

### Kansas Corporation Commission Oil & Gas Conservation Division

#### 1054105

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:	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:  feet depth to: w/ 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  Plug Back: Plug Back Total Depth	Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSecTwpS. R East West
☐ ENHR         Permit #:           ☐ GSW         Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date 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 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	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)						
(If vented, Sub	mit ACO-18.)	Other (Specify) _										

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	DSCOB Unit 1
Doc ID	1054105

# Tops

Name	Тор	Datum
Anhydrite	1384	753
Heebner	3614	-1477
Lansing	3660	-1523
ВКС	3986	-1849
Pawnee	4068	-1931
Ft. Scott	4148	-2011
Cherokee	4168	-2031
Mississippian	4244	-2107
TD	4252	-2115



		- CAN 1 (O)	ADDRESS
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TICKET 18986

Services, Inc.		1, 1, 0, 0, 0, 0			PAGE OF
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2.	TICKET TYPE CONTRACTOR	OR .	RIG NAME/NO	פרוססוס סויים אורים אורים	
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	-JWELL TYPE	WELL CATEGORY	JOB PURPOSE	WEIL DEBUT NO	
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4.	5/-	J. J. C. O. Way C	一のながれているできへのころです。		
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SWIRT OPERATOR

the fall

APPROVAL

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

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

SWIFT Services, Inc. **JOB LOG** WELL NO. CUSTOMER HALLSCAN WEST WE DOBTYPE COMPSON PORCE DSCOB PRESSURE (PSI) TIME DESCRIPTION OF OPERATION AND MATERIALS TUBING on beating bein Ring 8 Francy 1800 TRX 114 hook up to circulate 1925 6% Stat Marker 500gal mo Flock - 2010 KCC 32 SMDE 13.2/gd 1005/2 SMDE 13.2/gd 1005/2 SMDE 15:2/gd 1005/2 430 200 300 877 job complete 2040



TICKET 18992

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SWIRT OPERATOR

ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

Thank You!

SWIFT Services, Inc. DATES SEP 10 PAGENO. **JOB LOG** Husican Watrice WELL NO. Consent long string TICKET NO. 18992 DSC08 PUMPS PRESSURE (PSI) RATE 175 sts &A-Z Cent 1,2,34,77 Pash+ 84 TO 4252 102 juts 15.545\$ Shoe joint 42.37 on loc TRICIIH 0100 start pipe in rell 52 casing 0210 Drop Ball - circulate RUTATE 0340 Pung 500 gal MUDGEUSH 12 0405 Punp 20 bbl KCL 0415 20 Plug RH-MH (20sts-20sts) 0430 Mix count 15545 EA-2 15.4 ppg
Relate 4/2 0441 200 31 wish out pump & line Reliase Latel Down play 0505 Displace plug 634 200 0510 Plu down 0530 100 Resease pressure - held UNISH Truck 0540 Job Corplete 060

Dave Blin & Rus



# TICKET CONTINUATION

TICKET No. 18992

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ADDRESS	MARIES (L'Allie) Luc	CHARGE IO:

