

CEMENTING LOG

Date 3/11/2014 District Liberal # 21 Ticket No. 53085
 Company American Warrior Rig Duke # 9
 Lease shadow Well No 4-17
 County GRAY State Ks
 Location _____

Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 24 Collar _____

Casing Depths Top _____ Bottom 1743

Drill Pipe: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Open Hole: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Capacity Factors: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Casing BBLs/LIN. FT 0.0637 LIN. FT/BBL _____
 Open Holes BBLs/LIN. FT _____ LIN. FT/BBL _____
 Drill Pipe BBLs/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLs/LIN. FT 0.0735 LIN. FT/BBL 13.6037
 BBLs/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type 10 bbl water
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 LEAD: Time _____ hrs. Type CLASS A
65/35, 6%GEL, 3%BWOC CC, 1/4 FLOSEAL Excess 50%
 Amt. 625 Sks Yield 2 ft³/sk Density 12.46 PPG
 TAIL: Time _____ hrs. Type CLASS A
3%cc, 1/4 floeal Excess _____
 Amt. 200 Sks Yield 1.2 ft³/sk Density 15.63 PPG
 WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total _____ BBLs

Pump Trucks Used: 700-686
 Bulk Equipment 562-467
531-744

Float Equipment: Manufacturer WEATHERFORD
 Shoe: Type GUIDE SHOE Depth 1743
 Float: Type AFU Insert Valve Depth 1701
 Centralizers: Quantity 3 Plugs Top 1 Bottom _____
 Stage Collars _____
 Special Equipment 1 Cement Basket @ 680 ft
 Disp: Fluid Type H2O Amt 108.3 bbls Weight 8.34 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER ALDO ESPINOZA

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
230PM						ARRIVE TO LOCATION -- RUN FLOAT EQUIPMENT
300PM						RIG UP
530PM						CASING ON BOTTOM
600PM						SAFETY MEETING
615PM	2500					PRESSURE TEST
630PM	150		10		6	10 BBL WATER SPACER
635PM	150		233		6	PUMP 223 BBL OF LEAD SLURRY CEMENT
712PM	180		276		6	PUMP 43 BBL OF TAIL SLURRY CEMENT
728PM					4	RELEASE PLUG- START DISPLACEMENT
732PM	30		296		6	20 BBL GONE
736PM	120		316		6	40 BBL GONE
740PM	230		336		6	60BBLGONE
743PM	360		356		6	80 BBL GONE
746PM	400		376		3	100 BBL GONE SLOW DOWN TO 3 BPM
748PM	1000		384		3	BUMP PLUG
754PM						RELEASE PRESSURE, CHECK FLOATS
756PM						RIG DOWN
830PM						LEAVE LOCATION
						53 BBL OF CEMENT BACK
						BY EMIGDIO'S REQUEST MIX LEAD SLURRY @ 13 # / G

FINAL DISP. PRESS. 400 PSI BUMP PLUG TO 1000 PSI BLEEDBACK 0.5 BBLs THANK YOU



CHARGE TO: *American Warrior*

ADDRESS

CITY, STATE, ZIP CODE

TICKET 26039

PAGE 1 OF 2

SERVICE LOCATIONS 1. *Nuss City KS*

WELL/PROJECT NO. *6-17* LEASE *Shadow* COUNTY/PARISH *Grege* STATE *KS* CITY *Copeland* DATE *19 MAR 14* OWNER

2. TICKET TYPE SERVICE SALES CONTRACTOR RIG NAME/NO. *DUKE 9* SHIPPED VIA *CT* DELIVERED TO *location* ORDER NO.

3. WELL TYPE *oil* WELL CATEGORY *Development* JOB PURPOSE *cement long string* WELL PERMIT NO. WELL LOCATION *17-28-30*

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	90	mi			6 ⁰⁰	540 ⁰⁰
578		1			Pump Charge	1	ea			1500 ⁰⁰	1500 ⁰⁰
402		1			Centralizer	5 1/2	in	10	ea	70 ⁰⁰	700 ⁰⁰
403		1			Cement Basket	5 1/2	in	1	ea	300 ⁰⁰	300 ⁰⁰
406		1			Latch down plug & baffle	5 1/2	in	1	ea	275 ⁰⁰	275 ⁰⁰
407		1			Insert float shoe w/ AUTO FILL	5 1/2	in	1	ea	375 ⁰⁰	375 ⁰⁰
											690

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 TIME SIGNED A.M. P.M.

11:30

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
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			

PAGE TOTAL 1	3720 ⁰⁰
2	6056 ¹³
subtotal	9776 ¹³
Gray TAX 7.3%	476 ⁸⁰
TOTAL	10,222 ⁹³



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 26039

CUSTOMER American Warriors WELL Shadow 6-17 DATE 19 MAR 14 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M			
325		1				Standard Cement (fir 8A-Z)	175	sk			14.50	2537.50	
284		1				calseal	8	sk	800	lb	35.00	280.00	
283		1				salt	900	lb			0.20	180.00	
292		1				balad-322	125	lb			8.00	1000.00	
276		1				flocele	50	lb			2.50	125.00	
290		1				D AIR	2	gal			42.00	84.00	
281		1				mud flush	500	lb			1.25	625.00	
221		1				KCL liquid	2	gal			25.00	50.00	
581		1				SERVICE CHARGE	175				2.00	350.00	
583		1				MILEAGE CHARGE	18325	TOTAL WEIGHT	90	LOADED MILES	824.63	TON MILES	824.63

CONTINUATION TOTAL 6056.13

JOB LOG

SWIFT Services, Inc.

DATE 12 MAR 14 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 6-17 LEASE Shadow JOB TYPE cement long string TICKET NO. 26039

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-Z cement w/ 4# Flocele 5 1/2" x 15.5# casing 126 jts 5299.3' - TD 5300' shoe jt 4215' 5307' Centralizee 1, 2, 4, 5, 6, 8, 10, 12, 14, 16 Basket #3
	0800							on loc TRK 114
	1108							start 5 1/2" x 15.5# casing in well
	1420							Drop ball - circulate
	1456	3 1/2	12			200		Pump 500 gal mud flush
		3 1/2	20			200		Pump 20 bbl KEL flush
	1505		7					Plug RH - MH 30 sks - 20 sks
	1512	4 1/2	35			200		MIX EA-Z cement 25 sks @ 15.3 ppg
								wash out pump & line
								Drop latch down plug
	1535	6 1/4	120			200		Displace plug
		6 1/4	750			750		
	1600	6 1/4	125			1500		Land plug
	1603							Release pressure to truck - dried up
	1607							wash truck
								RACK up
	1645							job complete
								Thanks Blaine Flint & Jared