUT		AMEDIAN WARDER
LOADED MILES		-											•			•				EA-2		WC.
TON MILES	CUBIC FEET				ļ 	 _	_	 							2 61	125/4	245 B	300 les	Solus	175 SES		STAMPS .
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250 00	350 00								_			 _			70 00	968175	280 00	180 00	100 00	2362 50		2

SWIFT Services, Inc.

DATE 3-4

WELL NO. #3 CUSTOMER WARRIED WARRIED THE SCHWARTZ - JORDAN S'A" LONGSTRING PRESSURE (PSI) **DESCRIPTION OF OPERATION AND MATERIALS** CASING С TUBING ON LOUTZON 2400 START S'A" CASTAG IN WELL 0/30 TO-4430 Set = 4429 512 15.5 TP-4432 ST-42 CEMPARTE - 1, 2, 3 4, 69 CMT BSKB- 5,70 POUT Cours - 1494 TOP 5 " 70 0350 DROP BALL - GRELNATE ROUTE 6/2 0435 450 RUMP SOO GAC MUSTEUGH 12 450 PUMP 20 BUS KCL FLUSH 61/2 0437 20 PLUC RH (305KS) 0442 250 Max COMOR - 145 SIS EA-2 CMT 0445 4 35 WASH OUT PUMP. LINES 0455 REIEASE L. D. PLUG OHSS DEPLICE PLUG ०८०० 61/2 103 1500 PLUG DOWN - PE UP LATCH IN PLUG 6% 0515 104.5 RELEASE PSZ - HEW 0517 WASH TRUCK JOB COMPLETE 0600



CITY, STATE, ZIP CODE

ADDRESS APPERICAN WARRIOR
---------------------------

TICKET

4
2207

					WATERIALS AND SERVICES The make appearing the leading of the leadi	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES		
440 08	101AL	H TO RESPOND	CUSTOMER DID NOT WISH TO RESPOND	CUS1	700-790-2300	7,00	1477	11011
		ICE?	OU SATISFIED WITH OUR SERVICE?	ARE YOU SATISFI	785 708 2300	TIME SIGNED AM.	2010	ATE SIGNED
147 56	O TAX O		) JOB	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	P.O. BOX 466	XXX	ELIVERY OF GOX	TART OF WORK OR DELIVERY OF GOODS
_	3		AS HOUT DELAY?	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.	LIMITED WAKKAN IT PROVISIONS.  UST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO	USTOMER OR CL	LIMITED WAKKANTY PROVISIONS  UST BE SIGNED BY CUSTOMER OR CUSTON
			D AND 57	WE UNDERSTOOD AND MET YOUR NEEDS?		but are not irmited to, PAYMENT, RELEASE, INDEMNITY, and	ed to, PAYME	but are not limit
1342	PAGE TOTAL		EQUIPMENT PERFORMED OUT BREAKDOWN?	OUR EQUIPMENT WITHOUT BREAKI	ZEMIL TATMENT C.	the terms and conditions on the reverse side hereof which include,	nditions on the	the terms and co
52		AGREE DECIDED AGREE		SURVEY	חרואוד האיארוד די	LEGAL TERMS: Customer hereby acknowledges and agrees to	: Customer ho	LEGAL TERMS
				, 1.				
350 PP	3509	1917.30 TM	17384 1/65		MINIMUM DRAYAGE			300
350 00	Sie		175 <sup>1</sup> 5x		SERVICE CHARGE PENENT			283
1897/52	16 89		115 8x		SWIFT MULTI ) FUSITY			330
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(90)	<u>ي</u>		30jbs		FLOCELE			276
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SWIFT OPERATOR

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE SMAR 12 PAGE NO

CUSTOMER DECENI	14W (1A)	RRWR	WELL NO.			SCHWAR	Tz-JOR	DAN#3 JOB TYPE DAN#3 JOB TYPE LEANENT PORT (CXLAR) TICKET NO. 23072
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM	PS	PRESSUR TUBING	E (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
	1315							ON LOCATION
								PORTCOLLAR @ 1494'
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	1334	_3			1		400	OPEN PORT COLLAR TAKE INS. RATE
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	1351	4_	63	7		600	ļ	MIX 1155x SMD
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# **Geological Report**

American Warrior, Inc.
Schwartz-Jordan #3
2370' FNL & 775' FEL
Sec. 33 T19s R21w
Ness County, Kansas



American Warrior, Inc.