CITY, STATE, ZIP CODE

TICKET 18146

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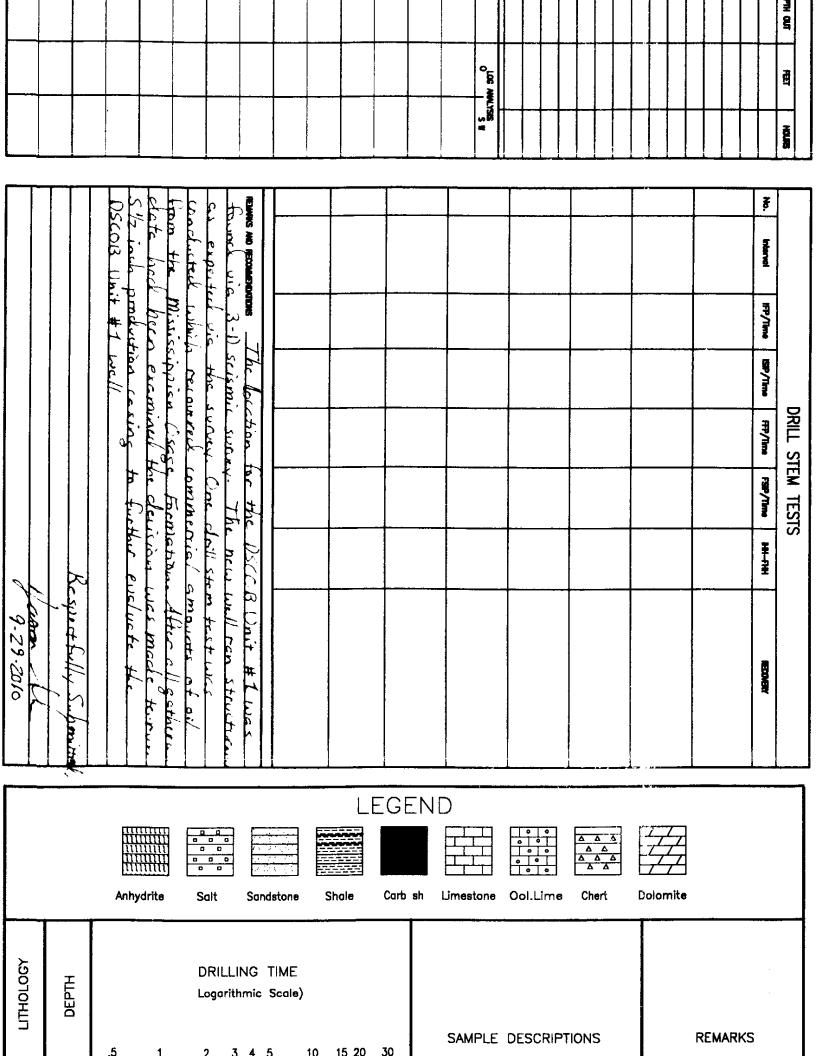
SWIFT OPERATOR

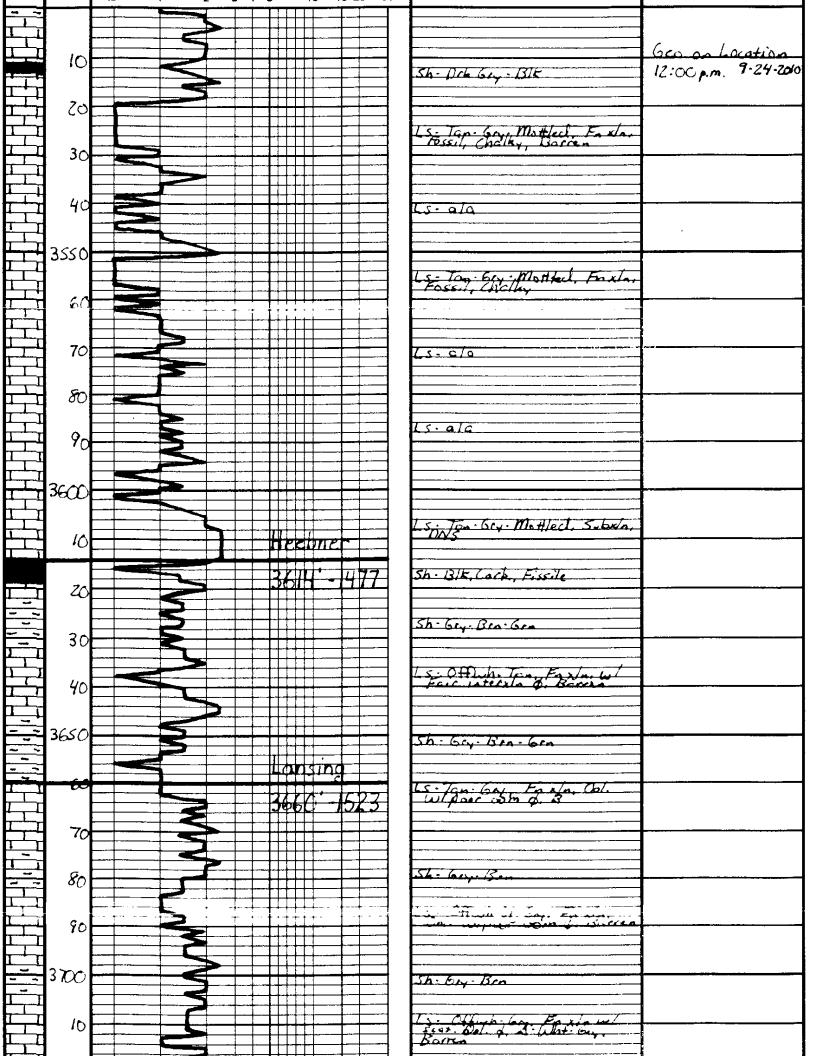
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES
APPROVAL

