



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1310878  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., 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       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

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.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1310878

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Arnold 1-2
Doc ID	1310878

All Electric Logs Run

Induction
Porosity
Micro
Sonic





CHARGE TO: American Warrior  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET 29234

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Well/PROJECT NO. #1-2 LEASE Arnold COUNTY/PARISH Stanton STATE KS CITY Johnson City DATE 6-10-16 OWNER Same  
 2. TICKET TYPE CONTRACTOR RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.  
 SERVICE  SALES Duke Drilling #1 CT Location  
 3. WELL TYPE WELL CATEGORY JOB PURPOSE WELL PERMIT NO. WELL LOCATION  
 4. Oil Development Longstring Surface Johnson City - 1s, 1ay, 1.01  
 REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
<del>575</del> 575		1			MILEAGE Trk # 111			150 m.	5 <sup>00</sup>	750 <sup>00</sup>
576 D		1			Pump Change - Deep Surface			8 1/2 in 1 job	1250 <sup>00</sup>	1250 <sup>00</sup>
409		1			Centralizer - turbolizer			8 5/8 in 2 cu	95 <sup>00</sup>	190 <sup>00</sup>
410		1			Top Plug			8 5/8 in 1 cu	120 <sup>00</sup>	120 <sup>00</sup>
412		1			Baffle Plate			8 5/8 in 1 cu	110 <sup>00</sup>	110 <sup>00</sup>
194		1			Plug Container Rental			8 5/8 in 1 job	200 <sup>00</sup>	200 <sup>00</sup>
330		1			SMD Cement			650 sks	15 <sup>75</sup>	10237 <sup>50</sup>
276		1			Floccle			1/4 lb 175 lbs	2 <sup>25</sup>	393 <sup>75</sup>
290		1			D-Air			7 gal	42 <sup>00</sup>	294 <sup>00</sup>
221		1			Liquid HCL			2 gal	25 <sup>00</sup>	50 <sup>00</sup>
581		1			Service Charge Cement			650 sks	1 <sup>50</sup>	975 <sup>00</sup>
583		1			Drayage			64675 lbs 4851 TM	0 <sup>75</sup>	3638 <sup>25</sup>

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

DATE SIGNED 6-10-16 TIME SIGNED 1330 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	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				18208 50
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Stanton County TAX 7.5%
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				869 64
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 19078 14
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

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

SWIFT OPERATOR David Kuehn APPROVAL

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 6-10-16 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-2 LEASE Arnold JOB TYPE Langstring Surface TICKET NO. 29234

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							on location 8 5/8" 24"
								RTD- 1745' TP- 1743' SJ- 41.18' BP- 1701'
								Turbolizers - "1" "21"
	1145							Start 8 5/8" 24" casing in Hole
	1345							Break circulation
	1410	7	20		✓		200	Pump 20 bbl KCL Flush
	1415	7	71		✓		200	mix 150 sks S/MO w/ 1/4" Flo @ 11.8 ppg
		7	115		✓		200	mix 300 sks @ 12.5 ppg
		7	31		✓		300	mix 100 sks @ 13.5 ppg
		7	18		✓		300	mix 100 sks @ 14.5 ppg
								wash out Pump + Lines Release Top Plug
	1455	7	∅		✓		100	Start Displacement
		7	25		✓		200	Lift Pressure circulate cement to pit * 25 sks *
	1515	7	108		✓		500	Land Top Plug
								Shut in *Hold*
								wash up trucks
	1600							Job Complete

Thank You  
Dave, David, Preston Shane



CHARGE TO: *American Warrior*

ADDRESS:

CITY, STATE, ZIP CODE:

TICKET 29312

PAGE 1 OF 1

SERVICE LOCATIONS: 1. *Ness City KS* WELL/PROJECT NO. *1-2* LEASE *Arnold* COUNTY/PARISH *Stanton* STATE *KS* CITY *Johnson City* DATE *22 Jun 16* OWNER

2. TICKET TYPE  SERVICE  SALES CONTRACTOR *DUKE* RIG NAME/NO. *1* SHIPPED VIA *CT* DELIVERED TO *location* ORDER NO.

3. WELL TYPE *oil* WELL CATEGORY *PTA* JOB PURPOSE *Plug to Abandon* WELL PERMIT NO. WELL LOCATION *2-29-41*

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	150	mi			5.00	750.00
576P		1			Pump Charge	1	ea			800.00	800.00
328-4		1			60/40 Pozmix (4% gel)	150	sk			10.25	1537.50
290		1			D-AIR	2	gal			42.00	84.00
581		1			Service charge	150	sk			1.50	225.00
583		1			Drayage	12.55	lb	941.63	TM	0.75	706.22

