

10/2/09
Form ACO-1
September 1999
Must Be Typed

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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 4058
Name: American Warrior, Inc.
Address: P. O. Box 399
City/State/Zip: Garden City, KS 67846
Purchaser: N/A
Operator Contact Person: KEVIN WILES, SR
Phone: (620) 275-2963
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Marc Downing

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
8-29-07 9-3-07 9-12-07
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 185-23,462 - 00 - 00
County: Stafford County, KS
S/2 SE Sec. 16 Twp. 21 S. R. 13 East West
1200 FSL feet from S / N (circle one) Line of Section
1300 FEL feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Grow "A" Well #: 4-16
Field Name: Shaffer-Rothgarn
Producing Formation: Arbuckle
Elevation: Ground: 1886' Kelly Bushing: 1894'
Total Depth: 3770' Plug Back Total Depth: 3736'
Amount of Surface Pipe Set and Cemented at 301 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.

Drilling Fluid Management Plan API N531105
(Data must be collected from the Reserve Pit)
Chloride content 12,000 ppm Fluid volume 300 bbls
Dewatering method used Hauled Off-Site
Location of fluid disposal if hauled offsite: _____
Operator Name: American Warrior, Inc.
Lease Name: Koopman (Hazel) 4 License No.: 4058
Quarter NE Sec. 20 Twp. 21 S. R. 13 East West
County: Stafford Docket No.: D-02,934

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: [Signature]
Title: Compliance Coordinator Date: 10-2-07
Subscribed and sworn to before me this 2nd day of October,
2007.
Notary Public: [Signature]
Date Commission Expires: 09/2/09

ERICA KUHLMIEIER
Notary Public - State of Kansas
My Appt. Expires 09/2/09

KCC Office Use ONLY
 Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
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CONSERVATION DIVISION
WICHITA, KS

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Operator Name: American Warrior, Inc. Lease Name: Grow "A" Well #: 4-16
 Sec. 16 Twp. 21 S. R. 13 East West County: Stafford County, KS

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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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Top Anhydrite	755 +1138
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Anhydrite	788 +1117
List All E. Logs Run:		Heebner	3193 -1297
		Toronto	3213 -1318
		LKC	3330 -1435
		BKC	3551 -1656
		Simpson Sh.	3598 -1703
		Arbuckle	3647 -1752

Sonic Cement Bond Log, Microresistivity Log, Dual Induction Log, Dual Compensated Porosity Log,

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 Pipe	12-1/4"	8-5/8"	23#	301'	Common	300 sx	3% cc 2% gel
Production	7-7/8"	5-1/2"	14#	3768'	Standard	165 sx	

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

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	3671' TO 3675'	NONE	same
4	3658' TO 3662	NONE	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	3760'	NONE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
SI			<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N/A	N/A	N/A		

Disposition of Gas: Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: _____

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ALLIED CEMENTING CO., INC.

30274

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

OCT 02 2007

SERVICE POINT:

M.B.

DATE <u>8-29-07</u>	SEC <u>16</u>	TWP <u>21</u>	RANGE <u>13</u>	KCC CALLED <u>7 AM</u>	ON LOCATION <u>11:30 AM</u>	JOB START <u>2 PM</u>	JOB FINISH <u>3 PM</u>
LEASE <u>Grow</u>	WELL # <u>"A" 4-16</u>	LOCATION <u>Barton + Stafford 2345</u>	COUNTY <u>Stafford</u>	STATE <u>K.S.</u>			
OLD OR NEW (Circle one) <u>NEW</u>		<u>w/s</u>					

CONTRACTOR Duke Rig &

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 301 ft

CASING SIZE 8 3/4 DEPTH 301 ft

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT 18 bbl

OWNER _____

CEMENT AMOUNT ORDERED 300 Mt Common

32cc 2 gel

COMMON	<u>300 Mt.</u>	@	<u>11.10</u>	<u>3330.00</u>
POZMIX		@		
GEL	<u>6 Mt.</u>	@	<u>16.65</u>	<u>99.90</u>
CHLORIDE	<u>9 Mt.</u>	@	<u>46.60</u>	<u>419.40</u>
ASC		@		

HANDLING	<u>315 Mt</u>	@	<u>1.90</u>	<u>598.50</u>
MILEAGE	<u>315 Mt</u>	@	<u>10</u>	<u>283.50</u>

TOTAL 4731.30

EQUIPMENT

PUMP TRUCK CEMENTER Mike M.