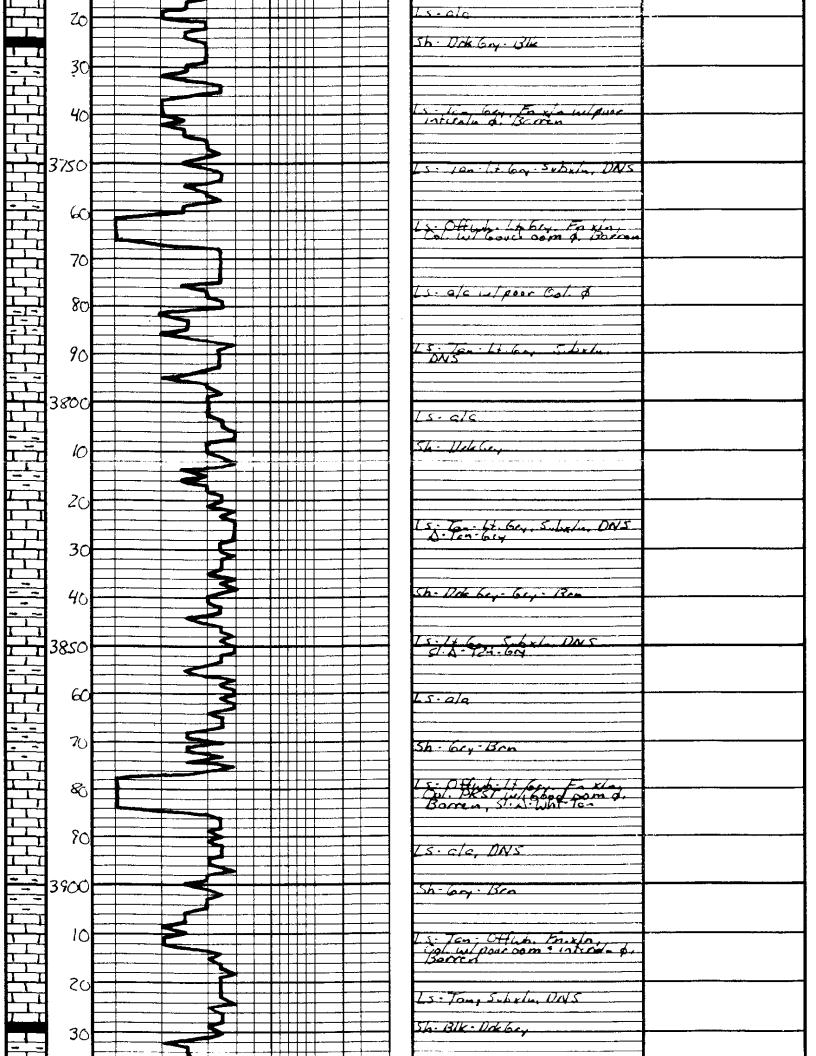
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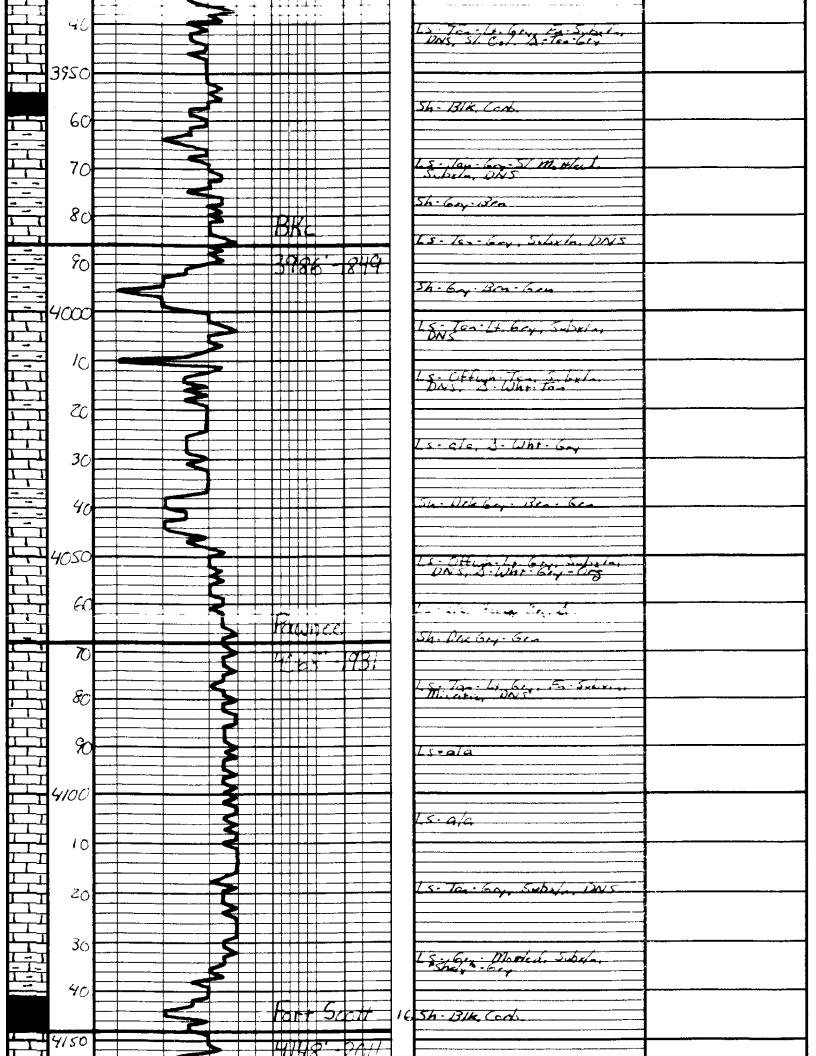
SWIFT Services, Inc. **JOB LOG** D. S. C. 6 B WELL NO. L'arrive, 18146 RATE (BPM) PRESSURE (PSI) DESCRIPTION OF OPERATION AND MATERIALS 16.30 Arr 5% 501 w Tite MIN 100 SA SMD @ 11.2 4/20 Hill to char Valia - Class in Primes resins pros 1730 406 Complete

