

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1230694

Form ACO-1
August 2013
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:			Sec	Twp S. R [East West					
Address 2:			Feet from North / South Line of Section							
City: Sta	ıte: Zip	D:+	Feet from East / West Line of Section							
Contact Person:			Footages Calculated from Nearest Outside Section Corner:							
Phone: ()			□ NE □ NW	□ SE □ SW						
CONTRACTOR: License #			GPS Location: Lat:	, Long:						
Name:				g. xx.xxxxx) (e.	gxxx.xxxxx)					
Wellsite Geologist:			Datum: NAD27 N							
Purchaser:			County:							
Designate Type of Completion:			Lease Name:	Well #: _						
New Well Re-E	=ntrv	Workover	Field Name:							
	_		Producing Formation:							
☐ Oil ☐ WSW	SWD	SIOW	Elevation: Ground:	Kelly Bushing:						
☐ Gas ☐ D&A	☐ ENHR	☐ SIGW	Total Vertical Depth:	Plug Back Total Depth:_						
OG CM (Coal Bed Methane)	☐ GSW	Temp. Abd.	Amount of Surface Pipe Set a	and Cemented at:	Feet					
Cathodic Other (Core,	Evol etc.):		Multiple Stage Cementing Collar Used? Yes No							
If Workover/Re-entry: Old Well Info					Feet					
Operator:				nent circulated from:						
•			' '	w/						
Well Name: Original Comp. Date:			loot doptii to.	w/	ox ome.					
-	_	NHR Conv. to SWD								
Deepening Re-perf. Plug Back	Conv. to GS		Drilling Fluid Management (Data must be collected from the							
Commingled	Permit #:		Chloride content:	ppm Fluid volume:	bbls					
☐ Dual Completion	Permit #:		Dewatering method used:							
SWD	Permit #:		Location of fluid disposal if ha	auled offsite:						
ENHR	Permit #:		Operator Name:							
GSW	Permit #:			Licence #						
				License #:						
Spud Date or Date Read	ched TD	Completion Date or		TwpS. R						
Recompletion Date		Recompletion Date	County:	Permit #:						

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										
Confidentiality Requested										
Date:										
Confidential Release Date:										
Wireline Log Received										
Geologist Report Received										
UIC Distribution										
ALT I II Approved by: Date:										

Page Two



Operator Name:				Lease N	Name: _	Well #:						
Sec Twp	S. R	East	West	County	i							
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ing and shut-in pressu	ires, whet	her shut-in pre	ssure reacl	ned stati	c level, hydrosta	tic pressures, bott					
Final Radioactivity Log files must be submitte						gs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital ele	ectronic log		
Drill Stem Tests Taken (Attach Additional S		Ye	s No		L		n (Top), Depth an					
Samples Sent to Geol	ogical Survey	Ye	s No		Nam	е		Тор	Dat	um		
Cores Taken Electric Log Run		☐ Ye ☐ Ye										
List All E. Logs Run:												
			CASING	RECORD	Ne	w Used						
		Repor	t all strings set-c	conductor, su	rface, inte	ermediate, producti	on, etc.					
Purpose of String	Size Hole Drilled		Casing (In O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Addi			
			ADDITIONAL	CEMENTIN	IG / SQL	JEEZE RECORD						
Purpose: Perforate Protect Casing Plug Back TD	Depth Top Bottom	Туре	of Cement	# Sacks Used			Type and P	ercent Additives				
Plug Off Zone												
	ulic fracturing treatment or otal base fluid of the hydra ing treatment information	aulic fractu	J	,	U	? Yes	No (If No, ski	p questions 2 ar p question 3) out Page Three)		
Shots Per Foot			D - Bridge Plug ach Interval Perf				acture, Shot, Cement Squeeze Record amount and Kind of Material Used) Depth					
TUBING RECORD:	Size:	Set At:		Packer At		Liner Run:						
TOBING NECOND.	Size.	Sel Al.		racket At		Liller Rull.	Yes No					
Date of First, Resumed	Production, SWD or ENH	IR.	Producing Meth	nod:	g	Gas Lift C	other (Explain)					
Estimated Production Per 24 Hours	Oil B	bls.	Gas	Gas Mcf Wate		er Bl	ols. G	as-Oil Ratio	(Gravity		
DISPOSITIO	ON OF GAS:		N	METHOD OF	COMPLE	ETION:		PRODUCTION	ON INTERVAL	<u>.</u>		
Vented Sold			pen Hole	Perf.		Comp. Con	nmingled mit ACO-4)					
(If vented, Sub	omit ACO-18.)		ther (Specify)		(SUDMIK)	-00-0) (SUDI	IIII ACO-4)					

