CONSERVATION DIVISI WICHITA, KS

CONFIDENTIAL

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 4058	API No. 15 - 009-25,062 -00 -60
Name: American Warrior, Inc.	County: Barton
Address: P. O. Box 399	SW_NE_NW Sec. 3 Twp. 18 S. R. 13 East West
City/State/Zip: Garden City, KS 67846	961 FNL feet from S / N (circle one) Line of Section
Purchaser: NCRA	
Operator Contact Person: Joe Smith	feet from E / W (circle one) Line of Section Footages Calculated from Nearest Outside Section Corner:
Phone: (620) 275-2963 AUG 0 7 2007	
Contractor: Name: Petromark Drilling, LLC	(circle one) NE SE NW SW Lease Name: LUDWIG Well #: 2-3
License: 33323 CONFIDENTIAL	Field Name: Wildcat
Wellsite Geologist: Marc Downing	Producing Formation: Kansas City
Designate Type of Completion:	Elevation: Ground: 1821' Kelly Bushing: 1826'
New Well Re-Entry Workover	Total Depth: 3380' Plug Back Total Depth: 3348'
OilSWDSIOWTemp. Abd.	720
Gas SIGW Iemp. Abd.	Amount of Surface Pipe Set and Cemented at 720 Feet
Dry Other (Core, WSW, Expl., Cathodic, etc)	Multiple Stage Cementing Collar Used? ☐ Yes ✓ No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth setFeet
Operator:	If Alternate II completion, cement circulated from
	feet depth tosx cmt.
Well Name:	Drilling Fluid Management Plan A.F. TAF3509
Original Comp. Date:Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 9000 ppm Fluid volume 300 bbls
Plug Back Total Depth	Dewatering method used Removed Off-Site
Commingled Docket No.	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	Operator Name: American Warrior, Inc.
Other (SWD or Enhr.?) Docket No.	Lease Name: Dove 2-34 SWD License No.: 4058
6-16-07 6-21-07 7-6-07	
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter SE Sec. 34 Twp. 17 S. R. 13 ☐ East ✔ West County: BARTON Docket No.: D-21,992
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 12 107 for confidentiality in excess of 12 months). One copy of all wireline logs a TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	or or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, tules and regulations promulgated to regulate the regulation of the statutes and regulations from the state of my knowledge.	e the oil and gas industry have been fully complied with and the statements
Signature: My O // We -	KCC Office Use ONLY
Compliance Coordinator Date: 8-7-07	Letter of Confidentiality Received
Subscribed and sworn to before me this The day of lugust	If Denied, Yes Date:
0	Wireline Log Received
	Geologist Report Received RECEIVED
Notary Public Puer Public State	MEIER UIC Distribution KANSAS CORPORATION COMM
Date Commission Expires: 091209 My Appt. Expires 09120	
	9 AUG 0 9 2007
1. The state of th	real or appropriate and entitle

