

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
October 2008  
Form Must Be Typed

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

OPERATOR: License # 4058

Name: American Warrior, Inc.

Address 1: PO Box 399

Address 2: \_\_\_\_\_

City: Garden City State: KS Zip: 67846 + 0399

Contact Person: Scott Corsair

Phone: (785) 398-2270

CONTRACTOR: License # 31548

Name: Discovery Drilling

Wellsite Geologist: Jason Alm

Purchaser: NCRA

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       SWD       SIOW
- Gas       ENHR       SIGW
- CM (Coal Bed Methane)       Temp. Abd.
- Dry       Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening       Re-perf.       Conv. to Enhr.       Conv. to SWD

Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Commingled      Docket No.: \_\_\_\_\_

Dual Completion      Docket No.: \_\_\_\_\_

Other (SWD or Enhr.?)      Docket No.: \_\_\_\_\_

08/18/2009      08/24/2009      10/20/2009

Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

API No. 15 - 135-24944-0000

Spot Description: \_\_\_\_\_

SE NW SE NE Sec. 01 Twp. 19 S. R. 22  East  West

1850 Feet from  North /  South Line of Section

720 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE     NW     SE     SW

County: Ness

Lease Name: Moore Well #: 3-1

Field Name: DeWald North

Producing Formation: Mississippian

Elevation: Ground: 2132' Kelly Bushing: 2140'

Total Depth: 4242' Plug Back Total Depth: 4242'

Amount of Surface Pipe Set and Cemented at: 1390 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ <sup>sq. amt.</sup>

AHT-Dlg-1/23/10

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 240 bbls

Dewatering method used: Hauled Free Fluids

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: H-D Oil Field Service, Inc.

Lease Name: Strecker #3 SWD License No.: 32970

Quarter SW Sec. 6 Twp. 19 S. R. 21  East  West

County: Ness Docket No.: D-19,026

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: \_\_\_\_\_

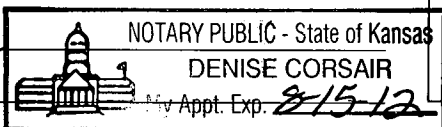
Title: Petroleum Engineer Date: 01/15/2010

Subscribed and sworn to before me this 15th day of January

20 10

Notary Public: Denise Corsair

Date Commission Expires: 8-15-12



**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: American Warrior, Inc. Lease Name: Moore Well #: 3-1  
 Sec. 01 Twp. 19 S. R. 22  East  West County: Ness

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run: <b>Dual Receiver Cement Bond</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1379</td> <td>+761</td> </tr> <tr> <td>Heebner</td> <td>3607</td> <td>-1467</td> </tr> <tr> <td>Lansing</td> <td>3653</td> <td>-1513</td> </tr> <tr> <td>BKC</td> <td>3978</td> <td>-1838</td> </tr> <tr> <td>Ft. Scott</td> <td>4060</td> <td>-2000</td> </tr> <tr> <td>Cherokee</td> <td>4160</td> <td>-2020</td> </tr> <tr> <td>Mississippian</td> <td>4220</td> <td>-2080</td> </tr> </table>	Name	Top	Datum	Anhydrite	1379	+761	Heebner	3607	-1467	Lansing	3653	-1513	BKC	3978	-1838	Ft. Scott	4060	-2000	Cherokee	4160	-2020	Mississippian	4220	-2080
Name	Top	Datum																							
Anhydrite	1379	+761																							
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BKC	3978	-1838																							
Ft. Scott	4060	-2000																							
Cherokee	4160	-2020																							
Mississippian	4220	-2080																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23	1390'	SMD	450	
Production	7 7/8"	5 1/2"	15.5	4241'	EA-2	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose: <input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
	Surface-1450	SMD	150	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	4223-4241'		

TUBING RECORD: Size: <u>2 3/8"</u> Set At: <u>4225'</u> Packer At: <u>NA</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>10/20/2009</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u> Gas Mcf _____ Water Bbls. _____ Gas-Oil Ratio _____ Gravity <u>40</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4223-4241' Perf</u>
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CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 16996

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Ness City WELL/PROJECT NO. 3-1 LEASE Moore COUNTY/PARISH Ness STATE KS CITY Ness City DATE 8-27-09 OWNER  
 2. TICKET TYPE  SERVICE CONTRACTOR N/A RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.  
 SALES  
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement Between 8 1/2" + 5 1/2" WELL PERMIT NO. WELL LOCATION Barone IS Winfo  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE T.A. # 114	20		mi		5.00	100.00
576S		1			Pump Charge	1		ea		750.00	750.00
581		1			Service Charge Cement	150		cb		1.50	225.00
582		1			Minimum Drainage Charge	1		ea		250.00	250.00
330		1			Swift Multi-Density Standard	150		cb		14.00	2100.00
276		1			Flocule	38		lb		1.50	57.00
290		1			D-Air	1		gal		35.00	35.00
RECEIVED JAN 25 2010											

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x Scott  
 DATE SIGNED 8-27-09 TIME SIGNED 1800  A.M.  P.M.

