

Date 3-30-2013 District ML Ticket No. 59759  
 Company Berexco Rig Picaversi  
 Lease Tamr Well No. 1-23  
 County Ford State KS  
 Location Vic Ford, KS Field 23-275-24a

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 5 1/2 Type \_\_\_\_\_ Weight 15.5 lb Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 65:35:60 Gel  
1/4# floes 1 Excess \_\_\_\_\_

Amt. 200 Sks Yield 1.95 ft<sup>3</sup>/sk Density 12.5 PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type CLASS A ASC  
6# floes 1 + .592 FLIKO 1/4# Delosmer

Amt. 220 Sks Yield 1.57 ft<sup>3</sup>/sk Density 14.5 PPG

WATER: Lead 10.1 gals/sk Tail 7.23 gals/sk Total 86 Bbls.

Casing Depths: Top 1CB Bottom 5200'

Pump Trucks Used 360-265  
 Bulk Equip. 381-252

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8 T.D. 5200 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.41  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip: Manufacturer Industrial Rubber  
 Shoe: Type DFD Floater Shoe Depth 5200'  
 Float: Type Latch Down Plug Depth 5157'  
 Centralizers: Quantity 14 Plugs Top 1 Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. DV Tool  
 Disp. Fluid Type Mud, water Amt. 122 Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE Cameron Wilson

CEMENTER Darin Franklin

| TIME | PRESSURES PSI     |         | FLUID PUMPED DATA |                        |                | REMARKS                                       |
|------|-------------------|---------|-------------------|------------------------|----------------|---|
|      | DRILL PIPE CASING | ANNULUS | TOTAL FLUID       | Pumped Per Time Period | RATE Bbls Min. |   |
|      | <u>300</u>        |         |                   |                        |                | <u>Pipe on bottom &amp; break circulation</u> |
|      | <u>250</u>        |         |                   |                        | <u>5</u>       | <u>mix 50% scavenger cement</u>               |
|      | <u>250</u>        |         |                   |                        | <u>5</u>       | <u>mix 150% loss cement</u>                   |
|      | <u>250</u>        |         |                   |                        | <u>5</u>       | <u>mix 220% tail cement</u>                   |
|      |                   |         |                   |                        |                | <u>Shut down</u>                              |
|      |                   |         |                   |                        |                | <u>Wash pump &amp; lines</u>                  |
|      |                   |         |                   |                        |                | <u>Release plug</u>                           |
|      | <u>200</u>        |         |                   |                        | <u>5</u>       | <u>Start displacement</u>                     |
|      | <u>500</u>        |         |                   | <u>49</u>              | <u>5</u>       | <u>1st pressure at 49 bbls</u>                |
|      | <u>1100</u>       |         |                   | <u>110</u>             | <u>3</u>       | <u>slow rate to 32pm at 110 bbls</u>          |
|      | <u>1900</u>       |         |                   | <u>122</u>             | <u>3</u>       | <u>bump plug at 122 bbls 1100-1900 ps/</u>    |
|      |                   |         |                   |                        |                | <u>plug did hold</u>                          |
|      |                   |         |                   |                        |                | <u>drop Dst</u>                               |
|      | <u>1200</u>       |         |                   | <u>1/4</u>             | <u>1/4</u>     | <u>open tool wash 20 minutes</u>              |
|      |                   |         |                   |                        |                | <u>open tool at 1/4 bbls 1200 ps/</u>         |
|      |                   |         |                   |                        |                | <u>Circulate 4 hours</u>                      |

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 County \_\_\_\_\_ State \_\_\_\_\_  
 Location \_\_\_\_\_ Field \_\_\_\_\_

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 5 1/2 Type \_\_\_\_\_ Weight 15.5 Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 6513016906el  
2 1/4 Flases Excess \_\_\_\_\_  
 Amt. 350 Sks Yield 1.95 ft<sup>3</sup>/sk Density 12.5 PPG

Casing Depths: Top KB Bottom 1600

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead 10.1 gals/sk Tail \_\_\_\_\_ gals/sk Total 84 Bbls.

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8 T.D. 5200 ft. P.B. to \_\_\_\_\_ ft.

Pump Trucks Used 360-265  
 Bulk Equip. 356-290

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0238 Lin. ft./Bbl. 42.01  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. 0309 Lin. ft./Bbl. 32.41  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type Freshwater Amt. 38 Bbls. Weight 8.34 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

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

CEMENTER \_\_\_\_\_

| TIME<br>AM/PM | PRESSURES PSI     |         | FLUID PUMPED DATA |                        |                | REMARKS  |
|---------------|-------------------|---------|-------------------|------------------------|----------------|--|
|               | DRILL PIPE CASING | ANNULUS | TOTAL FLUID       | Pumped Per Time Period | RATE Bbls Min. |  |
|               | 100               |         |                   |                        | 3              | mix 30 sb for Pct hole   |
|               | 100               |         |                   |                        | 3              | mix 20sb for mouse hole  |
|               | 200               |         |                   |                        | 5              | mix 3000yr tail cement   |
|               |                   |         |                   |                        |                | Shut down<br>Wash pump & lines<br>Release PTLWS                            |
|               | 300               |         |                   |                        | 4              | Start displacement   |
|               | 500               |         |                   | 25                     | 4              | Lift pressure at 2.5 hrs   |
|               | 500               |         |                   | 30                     | 3              | slow rate to 3 bpm at 30 bbls  |
|               | 1500              |         |                   | 38                     | 3              | bump plug at 38 bbls 500-1500 psi<br>loss dip hole<br>cement did circulate |

FINAL DISP. PRESS: 500 PSI BUMP PLUG TO 1500 PSI BLEEDBACK None BBLs.

THANK YOU