

## Kansas Corporation Commission Oil & Gas Conservation Division

### 1089667

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:	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	Amount of Surface Pipe Set and Cemented at: Feet
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? Yes No
☐ OG ☐ GSW ☐ Temp. Abd.	If yes, show depth set:Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	W ox oma
Operator:	Delling Florid Management Plan
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content:ppm Fluid volume:bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	
Conv. to GSW	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 #:	
ENHR Permit #:	QuarterSecTwpS. R East West
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 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	Perforate Top Bottom Type of Cernent  Protect Casing Plug Back TD					Type and F	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 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	LEHMAN 1-22
Doc ID	1089667

# Tops

Name	Тор	Datum
Anhy	1649	+767
B/Anhy	1678	+738
Heebner	3829	-1413
Lansing	3874	-1458
B/KC	4256	-1840
Marmaton	4282	-1866
Ft.Scott	4410	-1994
Cherokee	4434	-2018
Mississippian	4516	-2100

# **Geological Report**

American Warrior Inc.

Lehman #1-22

2650' FNL & 1410' FEL

Sec. 22 T21s R25w

Hodgeman County, Kansas



American Warrior, Inc.

## **General Data**

Well Data:

American Warrior, Inc.

Lehman #1-22

2650' FNL & 1410' FEL Sec. 22 T21s R25w Hodgeman County, Kansas API # 15-083-21681-0000

Drilling Contractor:

Duke Drilling Co. Rig #5

Geologist:

Jason Alm

Spud Date:

November 2, 2010

Completion Date:

November 9, 2010

Elevation:

2405' Ground Level 2416' Kelly Bushing

Directions:

Ness City KS, South on Hwy 283 to Ave X, West

on Ave X for 7 mi to 210 rd. South 2 1/2 mi. on 210

rd. West into location.

Casing:

223' 8 5/8" surface casing

4599' 5 1/2" production casing

Samples:

10' wet and dry, 4100' to RTD

Drilling Time:

3700' to RTD

Electric Logs:

Log-Tech, Inc. "Jared Long"

CNL/CDL, DIL, MEL

Drillstem Tests:

One, Trilobite Testing, Inc. "Shane McBride"

Problems:

None

Remarks:

None

# **Formation Tops**

	American Warrior, Inc.
	Lehman #1-22
	Sec. 22 T21s R25w
Formation	2450' FNL & 1410' FEL
Anhydrite	1649', +767
Base	1678', +738
Heebner	3829', -1413
Lansing	3874', -1458
Stark	4155', -1739
BKc	4256', -1840
Marmaton	4282', -1866
Pawnee	4363', -1947
Fort Scott	4410', -1994
Cherokee	4434', -2018
Mississippian	4516', -2100
LTD	4600', -2184
RTD	4600', -2184

# **Sample Zone Descriptions**

# Mississippian

(4516, -2100): Covered in DST #1

Dolo – Fine to medium sucrosic crystalline with fair to good intercrystalline and vugular porosity, light to fair oil stain and saturation in porosity, fair to good show of free oil, bright yellow fluorescents, good odor, 60 units hotwire.

# **Drill Stem Tests**

Trilobite Testing Inc. "Shane McBride"

<b>DST #1</b>	Missis	ssippian	
	Interv	al (4455' - 4525') Anchor Length 70'	
	IHP	- 2238 #	
	IFP	-45" – Built to 3 ¼ in.	19-56 #
	ISI	- 45" - Dead	1129 #
	FFP	-45" – Built to 3 ¼ in.	61-88 #
	FSI	- 45" - Dead	1099 #
	FHP	- 2143 #	
	BHT	_118°F	

Recovery:

126' GIP

60' GCO

120' SGOCM

30% Oil

# **Structural Comparison**

	American Warrior, Inc.	Petroleum, Inc.		Kenosha Resources	
	Lehman #1-22	Clark O #2		Clark #1	
	Sec. 22 T21s R25w	Sec. 22 T21s R25w		Sec. 22 T21s R25w	
Formation	2450' FNL & 1410' FEL	C NW SE		4620' FSL & 660' FEL	
Anhydrite	1649', +767	NA	NA	1616', +769	(-2)
Base	1678', +738	NA	NA	NA	NA
Heebner	3829', -1413	3832', -1408	(-5)	3803', -1418	(+5)
Lansing	3874', -1458	3878', -1454	(-4)	3850', -1465	(+7)
Stark	4155', -1739	NA	NA	NA	NA
BKc	4256', -1840	NA	NA	4244', -1859	(+19)
Marmaton	4282', -1866	4294', -1870	(+4)	4266', -1881	(+15)
Pawnee	4363', -1947	NA	NA	NA	NA
Fort Scott	4410', -1994	NA	NA	4393', -2008	(+14)
Cherokee	4434', -2018	NA	NA	4420', -2035	(+17)
Mississippian	4516', -2100	4540', -2116	(+16)	4497', -2112	(+12)