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

100 WICHITA SURVEY

AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	35700
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			TOTAL	3633.18

7055 TAX 5.3% 116.18

**JOB LOG**

**SWIFT Services, Inc.**

DATE 8-27-09 PAGE NO. 1

CUSTOMER American Hunter WELL NO. 3-1 LEASE Moore JOB TYPE Cement Between 8 7/8 & 5 1/2 TICKET NO. 16996

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								8 7/8 x 5 1/2
	1800							On Location Rig up
	1815			✓			500	Pressure 5 1/2 Casing
	1820	3		✓			400	Injection Rate Down Annulus
	1825	3	⊙	✓			400	Start Cement 12.8ppg 75skt
		3 1/2	27	✓			200	Mix Cement 11.8ppg 75skt
	1845		67	✓			300	Shut Down Shut in
								Wash Truck
	1900							Job Complete
								Thank You Burt Paveson



CHARGE TO: American Wellco  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 16988  
 PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Ness City, KS WELL/PROJECT NO. 3-1 LEASE Moore COUNTY/PARISH Ness STATE KS CITY Ness City DATE 8-14-09 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR Diamond Drilling Co RIG NAME/NO. 3 SHIPPED VIA Barrie DELIVERED TO Barrie ORDER NO.  
 3. WELL TYPE O.I WELL CATEGORY Development JOB PURPOSE Control Long St. 114 WELL PERMIT NO. WELL LOCATION Barrie  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
575		1			MILEAGE TRK # 114	20	mi			5.00	100.00
578		1			Pump Charge Long St. 114	1	ea			1400	1400.00
402		1			Control 11201	6	ea	5 1/2		50	300.00
403		1			Cement Bucket	1	ea	5 1/2		180	180.00
406		1			Latch Down Plug & Battle	1	ea	5 1/2		225	225.00
407		1			Insert Flat Shoe w/Autofill	1	ea	5 1/2		275	275.00
417		1			Rotating Head Rental	1	ea	5 1/2		150	0.00
221		1			Liquid KCL	2	gal			25	50.00
281		1			Mud Flush	500	gal			1.00	500.00

RECEIVED  
 JAN 25 2010

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 X [Signature]  
 DATE SIGNED 8-24-09 TIME SIGNED 2:00  P.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

KCC WICHITA SURVEY

AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	2060.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			Page # 2	3719.50
WE UNDERSTOOD AND MET YOUR NEEDS?			TAX	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			TOTAL	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				



**JOB LOG**

**SWIFT Services, Inc.**

DATE 8-27-09 PAGE NO. 7

CUSTOMER American World WELL NO. 3-1 LEASE Moore JOB TYPE Cement Logging TICKET NO. 16988

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								5 1/2 15.5#
								TD 4242' Total JTS-101
								TP-4246' Cent. 1, 2, 3, 4, 6, 9, 90
								SJ-42.70' Basket, 5
								BS@4241'
	2100							On Location
	2125							Start Casing
	2315							Break Circulation
	2350	6 3/4	32	✓			350	Pump Mod Flushes & KCL
	2356	3	7	✓				Plug Rat Hole 30sk
		3	5	✓				Plug Mouse hole 20sk
	005	4 1/2	5	✓			300	Start Cement 145sk @ 15.5ppg
	0015		35	✓				- Shut Down. Release Plug Wash Pumping Lines
	0020	6 3/4		✓			150	Start Displacement
		6 3/4	80	✓			300	Lift Cement
							750	Max Lift
	0035		100	✓			1500	Land Plug-Release-Held
								Wash Tank
	100							Job Complete
								Thank you Brett, Dave, Jason



CHARGE TO: American Wholesale Inc  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET

