

## CEMENTING LOG

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

Date 11-7-14 District Grant Bend Ticket No. 63947  
 Company Bracker Rig Bracker 1  
 Lease elsie Well No. 2-17  
 County Penney State Ka  
 Location quader city 4th Rd Field \_\_\_\_\_  
5th N chln

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type \_\_\_\_\_ Weight 24 Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 65/35 61.9cl  
31.00 4.0lb Excess \_\_\_\_\_

Amt. 625 Sks Yield 1.97 ft<sup>3</sup>/sk Density 12.5 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type class A 31.00  
 Excess \_\_\_\_\_

Amt. 150 Sks Yield 1.33 ft<sup>3</sup>/sk Density 15 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Casing Depths: Top \_\_\_\_\_ Bottom 1792

Pump Trucks Used 517 Candy man  
 Bulk Equip. 859 Kevin wright  
609-239 jore

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 12 1/4 T.D. 1792 ft. P.B. to \_\_\_\_\_ ft.

Float Equip: Manufacturer \_\_\_\_\_

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 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. \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type H2O Amt. 111.49 Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Charles King

| TIME         | PRESSURES PSI     |         | FLUID PUMPED DATA |                        |                | REMARKS                                 |
|--------------|-------------------|---------|-------------------|------------------------|----------------|---|
|              | DRILL PIPE CASING | ANNULUS | TOTAL FLUID       | Pumped Per Time Period | RATE Bbls Min. |   |
| <u>7:30</u>  |                   |         |                   |                        |                | <u>on location Rig up 5. m.</u>         |
|              |                   |         |                   |                        |                | <u>Rig ran 1792 8 5/8 cas</u>           |
| <u>11:16</u> |                   |         |                   |                        |                | <u>Broke over 20 Rig mud</u>            |
|              |                   |         |                   |                        |                | <u>deep ball pump through 21000 psi</u> |
| <u>11:50</u> |                   |         | <u>5</u>          |                        | <u>5</u>       | <u>pump 58B1 H2O</u>                    |
| <u>11:53</u> |                   |         | <u>219.28</u>     |                        | <u>7</u>       | <u>mix 625 or lead</u>                  |
| <u>12:41</u> |                   |         | <u>35.53</u>      |                        | <u>6</u>       | <u>mix 150 or tail</u>                  |
|              |                   |         |                   |                        |                | <u>shut down</u>                        |
| <u>12:55</u> |                   |         |                   |                        |                | <u>Release plug</u>                     |
| <u>1:00</u>  |                   |         | <u>111.49</u>     |                        | <u>6</u>       | <u>displace 111.49 Bbl H2O</u>          |
| <u>1:22</u>  |                   |         |                   |                        |                | <u>plug did sand</u>                    |
| <u>1:25</u>  |                   |         |                   |                        |                | <u>float did hold</u>                   |
|              |                   |         |                   |                        |                | <u>cement did cure</u>                  |