# ALLIED CEMENTING CO., LLC. 042159

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

DATE 11-3-10 7	C.	TWP.	RANGE	CALLED OUT	ON LOCATION 5.3000	JOB START	JOB FINISH
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TUBING SIZE		DE	PTH				Spiration design
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CHARGE TO:	
HMERICAN WARRIOR	
ADDRESS	
CITY, STATE, ZIP CODE	

TICKET 19861

PAGE	OF
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SERVICE LOCATIONS 1.		WELL/PROJECT NO. LE								STATE 165.	JETMORE, KS. 34				ATE OWNER			
2.		TICKET TYPE SERVICE SALES	T TYPE CONTRACTOR RIG NAME/NO. SHIPPED VIA					DELIVERED	TID			ORDER NO.						
4. REFERRAL LOCATION		WELL TYPE  O 1 L  INVOICE INSTRU	CTIONS			DELOPMENT PERF SQUEEZE / PORT COLLAR			WELL PERMI	T NO.		100	NTOXRD, 8W, 255, WILLIE					
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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			SWIFT SERVICES, INC.  WE UNDERST MET YOUR NE OUR SERVICE PERFORMED			DS?	AY?											
			P.O. BOX 466  WE OPERATED AND PERFORM CALCULATIONS						Hodgina 7-45	(1)	268	139						
DATE SIGNED		TIME SIGNED	500	D A.M.		785-798-2300		TISFIED WITH OUR SERVICE?  YES NO  CUSTOMER DID NOT WISH TO RESPOND				TOTAL	TOTAL		4/0			
				OF MA		CES The customer hereby ack	knowledges receipt o	f the materials	and ser	vices listed or	n this tick	et.		Thank "	You			

JOB LOG

SWIFT Services, Inc.

DATE 24NOVID PAGE NO.

STOMER	CAN WAS	RRIDR	WELL NO.			LEASE	AN 1-	22 JOB TYPE SQUEEZE / FORE COLLAR TICKET NO. 19861
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM	PS C	PRESSURI TUBING	E (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
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	1420							WASH TRUCK
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	-	Contraction						



CHARGE TO:	Λ	1000	
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CITY, STATE, ZIP CO	DDE	-1-198	

TICKET

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			Deciman design			CES The customer hereby ack					Cont. (100-100-100-100)				A SECOND PROPERTY.

SWIFT OPERATOR

AB Courtell

APPROVAL

The customer hereby acknowledges receipt of the materials and services listed on this ticket



## DRILL STEM TEST REPORT

American Warrior Inc

p.o. box 399

67846

Garden City, Ks

ATTN: Jason Alm

Lehman #1-22

22-21s-25w Ness, Ks

Job Ticket: 039693

DST#: 1

Test Start: 2010.11.08 @ 10:25:46

**GENERAL INFORMATION:** 

Formation: Miss

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

Time Tool Opened: 12:02:16 Time Test Ended: 18:00:16

Interval: 4455.00 ft (KB) To 4525.00 ft (KB) (TVD)

Total Depth: 4525.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Tester: Shane McBride

Unit No: 40

Reference Elevations:

2416.00 ft (KB)

2405.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6667 Inside

Press@RunDepth: 88.45 psig @ 4456.00 ft (KB) Capacity: 8000.00 psig

Time

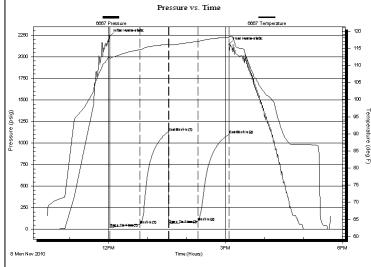
 Start Date:
 2010.11.08
 End Date:
 2010.11.08
 Last Calib.:
 2010.11.08