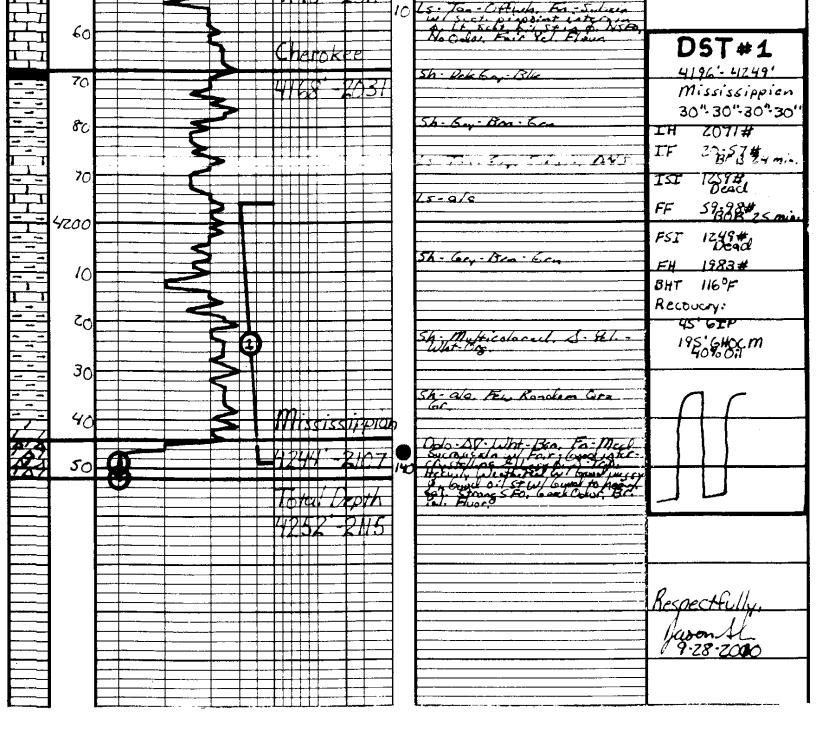
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39.5.				SURFACE 1400 878	a) Early of Assisting Co
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				KB_Z/37'	LEASE DSCOB Unit WELL NO. 1
				ELEVATION	OPERATOR American Warrior, Inc.
				)G	9
	-				GEOLOGIST'S REPORT
	-			15-135-25148-0COC	APT # 1S
					Hays, KS 67601
	_				Jason Aim Petroleum Geologist P.O. Box 1260
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# **Geological Report**