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Flying V 3-5 Twin
Doc ID	1230694

Tops

Name	Тор	Datum
Lansing	4209'	-440
Marmaton	4558'	-789
Pawnee	4652'	-883
Cherokee	4707'	-938
Morrow Shale	4949'	-1180
Morrow Sand	4955'	-1186
Morrow Lime	5037'	-1268
Mississippian	5108'	-1339



CEMENTING LOG

CEMENT DATA Date 10/10/2014 District Liberal # 21 Ticket No. 61660 Spacer Type 20 BBL LC SPACER Sks Yield **American Warrior** Rig Duke #9 PPG Company ft³/sk Density **FLYING V** Well No Lease **3-5 TWIN** County WALLACE State KS Location LEAD: Time hrs. Type CLASS A Field 65/35, 6%GEL, 3%BWOC CC,1/4 FLOSEAL PTA Casing Data Conductor Squeeze Amt. 675 Sks Yield 2 ft³/sk Density 12.47 PPG √Surface Intermediate Production TAIL: Time hrs. Type CLASS A Size **8 5/8** Type Weight 24 Collar 3%cc,,1/4 floseal Excess PPG Amt. 200 Sks Yield 1.2 15.63 ft³/sk Density WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total **BBLS** 1845.41 Casing Depths Top Bottom Pump Trucks Used: 903-501 **Bulk Equipment** 562-568 994-642 Drill Pipe: BBLS/LIN, FT LIN. FT/BBL BBLS/LIN. FT LIN. FT/BBL Float Equipment: Manufacturer WEATHERFORD Open Hole: Capacity Factors: BBLS/LIN. FT LIN. FT/BBL Shoe: Type **GUIDE SHOE** Depth 1845.41 Casing BBLS/LIN. FT 0.0637 LIN. FT/BBL Float: Type **AFU Insert Valve** Depth 1802.24 Open Holes BBLS/LIN. FT LIN. FT/BBL Centralizers: Quantity 3 Plugs Top LIN. FT/BBL **Drill Pipe** BBLS/LIN. FT Stage Collars 0.0735 LIN. FT/BBL 13.6037 Special Equipment 1 Cement Basket @ 900 ft Annulus BBLS/LIN. FT Amt 115 bbls H20 Weight 8.34 PPG BBLS/LIN. FT LIN. FT/BBL Disp: Fluid Type Perforations From ft to ft Amt Mud Type Weight

COMPANY REPRESENTATIVE CEMENTER CESAR PAVIA

TIME	PRESSURES PSI		FLU	ID PUMPED D	ATA						
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	REMARKS N					
900PM						ARRIVE TO LOCATION RUN FLOAT EQUIPMENT					
930PM						CASING ON BOTTOM					
1000PM						RIG UP					
1030PM		4				SAFETY MEETING					
1040PM	2000	i i				PRESSURE TEST					
1043PM	80		20		5	20 BBL LC SPACER					
1047PM	200		260.4		5	PUMP 240.4 BBL OF LEAD SLURRY CEMENT					
1140PM	120		303.14		5	PUMP 42.74 BBL OF TAIL SLURRY CEMENT					
1200AM					5	RELEASE PLUG- START DISPLACEMENT, LOST CIRCULATION					
1210AM	60		323.14		5	20 BBL GONE					
1220AM	80		343.14		5	40 BBL GONE					
1226AM	120		363.14		5	60BBLGONE 58 BBL CATCH CEMENT					
1232AM	300		383.14		5	80 BBL GONE					
1240AM	350		403.14		3	100 BBL GONE SLOW DOWN TO 3 BPM					
1246AM	600		418.14		3	BUMP PLUG					
1251AM	1200					RELEASE PRESSURE, CHECK FLOATS					
						DID NOT CIRCULATE TO SURFACE					
						RUN 1" LINE WAIT FOR CEMENT					
700AM						PUMP 32 BBL OF SLURRY, CEMENT FALL AGAIN 1535K					
1047AM						PUMP 21 BBL OF SLURRY TO GET TO SURFACE 100 SK					
1126AM						THIS TIME IT HELD					
1200PM						WATCH CEMENT FOR ONE HOUR					
100PM						RIG DOWN					
400PM						LEAVE LOCATION					