KCC

	_{ame:} American Warrior, Inc.			Leas	e Name:	LUDWIG		Well #: 2-3	3 AUG 0 7 2007
Sec. 3 Twp. 1			t 🗹 West		ty: Barto				CONFIDENT
NSTRUCTIONS: Si ested, time tool oper emperature, fluid red flectric Wireline Log	n and closed, flowir covery, and flow rate	ng and shu es if gas to	t-in pressure: surface test,	s, whether : , along with	shut-in pre	essure reache	d static level, hyd	rostatic pressu	ests giving interval res, bottom hole led. Attach copy of all
rill Stem Tests Take (Attach Additional		VY	es No		VL	og Forma	ation (Top), Depth	and Datum	Sample
amples Sent to Geo		□ Y	es 🗹 No		Nam	_e Anhydrite		Тор 725	Datum -1101
ores Taken		□ Y	es 🗸 No			Anhydrite		749	-1077
ectric Log Run		V	es No		Tope	•		2697	-871
(Submit Copy)					Hee			2981	-1155
st All E. Logs Run:					Torc			2996	-1170
oual Compens	sated Porosity	Log; So	nic Ceme	ent '	LKC			3086	-1260
	al Induction Lo				BKC	;		3310	-1484
					Arbu	ıckle	r	3312	-1486
	·	Repo		G RECORD		w Used rmediate, produ	uction, etc.		•
Purpose of String	Size Hole Drilled		e Casing t (In O.D.)		eight . / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12-1/4"	8-5/8"		23#		720'	Common	425 sx	3 % cc & 2 % gel
Production Pipe	e 7-7/8"	5-1/2"		14#		3372'	EA2	150 sx	Flocele
			ADDITIONA	AL CEMENT	ING / SQL	JEEZE RECOF	RD.		
Purpose: Perforate Protect Casing	Depth Top Bottom	Туре	of Cement	#Sacks Used Type and Percent Additives					S
Plug Back TD Plug Off Zone						7			
Shots Per Foot			ID - Bridge Pli Each Interval P				acture, Shot, Cemer Amount and Kind of M		rd Depth
	3162' to 3174'					FE Acid 15	00 Gal 15%		
					·				
UBING RECORD	Size	Set At		Packer	At	Liner Run	Yes V No)	
ate of First, Resumerd	1 Production, SWD or E	≣nhr.	Producing Me	ethod	I	✓ Pump	oing Gas Li	ft Oth	er (Explain)
stimated Production Per 24 Hours	Oil N/A	Bbis.	Gas N/A	Mcf	Wate N/A	r	Bbls. (Gas-Oil Ratio	Gravity
isposition of Gas	METHOD OF (COMPLETIO	N .			Production Inte	erval		DEC-
									RECEIVED AS CORPORATION COMMIS



CHARGE TO: AMERICAN WARRIOR	0 =
ADDRESS	264
CITY, STATE, ZIP CODE	- AS C

TICKET

Nº 11546

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1	PAGE	OF	
	1	2	

i					<u> </u>	
SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE OWNER
1. HA-45	- a-3	LUDWIG .	BARTON 5	Us		06.21.07
2. NES	TICKET TYPE CONTRACTOR		1		DELIVERED TO	ORDER NO.
_	SERVICE SALES		PETROMARY DRUCA 2	VIA Ci Z	1/20, Siuro HOISINGTON	5
3.	WELL TYPE	WELL CATEGORY J	OB PURPOSE	, , , , , , , , , , , , , , , , , , , ,		WELL LOCATION -
4.	DIL	DEVELOP	LOWESTRING		15-009-25062	53,718.PB
REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE	SECONDARY REFERENCE/		ACCOUNTING	G	DECODION	<u> </u>				UNIT		44000	
REFERENCE	PART NUMBER	roc	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	PRICE		AMOUN ¹	i
525		1			MILEAGE # 105	60	m			4	סס	240	100
578		. /			Pump Service)	 EA		I L	1250	1	1250	100
231		1			LIQUID MCC	a	CAL			26	ಣ	Ğà	loo
281	- Parisage	1			MUDFLUSH	500	GAL			:	75	375	 ბე
290		1			D-AIR	1	GAL		1 	<i>ને</i>	00	3,2	00
4/02		1			CENTRALIZER	8	EA	5%	w	95	00	760	la
403		1			CMT BASILY	2	EA	5/2	ر را	290	α	250	 ひ <u>ン</u>
406	CANS	1		ļ	Trees FLOAT SACE YANTOFILL		EA	5%	 //~	- 235	∞	એસડ	00
407	CO A (S CO T	1			Freger FLOM SHOE YANTOFILL	1	EA	51/2	/~		රු	310	$\frac{1}{\infty}$
	RECEIV DRPORATION UG 0 9 SERVATION WICHTA												<u> </u>
	EIVERTION ATION CHITA				·								j
	200												

LEGAL TERMS: Customer Pereby acknowledges and agrees to the terms and conditions on the reverse sideneeof 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

TIME SIGNED

SWIFT SERVICES, INC. P.O. BOX 466

REMIT PAYMENT TO:

NESS CITY, KS 67560 785-798-2300

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

ARE YOU SATISFIED WITH OUR SERVICE?