American Warrior, Inc.

DSCOB Unit #1
810' FSL & 650' FWL
Sec. 31 T18s R21w
Ness County, Kansas



American Warrior, Inc.

# **General Data**

Well Data:	American Warrior, Inc. DSCOB Unit #1 810' FSL & 650' FWL Sec. 31 T18s R21w Ness County, Kansas API # 15-135-25148-0000
Drilling Contractor:	Discovery Drilling Co., Inc. Rig #3
Geologist:	Jason Alm
Spud Date:	September 19, 2010
Completion Date:	September 26, 2010
Elevation:	2129' Ground Level 2137' Kelly Bushing
Directions:	Bazine KS, intersection of DD rd. and Hwy 96, 7/8 mi. South, East into location.
Casing:	1400' 8 5/8" surface casing 4251' 5 1/2" production casing
Samples:	10' wet and dry, 3500' to RTD
Drilling Time:	3500' to RTD

None

None

One, Trilobite Testing, Inc. "Jason McLemore"

Bit Trip during drilling of surface hole.

Electric Logs:

Drillstem Tests:

Problems:

Remarks:

# **Formation Tops**

	American Warrior, Inc.
	DSCOB Unit #1
	Sec. 31 T18s R21w
Formation	810' FSL & 650' FWL
Anhydrite	1384', +753
Base	1419', +718
Heebner	3614', -1477
Lansing	3660', -1523
BKc	3986', -1849
Pawnee	4068', -1931
Fort Scott	4148', -2011
Cherokee	4168', -2031
Mississippian	4244', -2107
RTD	4252', -2115

# **Sample Zone Descriptions**

#### **Fort Scott** (4148', -2011): **Not Tested**

Ls – Fine to sub crystalline with scattered pinpoint intercrystalline, light oil scattered oil stain in porosity, no show of free oil, no odor, fair yellow fluorescents, 10 units hotwire.