No 16572

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness City, KS  
 WELL/PROJECT NO. 3-1 LEASE MOORE COUNTY/PARISH Ness STATE Ks CITY DATE 8-19-09 OWNER SAME  
 2. TICKET TYPE  SERVICE CONTRACTOR DISCOVERY DRILL # 3 RIG NAME/NO. SHIPPED VIA CT DELIVERED TO LOUNTOWN ORDER NO.  
 3. WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE 8 5/8" SURFACE WELL PERMIT NO. WELL LOCATION BAZWE, KS - 1/2 S, W 200  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 110	20		ME		5.00	100.00
576D		1			PUMP CHARGE - DEEP SURFACE	1		JER	1390	1100.00	1100.00
221		1			RETURN KCL	2		GAL		25.00	50.00
281		1			MUDFLOSH	500		GAL		1.00	500.00
409		1			COMPRESSORS - TURBO	4		EA	8 5/8"	90.00	360.00
410		1			TOP PLUG	1		EA		100.00	100.00
412		1			RAFFLE PUTE	1		EA		100.00	100.00
330		1			SWIFT MULTI-DEWET STANDARD	450		SKS		14.00	6300.00
276		1			FLOCCLE	115		LBS		1.50	172.50
290		1			D-ADR	4		GAL		35.00	140.00
581		1			SERVICE CHARGE COMMENT	450		SKS		1.50	675.00
583		1			DRAINAGE	447.05		LBS	447.05 TM	1.00	447.05

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 8-19-09 TIME SIGNED 1530  
 A.M.  
 P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	10044.55
TAX	
TOTAL	

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES:** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: WANE WILSON

APPROVAL: WANE WILSON

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 8-19-09 PAGE NO.

CUSTOMER AMERICAN WOODROW INC. WELL NO. 3-1 LEASE MOORE JOB TYPE 8 5/8" SURFACE TICKET NO. 16572

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							ON LOCATION
	1630							START 8 5/8" CASING IN WELL
								TD-1390' SET= 1390
								TP-1390' 8 5/8" 23
								SJ-20'
								CENTRALIZERS - 4' UP, 3, 9, 27
	1750							BREAK CIRCULATION
	1820	6	12		✓		300	PUMP 500 GAL MUD FLUSH
	1822	6	20		✓		300	PUMP 20 BRIS KCL - FLUSH
	1835	6 1/2	76		✓			MIX CEMENT - 200 SKS - 12.5 PPG
		6 1/2	46		✓			150 SKS - 13.5 PPG
		6	28		✓			100 SKS - 14.0 PPG
	1859							RELEASE PLUG
	1900	6 1/2	0		✓			DISPLACE PLUG
	1914	4 1/2	87.7				375	PLUG DOWN - SHUT IN
								CIRCULATED 25 SKS CEMENT TO PZT
								WASH TRUCK
	2000							JOB COMPLETE
								THANK YOU
								WAWJE, JOSH F., LAJE

# Geological Report

American Warrior, Inc.  
**Moore #3-1**  
1850' FNL & 720' FEL  
Sec. 1 T19s R22w  
Ness County, Kansas

RECEIVED  
JAN 25 2010  
KCC WICHITA



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Moore #3-1  
1850' FNL & 720' FEL  
Sec. 1 T19s R22w  
Ness County, Kansas  
API # 15-135-24944-0000

Drilling Contractor: Discovery Drilling Co., Inc. Rig #3

Geologist: Jason Alm

Spud Date: August 18, 2009

Completion Date: August 24, 2009

Elevation: 2132' Ground Level  
2140' Kelly Bushing

Directions: Bazine KS, from the south side of town, South on DD rd. ¾ mi. just on north side of walnut creek turn west through cattle guard, west into location.

Casing: 1390' 8 5/8" surface casing  
4241' 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. "Tyson Flax"

Problems: None

Remarks: None

## Formation Tops

Formation	American Warrior, Inc. Moore #3-1 Sec. 1 T19s R22w 1850' FNL & 720' FEL
Anhydrite	1379', +761
Base	1416', +724
Heebner	3607', -1467
Lansing	3653', -1513
BKc	3978', -1838
Pawnee	4060', -1920
Fort Scott	4140', -2000
Cherokee	4160', -2020
Mississippian	4220', -2080
RTD	4242', -2102

## Sample Zone Descriptions

- Fort Scott (4140', -2000): Not Tested**  
 Ls – Fine crystalline with pinpoint inter-crystalline porosity, light scattered oil stain in porosity, slight show of free oil when broken, good yellow cut fluorescents, no odor, 11 units hotwire.
- Mississippian Osage (4220', -2080): Covered in DST #1**  
 Dolo – Δ – Fine sucrosic crystalline with fair to good vuggy porosity, heavy chert, triptolitic, weathered with good vuggy porosity, very heavy oil stain and saturation, good show of free oil, strong odor, good bright yellow cut fluorescents, 37 units hotwire.

## **Summary**

The location for the Moore #3-1 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 examined the decision was made to run 5 1/2 inch production casing to further evaluate the Moore #3-1 well.

