

CEMENTING LOG

Date 7/27/2015 District Liberal # 21 Ticket No. 67299
 Company American Warrior Rig Duke 5
 Lease O'Brate Finney Well No 1-36
 County Finney 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 1708.29

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 0.0636 LIN. FT/BBL _____
 Open Holes BBLS/LIN. FT _____ LIN. FT/BBL 13.6037
 Drill Pipe BBLS/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLS/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type _____ Stop loss _____
 Amt. _____ Sks Yield _____ ft³/sk Density 8.5 PPG

LEAD: Time _____ hrs. Type ALWC Class A
6% gel, 0.5 lbs/sk flo-seal, 3% calcium chloride Excess 100%
 Amt. 700 Sks Yield 2 ft³/sk Density 12.46 PPG

TAIL: Time _____ hrs. Type Class A Common
3% calcium chloride, 0.25#/sk flo-seal Excess 100%
 Amt. 200 Sks Yield 1.2 ft³/sk Density 15.6 PPG
 WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total 187 BBLs

Pump Trucks Used: 531-541
 Bulk Equipment 993-1066
955-554

Float Equipment: Manufacturer _____
 Shoe: Type REGULAR GUIDE SHOE Depth _____
 Float: Type AFU FLOAT VALVE Depth _____
 Centralizers: Quantity 1 Plugs Top 1 Bottom _____
 Stage Collars _____ Cement Basket
 Special Equipment _____
 Disp: Fluid Type FRESH WATER Amt 106 bbls Weight 8.33 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER Edgar A. Rodriguez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
9:30 pm						Got to location & spotted trucks / Rig up lines
9:30						Rig running casing
12:10 am						Casing on bottom. Will stab cement head and circulate while we rig up
12:35						Perform safety meeting
12:49	1200					Pressure test lines to 1000 psi
12:55	240		10		2.5	Pump 10 bbls of stop loss
12:59	310		249		6	Pump 700 sks of lead cmt (249 bbls @12.5)
1:53	200		43		4	Pump 200 sks of tail cmt (43 bbls @15.6)
1:51						Losing returns and getting them back/ Will slow rate down to 4 bpm
2:10						Shutdown / Drop plug
2:14	160				5	Pump 106 bbls of displacement
2:28	220				5	Got returns again and then lost them
2:31	580		95		3	Slow rate to bump plug
2:34	600		106		3	Bump plug at 530 psi and took it up to 1170 psi. Hold for 4 minutes
2:38						Floats held. 1/4 bbl back
2:45						Did not circulate cement back to surface / Will go in with 1" pipe
4:50						Waiting on dozer to spot bulk truck in because its muddy / Waiting on bulk
7:00						Bulk on location
8:10						Dozer on location / Will spot bulk in and begin 1" pipe procedures
8:54						Pump 1.5 bbls of fresh to make sure we are able to pump through 1" pipe
8:57						Pump 150 sks of Class A Cmt with 2% Calcium on side (32 bbls @15.6)
9:10						3 bbls of cement left in mix tub and cement topped off /
9:20						Clean lines and truck
9:40						Rig down equipment
11:00						Crew leave location

FINAL DISP. PRESS. 600 PSI BUMP PLUG TO 1170 PSI BLEEDBACK 1/4 BBLs THANK YOU



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

TICKET 28658

PAGE 1 OF 2

SERVICE LOCATIONS
 1. *New City KS* WELL/PROJECT NO. *1-36* LEASE *OBrate Finney* COUNTY/PARISH *Finney* STATE *KS* CITY *Piercerville* DATE *5 AUG 15* OWNER
 2. TICKET TYPE SERVICE CONTRACTOR *DUKE* RIG NAME/NO. *5* SHIPPED VIA *CT* DELIVERED TO *location* ORDER NO.
 3. WELL TYPE *oil* WELL CATEGORY *Development* JOB PURPOSE *cement two-stage longstring* WELL PERMIT NO. WELL LOCATION *36-25-31*
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE TRK 114	90	mi			5.00	450.00
579					Pump Charge	1	ea			1700.00	1700.00
402		1			Centralizer	5 1/2	in	10	ea	60.00	600.00
403		1			Cement Basket	5 1/2	in	2	ea	250.00	500.00
407		1			Insert float shoe w/ fill up	5 1/2	in	1	ea	300.00	300.00
408		1			DV tool	5 1/2	in	1	ea	3250.00	3250.00
417		1			DV latch down Ply & baffle	5 1/2	in	1	ea	200.00	200.00

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.
0530

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	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	7,000.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	420 47
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	15428.47
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Finney TAX 7.65%	892.83
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	16,319.30
<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 *ABC/bell* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 28658

CUSTOMER *American Warrior*

WELL *o Brato Finny 1-36*

DATE *5 AUG 15*

PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT	
		LOG	ACCT	DF			QTY	U/M	QTY	U/M			
330		1				SMD cement	200	sk			15.75	3150.00	
325		1				Standard cement (FargA-2)	125	sk			12.25	1531.25	
284		1				calseal	600	lb	6	sk	30.00	180.00	
283		1				salt	700	lb			0.20	140.00	
292		1				halocel-322	100	lb			8.00	800.00	
276		1				flacole	75	lb			2.25	168.75	
290		1				D-AIR	3	gal			42.00	126.00	
281		1				mud flush	500	gal			1.25	625.00	
221		1				KCL liquid	4	gal			25.00	100.00	
SERVICE CHARGE											1.50	487.50	
MILEAGE CHARGE						TOTAL WEIGHT	33,125	LOADED MILES	90	TON MILES	1490.63	0.75	1117.97

CONTINUATION TOTAL *8427.47*

JOB LOG

SWIFT Services, Inc.

DATE 5 Aug 15 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 1-36 LEASE Obate Finney JOB TYPE cement long string 2-stage TICKET NO. 28658

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								125 sk EA-2 w/ 4" floccle 200 sk SMD w/ 4" floccle 5 1/2" x 15.5" 96jts - 4030' shoejt 4" DV tool #20 - 3213' TD = 5000
	0000							on loc TRK 114
	0008							start 5 1/2" x 15.5" casing in well
	0130							Drop ball - circulate
	0230	4	12			200		Pump 500 gal mid flush
		4	20			200		Pump 20 bbl KCL flush
	0245	3 1/2	30			200		mix EA-2 cement 125 sk @ 15.3 ppg wash out P 1/2
	0305	5 1/2	88			200		Displace 1st stage plug
		5 1/2	95			600		
	0330	5 1/2	1500			1350		Land plug Release pressure to truck - dried up Drop bomb
						1300		open DV tool
	0338	5	20			200		Pump 20 bbl KCL flush
			7					plug RH - MH 30 sk - 20 sk
	0345	5	65			200		mix SMD cement 125 sk @ 12-14 ppg
	0417							wash out P 1/2
		5 1/2				200		Drop 2nd stage plug
		5 1/2	74			500		Displace plug
	0445	5 1/2	77			1600		Land plug - close DV
								Release pressure to truck - dried up
	0450							Wash truck
	0520							Rack up
	0530							job complete
								Thanks Blaine, Flint & Mike