

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# American Warrior, Inc.

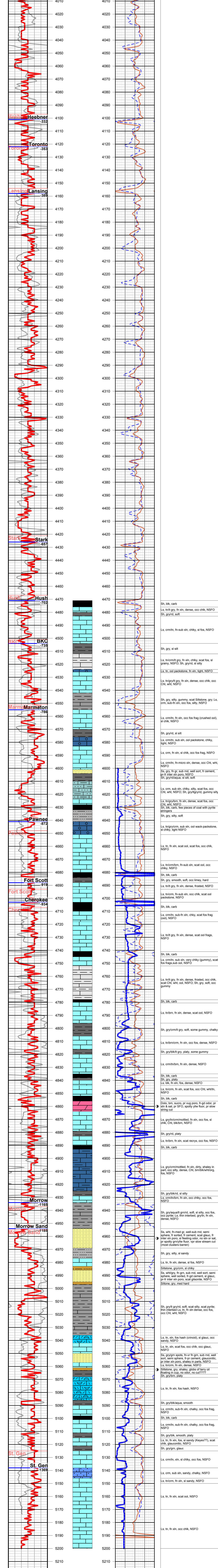
Luke Thompson - Geologist  
 3118 Cummings Rd  
 Garden City, KS 67846  
 (785) 493-1254 cell  
 (620) 275-5067 office

<b>WELL</b> Blaes #10-6	<b>API #</b> 15-199-20445-00-00	<b>LOCATION:</b> Wallace County, KS 335' FSL & 335' FEL 6-15s-41w	<b>Elevation</b> KB: 3769' GL: 3761' Measurements from KB
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<b>Lithology Key</b> 		<b>Curve Data:</b> <b>Left Column:</b> ROP (min/foot) Gamma Ray <b>Right Column:</b> Gas (units) Density Porosity Neutron Porosity		<b>Geologist:</b> Luke Thompson (American Warrior, Inc.) <b>Drilling Contractor:</b> Discovery Rig #1 <b>Samples from:</b> 4500' - RTD <b>Drilling time from:</b> 4000' - TD <b>Geological Supervision from:</b> 4500' - TD <b>Correlating Log:</b> Blaes #4-6 (6-15s-41w) <b>Surface Casing:</b> 371' 8 5/8" #23 <b>Production Casing:</b> 5200' 5 1/2" #15.5 <b>RTD:</b> 5200' <b>LTD:</b> 5202'	
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Formation	Top	Log	Datum	Top	Sample	Datum	Correlating Well	Structural Comparison
Heebner	4100	-331	4101	-332	-3			
Toronto	4124	-355	4122	-353	-3			
Lansing	4157	-388	4158	-389	-3			
Stark	4427	-658	4426	-657	-6			
Hush	4470	-701	4471	-702	-3			
BKC	4506	-737	4504	-735	-5			
Marmaton	4555	-786	4555	-786	-4			
Pawnee	4641	-872	4634	-865	9			
Fort Scott	4684	-915	4688	-919	9			
Cherokee	4700	-931	4703	-934	7			
Morrow	4934	-1165	4934	-1165	3			
Morrow Sand	4959	-1190	4954	-1185	-4			
St. Gen	5134	-1365	5138	-1369	-9			

<b>Status:</b> Oil	
	●



# **Geological Report**

American Warrior, Inc.

**Blaesi #10-6**

335' FSL & 335' FEL

Sec 6, T15s, R41w

Wallace County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Blaesi #10-6  
335' FSL & 335' FEL  
Sec. 6, T15s, R41w  
Wallace County, Kansas  
API # 15-199-20445-00-00

Drilling Contractor: Discovery Drilling Rig #1

Geologist: Luke Thompson

Spud Date: August 17, 2017

Completion Date: August 25, 2017

Elevation 3761' G.L.  
3769' K.B.

Directions: From the North side of Sharon Springs, KS at the intersection of Hwy. 40 & Hwy. 27. – Now go 8.8 miles West on Hwy. 40 – Now go 7.7 miles South on Rd. 9 to Field Rd. – Now go approx. 0.1 mile West on Field Rd. (trail) N into.