☐ YES

CUSTOMER DID NOT WISH TO RESPOND

SATISFACTORILY?

SURVEY

UN- DIS-DECIDED AGREE AGREE

■ NO

3544 PAGE TOTAL PU-2 3441

P6-1

sub 6985

TOTAL Barton

TAX .55%

TOTAL

7299

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

SWIFT OPERATOR

APPROVAL

☐ A.M.

ECP.M.

Thank You!



SECONDARY REFERENCE/

PART NUMBER .

PRICE REFERENCE

325

TICKET CONTINUATION

MILEAGE TOTAL WEIGHT

CHARGE

LOADED MILES

No. 11546

PO Box 466 Ness City, KS 67560 Off: 785-798-2300

ACCOUNTING

a

LOC ACCT DF

WELL 2-3 CUSTOMER AMERICAN WARRIOR DATE 06-21-07 LUDWIG UNIT L DESCRIPTION AMOUNT TIME OTY UM aty. UM EA.2 CMT 570 51 FLOCELE. · 1125 125 200 ILB 160 bo SALT 30 240 00 CALSEAL 3/2 4100 CFP 100 181 165 154 1110 150 SERVICE CHG CMT DRAYACE 516 51687 ∞ SERVICE CHARGE CUBIC FEET

TON MILES

CONTINUATION TOTAL 3441.62

SWIFT Services, Inc. JOB LOG CUSTOMER AWI WELL NO. つづ LEASE LUNUIG LONGSTRING PRESSURE (PSI) DESCRIPTION OF OPERATION AND MATERIALS TUBING 130 DNLOCATION, DISCUSS JOB, 16SEA-2 CMT P70337, Sora 3379, SJ 2249, Trang 3356 5/214 asi **WCC** CENT 1, 3, 5, 7,9,11,13, 15 BASHET ON 4 CONFIDENTIAL 1140 ST. CSG - FLOATERY TAG BOTTEM - DROP BALL 0/0 HOSHUP @ ALEGES BREIN CIRC OUS 4 PLUG RAT HOLE 0200 60 CNQS 0 ملالم ST: MUDFLUSH 12 ST. HCLFLUSH 32 ENDFLUSIES 50 Dalo ST. EA.2 CMI *2*00 36.5 END CMT WASH PC. - DROPLATON DOWN PLUS 0220 60 0 ST. DISA *∿*છ 20) 46 CONTON BOTTEM 60 350 450 65 650 70 700 ゞ 817 D215 40 LAND PLUG RELEASE - DRY! 0240 WASHUP RACHUP 7101015 JOB COMPLETE 0330 RECEIVED KANSAS CORPORATION COMMISSION THANNYOU! DAVE, BEALLE, JEKE AUG 0 9 2007 CONSERVATION DIVISION WICHITA, KS

ALLIED CEMENTING CO., INC.