# **General Data**

Well Data:	American Warrior, Inc. Schwartz-Jordan #3 2370' FNL & 775' FEL Sec. 33 T19s R21w Ness County, Kansas API # 15-135-25345-0000
Drilling Contractor:	Petromark Drilling, LLC Rig #1
Geologist:	Jason Alm
Spud Date:	February 27, 2012
Completion Date:	March 3, 2012
Elevation:	2284' Ground Level 2290' Kelly Bushing
Directions:	Bazine KS, East on Hwy 96 to GG road, South on GG road 6.5 mi. West on into location.
Casing:	223' 8 5/8" surface casing 4429' 5 1/2" production casing
Samples:	10' wet and dry, 3700' to RTD
Drilling Time:	3700' to RTD
Electric Logs:	None
Drillstem Tests:	One, Trilobite Testing, Inc. "Cody Bloedorn"
Problems:	None
Remarks:	None

#### **Formation Tops**

	American Warrior, Inc.
	Schwartz-Jordan #3
	Sec. 33 T19s R21w
<b>Formation</b>	2370' FNL & 775' FEL
Anhydrite	1509', +781
Base	1543', +747
Heebner	3795', -1505
Lansing	3842', -1552
BKc	4167', -1877
Pawnee	4288', -1998
Fort Scott	4334', -2044
Cherokee	4350', -2060
Mississippian	4413', -2123
RTD	4430', -2140

#### **Sample Zone Descriptions**

#### Fort Scott (4334', -2044): Not Tested

Ls – Fine crystalline with poor inter-crystalline porosity, light to fair oil stain in porosity, show of free oil, good yellow fluorescents, no odor, 25 units hotwire.

#### Mississippian Osage (4420', -2130): Covered in DST #1

Dolo –  $\Delta$  – Fine sucrosic crystalline with fair vuggy and intercrystalline porosity, heavy triptolic chert, weathered with good vuggy porosity, light to good oil stain in porosity, good show of free oil, good odor, bright spotted yellow fluorescents, 40 units hotwire.

#### **Drill Stem Tests**

Trilobite Testing, Inc. "Cody Bloedorn"

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

Interval (4421' – 4430') Anchor Length 9'

IHP - 2204 #

IFP - 30" - B.O.B. 10 min. 28-155 #
ISI - 30" - Weak Surface Blow 1107 #
FFP - 05" - B.O.B. 14 min. 163-234 #
FSI - 30" - Weak Surface Blow 1051 #

FHP - 2173 # BHT - 122°F

Recovery: 201' GIP

186' GCO

62' GOCMW 20% Oil, 60% Water

310' MW w/ oil scum

### **Structural Comparison**

Formation	American Warrior, Inc. Schwartz-Jordan #3 Sec. 33 T19s R21w 2370' FNL & 775' FEL	American Warrior, Inc. Schwartz-Jordan #1 Sec. 33 T19s R21w 2150' FNL & 750' FEL		American Warrior, Inc. Schwartz-Jordan #2 Sec. 33 T19s R21w 2400' FSL & 700' FEL	
Anhydrite	1509', +781	1510', +781	FL	1508', +779	(+2)
Base	1543', +747	NA	NA	NA	NA
Heebner	3795', -1505	3792', -1501	(-4)	3794', -1507	(+2)
Lansing	3842', -1552	3838', -1547	(-5)	3840', -1553	(+1)
BKc	4167', -1877	NA	NA	NA	NA
Pawnee	4288', -1998	4284', -1993	(-5)	4289', -2002	(+4)
Fort Scott	4334', -2044	4330', -2039	(-5)	4332', -2045	(+1)
Cherokee	4350', -2060	4346', -2055	(-5)	4349', -2062	(+2)
Mississippian	4413', -2123	4415', -2124	(+1)	4416', -2129	(+6)

#### **Summary**

The location for the Schwartz-Jordan #3 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 Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Schwartz-Jordan #3 well.

