



CEMENTING LOG

STAGE NO. _____

Date 4/2/14 District Redding Ticket No. 062378
 Company Renovo Rig Boreho 10
 Lease Neas's A Well No. 3-9
 County Cherokee State KS
 Location _____ Field _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type ALW 7/8" Floreal
 Excess _____
 Amt. 450 Skys Yield 120 ft³/sk Density 12.5 PPG

TAIL: Pump Time _____ hrs. Type Com 10 3/8 S&T 2 1/2 gal
 Excess _____
 Amt. 250 Skys Yield 148 ft³/sk Density 14.5 PPG

WATER: Lead 100 gals/sk Tail 62 gals/sk Total _____ Bbls.

Pump Trucks Used 423-287
 Bulk Equip. 566
373

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type, AF 60 Depth _____
 Centralizers: Quantity 14 Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. Seal stretchers 20-
 Disp. Fluid Type H₂O Amt. _____ Bbls. Weight 8.74 PPG
 Mud Type _____ Weight _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type Non Weight 15.12 Collar _____

Casing Depths: Top 419 Bottom 4760

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.038 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 Haines

CEMENTER Reddy

| TIME (AM/PM) | PRESSURES PSI | | FLUID PUMPED DATA | | | REMARKS |
|-----------------|-------------------|---------|-------------------|------------------------|----------------|--|
| | DRILL PIPE CASING | ANNULUS | TOTAL FLUID | Pumped Per Time Period | RATE Bbls Min. | |
| 10:00 | | | | | | Location, SPR mig setup Run Cas Circulate |
| | | | | 110.0 | 4.0 | mit 15 9/16 BH 10 9/16 MH |
| | | | | 40.0 | 4.0 | mit 40.5 5/16 ALW 14 1/2 to Bore 5 1/2 |
| | | | | | | Trk w/ Com 10 3/8 S&T 2 1/2 gal 5" Cement |
| | | | | | | Wash Truck |
| | | | | 30.0 | | Displace Plug w/ H ₂ O |
| | | | | 40.0 | | |
| | | | | 60.0 | | |
| | | | | 70.0 | | |
| | | | | 80.0 | | |
| | | | | 100.0 | | |
| | | | | 110.0 | | |
| | | | | 119.0 | | |
| 6:30 AM | | | | | | Card Plug JOB Complete |