Casing: 371' 8 5/8" #23 Surface Casing  
5200' 5 1/2" #15.5 Production Casing

Samples: 4500' to RTD 10' Wet & Dry

Drilling Time: 4000' to RTD

Electric Logs: Pioneer Energy Services "J. Henrickson"  
Stack Micro

Drillstem Tests: no tests

Problems: none encountered

# Formation Tops

Blaesi #10-6

Sec. 6, T15s, R41w

335' FSL & 335' FEL

<b>Anhydrite</b>	<b>2740' +1029</b>
<b>Base</b>	<b>2769' +1000</b>
<b>Heebner</b>	<b>4100' -331</b>
<b>Lansing</b>	<b>4157' -388</b>
<b>Stark</b>	<b>4427' -658</b>
<b>BKC</b>	<b>4506' -737</b>
<b>Marmaton</b>	<b>4555' -786</b>
<b>Pawnee</b>	<b>4639' -870</b>
<b>Fort Scott</b>	<b>4684' -915</b>
<b>Cherokee</b>	<b>4700' -931</b>
<b>Morrow</b>	<b>4934' -1165</b>
<b>Morrow Sand</b>	<b>4959' -1190</b>
<b>Miss</b>	<b>5134' -1365</b>
<b>RTD</b>	<b>5200' -1431</b>
<b>LTD</b>	<b>5202' -1433</b>

## Sample Zone Descriptions

### **Atoka**

**(4854', -1085):**

**No DST**

Dolomite, brown, sucrosic, poor vuggy porosity, fair to good odor, poor stain and saturation, poor show of free oil, spotty yellow fluorescence, poor slow string cut. Gas 300 units hotwire.

### **Morrow Sand**

**(4959', -1190):**

**No DST**

Sandstone ,white/clear, fine to medium grained, well to sub-round, semi-spherical, fair sorted, fair cement, scattered glauconite, fair to good inter-crystalline porosity, slight fleeting odor, poor spotty green/yellow fluorescence, very poor slow stream cut, (most clusters barren). Gas 250 units hotwire.



## Structural Comparison

	American Warrior, Inc. Blaesi #10-6 Sec. 6, T15s, R41w 335' FSL & 335' FEL			American Warrior, Inc. Blaesi #4-6 Sec. 6, T15s, R41w 335' FSL & 1112' FEL			American Warrior, Inc. Flying V #1-5 Sec. 5, T15s, R41w 335' FNL & 335' FWL	
<b>Formation</b>								
Heebner	4100	-331	-3	4108' -328	+4	4100	-335	
Lansing	4157	-388	-3	4165' -385	+7	4160	-395	
Stark	4427	-658	-6	4432' -652	+2	4425	-660	
BKC	4506	-737	-5	4512' -732	-1	4501	-736	
Marmaton	4555	-786	-4	4562' -782	-1	4550	-785	
Pawnee	4639	-870	9	4659' -879	+5	4640	-875	
Fort Scott	4684	-915	9	4704' -924	+4	4684	-919	
Cherokee	4700	-931	7	4718' -938	+6	4702	-937	
Morrow	4934	-1165	3	4948' -1168	+10	4940	-1175	
Morrow Sd	4959	-1190	-4	4966' -1186	+1	4956	-1191	
Miss	5134	-1365	-9	5136' -1356				Not reached

## Summary

The location for the Blaesi #10-6 well was found via 3-D seismic survey. The new well ran structurally as expected. No drill stem tests were conducted. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Blaesi #10-6 well.

## Perforations

<b>Primary:</b>	<b>Morrow</b>	<b>(4956' – 4966')</b>	<b>not tested</b>
<b>Secondary:</b>	<b>Atoka</b>	<b>(4854' – 4858')</b>	<b>not tested</b>

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.



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

TICKET 30755

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u># 10-6</u>	LEASE <u>Blaesi</u>	COUNTY/PARISH <u>Wallace</u>	STATE <u>KS</u>	CITY <u>Sharon Springs</u>	DATE <u>8-24-17</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Discovery Drilling</u>		RIG NAME/NO. <u># 1</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Longstring</u>		WELL PERMIT NO.	WELL LOCATION <u>Sharon Springs - 9w, 8s, W in b</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
<u>575</u>		<u>1</u>			MILEAGE			<u>150</u>	<u>mi</u>	<u>5.00</u>	<u>750</u>	<u>.00</u>
<u>578</u>		<u>1</u>			Pump Change - Long String			<u>5 1/2</u>	<u>in</u>	<u>1 job</u>	<u>1250</u>	<u>.00</u>
<u>409</u>		<u>1</u>			Turbolizer			<u>8</u>	<u>lea</u>	<u>75</u>	<u>600</u>	<u>.00</u>
<u>403</u>		<u>1</u>			Cement Basket			<u>2</u>	<u>ca</u>	<u>250</u>	<u>500</u>	<u>.00</u>
<del>407</del> <u>407</u>		<u>1</u>			Insert Float Shoe w/ Auto Fill			<u>1</u>	<u>ca</u>	<u>300</u>	<u>300</u>	<u>.00</u>
<u>406</u>		<u>1</u>			Latch Down Plug + Baffle			<u>1</u>	<u>ca</u>	<u>225</u>	<u>225</u>	<u>.00</u>
<u>404</u>		<u>1</u>			Port Collar			<u>1</u>	<u>ca</u>	<u>2500</u>	<u>2500</u>	<u>.00</u>

**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 Chad Mayfield  
 DATE SIGNED 8-24-17 TIME SIGNED 1800  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 #1	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	<u>6125</u>
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	<u>6295</u>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					<u>12420</u>
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					<u>627</u>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	<u>13041</u>

TAX 7.0%



JOB LOG

SWIFT Services, Inc.