#### **Recommended Perforations**

**Primary:** 

**Mississippian Osage** (4420' – 4426') **DST #1** 

**Before Abandonment:** 

**Fort Scott:** (4336' – 4342') **Not Tested** 

Respectfully Submitted,

Jason T. Alm Hard Rock Consulting, Inc.

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Prepared For: American Warrior Inc,

PO Box 399

Garden City KS, 67846

ATTN: Jason Alm

Schwartz - Jordan #3

33-19s-21w Ness,KS

Start Date: 2012.03.03 @ 09:26:00 End Date: 2012.03.03 @ 16:10:45 Job Ticket #: 46289 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601

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



American Warrior Inc,

33-19s-21w Ness, KS Schwartz - Jordan #3

PO Box 399

Garden City KS, 67846 Job Ticket: 46289

ATTN: Jason Alm

Test Start: 2012.03.03 @ 09:26:00

#### GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:25:30 Time Test Ended: 16:10:45

Interval: 4421.00 ft (KB) To 4430.00 ft (KB) (TVD)

Total Depth: 4430.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Unit No: 54

Cody Bloedorn

DST#: 1

Tester:

2290.00 ft (KB)

Reference Elevations:

2284.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8366 Outside

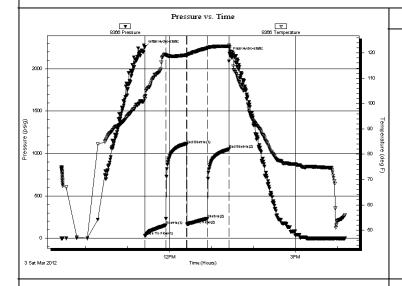
Press@RunDepth: 234.36 psig @ 4427.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2012.03.03 End Date: 2012.03.03 Last Calib.: 2012.03.03 Start Time: 09:26:02 End Time: 2012.03.03 @ 11:25:15 16:10:45 Time On Btm: 2012.03.03 @ 13:25:45 Time Off Btm:

TEST COMMENT: 30 - IF- B.O.B.in 10 min.

30 - ISI- Surface blow throughout

30 - FF- B.O.B. in 14 min. 30 - FSI- Surface blow



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2256.10	102.84	Initial Hydro-static
1	28.84	101.81	Open To Flow (1)
30	155.10	119.13	Shut-In(1)
60	1107.99	119.14	End Shut-In(1)
60	163.97	118.70	Open To Flow (2)
90	234.36	121.90	Shut-In(2)
120	1050.80	122.67	End Shut-In(2)
121	2173.64	122.29	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
310.00	MW, Oil scum, 10%M, 90%W	2.65
62.00	GOCMW,10%G, 10%M, 20%O, 60%W	0.87
186.00	GO, 30%G, 70%O	2.61
0.00	201' of G.I.P.	0.00

#### Gas Rates

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

Printed: 2012.03.08 @ 15:10:42 Trilobite Testing, Inc. Ref. No: 46289



American Warrior Inc,

33-19s-21w Ness,KS Schwartz - Jordan #3

PO Box 399

Garden City KS, 67846

ATTN: Jason Alm

Job Ticket: 46289 **DST#:1** 

Cody Bloedorn

2284.00 ft (CF)

54

Test Start: 2012.03.03 @ 09:26:00

GENERAL INFORMATION:

Formation: Miss

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

Time Tool Opened: 11:25:30 Tester:
Time Test Ended: 16:10:45 Unit No:

Interval: 4421.00 ft (KB) To 4430.00 ft (KB) (TVD) Reference Elevations: 2290.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

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

Serial #: 8289 Inside

 Press@RunDepth:
 psig
 @
 4427.00 ft (KB)
 Capacity:
 8000.00 psig

Time

Pressure

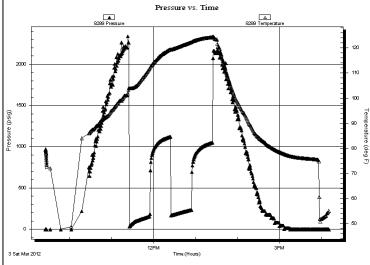
Start Date: 2012.03.03 End Date: 2012.03.03 Last Calib.: 2012.03.03

Start Time: 09:26:02 End Time: 16:10:45 Time On Btm: Time Off Btm:

TEST COMMENT: 30 - IF- B.O.B.in 10 min.