FINAL DISP. PRESS. 6	00	PSI	BUMP PLUG TO	1200	PSI	BLEEDBACK	0.5	BBLS	THANK YOU
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ALLIED OIL & GAS SERVICES, LLC 064290 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE ID-17-14 SEC. 5 TWP RANGE 4/	CALLED OUT ON LOCATION JOB START JOB FINISH
DATE O	COUNTY STATE
LEASE WELL #3-5 twin LOCATION Sh	grun Springs 5 to hallace KS
	Rdin to Rd 10,15,12 W, Ninto
CONTRACTOR DUKE 9	OWNER Same
TYPE OF JOB PT A	
HOLE SIZE 71/8 T.D. 5360'	CEMENT
CASING SIZE DEPTH	AMOUNT ORDERED 225 sks Lite
TUBING SIZE DEPTH	60/40 41. gel 1/4 # Flo-seal
DRILL PIPE 41/2 DEPTH 2770	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON@
MEAS. LINE SHOE JOINT CEMENT LEFT IN CSG.	POZMIX@
PERFS.	CHLORIDE@
DISPLACEMENT THI water / 27661 mud	ASC @
EQUIPMENT	Lite 225sks @ 18.95 4263,75
EQUIPMENT	@
PLIMPTRUCK CEMENTER PAUL BEGVE	Flo. Seal 56 "@2.97 166.32
TOMI TROCK CEMENTER	
# 420 HELPERTYLY Flipse/Bra	kinson @
# DRIVER	· · · · · · · · · · · · · · · · · · ·
BULK TRUCK	<u> </u>
# (90/24) DRIVER Wayne Messal	le 1111 = C13 0 7/10 = 500 20
71	MILEAGE 16.09 ton 17 m x 2.75 1942.33
PENADVO	
REMARKS:	TOTAL
Mix 50 sts @ 2770, Display	
mix 130 sts@ 1895, Displacent	water SERVICE
mix losis @ 40 w/ elig	// DEPTH OF IOD
MIN 30 sks in RH. My 15 sks in M	
	PUMP TRUCK CHARGE 2483.59 EXTRA FOOTAGE @
	MILEAGE MIHV 70@ 7.70 539.00
Thould	MANIFOLD @
P. 1+C	100 MILV 70@4.40 308.00
raut c	
CHARGE TO: HINEYICAN WAYNIOR	
	TOTAL
STREET	
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	TEGG A PEONI EQUI MENT
	85/s a un on
	8 5/8 wooden plug @ 110.00
To: Allied Oil & Gos Samines II C	
To: Allied Oil & Gas Services, LLC.	
You are hereby requested to rent cementing equipm	
and furnish cementer and helper(s) to assist owner of	
contractor to do work as is listed. The above work	
done to satisfaction and supervision of owner agent	•
contractor. I have read and understand the "GENER	
TERMS AND CONDITIONS" listed on the reverse	side.
\mathcal{C}_{i}	TOTAL CHARGES
PRINTED NAME Omigatio 170795	DISCOUNT IF PAID IN 30 DAYS
1.1. 0.	
SIGNATURE CHIMAN VINCES	
DIGITAL CITE DE LA CONTRACTOR DE LA CONT	

OPERATOR

Company: American Warrior, Inc. Address: 3118 Cummings Rd

PO BOX 399

Garden City, Ks 67846

Contact Geologist: Kevin Wiles
Contact Phone Nbr: 620-271-4407
Well Name: Flying V #3-5 Twin
Location: Sec. 5 - T15S - R41W

API: 15-199-20425-00-00

Pool:

Field: Okeson Northwest

State: Kansas Country: USA

Scale 1:240 Imperial

Well Name: Flying V #3-5 Twin Surface Location: Sec. 5 - T15S - R41W

Bottom Location:

API: 15-199-20425-00-00

License Number: 5929

Spud Date: 10/8/2014 Time: 2:00 PM

Region: Wallace

Drilling Completed: 10/16/2014 Time: 8:04 PM

Surface Coordinates: 337' FSL & 2550' FEL

Bottom Hole Coordinates:

Ground Elevation: 3756.00ft K.B. Elevation: 3769.00ft Logged Interval: 4000.00ft

Logged Interval: 4000.00ft To: 5300.00ft

Total Depth: 5300.00ft Formation: Morrow

Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude:

Latitude:

N/S Co-ord: 337' FSL E/W Co-ord: 2550' FEL

LOGGED BY

Keith Reavis

Consulting Geologist

Company: Keith Reavis, Inc.
Address: 3420 22nd Street

Great Bend, KS 67530

Phone Nbr: 620-617-4091

Logged By: Logan Walker Name: Logan Walker

CONTRACTOR

Contractor: Druke Drilling CO,. Inc.

