



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1229470  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

|                                   |                 |   |
|-----------------------------------|-----------------|---|
| Spud Date or<br>Recompletion Date | Date Reached TD | Completion Date or<br>Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1229470

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used  |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   |           |         |             |               |         |

|  |   |   |
|--|---|---|
| <b>DISPOSITION OF GAS:</b><br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | <b>METHOD OF COMPLETION:</b><br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____<br><i>(Submit ACO-4)</i> | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|---|---|

# ALLIED OIL & GAS SERVICES, LLC 064117

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oaklawn, KS

|                                    |                    |  |  |            |                           |                         |                          |
|------------------------------------|--------------------|--|--|------------|---------------------------|-------------------------|--------------------------|
| DATE <u>10-4-14</u>                | SEC. <u>4</u>      | TWP. <u>9</u>                          | RANGE <u>24</u>                        | CALLED OUT | ON LOCATION <u>1:30pm</u> | JOB START <u>6:00pm</u> | JOB FINISH <u>6:30pm</u> |
| LEASE <u>Popp</u>                  | WELL # <u>1-04</u> | LOCATION <u>Wokooey, W to Roadline</u> |  |            | COUNTY <u>Wagoner</u>     | STATE <u>KS</u>         |                          |
| OLD OR NEW (Circle one) <u>NEW</u> |                    |  | <u>W to 190, W to N, Y to W 5 into</u> |            |                           | <u>6100am</u>           |                          |

CONTRACTOR Maderick 108

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 274'

CASING SIZE 8 7/8 DEPTH 274'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 16.58 bbl

OWNER same

CEMENT

AMOUNT ORDERED 180 sty com 39.00

290 gal

**EQUIPMENT**

PUMP TRUCK CEMENTER Loraine E. Akente

# 422 HELPER Wayne McGloughy

BULK TRUCK

# 891/241 DRIVER Chris Madrano (hus)

BULK TRUCK

# DRIVER

|          |                           |   |              |                |
|----------|---------------------------|---|--------------|----------------|
| COMMON   | <u>180 sty</u>            | @ | <u>17.90</u> | <u>3222.00</u> |
| POZMIX   |                           | @ |              |                |
| GEL      | <u>338 gal</u>            | @ | <u>1.50</u>  | <u>169.00</u>  |
| CHLORIDE | <u>508 gal</u>            | @ | <u>1.10</u>  | <u>558.80</u>  |
| ASC      |                           | @ |              |                |
|          |                           | @ |              |                |
|          |                           | @ |              |                |
|          |                           | @ |              |                |
|          |                           | @ |              |                |
|          |                           | @ |              |                |
|          |                           | @ |              |                |
| HANDLING | <u>179.64</u>             | @ | <u>2.70</u>  | <u>482.71</u>  |
| MILEAGE  | <u>880 ton X 80 Y 275</u> |   |              | <u>1953.60</u> |

**REMARKS:**

Mix 180 sty cement

Displace with water

Cement did circulate

Thank you

TOTAL \_\_\_\_\_

CHARGE TO: Colbreath

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

|                   |             |   |             |                |
|-------------------|-------------|---|-------------|----------------|
| DEPTH OF JOB      |             |   |             |                |
| PUMP TRUCK CHARGE |             |   |             | <u>1512.25</u> |
| EXTRA FOOTAGE     |             | @ |             |                |
| MILEAGE           | <u>1410</u> | @ | <u>7.70</u> | <u>616.00</u>  |
| MANIFOLD          |             | @ |             | <u>275.00</u>  |
| <u>M.I.C.U.</u>   | <u>80</u>   | @ | <u>4.40</u> | <u>352.00</u>  |
| <u>Wait time</u>  | <u>1hr</u>  | @ |             | <u>440.00</u>  |

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

**PLUG & FLOAT EQUIPMENT**

|  |   |  |  |  |
|--|---|--|--|--|
|  | @ |  |  |  |
|  | @ |  |  |  |
|  | @ |  |  |  |
|  | @ |  |  |  |
|  | @ |  |  |  |