## **Recommended Perforations**

**Mississippian Osage:           (4220' – 4242')                           DST #1**

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 36087

10/08

Well Name & No. Moore #3-1 Test No. 1 Date 8-24-09  
 Company American Warrior Elevation 2140 KB 2132 GL  
 Address PO Box 399 Garden City, KS  
 Co. Rep / Geo. Jason Alu Rig Discovery #3  
 Location: Sec. 1 Twp. 19<sup>s</sup> Rge. 22<sup>w</sup> Co. Ness State KS

Interval Tested 4222 - 4235 Zone Tested Muss  
 Anchor Length 13 Drill Pipe Run 4183 Mud Wt. 9.1  
 Top Packer Depth 4217 Drill Collars Run 30 Vis 54  
 Bottom Packer Depth 4222 Wt. Pipe Run — WL 8.8  
 Total Depth 4235 Chlorides 4000 ppm System LCM

Blow Description IFP- BOB in 24 min  
ISI - weak surface blow back died in 15 min  
FFP- BOB in 20 min  
FSI - weak surface blow back throughout

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>CO</u>				
<u>80</u>	<u>MCO</u>		<u>75</u>		<u>25</u>
<u>260</u>	<u>GTP</u>				

Rec Total 160 BHT 118 Gravity 38 API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2073  
 (B) First Initial Flow 21  
 (C) First Final Flow 46  
 (D) Initial Shut-In 1247  
 (E) Second Initial Flow 56  
 (F) Second Final Flow 77  
 (G) Final Shut-In 1215  
 (H) Final Hydrostatic 2030

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

RECEIVED  
 JAN 25 2010  
 KOCWICHITA

Test 7:20 T-On Location  
 Jars 7:40 T-Started  
 Safety Joint 9:52 T-Open  
 Circ Sub 11:52 T-Pulled  
 Hourly Standby 13:44 T-Out  
 Mileage 102 +  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies

Sub Total  
 Total

Approved By \_\_\_\_\_ Our Representative [Signature]

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 results 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.



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

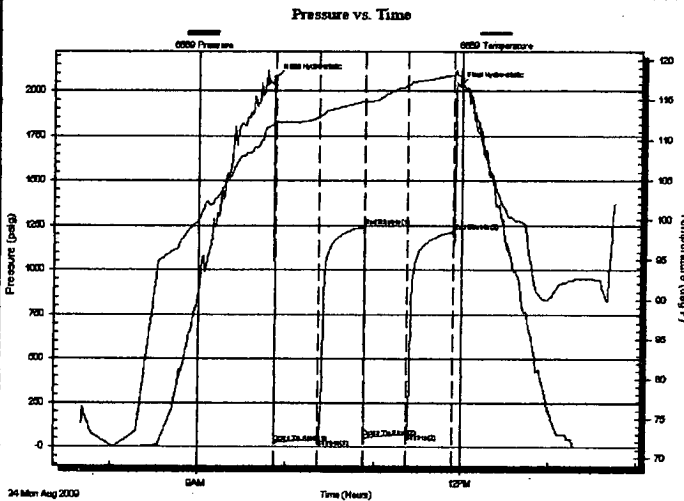
**Moore #3-1**  
**1-19s-22w/Ness**  
Job Ticket: 36037 **DST#: 1**  
Test Start: 2009.08.24 @ 07:40:29

**GENERAL INFORMATION:**

Formation: **Miss**  
Deviated: **No Whipstock** ft (KB)  
Time Tool Opened: **09:52:14**  
Time Test Ended: **13:44:44**  
Interval: **4222.00 ft (KB) To 4235.00 ft (KB) (TVD)**  
Total Depth: **4235.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Tyson Flax**  
Unit No: **44**  
Reference Elevations: **2140.00 ft (KB)**  
**2132.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 6669** **Inside**  
Press@RunDepth: **76.85 psig @ 4223.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2009.08.24** End Date: **2009.08.24** Last Calib.: **2009.08.24**  
Start Time: **07:40:29** End Time: **13:44:44** Time On Btrr: **2009.08.24 @ 09:51:44**  
Time Off Btrr: **2009.08.24 @ 11:57:44**

**TEST COMMENT:** FFP-BOB in 24 min  
ISI-Weak surface blow back died in 15 min  
FFP-BOB in 20 min  
FSI-Weak surface blow back throughout



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.74	112.51	Initial Hydro-static
1	21.29	112.30	Open To Flow (1)
31	46.13	112.90	Shut-In (1)
61	1241.97	114.86	End Shut-In (1)
62	55.91	114.67	Open To Flow (2)
91	76.85	116.85	Shut-In (2)
123	1214.93	118.13	End Shut-In (2)
126	2029.76	117.98	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
80.00	CO	0.86
80.00	MCO 75%O,25%M	1.13
0.00	260' GIP	0.00

**Gas Rates**

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