Rig #: 9

Rig Type: mud rotary

Spud Date: 10/8/2014 Time: 2:00 PM TD Date: 10/16/2014 Time: 8:04 PM

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 3769.00ft Ground Elevation: 3756.00ft

K.B. to Ground: 13.00ft

NOTES

@4700' changed from a PDC bit to a Button Bit

A Bloodhound gas detector operated by Bluestem Environmental was employed on the well. ROP & Gas curves were imported into the log as well as GAMMA-Caliper from E-log suite.

The samples from this well were saved and will be available for review at the Kansas Geological Survey well sample Library located in Wichita, Ks.

Respectfully submitted, Logan Walker

American Warrior, Inc. daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/13/2014		Geologist Logan Walker on location @ 0730 hrs, 4300 ft, drilling ahead Short trip and change bit from PDC Bit to Button Bit, resume drilling
10/14/2014	4765	drilling ahead the Cherokee, Morrow shale, Morrow Sand
10/15/2014	5008	Drilling ahead the Morrow sand, Morrow Lime, bit trip @5096, resume drilling
10/16/2014	5200	mud pump broke down $@5200\ 0700\ hrs$, resume drilling 1345 hrs, TD $@5300\ 2004hrs$ TOH w/bit
10/17/2014	5300	loggers onsite 0100hrs, loggers offsite 0630, geologist offsite 0630

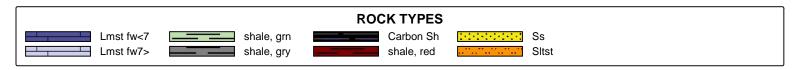
American Warrior, Inc. well comparison sheet

		Flying 1 337' FSL 8 Sec 5-T158	V #3-5 2550'	FEL		COMPARIS Flying SW SW SW Sec 10-T	V #1-5	tural	COMPARISON WELL Blaesi #4-6 NW SW SE SE Sec 6-T15N-R41W Structural			
	3769	KB	-	376	5 KB	Relationship		3780 KB		Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Lansing	4208	-439	4209	-440					4207	-427	-12	-13
Marmaton	4556	-787	4559	-790		5:			4558	-778	-9	-12
Pawnee	4652	-883	4644	-875		-	31		4648	-883	0	8
Cherokee	4707	-938	4708	-939	4703	-938	0	-1	4716	-951	13	12
Morrow Shale	4944	-1175	4920	-1151	4939	-1174	-1	23	4945	-1180	5	29
Morrow Sand	4965	-1196	4960	-1191	4954	-1189	-7	-2	4958	-1193	-3	2
Morrow Lime	5052	-1283	5037	-1268	5032	-1267	-16	-1	5055	-1290	7	22
Mississippian	5099	-1330	5079	-1310			1		5117	-1352	22	42
Total Depth	5300	-1531	5224	-1455	5104	-1339	-192	-116	5200	-1435	-96	-20
		2 3					5)					

	3769	DRILLIN Flying 337' FSL Sec 5-T1	FEL	3772	Blaesi	SON WELL i #2-6 IL & 450' 5N-R41W Structus Relation	al	COMPARISON WELL Blaesi #1-6 2490' FSL & 1370' FEL Sec 6-T15N-R41W Structural 3782 KB Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea		Log	Log		Sample	
Lansing	4208	-439		-440					4214	-432		_
Marmaton	4556	-787	4559	-790	4553	-781	-6	-9	4564	-782	-5	-8
Pawnee	4652	-883	4644	-875	4635	-863	-20	-12	4651	-869	-14	-6
Cherokee	4707	-938	4708	-939	4701	-929	-9	-10	4710	-928	-10	-11
Morrow Shale	4944	-1175	4920	-1151	4938	-1166	-9	15	4950	-1168	-7	17
Morrow Sand	4965	-1196	4960	-1191	4948	-1176	-20	-15	4986	-1204	8	13
Morrow Lime	5052	-1283	5037	-1268	5042	-1270	-13	2	5042	-1260	-23	-8
Mississippian	5099	-1330	5079	-1310				0	5096	-1314	-16	4
Total Depth	5300	-1531	5224	-1455	5120	-1348	-183	-107	5150	-1368	-163	-87

