

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1330907
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: _____

1330907

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CHARGE TO: American Warrior
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 29839

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness City, KS WELL/PROJECT NO: 5-17 LEASE: Gano COUNTY/PARISH: Kearney STATE: KS CITY: Lakin DATE: 9 Dec 16 OWNER:
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: RIG NAME/NO.: 5 SHIPPED VIA: CT DELIVERED TO: location ORDER NO.:
 3. WELL TYPE: oil WELL CATEGORY: Development JOB PURPOSE: cement deep surface pipe WELL PERMIT NO.: WELL LOCATION: 17-25-36
 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	110	mi			5.00	550.00
576D		1			Pump Charge	1	ea			1250.00	1250.00
400		1			Guide shoe	8 5/8	in	1	ea	380.00	380.00
409		1			Turbolizer	8 5/8	in	3	ea	95.00	285.00
412		1			Baffle Plate	8 5/8	in	1	ea	110.00	110.00
410		1			Top Plug	8 5/8	in	1	ea	120.00	120.00
281		1			mud plug	500	gal			1.25	625.00
221		1			KCL liquid	2	gal			25.00	50.00
330		1			SMD cement	650	sk			15.75	10237.50
276		1			Flocel	150	lb			2.25	337.50
581		1			service charge	650	sk			1.50	975.00
583		1			Drayage	64681	lb	35	57.5 TM	0.75	2668.11

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: AM. P.M.
2:40

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?				17,558.11
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

keamy co. TAX 6.5% 787.48
 18345.59

JOB LOG

SWIFT Services, Inc.

DATE 9 DEC 16 PAGE NO.

CUSTOMER American Warrior WELL NO. 5-17 LEASE Gano JOB TYPE cement deep surface TICKET NO. 29639

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								650 sk SMD cement w/ 1/4" Flocele 8 5/8" x 23" casing 43 joints TD = 1750' shoe pt 40.4'
	1430							on loc TRK 110
	1720							start 8 5/8" x 23" casing in well
	1917							circulate well
	1935	5	12			300		Pump mud flush 500 gal
		5	20			300		Pump KCh flush 20 bbl
	1941	5	70			400		Mix SMD cement 150 sk @ 11.8 ppg
		5	119			400		Mix SMD cement 300 sk @ 12.5 ppg
		5	31			400		Mix SMD cement 100 sk @ 13.5 ppg
		3 1/2	26			400		Mix SMD cement 100 sk @ 14.5 ppg
			246					total bbl 650 sk total
	2035	6				400		Drop plug Displace plug
		6				600		→ cement to surface ←
		6	87			800		
	2100	3 1/2	110			1200		Land plug } 50 sk to pit
	2103							shut in 8 5/8" casing
								Release pressure to truck
	2105							wash truck
								Rack up
	2140							job complete Thanks
								Flint, Blaine, Isaac & Russ

GLOBAL OIL FIELD SERVICES, LLC

2740

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell

DATE <u>12-14-16</u>	SEC. <u>17</u>	TWP. <u>25</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>6:15 PM</u>
LEASE <u>Cane</u>	WELL #. <u>S-17</u>	LOCATION <u>35 2nd</u>	COUNTY <u>Leavenworth</u>	STATE <u>Ks</u>			
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Duke #5

TYPE OF JOB PLUG

HOLE SIZE 7 1/2 T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 1 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 170 lbs 60/40 49 Gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER Bill

HELPER Cody

BULK TRUCK DRIVER JACK

DRIVER

REMARKS:

1st plug @ 180 w/ 50 lbs
2nd plug @ 830 w/ 50 lbs
3rd plug @ 60 w/ 20 lbs
30 lbs RH
20 lbs MH

CHARGE TO: American Wear

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

Global Oil Field Services, LLC
 You are hereby requested to rent cementing equipment and furnish cement and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME KENNETH M'GUIRE

SIGNATURE Kenneth M'Guire

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Geological Report

American Warrior, Inc.

Gano #5-17 (Lost Hole)

2604' FSL & 2490' FWL

Sec 17, T25s, R36w

Kearny County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Gano #5-17
2604' FSL & 2490' FWL
Sec. 17, T25s, R36w
Kearny County, Kansas
API # 15-093-21948-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: December 8, 2016

Completion Date: December 15, 2016

Elevation 3022' G.L.
3033' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 3.3 miles South on Hwy 25 – Now go 0.7 mile West on Rd.120 – Now go 1 mile South on Rd. S – Now go 1.5 mile West on Rd. 110 to the lease road – South into by steel grain bins, Now go South 0.6 miles to location.

Casing: 1744' 8 5/8" #23 Surface Casing

Samples: 3450' to RTD 10' Wet & Dry

Drilling Time: 3400' to RTD

Electric Logs: No Logs

Drillstem Tests: No test completed

Problems: Stuck @ 2898' for 5 hrs
surface casing parted, lost hole

Formation Tops

Gano #5-17

Sec. 17, T25s, R36w

2604' FSL & 2490' FWL

Heebner	3631' -598
Toronto	3642' -609
Lansing	
Stark	
Bkc	
Marmaton	
Pawnee	
Fort Scott	
Cherokee	
Morrow	
Miss	
RTD	3655' -622
LTD	

Sample Zone Descriptions

Toronto **(3645', -612):**

Limestone, cream, sub crystalline, chalky, occasional white Chert, poor to fair scattered pinpoint vuggy porosity, fair odor, fair show of free oil in porosity, poor stain, fair saturation, fair to good stream cut.

Structural Comparison

	American Warrior, Inc. Gano #5-17 Sec. 17, T25s, R36w 2604' FSL & 2490' FWL		American Warrior, Inc. Gano #4-17 Twin Sec. 17, T25s, R36w 2273' FSL & 1806' FWL		American Warrior, Inc. Gano #3-17 Sec. 17, T25s, R36w 1512' FSL & 2603' FEL
<u>Formation</u>					
Heebner	3631' -598	-12	3622' -586	-7	3627' -591
Lansing			3668' -632		3674' -638
Stark			4011' -975		4018' -982
BKC			4179' -1143		4182' -1146
Marmaton			4198' -1162		4206' -1170
Pawnee			4301' -1265		4307' -1271
Fort Scott			4336' -1300		4340' -1304
Cherokee			4346' -1310		4351' -1315
Morrow			4643' -1607		4643' -1607
Miss			4788' -1752		4788' -1752

Summary

The location for the Gano #5-17 well was found via 3-D seismic survey. The new well ran structurally as expected. While running in DST #1 the tool bridged at 1776' on the top of the parted 8 5/8" surface casing. Several attempts were made to get through the obstruction, but the hole was lost due to parting of the surface casing in the bottom joint.

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.