#### Mississippian Osage (4244', -2107): Covered in DST #1

Dolo –  $\Delta$  – Fine to medium sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, heavy chert, triptolic, heavily weathered with good vuggy porosity, good oil stain with good to heavy oil saturation, strong show of free oil, good odor, bright yellow fluorescents and strong cut fluorescents, 140 units hotwire.

# **Drill Stem Tests**

Trilobite Testing, Inc. "Jason McLemore"

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

Interval (4196' – 4249') Anchor Length 53'

IHP - 2071 #

IFP - 30" - B.O.B. 24 min. 20-57 #
ISI - 30" - Dead 1259 #
FFP - 30" - B.O.B. 25 min. 58-98 #
FSI - 30" - Dead 1249 #

FHP - 1983 # BHT - 116°F

Recovery: 45' GIP

195' GHOCM 40% Oil, 10% Gas

# **Structural Comparison**

	American Warrior, Inc. DSCOB Unit #1	American Warrior, Inc. V. Strecker #2-31		American Warrior, Inc. Stieben #2-36	
Formation	Sec. 31 T18s R21w 810' FSL & 650' FWL	Sec. 31 T18s R21w 100' FSL & 460' FWL		Sec. 36 T18s R22w 335' FSL & 335' FEL	
Anhydrite	1384', +753	1382', +752	(+1)	1382', +755	(-2)
Base	1419', +718	NA	NA	1412', +725	(-7)
Heebner	3614', -1477	3610', -1476	<b>(-1)</b>	3611', -1474	(-3)
Lansing	3660', -1523	3654', -1520	(-3)	3655', -1518	(-5)
BKc	3986', -1849	NA	NA	3982', -1845	(-4)
Pawnee	4068', -1931	4058', -1924	<b>(-7)</b>	4061', -1924	(-7)
Fort Scott	4148', -2011	4140', -2006	(-5)	4140', -2003	(-8)
Cherokee	4168', -2031	4160', -2026	(-5)	4161', -2024	(-7)
Mississippian	4244', -2107	4244', -2110	(+3)	4236', -2099	<b>(-8)</b>

# **Summary**

The location for the DSCOB Unit #1 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 1/2 inch production casing to further evaluate the DSCOB Unit #1 well.

## **Recommended Perforations**

**Primary:** 

Mississippian Osage (4244' – 4249') DST #1

**Before Abandonment:** 

**Fort Scott:** (4150' – 4156') **Not Tested** 

Respectfully Submitted,

Jason Alm Hard Rock Consulting, Inc.



#### DRILL STEM TEST REPORT

American Warrior Inc

DSCOB Unit #1

PO Box 399

31-18s-21w-Ness

Tester:

Unit No:

Garden City, KS. 67846

Job Ticket: 39009 DST#: 1

ATTN: Jason Alm

Test Start: 2010.09.25 @ 12:59:08

Jason McLemore

2129.00 ft (CF)

#### **GENERAL INFORMATION:**

Formation: Mississippi

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

Time Tool Opened: 14:52:23 Time Test Ended: 18:51:38

Interval: 4196.00 ft (KB) To 4249.00 ft (KB) (TVD) Reference Elevations: 2137.00 ft (KB)

Total Depth: 4249.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 8.00 ft

ble Diameter: 7.80 Inches Hole Condition: Good KB to GR/CF: 8.00

Serial #: 6668 Inside

Press@RunDepth: 97.89 psig @ 4232.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2010.09.25
 End Date:
 2010.09.25
 Last Calib.:
 2010.09.25

 Start Time:
 12:59:10
 End Time:
 18:51:38
 Time On Btm:
 2010.09.25 @ 14:51:53

Time Off Btm: 2010.09.25 @ 16:54:23

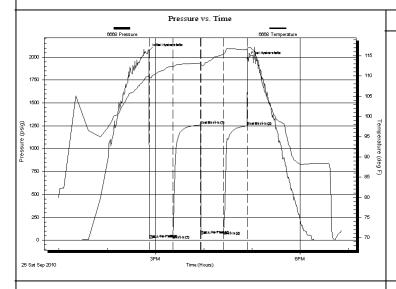
32

TEST COMMENT: IFP-Good Blow ,BOB in 24 Min.

