

## CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 10/18/13 District Oakley KS Ticket No. 061204  
 Company Berco Rig Berco 2  
 Lease Bernita Well No. 1-27  
 County Rawlins State KS  
 Location 27-1-36 Field \_\_\_\_\_

CEMENT DATA:

Spacer Type: WFR-II (super flush) 12 bbl  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 60/40 8% gel  
3/4" Flo-seal Excess \_\_\_\_\_

Amt. 450 Skys Yield 1.76 ft<sup>3</sup>/sk Density 12.92 PPG \_\_\_\_\_

TALL: Pump Time \_\_\_\_\_ hrs. Type Com 10% salt  
5" Gilsomite 2% gel Excess \_\_\_\_\_

Amt. 250 Skys Yield 1.49 ft<sup>3</sup>/sk Density 14.56 PPG \_\_\_\_\_

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 120 - Tyler  
 Bulk Equip. 600 - Chris  
566 - Brandon / Adam

Float Equip: Manufacturer Industrial Rubber

Shoe: Type AFU Float shoe Depth 4472.58

Float: Type Latchdown plug assembly Depth 4430.16

Centralizers: Quantity 11 Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equip. scratchers (20)

Disp. Fluid Type Water Amt. 106.45 Bbls. Weight \_\_\_\_\_ PPG \_\_\_\_\_

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG \_\_\_\_\_

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type New Weight 15.5 Collar \_\_\_\_\_

Casing Depths: Top KB Bottom 4472.58

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8 T.D. 4400 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. \_\_\_\_\_

Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE Ed Hayes

CEMENTER Paul Beaver

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min.	
5:25						Hold Safety Meeting
6:30			12.661			Run Pipe / Float equipment
			4.40661	16.4		Break circulation / Drop ball / Ball 400 #
			3.31661	19.71		mix 12 bbl WFR-II down casing
			91.70661	111.41		mix 20 sks in R.H.
						mix 15 sks in m.H
			29.88661	151.29		start cement / mix 415 sks Lite down casing
						weigh cement @ 12.92 #
						Tail with 250 sks Com
						weigh cement @ 14.56 #
			6.0661	157.29		stop cement / unhook from head
						wash-up pump & lines
						haul back up to casing / release plug
						start water displacement (106.45)
			20	177.29		400 # lift
			20	197.29		600 # lift
			20	217.29		900 # lift
			20	237.29		1100 # lift
			10	247.29		1300 # lift
			10	257.29		1500 # lift
			6.45	263.74		1800 # lift
7:30						Plug did land @ 2300 # lift pressure 1800
						Float did hold
						Cement did circulate (16 bbl)
						Hold Safety meeting

FINAL DISP. PRESS: 1800 PSI BUMP PLUG TO 2300 PSI BLEEDBACK 1/2 BBLs. THANK YOU Thank You!