30184

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665		SERV	/ICE POINT: 	3
DATE 0-16-07 SEC 3 TWP & RANGE 3	CALLEDOG	ON LOCATION	JORSKARD	10191189
LEASURING WELL# 2-3 LOCATION Ho.'sin	atan 15 A	on 4 Ha	<u> </u>	STATE
OLD OR(NEW (Circle one)	_	15		
CONTRACTOR Petromark Ry 2	OWNER			
TYPE OF JOB Surface HOLE SIZE 124 T.D. 72817	CEMENT			
CASING SIZE 8-3 DEPTH 720 LA		DERED 429	5 sk Co	nnen
TUBING SIZE DEPTH			2854	
DRILL PIPE DEPTH				
TOOL DEPTH	G0\0\40\1	110501	0 4.0	10,700
PRES. MAX MINIMUM MEAS. LINE SHOE JOINT	COMMON POZMIX	40 KUS	_ <i>@//,.11</i> 2 	47/750
CEMENT LEFT IN CSG. 45	GEL GEL	<u> </u>	_@	133.80
PERFS.	CHLORIDE	13 set	@ 46.60	605.80
DISPLACEMENT 43 66 h	ASC		@	
EQUIPMENT			_@	
		vcc.	_ @	
PUMPTRUCK CEMENTER Mile		C 0.7 2007	_@	
# A17 HELPER RICK H,	AU	6 0 7 XUU	_ @ _ @	
BULK TRUCK	CO	NFIDENTIAL	_	
# 344 DRIVER David Ja			@	
BULK TRUCK			@	- <u> </u>
# DRIVER	HANDLING_	44624		847.46
	MILEAGE	446NLC		<u>481.6</u>
REMARKS:			TOTAL	678,5,5
Circulate Hole with Rig Mud				
Pump, mix Coment +		SERVIO	CE	
Relove Phus Down with water		B 7200	11	
Coment did Circulate To	DEPTH OF JO PUMP TRUCK			81500
Sur face	EXTRA FOOT	7	'@ .4 5	273.00
	MILEAGE	12.		
	MANIFOLD.		@	
	HEAD XE	UTAL		100,00
			_@	
CHARGE TO: Hmerican Warrior			TOTAL	1260.00
STREET			IOIAL	100.00
CITYSTATEZIP				
	Ì	PLUG & FLOAT	EQUIPMEN	NT
Thank				
2/1/4/11	1-858	ubber phag	_@_ <i>_100.0</i> 2	100.00
You			_ @	
To Allied Cementing Co., Inc.			_ @	
You are hereby requested to rent cementing equipment	* S	- # - · · · · · · · · · · · · · · · · ·	_	
and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was				
done to satisfaction and supervision of owner agent or			TOTAL	100.00
contractor. I have read & understand the "TERMS AND				
CONDITIONS" listed on the reverse side.	TAX		:	
i I	TOTAL CHAR	GE	1	N. x
	DISCOLINT		IE DAT	D IN 30 DAYS
	DISCOUNT —		ır ral	פוואַט מכיאוו ס
man mill	T	Mich	10.	
SIGNATURE from 1 / Pollo	$-\mathcal{J}/\gamma$	PRINT	ED NAME	
17		PRIMI		

Geological Report

American Warrior Inc. Ludwig #2-3 961' FNL & 1514' FWL Sec. 3 T18S R13W Barton County, Kansas

Marc Downing Consulting Petroleum Geologist

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American Warrior, Inc.

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General Data

Well Data:

American Warrior Inc.

Ludwig #2-3 S/2 S/2 SE

961' FNL & 1514' FWL Sec. 3 T. 18S R. 13 W. Barton County, Kansas API # 15-009-25062-0000

Drilling Contractor:

Petromark Rig #2

Spud Date:

June 6, 16, 2007

Completion Date:

June 21, 2007

Elevation:

1821' Ground Level 1826' Kelly Bushing

Directions:

Hoisington, KS, East 1 1/2 miles on Highway 4,

South into.

Casing:

729' 8 5/8" surface casing 3374' 5 1/2" production pipe

Samples:

10' wet and dry, 2650' to RTD

Drilling Time:

2600' to RTD

Electric Logs:

Log-Tech - J. Loffredi

Density Neutron, Dual Induction, Micro

Drillstem Tests:

Two, Trilobite Testing Inc. "Travy Cushenbery"

Problems:

Gas detector malfunction during shallow gas

intervals.

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Formation Tops

Αm	erican	. Wa	FFIOR	. Inc.