120 HELPER David J.

BULK TRUCK DRIVER Kevin

_____ DRIVER _____

REMARKS:

Circulate Hole with
Rig mud pump
Mix Cement + Release the
Plug Displace Plug Down
with water

Cement did Circulate
to surface

SERVICE

DEPTH OF JOB	<u>301 ft</u>		
PUMP TRUCK CHARGE			<u>85.00</u>
EXTRA FOOTAGE	<u>1</u>	@	<u>.65</u>
MILEAGE	<u>10</u>	@	<u>6.00</u>
MANIFOLD		@	
<u>HEAD PUMP</u>		@	<u>100.00</u>

TOTAL 975.65

CHARGE TO: American Warrior

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>1-8 3/4 wooden Plugbox</u>			<u>60.00</u>
	@		
	@		
	@		
	@		

TOTAL 60.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment 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 contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

STEVE H. STEPHENS
PRINTED NAME

JOB LOG

SWIFT Services, Inc.

DATE 9-4-07 PAGE NO. 1

CUSTOMER American Warriors, Inc. WELL NO. 4-16 LEASE Grow "A" JOB TYPE Cement Logging TICKET NO. 12471

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430					14 [#] /A	5 1/2	On location
	1430							Start 5 1/2" casing
								Insert float shoe w/ Auto fill on bottom
								Latch down Baffle 1st collar (55 22')
								Centralizers on collars 2-5-7-10-13-15
								and 18 and cut Basket JT #4
								Drop ball 4 JTs off bottom
	1555							Fin Run cong - Hook up and
	1600							start cir cong - (Desco Mud)
	1700							Fin cir
	1705		5					Plug RH & WH (15 SKS)
	1710	5	12			200		Pump 500 gal Mud flush
		5	20			200		Pump 2000 200 KCL flush
	1720	5	(36)			200		Start mixing 150 SKS Standard EA-2
	1730	5	73			120		Fin mixing and
						0		Wash Pump & Lines
								Release Plug. CONFIDENTIAL
	1735	7				300		Start Displ. OCT 02 2007
		7	20			400		70 Displ KCC
		7	75			500		75 Displ slow rate
		6	90			800		90 Displ
	1755		91 1/2			800 1500		Plug down - hold
								Release & hold
	1800							Wash up & Pack up
								<i>Mark</i>
	1830							Don J Blain & Rob

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WICHITA, KS

Geological Report

American Warrior Inc.
Grow "A" #4-16
1200' FSL & 1300' FEL
Sec. 16 T21S R13W
Stafford County, Kansas

Marc Downing
Consulting Petroleum Geologist

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General Data

Well Data: American Warrior Inc.
Grow "A" #4-16
N/2 S/2 C SW
1200' FSL & 1300' FEL
Sec. 16 T. 21S R. 13 W.
Stafford County, Kansas
API # 15-185-23462-0000

Drilling Contractor: Duke Drilling, Rig #8

Spud Date: 8-29-07

Completion Date: 9-4-07

Elevation: 1887' Ground Level
1895' Kelly Bushing

Directions: Great Bend, south to county line, 2 3/4mi south,
west into.

Casing: 294' 8 5/8" surface casing
3767' 5 1/2" production pipe

Samples: 10' wet and dry, 3100' to RTD

Drilling Time: 2900' to RTD

Electric Logs: Log-Tech - J. Martin
Density Neutron, Dual Induction, Micro

Drillstem Tests: Three, Trilobite Testing Inc. "Leal Cason"

Problems: Bit trip @ 3071'. Gas Detector malfunction after
DST #2

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Formation Tops

	American Warrior, Inc.
	Grow "A" #4-16
	Sec. 16 T21S R13W
Formation	1200' FSL & 1300' FEL
Anhydrite	755' (+1138)
Base	778' (+1117)
Heebner	3193' (-1298)
Toronto	3213' (-1318)
Douglas Sh.	3227' (-1332)
Brown Lm.	3316' (-1421)
Lansing	3330' (-1435)
BKC	3551' (-1656)
Conglomerate	3560' (-1665)
Simpson Sh.	3598' (-1703)
Arbuckle	3647' (-1752)
RTD	3770'
LTD	3768'

Sample Zone Descriptions

LKC B-zone 3350 (-1455):

LS: white, some fossils, dolomitic in part. Good inter-crystalline w/ some Pip-point and vugular porosity. Good stain w/ scattered gassy show free oil. Fair-good odor. 30 unit gas kick.

LKC C-zone 3372 (-1477):

LS: white-cream, medium dolomitic-crystalline. Good inter-crystalline porosity. Good stain w/ spotted show free oil. Light odor.

LKC E-zone 3399 (-1504):

LS: white, fossiliferous and oolitic, dolomitic in part. Very good vugular and inter-crystalline porosity w/ very good stain and some total saturation. Good – very good gassy show free oil when broken. Free oil on cup. Good odor. Green fluorescence, some white chert. 18 unit gas kick.

LKC G-zone 3414 (-1519):

LS: white – tan turning dolomitic. Good inter-crystalline and pin-point porosity w/ few vugs. Good stain and very good saturation w/ good show free oil, slightly gassy. Good odor. 22 unit gas kick.