 Start Time:
 10:25:46
 End Time:
 17:42:16
 Time On Btm:
 2010.11.08 @ 12:02:01

 Time Off Btm:
 2010.11.08 @ 15:05:46

TEST COMMENT: 3 1/4"in blow

No return 3"in blow No return



	(Min.)	(psig)	(deg F)	
	0	2237.92	112.47	Initial Hydro-static
	1	19.84	111.97	Open To Flow (1)
	46	55.84	114.57	Shut-In(1)
Τρ	90	1129.69	116.13	End Shut-In(1)
eame	91	61.87	115.87	Open To Flow (2)
en re	136	88.45	116.98	Shut-In(2)
neh)	183	1099.32	118.19	End Shut-In(2)
9	184	2142.52	118.44	Final Hydro-static

PRESSURE SUMMARY

Pressure Temp Annotation

#### Recovery

Length (ft)	Description	Volume (bbl)
60.00	c g o 2%g 98%o	0.30
120.00	s g o c m 5%g 30%o 65%m	0.59
0.00	126' w eak gas in pipe	0.00

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

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# DRILL STEM TEST REPORT

**FLUID SUMMARY** 

American Warrior Inc

Lehman #1-22

22-21s-25w Ness, Ks

p.o. box 399 Garden City, Ks

ATTN: Jason Alm

Job Ticket: 039693

DST#: 1

67846

\_

Test Start: 2010.11.08 @ 10:25:46

#### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:37 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:62.00 sec/qtCushion Volume:bbl

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

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 7000.00 ppm Filter Cake: 1.00 inches

### **Recovery Information**

Water Loss:

#### Recovery Table

Length ft	Description	Volume bbl
60.00	c g o 2%g 98%o	0.295
120.00	s g o c m 5%g 30%o 65%m	0.590
0.00	126' w eak gas in pipe	0.000

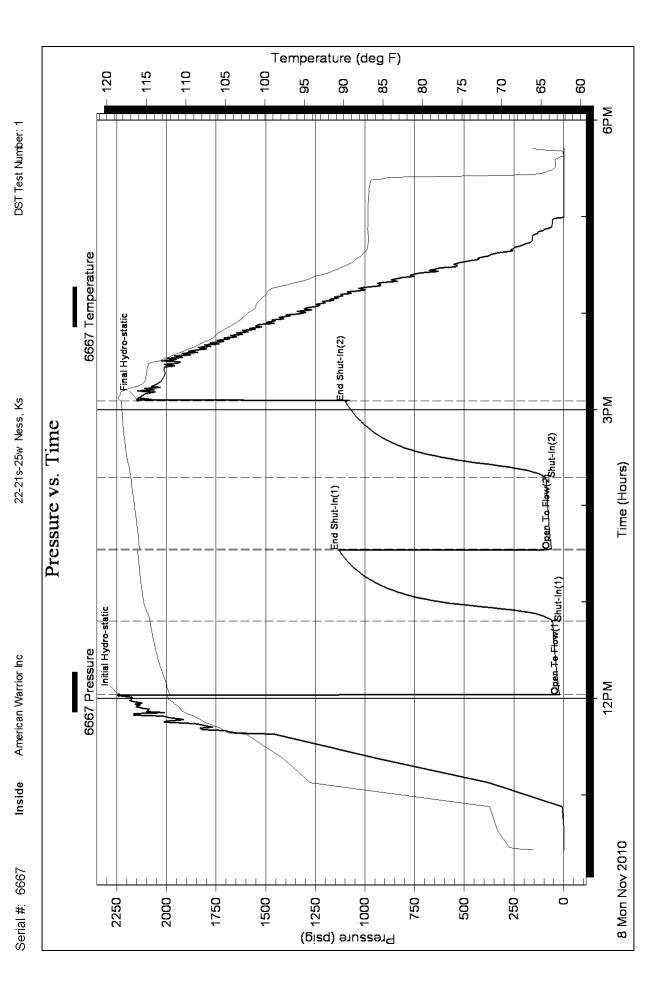
Total Length: 180.00 ft Total Volume: 0.885 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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	1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Λ	CHARGE TO:
	in Waters	HYMOTOGRA	
			ADDRESS
			OUT . OT . TO . OO.
-		DE	CITY, STATE, ZIP COI