**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. *5:00*

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	4102.72
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 SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	4410.42

*Stanton CO. TAX 7590*

**JOB LOG**

**SWIFT Services, Inc.**

DATE 22 Jun 16 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-2 LEASE Arnold JOB TYPE Plug to Abandon TICKET NO. 29312

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150sk 60/40 2oz mix (4% gel) Plugs - 50sk @ 1770' 30sk @ 540 25" to 1741' 20sk @ 60 30-RH 20-MH
	1330							on loc TRK 114
	1410							Run in plugging stands
	1444	3 1/2	20				300	1st plug @ 1770'
		3 1/2	13				200	20 H <sub>2</sub> O 50sk 60-40 (4%) - 16 bbl H <sub>2</sub> O
		3 1/2	16				200	
	1502		10					pull to 540'
	1544		8					2nd plug @ 540'
			4					10 H <sub>2</sub> O - <del>30sk</del> 60/40 (4%) - 4 bbl H <sub>2</sub> O
	1602							pull to 60'
	1615		1					3rd plug 60'
			6					1 bbl - 20sk → 60/20 (4%) - 1 bbl H <sub>2</sub> O
			1					
	1624		6					Plug RH 30sk 60/40 (4%)
			6					Plug MH 20sk 60/40 (4%)
								150sk - total
	1635							wash truck
								Rack up
	1706							job complete.
								Thanks Blaine, Flint & Assoc.



# **Geological Report**

American Warrior, Inc.

## **Arnold #1-2**

624' FSL & 341' FWL

Sec. 2, T29s, R41w

Stanton County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Arnold #1-2  
624' FSL & 341' FWL  
Sec. 2, T29s, R41w  
Stanton County, Kansas  
API # 15-187-21329-00-00

Drilling Contractor: Duke Drilling Co. Rig #1

Geologist: Kevin Timson

Spud Date: June 9, 2016

Completion Date: June 23, 2016

Elevation 3366' G.L.  
3378' K.B.

Directions: From the SW side of Johnson City, KS, at the intersection of Hwy 27 and Hwy 160. Go West on Hwy 160 1 mile to M Rd. Go South 1 mile, East 200', North into.

Casing: 1745' 8 5/8" #24 Surface Casing

Samples: 3600' to RTD 10' Wet and Dry

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "J. Long"  
Full Sweep

Drillstem Tests: None

Problems: Lost circulation @ 4690 for 2 days.

## Formation Tops

Arnold #1-2

Sec. 2, T29s, R41w

624' FSL & 341' FWL

Heebner	3664' -286
Lansing	3768' -390
Bkc	4316' -938
Marmaton	4347' -969
Cherokee	4541' -1163
Morrow	5075' -1697
St. Gen	5492' -2114
RTD	5700' -2322
LTD	5699' -2321

## Sample Zone Descriptions

**Keyes (5390', -2012): No DST**

Ss. Off white/clear. Glauconitic. Medium to coarse grain. Very well cemented. Sub angular. Poor to fair sorted. No stain. No saturation. No odor. No Fluorescence.

**St. Louis (5652', -2274): No DST**

Ls. Tan. Medium to Sub crystalline. Fair to good oomoldic porosity and fair to good oolycastic porosity. Barren. No fluorescence.

## Structural Comparison

	American Warrior, Inc. Arnold #1-2 Sec. 2, T29s, R41w 624' FSL & 341' FWL		Parker & Parsley, Inc. P & P #1-2 Sec. 2, T29s, R41w 330' FSL & 330' FEL		Berexco, Inc. Pearl May #1-11 Sec 11, T28s, R41w 4950' FSL & 4950' FEL
<b>Formation</b>					
Heebner	3664' -286	NA	NA	+43	3686' -329
Lansing	3768' -390	NA	NA	+47	3794' -437
BKC	4316' -938	+30	4324' -968	+32	4327' -970
Marmaton	4347' -969	+31	4356' -1000	+31	4357' -1000
Cherokee	4541' -1163	-1	4518' -1162	-6	4514' -1157
Morrow	5075' -1697	-4	5049' -1693	-11	5043' -1686
St. Gen	5492' -2114	+85	5555' -2199	+82	5553' -2196

### Summary

The location for the Arnold #1-2 well was found via 3-D seismic survey. The new well ran structurally as expected. After all the gathered data had been examined, the decision was made to plug and abandon the Arnold #1-2 well.

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.

