

CEMENTING LOG

Date 11/30/2014 District Liberal # 21 Ticket No. 64532
 Company AMERICAN WARRIOR Rig DUKE # 10
 Lease O"BRATE FINNEY Well No 1-5
 County FINNEY CO. State KS.
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 8 5/8 Type j-55 Weight 24 # Collar _____

CEMENT DATA

Spacer Type 5 bbls h20
 Amt. _____ Sks Yield _____ ft³/sk Density 8.34 PPG _____
 LEAD: Time _____ hrs. Type ALWC 1 CLASS A
3% CC BWOC, 1/2 LB SK FLOSEAL Excess 100%
 Amt. 625 Sks Yield 2 ft³/sk Density 12.46 PPG _____
 TAIL: Time _____ hrs. Type CLASS C NEAT
3% CC, 1/4 LB/SK FLOSEAL Excess 100%
 Amt. 200 Sks Yield 1.2 ft³/sk Density 14.83 PPG _____
 WATER Lead 14.05 Gal/sk Tail 5.2 Gal/sk Total 187 BBLs

Casing Depths Top _____ Bottom 1725 FT.

Pump Trucks Used: 531-541
 Bulk Equipment 956-841
955-692

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 15.698
 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 13.605
 BBLs/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

Float Equipment: Manufacturer WEATHERFORD
 Shoe: Type GUIDESHOE Depth 1725 FT.
 Float: Type AFU INSERTFLOAT Depth 1685.95 FT.
 Centralizers: Quantity 3 Plugs Top 1 Bottom _____
 Stage Collars _____
 Special Equipment 1 basket
 Disp: Fluid Type H2O Amt 107 bbls Weight 8.34 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE ALEX CEMENTER Ruben Chavez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	
2:00 PM.						Got To Location Spot Trucks, And Rig Up.
6:50						Have A Prejob Safety Meeting
7:20		250		2	2	Pump 2 BBLs H2O To Fill Pump Lines
7:24						PRESSURE TEST 2000 pumping lines
7:27		250		5	3	4 Start pumpin g spacer 8 bbls h20
7:30		360		227.3	222.3	5 Start pumping lead cement 625 SK CEMENT, 222.3 bbls slurry.
8:10		160		270.1	42.8	5.5 Start pumpin g tail cement, 200 sk, 42.8 bbls slurry.
8:18						Shut down
						Wash pumping lines
						Drop the plug
8:20		0		300.1	30	7 Start displacement
8:24		360		365.1	65	5.5 Catch up cement pressure at
8:36		650		377.1	12	3 Slowdown pumping rate to 3 bpm.
8:40		800				Finished displacment
		1300				B ump the plug at 1300 psi
						Circulate 20 bbls slurry to pit.
8:45						Release the pressure; float held good.
						Job finished
						Rig down
						Thankyou

FINAL DISP. PRESS. 800 PSI BUMP PLUG TO 1300 PSI BLEEDBACK 0.5 BBLs **THANK YOU**



CHARGE TO: *American Warrior*

ADDRESS

CITY, STATE, ZIP CODE

TICKET 28126

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Ness City KS</i>	WELL/PROJECT NO. <i>1-5</i>	LEASE <i>O'Boate-Finney</i>	COUNTY/PARISH <i>Finney</i>	STATE <i>KS</i>	CITY <i>Garden City</i>	DATE <i>9 Dec 14</i>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>pure</i>	RIG NAME/NO. <i>10</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>location</i>	ORDER NO.	
3.	WELL TYPE <i>0.1</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>cement long string</i>	WELL PERMIT NO.	WELL LOCATION <i>5-23-32</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>		<i>1</i>			MILEAGE <i>TRK 110</i>	<i>90</i>	<i>mi</i>			<i>6.00</i>	<i>540.00</i>
<i>57B</i>		<i>1</i>			<i>Pump Charge</i>	<i>1</i>	<i>ea</i>			<i>1500.00</i>	<i>1500.00</i>
<i>402</i>		<i>1</i>			<i>Centralizer</i>	<i>5 1/2</i>	<i>in</i>	<i>9</i>	<i>ea</i>	<i>70.00</i>	<i>630.00</i>
<i>403</i>		<i>1</i>			<i>Cement Basket</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>300.00</i>	<i>300.00</i>
<i>406</i>		<i>1</i>			<i>Latch down plug & kaffle</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>275.00</i>	<i>275.00</i>
<i>407</i>		<i>1</i>			<i>Insert float shoe w/ AUTO FILL</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>375.00</i>	<i>375.00</i>

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.

11:10

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	<i>3620.00</i>
2	<i>6056.13</i>
subtotal	<i>9676.13</i>
Finney TAX 7.3%	<i>471.69</i>
TOTAL	<i>10,147.82</i>

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 28126

CUSTOMER American Warrior
WELL OB RATE - Finney 1-5
DATE 9 Dec 14
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY				UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
325		1				STANDARD cement (ForsA-2)	175	sk			14.50	2537.50	
284		1				calseal	800	lb	8	sk	35.00	280.00	
283		1				salt	900	lb			0.20	180.00	
292		1				halad - 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	gal			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		90		1.00	824.63	

CONTINUATION TOTAL 6056.13

JOB LOG

SWIFT Services, Inc.

DATE 9 DEC 14 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-5 LEASE ORATE - Finney JOB TYPE Cement long string TICKET NO. 28626

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 SL SA-2 cement w/ 7# floate TD=5000' 19 J's 5 1/2" x 15.5" casing 4975' shoejt 21' Cent 1, 3, 5, 7, 9, 11, 13, 15, 17 Basket #10
	0700							on loc TRK 110
	0920							start 5 1/2" x 15.5" casing in well
	1135							Drop ball - circulate
	1214	3 1/2	12				300	Pump 500gal mud flush
		3 1/2	20				300	Pump 20 bbl KCL flush
			7					Plug RH - MH 30 sk - 20 sk
	1230	3 1/2	35				300	mix SA-2 cement 125 sk @ 15.3 fpg
								Drop latch down plug wash out pump & line
	1250	6					200	Displace plug
		4	110				800	
	1330	4	119				1700	Land plug
								Release pressure to truck - dried up
								wash truck
								Rack up
	1410							job complete
								Thru Flint, Blaine & PRESTON