TICKET	
19167	

PAGE	OF
1	1 2

SERVICE LOCATIONS 1.	WELL/PROJECT NO.	LEASE Lehman	COUNTY/PARISH	STATE	ness city	DATE OWNER
2.	TICKET TYPE   CONTRACTOR   SERVICE   SALES	Duris	RIG NAME/NO.	SHIPPED	DELIVERED TO	ORDER NO.
3. 4.	WELL TYPE		Centent less ston	c	WELL PERMIT NO.	WELL LOCATION  22-215 25W HG
REFERRAL LOCATION	INVOICE INSTRUCTIONS		CIA MALE COLOR			

PRICE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		1	DECODINE					UNIT		
REFERENCE		LOC	ACCT		DESCRIPTION	QTY.	U/M	QTY.	U/M	PRICE	AMOUNT	
575		1			MILEAGE TREE 114	30	u.			5 00	150 00	
578		7			Pump Charge		100			1400 00	1400 00	
402					Controlizers	54	in	9	29	55 00	495 0	
403					Coment Baskets 1	51	ie	2	0a	200 00	400 00	
404		1			Port Collar	52	in	1	199	1900,00	1900 00	
406		1			LAtch down plus & bookle	5±	in	1	184	22500	225/00	
407		1			Insigt float shoe sel Auto Kill	53	in	1	24	27500	275,00	
419		1			Rotating Head Pental	5±	Ha	1	04	150 00	150 00	
					O A A A A A A A A A A A A A A A A A A A					j		
		RIFI										
1865						W 5 11		134				
						ari e			i			

**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
DATE SIGNED TIME SIGNED A.M.
P.M.

**REMIT PAYMENT TO:** 

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

SURVEY	AGREE	UN- DECIDED	DIS- AGREE		4995	38
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL		
WE UNDERSTOOD AND MET YOUR NEEDS?	Land?				72	30
OUR SERVICE WAS PERFORMED WITHOUT DELAY?	1	1 8 9			75 77	28
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX		
ARE YOU SATISFIED WITH OUR SE		NO				
CUSTOMER DID NOT	WISH TO F	RESPOND		TOTAL		

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

JOB LOG CUSTOMER SWIFT Services, Inc.

DATES MOV 10 PAGE NO

STOMER	nes.con U	artion	WELL NO.	22	LEASE Lev	man	JOB TYPE Coment long string	TICKET NO. 19167
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE		DESCRIPTION OF OPERATION A	
							1755/s EAZ W/ hal	
							TD 4600 110 15 17"	始55
ings i							Popl coller = 72 16/	(450)
							Contra 120 1357,911	
							Baskets 13, 72	
	140						onloc TRK 114	
	1700						steet 53 174 Cosing	in mall
	Gill							
	1855						Drop Bill circulate	Robete
	0000	43				200	0 -1 - 0	
	2000	43	12			uo	Pump son gal mentilush	
	2005	43	70			200	Puro 20 bbl KCL flee	L
	2008		12				-Ply P/1-14/1- (3	1 sts - 20sh
	2012	45,	30			250	MX Court 125545 8	4.2 154pps
2	1.30	17					max const	110
							LAST out DUND & lines	
							7	
	2015						Deop lotely down plug	
	2028	63	0			250	Displace plus	
			A RESIDENCE					
	2045	634	106		150-	1500	Plug diem	
	2050						Delver som a L. La	1 - 4- 1 -
	201						Relate pressure to true	e - arreaup
							Wash truck	
	- 45							
	2120						job complete pla	w
							the Que LARE, Bla	
			Salana .				1 West 1	
		1100						THE PERSON NAMED IN



PO Box 466

## TICKET CONTINUATION

No. 19167

**CONTINUATION TOTAL** 

Ness City, KS 67560 CUSTOMER WELL DATE PAGE 1-22 Services. American Worrior Off: 785-798-2300 Lehmein ACCOUNTING SECONDARY REFERENCE/ PRICE UNIT TIME DESCRIPTION AMOUNT REFERENCE PART NUMBER U/M PRICE ACCT DF QTY. QTY. U/M TANDARD coment 283 SERVICE CHARGE **CUBIC FEET** MILEAGE TOTAL WEIGHT CHARGE LOADED MILES TON MILES