LKC H-zone 3450 (-1555):

LS: tan-white, oolitic w/ very good oolitic porosity. Good stain and some total saturation. Good gassy show free oil. Good-very good odor. Friable. Free oil on cup. 96 unit gas kick.

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LKC I-zone 3472 (-1577):

LS: brown-tan, oolitic. Few oolitic rocks. Mostly good inter-oolitic and vugular porosity. Good stain and saturation w/ good gassy show free oil. Fair-good odor. Yellow-green fluorescence. 45 unit gas kick.

LKC J-zone 3490 (-1595):

LS: tan-brown, fossiliferous and oolitic, dolomitic in part. Very good inter-crystalline and pin-point porosity w/ few vugs. Very friable. Good stain and some total saturation. Very good show free oil, gassy in part. Good odor. Green fluorescence. 30 unit gas kick.

LKC K-zone 3510 (-1615):

LS: tan-brown, fine crystalline, fossiliferous in part. Fair vugular porosity, fair brown stain w/ slight spotted show free oil. No odor.

Conglomerate 3560 (-1755):

Few pieces of white LS. Much chert, white, tan, red. Free oil on sample cup w/ slight edge stain. Good odor.

Arbuckle 3647 (-1752):

DOLO: tan, medium sucrosic-crystalline and tie, turning fine sucrosic-crystalline w/ few medium rhombs. Good inter-crystalline porosity, good stain and saturation w/ good show free oil when broken. Fair odor. Turning tan-brown, fine-medium rhombohedral crystalline. Scattered good inter-crystalline porosity w/ good stain and some total saturation. Good show free oil. Fair-good odor. Free oil on cup. Scattered very good inter-crystalline porosity w/ few vugs.

Drill Stem Tests

Trilobite Testing Inc.
Leal Cason

DST #1

LKC - B zone

Interval: 3358-3368

Times: 45-45-45-45

I.F. - fair. BOB 25 min.

I.S.I. - dead

F.F. - fair. BOB 43 min

F.S.I. - dead

HP: 1639-1527#

BHT: 107° F

IFP: 175-201#

ISI: 748#

FFP: 264-267#

FSI: 745#

Recovery: 180' GIP

45' GOCM (10%O, 86%M)

120' MCW (80%W)

240' W

Chlorides = 28,000 ppm

DST #2

LKC - H, I, J zones

3443-3502

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30-30-30-30
 I.F. – strong. BOB 45 sec. IFF: 342-644#
 I.S.I. – dead ISI: 969#
 F.F. – strong. BOB 3 min. FFP: 737-855#
 F.S.I. – dead FSI: 973#
 HP: 1678-1615#
 BHT: 109° F

Recovery:
 365' GOWCM (5%G, 5% O, 42%W)
 420' GOMCW (5%G, 5%O, 78%W)
 840' W
 Chlorides = 17,000 ppm

DST #3

Arbuckle
 3654-3665 (straddle off log)
 30-45-30-45
 I.F. BOB 20 sec. IFF: 552-1223#
 I.S.I. – dead ISI: 1246#
 F.F. – 690-863 FFP: 690-863#
 F.S.I. – BOB 1 ½ min. FSI: 1162#
 HP: 1817-1795#
 BHT: 112° F

Recovery: 120' GIP
 85' gassy oil
 2040' gssy slt MCO (20%G, 72%O)
 Gravity = 34 API @ 74° F

Structural Comparison

	American Warrior, Inc. Grow "A" #4-16 1200' FSL & 1300' FEL Stafford Co., KS 15-185-23462-0000	American Warrior, Inc. Grow "A" #2-16 50's-NW SW SE Stafford Co., KS 15-185-23123-0000
Formation		
Anhydrite	755' (+1138)	FL
Base	778' (+1117)	FL
Heebner	3193' (-1298)	(-1305) +7
Toronto	3213' (-1318)	(-1322) +4
Douglas Sh.	3227' (-1332)	(-1336) +4
Brown Lm.	3316' (-1421)	(-1426) +5
LKC	3330' (-1435)	(-1438) +3
BKC	3551' (-1656)	(-1662) +6
Conglomerate	3560' (-1665)	(-1670) +5
Simpson Sh.	3598' (-1703)	(-1704) +11
Arbuckle	3647' (-1752)	(-1757) +5

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Summary

The Grow "A: #4-16 ran structurally similar, slightly high on most tops, to all nearby wells. The Arbuckle came in at 3647' (-1752), the highest in the quarter. Two DST's were run in the LKC, recovering mostly water. The Arbuckle was tested, recovering 2125' of mostly oil. It was decided by all concerned parties to run 5 1/2" production pipe for further production in the Arbuckle.

Recommended Perforations

Arbuckle:	3714-3718 (first, squeeze if wet)
	3671-3675 •
	3658-3662 •
Conglomerate:	3568-3590
LKC: I	3471-3480
E	3400-3404 (before abandonment)

Respectfully Submitted,

Marc Downing

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