ISI-Dead

FFP-Good Blow, BOB in 25 Min.

FSI-Dead



P	KESSUR	E SUMMARY
essure	Temp	Annotation

DDECCLIDE CLIMANADY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2071.41	110.33	Initial Hydro-static
1	20.07	109.50	Open To Flow (1)
30	57.41	112.33	Shut-In(1)
65	1259.14	113.19	End Shut-In(1)
65	58.91	112.79	Open To Flow (2)
93	97.89	115.46	Shut-In(2)
123	1249.48	116.42	End Shut-In(2)
123	1983.17	116.95	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
195.00	Gassy HOCM	2.74
0.00	45' Gas In Pipe	0.00

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 39009 Printed: 2010.09.25 @ 21:45:35 Page 1



# DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior Inc

**DSCOB Unit #1** 

PO Box 399

31-18s-21w-Ness

Garden City, KS. 67846

Job Ticket: 39009

DST#: 1

ATTN: Jason Alm

Test Start: 2010.09.25 @ 12:59:08

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

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

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4900.00 ppm Filter Cake: inches

Water Loss:

## **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
195.00	Gassy HOCM	2.735
0.00	45' Gas In Pipe	0.000

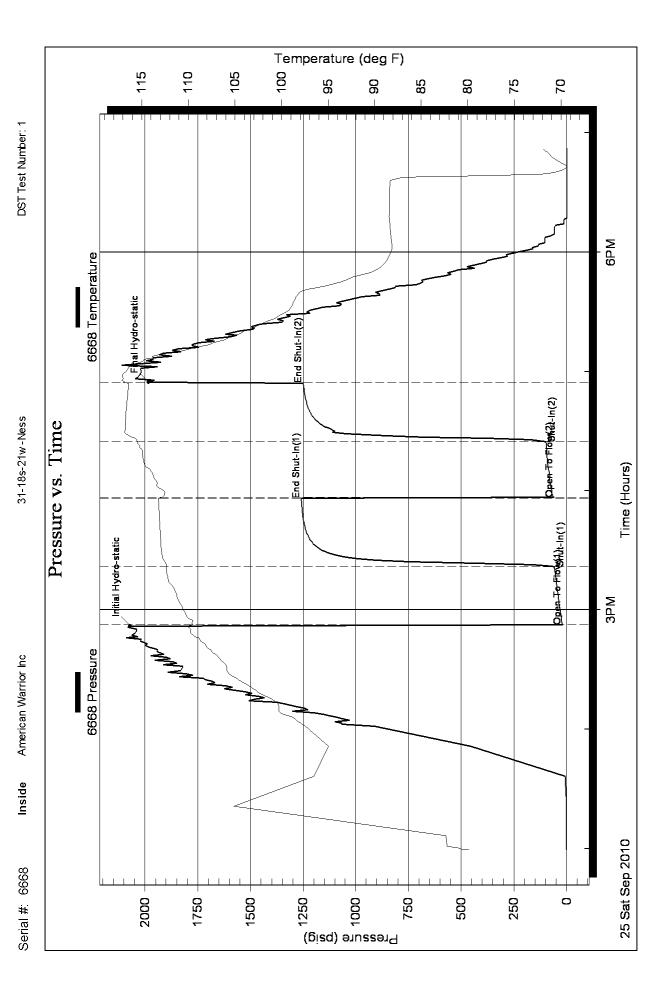
Total Length: 195.00 ft Total Volume: 2.735 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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