30 - ISI- Surface blow throughout

30 - FF- B.O.B. in 14 min. 30 - FSI- Surface blow



	(Min.)	(psig)	(deg F)	
Temperature				
ture (dea E)				

PRESSURE SUMMARY

Temp

Annotation

#### Recovery

Length (ft)	Description	Volume (bbl)
310.00	MW, Oil scum, 10%M, 90%W	2.65
62.00	GOCMW,10%G, 10%M, 20%O, 60%W	0.87
186.00	GO, 30%G, 70%O	2.61
0.00	201' of G.I.P.	0.00

Gas Rat		
Choko (inchos)	Proceuro (peig)	Cas Pato (Mof/d)

Trilobite Testing, Inc Ref. No: 46289 Printed: 2012.03.08 @ 15:10:42



**TOOL DIAGRAM** 

American Warrior Inc,

33-19s-21w Ness,KS

PO Box 399

Schwartz - Jordan #3

Garden City KS, 67846

Job Ticket: 46289 DST#: 1

String Weight: Initial 60000.00 lb

ATTN: Jason Alm

Test Start: 2012.03.03 @ 09:26:00

**Tool Information** 

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length: 4216.00 ft Diameter: Length:

0.00 ft Diameter: 186.00 ft Diameter: 3.80 inches Volume: 59.14 bbl 0.00 inches Volume: 2.25 inches Volume:

Total Volume:

0.00 bbl 0.91 bbl 60.05 bbl

Tool Weight: Weight set on Packer: 25000.00 lb Weight to Pull Loose: 66000.00 lb

Tool Chased

0.00 ft

Final 62000.00 lb

2500.00 lb

Drill Pipe Above KB: 9.00 ft Depth to Top Packer: 4421.00 ft

Depth to Bottom Packer: ft Interval between Packers: 9.00 ft Tool Length:

37.00 ft Number of Packers: 2

Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4394.00		
Shut In Tool	5.00			4399.00		
Hydraulic tool	5.00			4404.00		
Jars	5.00			4409.00		
Safety Joint	2.00			4411.00		
Packer	5.00			4416.00	28.00	Bottom Of Top Packer
Packer	5.00			4421.00		
Stubb	1.00			4422.00		
Perforations	5.00			4427.00		
Recorder	0.00	8289	Inside	4427.00		
Recorder	0.00	8366	Outside	4427.00		
Bullnose	3.00			4430.00	9.00	Bottom Packers & Anchor

**Total Tool Length:** 37.00

Trilobite Testing, Inc Ref. No: 46289 Printed: 2012.03.08 @ 15:10:44



**FLUID SUMMARY** 

ppm

DST#: 1

American Warrior Inc, 33-19s-21w Ness,KS

PO Box 399

ATTN: Jason Alm

Schwartz - Jordan #3

Garden City KS, 67846 Job Ticket: 46289

Test Start: 2012.03.03 @ 09:26:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: 40 deg API

Viscosity: 63.00 sec/qt Cushion Volume: bbl

Water Loss: 6.39 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 6300.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
310.00	MW, Oil scum, 10%M, 90%W	2.654
62.00	GOCMW,10%G, 10%M, 20%O, 60%W	0.870
186.00	GO, 30%G, 70%O	2.609
0.00	201' of G.I.P.	0.000

Total Length: 558.00 ft Total Volume: 6.133 bbl

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

Laboratory Name: Laboratory Location: Recovery Comments: Gravity: 40 @ 60Degrees = 40

