

ALLIED CEMENTING CO., INC.

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

LIBERAL KS

KB
27255

DATE 2-24-13	SEC. 27	TWP. 29	RANGE 39W	CALLED OUT	ON LOCATION	JOB START 5:00 AM	JOB FINISH 7:00 PM
LEASE GORFZEU	WELL # A-27	LOCATION Big Bow Grade 45			COUNTY STANTON	STATE KS	
OLD OR NEW (Circle one) <input checked="" type="radio"/> NEW				to add 17 K.W. Sals Loc			

CONTRACTOR DUKE #6
 TYPE OF JOB 8 3/8 SURFACE
 HOLE SIZE 12 3/4 T.D. 1754'
 CASING SIZE 8 3/8 DEPTH 1754'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 500 PSI MINIMUM 0
 MEAS. LINE SHOE JOINT 4413'
 CEMENT LEFT IN CSG. 4413'
 PERFS. N/A
 DISPLACEMENT 10K BBL
 EQUIPMENT

OWNER SAME
 CEMENT
 AMOUNT ORDERED 425 3/4 CC 24 A-45
24 GYP SEAL 14 FOS 20L
150 C 24 CC
 COMMON 150 "C" @ 2440 3660
 POZMIX @
 GEL @
 CHLORIDE 19 SK DC @ 6400 1235 00
 ASC @
425 'A' @ 1790 7607 80
C-45 800 LB @ 342 2776 00
GYP SEAL FOS 20L 165 @ 37 60/SK 601 60
FOS SEAL 106 # @ 272 108 97
 @
 @
 @
 @
 @
 HANDLING 630 @ 245 852 00
 MILEAGE 28.66 X 50 X 2.60 3725 80
 TOTAL 28566 87

PUMP TRUCK CEMENTER RILYAN
 #589/530 HELPER A TAPIA
 BULK TRUCK
 #470-528 DRIVER A GARICA
 BULK TRUCK
 #477-467 DRIVER J. TORRES

REMARKS:

Thank You
CITE Approx 60 BBL TO PIT

SERVICE

DEPTH OF JOB 1754'
 PUMP TRUCK CHARGE 1000-2000 2213 75
 EXTRA FOOTAGE @
 MILEAGE 50 mi @ 720 385 00
 MANIFOLD + HEAD @ 275 00
 T UEL no SD @ 440 220 00
 @
 TOTAL 309375

CHARGE TO: DNR OIL & GAS
 STREET 12741 E CALEY #142
 CITY ENGLEWOOD STATE CO ZIP 80111

PLUG & FLOAT EQUIPMENT

8 3/8
 1- SW Plug @ 131 84
 1- AFU @ 418 94
 1- Guide Sha @ 460 98
 3- Cen Malams @ 74 55 559 26
 1- Basket @ 224 00
 TOTAL 1828 93

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE 25485 55
 DISCOUNT 8919 95 IF PAID IN 30 DAYS
16565 60
 SIGNATURE Mark Hollis
 PRINTED NAME MARK HOLLIS

Pressure Chart on Computer



CEMENTING LOG

STAGE NO. _____

Date 2-24-13 District LIBERTY Ticket No. 27254
 Company DNR OIL & GAS Rig _____
 Lease GOERTZEN Well No. A-27
 County JACKSON State KS
 Location Big Ben 45 & Rd 17 Field NEW
13.68 300 low

CEMENT DATA:
 Spacer Type: H₂O
 Amt. 10 Skys Yield _____ ft³/sk Density 8.3 PPG _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 7/8 Type _____ Weight 24 Collar _____

LEAD: Pump Time _____ hrs. Type A
3:00 2/19/15 2' Gyp 3' Rose Excess 100%
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

Casing Depths: Top 0 Bottom 1754

TAIL: Pump Time _____ hrs. Type C
2:00 Excess _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 519/550
 Bulk Equip. 470-528
172-457

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

Float Equip. Manufacturer WESTINGHOUSE
 Shoe Type REG 5.5 Depth _____
 Float Type RTU Depth _____

CAPACITY FACTORS:
 Casing: Bbbls/Lin. ft. 0.636 Lin. ft./Bbl. _____
 Open Holes: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbls/Lin. ft. 0.235 Lin. ft./Bbl. _____
 Perforations: From N/A ft. to _____ ft. Amt. _____

Centralizers: Quantity 3 Plugs Top 1 SW Birm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type H₂O Amt. _____ Bbbls. Weight _____ PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE MARK HOLLIS

CEMENTER R. Ryan

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						ON LOC + SAFETY MEETING
						Rig up
5:15				10		BREAK CIRC + Pump 10 BBL H ₂ O
5:30		200		2328	6	Mix 425 SK LEAD
5:49		200		31.5	6	Mix 150 SK TAIL
6:25					0	SHUT DOWN + Pump Plug
6:30					6	Disp CSN
6:50		400		100	3	SLOW TO 3 BPM
7:00		800		108	3	LAND Plug + RELEASE PSI
7:00						Float Holding
						Circ cut to SURFACE
						App 60 BBL

FINAL DISP. PRESS. 400 PSI BUMP PLUG TO 800 PSI BLEEDBACK 1/2 BBLs. THANK YOU

Date 3-2-13 District Liberal Ticket No. 53338
 Company DNR Rig Duke drilling
 Lease Goetzten Well No. 31A-27
 County Stanton State KS
 Location Big Bow KS Field _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5/8 Type _____ Weight 15.5 Collar _____

Casing Depths: Top 0 Bottom 5885

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 0770 T.D. 5978 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.0238 Lin. ft./Bbl. 42.01
 Open Holes: Bbls/Lin. ft. 0.0602 Lin. ft./Bbl. 16.59
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.0309 Lin. ft./Bbl. 32.406
 Bbls/Lin. ft. 0.0343 Lin. ft./Bbl. 29.15
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: Super Flush
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
10 barrels

LEAD: Pump Time _____ hrs. Type ASC 210 gel
14% deframer 10% FL160 10% salt S# 102 seal
 Amt. 200 Sks Yield 1.57 ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type CA 35 010 gel
14% 102 seal Excess _____
 Amt. 375 Sks Yield 1.97 ft³/sk Density 12.4 PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 530-484
 Bulk Equip. 472-467-562-554

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Mark Hollis CEMENTER _____

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS	
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period		RATE Bbls Min.
11:01		3000	-	-	-	-	Pressure test 3000 psi
11:25		200	-	12	-	2	12 barrels of super flush
11:35		400	-	55.9	-	5 1/2	55 barrels of cement at 14.4
11:54		0	0	-	-	0	End of cement washing to pit
12:00		100	-	50	-	5	50 barrels of water
12:10		300	-	90	-	7	90 barrels of mud
12:30		2000	-	-	-	0	landed plug 2000
12:31		0	-	-	-	-	Dropped tool wait 15 mins
12:50		1000	-	-	-	-2	Tool opened circulate 4 hours
5:30		0	-	-	-	2	plugged Rat and Mouse Holes
5:35		300	-	131	-	7	Pumping to well 131 bbl of lead
5:55		300	-	10	-	4	pumping 10 barrels of tail
6:00		0	0	-	-	-	Washing to pit
6:02		1000	-	83	-	5	Displacement @ 3 barrels
6:30		2,000	-	-	-	-	landed plug 2,000 Tool. closed
							THANK YOU

FINAL DISP. PRESS: 1,000 PSI BUMP PLUG TO 2,000 PSI BLEEDBACK 1 1/2 BBLs. THANK YOU