DATE 8-24-17 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #10-6 LEASE Blaesi JOB TYPE 5 1/2" Longstring TICKET NO. #30755

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							on location 5 1/2" 15.5"
								RTD-5203' LTD-5196' IP-5199' SS- #1 20.70' P.C. - #60 2719' Insert - 5179' Turbo - #1 3" 5" 7" 9" 11" 13" 59 Basket - #2" 60
	1715							Start 5 1/2" 15.5" casing in well
	1900							Drop Ball Circulate
	1940	6 1/2	12		✓	500	Pump	500 gal Mud Flush
		6 1/2	20		✓	500	Pump	20 bbl 1Kl Flush
			7 1/2-4 1/2					Plug RH-MH (3028)
	1955	4 1/2	38		✓	300		mix 150 sks STD 2% Gel 10% salt @ 14.9 ppb
								wash out Pump + lines Release Latch Down Plug
	2010	6 1/2	0		✓	200		Start Displacement
		6 1/2	94		✓	400		lift Pressure
		6 1/2	122		✓	900		Max lift Pressure
	2030	6 1/2	123		✓	1900		Latched Latch Down Plug
								Release Pressure *Plug Hold*
								wash up trucks
	2100							Job Complete
								Thank You Dave Preston Kirby



CHARGE TO: American Warrior Inc.  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 30901

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Ness City, KS</u>	WELL/PROJECT NO. <u>#10-6</u>	LEASE <u>Blarsi</u>	COUNTY/PARISH <u>Wallace</u>	STATE <u>KS</u>	CITY <u>Sharon Springs</u>	DATE <u>10-25-17</u>	OWNER <u>Swine</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co Tests</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Post Collar</u>	WELL PERMIT NO.	WELL LOCATION <u>Sharon Springs - 9 mi, S, W</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE			150	mi	5 <sup>00</sup>	750 <sup>00</sup>	
576 D		1			Pump Charge - Post Collar			1	job	1250 <sup>00</sup>	1250 <sup>00</sup>	
330		1			SMD Cement			350	cks	1575	5512 <sup>50</sup>	
276		1			Floacle		1/4	75	lbs	2 <sup>25</sup>	168 <sup>75</sup>	
290		1			D-Air			4	gal	42 <sup>00</sup>	168 <sup>00</sup>	
279		1			Bentonite Gel			7	cks	25 <sup>00</sup>	175 <sup>00</sup>	
275		1			Cotton Seed Hulls			4	cks	30 <sup>00</sup>	120 <sup>00</sup>	
288		1			Sand (20/40 Brady)			2	cks	22 <sup>00</sup>	44 <sup>00</sup>	
105		1			Post Collar Tool Rental			5 1/2	in	1 job	275 <sup>00</sup>	275 <sup>00</sup>
581		1			Service Charge Cement			350	cks	1 <sup>50</sup>	525 <sup>00</sup>	
583		1			Drayage				lbs	00 <sup>25</sup>	1962 <sup>00</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

X  
 DATE SIGNED 10-25-17 TIME SIGNED 1430  A.M.  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	10950 <sup>25</sup>
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?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

JOB LOG

SWIFT Services, Inc.

DATE 10-25-17 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #10-6 LEASE Blacsi JOB TYPE Cement Port Cells TICKET NO. 130911

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on location 2 3/8 x 5 1/2
								P.C. - 2678' RBP - 2782
	0915	4	60	✓		400		Load Hole
	0935	4	0	✓		1000		test Tools *Held*
	0940	2	10	✓		200		Spot 2 sks Sand k1 full
	1030							Open P.C.
	1035	2	5	✓		500		Injection Rate *no Blow*
	1040	3	21	✓		500		mix 7sks gel w/ 2sks Halls
	1055	3	70	✓		700		mix 125 sks SMD w/ 2sks Halls
	1115							Shut Down *no blow*
	1200	3	36	✓		400		mix 65 sks no circulation small blow
		3	37	✓		400		circulate
	1240	3	90	✓		500		Loose circulation - 160 sks mixed Shut Down
	1255	3	36			700		mix <del>65</del> sks 65 - circulate small amount of mud
	1315	3	10	✓		750		Displace cement
	1340	0	0	✓		1000		Close P.C.
	1345	2	40	✓		350		Reverse cement / wash sand off Plug *350 sks SMD total*
								wash up truck Pull P.C. Tool to Temp survey
	1430							Job complete Thank You Dave Preston Isaac