TOTAL \_\_\_\_\_

PRINTED NAME Deby Kover

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

## CEMENTING LOG

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

Date 10-4-10 District Oshtemo Ticket No. 69117  
 Company Calbreath Rig Mojave 108  
 Lease Papp Well No. 1-04  
 County Stanton State KS  
 Location 4-9-24 Field \_\_\_\_\_  
 (aka Kennel Woodbine 76, 84, 94, 50)

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 1/2 Type new Weight 234 Collar \_\_\_\_\_

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

LEAD: Pump Time \_\_\_\_\_ hrs. Type Cum 39.00  
 Excess \_\_\_\_\_  
 Amt. 180 Sks Yield 1.34 ft<sup>3</sup>/sk Density 15.02 PPG \_\_\_\_\_

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

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

Pump Trucks Used 422- Wayne  
 Bulk Equip. 891/310- Chris

Casing Depths: Top KB Bottom 274'

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 12 1/4 T.D. 274 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .064 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. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type water Amt. 6.58 Bbls. Weight \_\_\_\_\_ PPG \_\_\_\_\_  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG \_\_\_\_\_

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

CEMENTER Lohene

| TIME | PRESSURES PSI |                   | FLUID PUMPED DATA |             |                        | REMARKS                  |
|------|---------------|-------------------|-------------------|-------------|------------------------|--------------------------|
|      | AM/PM         | DRILL PIPE CASING | ANNULUS           | TOTAL FLUID | Pumped Per Time Period |                          |
| 6:00 |               |                   |                   |             |                        | Hold safety meeting      |
|      |               |                   |                   |             |                        | start water              |
|      |               |                   |                   |             |                        | start cement             |
|      |               |                   |                   |             |                        | weigh cement 3 times 15# |
|      |               |                   |                   |             |                        | 3# cement                |
|      |               |                   |                   |             |                        | wash up pump 4 times     |
| 6:30 |               |                   |                   | 30          | 1358                   | Dry pipe with water      |
|      |               |                   |                   |             |                        | cement did circulate     |
|      |               |                   |                   |             |                        | to collar only           |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        | Hold safety meeting      |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |
|      |               |                   |                   |             |                        |                          |

# ALLIED OIL & GAS SERVICES, LLC 064123

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, TX

|                         |                   |  |                       |            |                            |                         |                          |
|-------------------------|-------------------|--|-----------------------|------------|----------------------------|-------------------------|--------------------------|
| DATE <u>10-12-14</u>    | SEC. <u>4</u>     | TWP. <u>9</u>                          | RANGE <u>24</u>       | CALLED OUT | ON LOCATION <u>11:00am</u> | JOB START <u>4:30am</u> | JOB FINISH <u>5:30am</u> |
| LEASE <u>Popp</u>       | WELL # <u>1-4</u> | LOCATION <u>S1/4 Peter 2N, 4E, 5W,</u> |                       |            | COUNTY <u>Grimes</u>       | STATE <u>TX</u>         |                          |
| OLD OR NEW (Circle one) |                   |  | <u>3/4E, 5 units.</u> |            |                            |                         |                          |

CONTRACTOR Maverick 108

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4110'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 2175'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT 23.82 661

OWNER Same

CEMENT AMOUNT ORDERED 255 sks 60/40 4% gel

Ver # 110-502

**EQUIPMENT**

PUMP TRUCK CEMENTER LaRone Edwards

# 422 HELPER Wayne McElghy

BULK TRUCK DRIVER Wayne Massalle

# 894/241 DRIVER \_\_\_\_\_

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

|          |                              |   |              |                |
|----------|------------------------------|---|--------------|----------------|
| COMMON   | <u>153 sks</u>               | @ | <u>17.90</u> | <u>2738.70</u> |
| POZMIX   | <u>102 sks</u>               | @ | <u>9.39</u>  | <u>953.70</u>  |
| GEL      | <u>877'</u>                  | @ | <u>.50</u>   | <u>438.50</u>  |
| CHLORIDE |                              | @ |              |                |
| ASC      |                              | @ |              |                |
|          | <u>Flow-sap 64#</u>          | @ | <u>2.97</u>  | <u>190.08</u>  |
|          |                              | @ |              |                |
|          |                              | @ |              |                |
|          |                              | @ |              |                |
|          |                              | @ |              |                |
|          |                              | @ |              |                |
| HANDLING | <u>2738.70 sks</u>           | @ | <u>2.48</u>  | <u>679.20</u>  |
| MILEAGE  | <u>11.44 hrs X 63 X 2.25</u> |   |              | <u>2044.90</u> |