Trilobite Testing, Inc Ref. No: 46289 Printed: 2012.03.08 @ 15:10:44

DST Test Number: 1

50

9

70

80

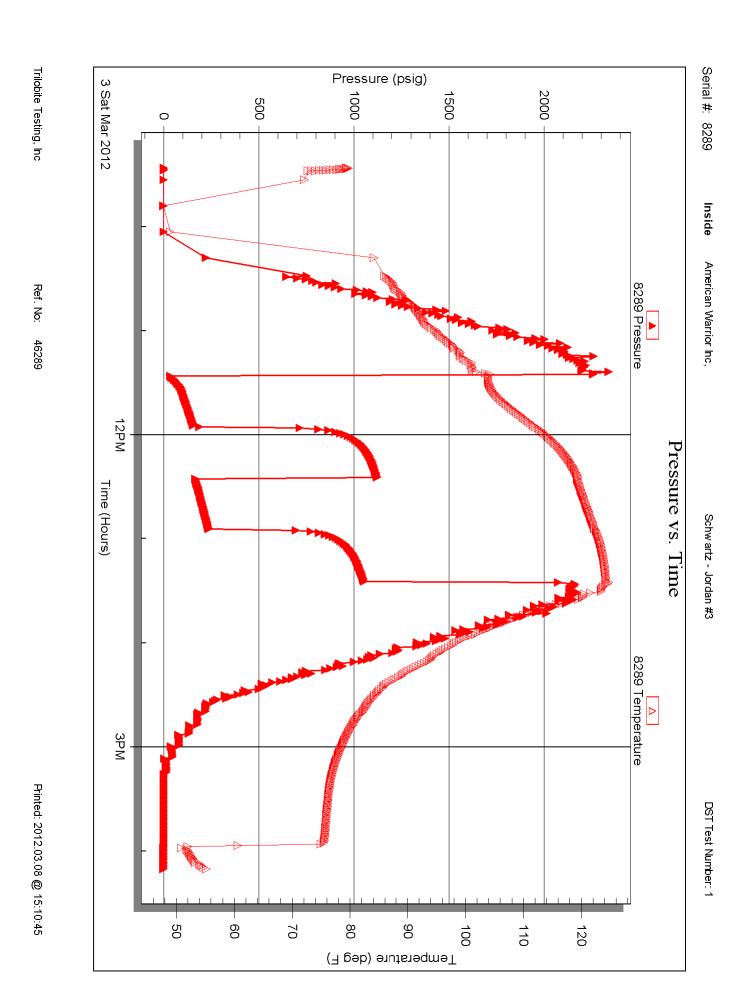
90

Temperature (deg F)

6

110

120





# RILOBITE

## Test

NO. P.O. Box 1733 · Hays, Kansas 6760 Test No. GL Elevation Address Co. Rep / Geo Location: Sec. Interval Tested Zone Tested Anchor Length Drill Pipe Run Mud Wt. Vis Top Packer Depth Drill Collars Run **Bottom Packer Depth** Wt. Pipe Run WL Total Depth Chlorides ppm System LCM Blow Description throughout %gas %oil %water %mud Rec Feet of GO %gas %oil %water %mud Rec Feet of 30 %gas %oil %mud %water Rec %gas Feet of %oil %mud Rec %water %oil %gas %water %mud Rec Feet of APIRW 22 Rec Total (A) Initial Hydrostatic T-On Location Test (B) First Initial Flow T-Started T-Open (C) First Final Flow Safety Joint T-Pulled (D) Initial Shut-In ☐ Circ Sub T-Out (E) Second Initial Flow ☐ Hourly Standby Comments 16RT 1102 (F) Second Final Flow Mileage (G) Final Shut-In ☐ Sampler (H) Final Hydrostatic ☐ Straddle ☐ Ruined Shale Packer ☐ Shale Packer Ruined Packer Initial Open ☐ Extra Packer ☐ Extra Copies Initial Shut-In □ Extra Recorder Sub Total Final Flow □ Day Standby Final Shut-In Accessibility MP/DST Disc't

Approved By Our Representative 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 résults 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.

Sub Total

1712.40