Ludwig #2-3 Sec. 3 T18S R13W **Formation** 961' FNL & 1514' FWL Anhydrite 725' (+1101) Base 749' (+1077) Herrington 1602' (+224) Topeka 2697' (-871) Heebner 2981' (-1155) **Toronto** 2996' (-1170) 3009' (-1183) Douglas Sh. Brown Lm. 3068' (-1242) 3086' (-1260) Lansing **BKC** 3310' (-1484) 3312' (-1486) Arbuckle

Sample Zone Descriptions

RTD

LTD

LKC G-zone 3164 (-1338):

LS: White, oolitic w/ very good oolicastic porosity. Many barren rocks, scattered good stain and good gassy show free oil. Good odor. 146 unit gas kick.

3380' 3375'

LKC H-zone 3213 (-1387):

LS: White, oolitic w/ few fossils. Good oolicastic porosity w/ good stain and good gassy show free oil. Fair-good odor. 28 unit gas kick.

LKC I-zone 3234 (11408):

LS: white, oblitic w/ some fossils. Slight inter-oblitic porosity w/ dead oil stain. No show free oil, no odor.

Arbuckle 3312 (-1486):

DOLO: white-tan, fine sucrossic crystalline, few rhombs. Good inter-crystalline porosity in part, slight brown stain w/ fair spotted show free oil. Many barren rocks, good odor. Few very tight rocks w/ gilsonite stain.

Arbuckle 2nd break:

DOLO: white, medium-coarse rhombohedral crystalline, mostly all barren. Few scattered fine sucrossic crystalline rocks w/ light brown stain and saturation w/ spotted show free oil. Light odor.

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Drill Stem Tests

Trilobite Testing Inc. Travy Cushenbery

DST #1

LKC - H zone

Interval: 3204-3226 Times: 30-30-30-30

I.F. $\left|-\frac{1}{8}\right|$ blow, died 25 min.

I.S.I. – dead

F.F! - 1/8" blow. F.S.I. – dead

HP: 1662-1581#

BHT: 104° F

Recovery:

1' mud

DST #2

Arbuckle: Straddle

Interval: 3284-3318 Times: 30-30-60-60

 $I.F. + 1 \frac{1}{2}$ ". I.S.I. – dead

F.F. – BOB 20 min.

F.S.I. - dead

HP: 1691-1655# BHT: 109° F

Initial pressures are inaccurate. The packer seat was lost but regained during initial shut-in, due to tool sliding after open. Final pressures are true.

IFP: 19-18#

FFP: 19-18#

IFP: 27-1419#

FFP: 139-231#

ISI: 1695#

FSI: 907#

ISI: 26#

FSI: 21#

Recovery:

248' mud

62' OCM (30%O, 70%M)

124' WOCM (30%O, 24%W)

124' OCWM (10%O, 24%W)

Chlorides = 16,000 ppm

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Structural Comparison

	American Warrior, Inc. Ludwig #2-3 961' FNL & 1514' FWL Barton Co., KS	Benson Mineral Group, Inc. Morrison #1 NW NE NW Barton Co., KS
	15-009-25062-0000	15-009-21265-0000
Formation		
Anhydrite	725' (+101)	(+1100) +1
Base	749' (+1077)	NA
Herrington	1602' (+224)	NA
Topeka	1602' (-871)	(-868) -3
Heebner	2981' (-1155)	(-1152) -3 _.
Toronto	2996' (-1170)	(-1166) -4
Douglas Sh.	3009' (-1183)	Na
Brown Lm.	3068' (-1242)	(-1241) -1
LKC	3086' (-1260)	(-1258) -2
BKC	3310' (-1484)	NA
Arbuckle	3312' (-1486)	(-1483) -3

Summary

The Ludwig #2-3 ran slightly low structurally to the neares producing well. Due to sample shows and log interpretation, it was decided to run 5 ½" production pipe for completion in the Arbuckle and LKC.

Recommended Perforations

LKC G zone

3167-74 (first, squeeze if wet)

Arbuckle:

3312-16

Respectfully Submitted,

Marc Downing

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