**REMARKS:**

Mix 50 sks 2175'

Mix 100 sks 975'

Mix 50 sks 325'

Mix 10 sks 40' w/ plug

Mix 15 sks M.I.F.

Mix 30 sks R.I.F.

Thank you

CHARGE TO: Colbreath

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

**SERVICE**

DEPTH OF JOB 2175'

PUMP TRUCK CHARGE \_\_\_\_\_ 2483.59

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE M.I.F. 63 @ 7.70 500.50

MANIFOLD @ \_\_\_\_\_

M.I.F. 65 @ 4.90 386.00

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

**PLUG & FLOAT EQUIPMENT**

wooden plug @ 110.00

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

PRINTED NAME Derby Keever

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

Date 10-12-14 District Oakley, KS Ticket No. 64123  
 Company Calbreath Rig Moderate 108  
 Lease Popp Well No. 1-4  
 County Graham State KS  
 Location 4-9-24 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 \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type Lok 10 490gal  
 Excess \_\_\_\_\_  
 Amt. 255 Sks Yield 1.42 ft<sup>3</sup>/sk Density 138 PPG \_\_\_\_\_

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_

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

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

Pump Trucks Used 422 - Wayne

Bulk Equip. 390/241 - Wayne

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 7/8 T.D. 4110 ft. P.B. to 2175' ft.

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

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

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

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

Special Equip. \_\_\_\_\_

Disp. Fluid Type water/mud Amt. 2383 Bbls. Weight \_\_\_\_\_ PPG \_\_\_\_\_

Mud Type 30/2082 Weight \_\_\_\_\_ PPG \_\_\_\_\_

CAPACITY FACTORS:

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

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

Drill Pipe: Bbls/Lin. ft. 101422 Lin. ft./Bbl. \_\_\_\_\_

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

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

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

COMPANY REPRESENTATIVE Sub

CEMENTER LoRane

| TIME | PRESSURES PSI |                   | FLUID PUMPED DATA |             |                        | REMARKS   |
|------|---------------|-------------------|-------------------|-------------|------------------------|---|
|      | AM/PM         | DRILL PIPE CASING | ANNULUS           | TOTAL FLUID | Pumped Per Time Period |   |
| 4:30 |               |                   |                   |             | 5.0                    | Hold safety meeting<br>Start water spacer<br>Start cement 50 sks 2175'<br>weigh cement 13.8#<br>stop cement |
|      |               |                   |                   |             | 3.0                    | Pump water spacer   |
|      |               |                   |                   |             | 20.82                  | Displace with mud   |
|      |               |                   |                   |             | 5.0                    | Start water spacer  |
|      |               |                   |                   |             |                        | Mix 100 sks cement 975'   |
|      |               |                   |                   |             |                        | Stop cement   |
|      |               |                   |                   |             | 2.0                    | Pump water spacer 30 cement   |
|      |               |                   |                   |             |                        | Mix 50 sks cement 325'  |
|      |               |                   |                   |             | 1.0                    | Displace with water   |
|      |               |                   |                   |             |                        | Mix 100 sks 40' cement  |
|      |               |                   |                   |             |                        | Mix 150 sks M. 11'  |
|      |               |                   |                   |             |                        | Mix 30 sks R. 11'   |
| 5:30 |               |                   |                   |             |                        | Wash up truck   |
|      |               |                   |                   |             |                        | Hold safety meeting   |
|      |               |                   |                   |             |                        | Thank you   |