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337' FSL & 2550' FEL Sec 6-T15S-R41W Sec 6	Sub-Sea Sample Log
Sec 5-T15S-R41W Sec 6-T15S-R41W Sec 6-T1SS Sec 6-T15S-R41W Sec 6-T1SS Sec 6-T15S-R41W Sec 6-T1SS Sec 6-T15S-R41W Sec 6-T1SS Sec 6-T15S Sec 6-T1SS Sec 6-T	Sec 6-T15S-R41W Structural Relationship Sub-Sea Sample Log Company Company Log Company Company
Structural 3788 KB Structural 3792 KB Relationship 3788 KB	Structural Relationship Sub-Sea Sample Log -432 -7
3769 KB 3792 KB Relationship 3788 KB	88 KB Relationship Sub-Sea Sample Log -432 -7
Formation Sample Sub-Sea Log Sub-Sea Log Sub-Sea Log Sub-Sea Log Sub-Sea Sample Log Log Sub-Sea Lansing 4208 -439 4209 -440 4224 -432 -7 -8 4220 -9 4200 4500 4500 -787 4559 -790 4570 -778 -9 -12 4569 -9 4500 -780 4652 -883 4644 -875 4662 -870 -13 -5 4658 -9 4600 4707 -938 4708 -939 4730 -938 0 -1 4720 -9 4730 4730 4730 4730 -938 0 -1 4720 -9 4730 4730 4730 4730 4730 4730 4730 4730	Sub-Sea Sample Log
Lansing 4208 -439 4209 -440 4224 -432 -7 -8 4220 - Marmaton 4556 -787 4559 -790 4570 -778 -9 -12 4569 - Pawnee 4652 -883 4644 -875 4662 -870 -13 -5 4658 - Cherokee 4707 -938 4708 -939 4730 -938 0 -1 4720 - Morrow Shale 4944 -1175 4920 -1151 4955 -1163 -12 12 4944 -1 Morrow Sand 4965 -1196 4960 -1191 4968 -1176 -20 -15 4958 -1 Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	-432 -7
Marmaton 4556 -787 4559 -790 4570 -778 -9 -12 4569 - Pawnee 4652 -883 4644 -875 4662 -870 -13 -5 4658 - Cherokee 4707 -938 4708 -939 4730 -938 0 -1 4720 - Morrow Shale 4944 -1175 4920 -1151 4955 -1163 -12 12 4944 -1 Morrow Sand 4965 -1196 4960 -1191 4968 -1176 -20 -15 4958 -1 Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	
Pawnee 4652 -883 4644 -875 4662 -870 -13 -5 4658 - Cherokee 4707 -938 4708 -939 4730 -938 0 -1 4720 - Morrow Shale 4944 -1175 4920 -1151 4955 -1163 -12 12 4944 -1 Morrow Sand 4965 -1196 4960 -1191 4968 -1176 -20 -15 4958 -1 Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	-781 -6
Cherokee 4707 -938 4708 -939 4730 -938 0 -1 4720 - Morrow Shale 4944 -1175 4920 -1151 4955 -1163 -12 12 4944 -1 Morrow Sand 4965 -1196 4960 -1191 4968 -1176 -20 -15 4958 -1 Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	
Morrow Shale 4944 -1175 4920 -1151 4955 -1163 -12 12 4944 -1 Morrow Sand 4965 -1196 4960 -1191 4968 -1176 -20 -15 4958 -1 Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	8 -870 -13
Morrow Sand 4965 -1196 4960 -1191 4968 -1176 -20 -15 4958 -1 Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	-932 -6
Morrow Lime 5052 -1283 5037 -1268 5066 -1274 -9 6 5054 -1	-1156 -19
	-1170 -26
	-1266 -17
Mississippian 5099 -1330 5079 -1310 5130 -1338 8 28 5119 -1	-1331 1
Total Depth 5300 -1531 5224 -1455 5200 -1408 -123 -47 5250 -1	-1462 -69



ACCESSORIES

DST

4020

DST Int
DST alt
Core
II tail pipe

OTHER SYMBOLS

Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- O Questionable Stn
- D Dead Oil Stn
 Fluorescence
- Fluoresc

OTTIER STWIDGE

