

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1248385  
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: \_\_\_\_\_

1248385



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:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |             |               |         |
| 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><br><input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|---|---|



**MORNING DRILLING REPORT**

H&D Exploration, LLC

**SOUTHWIND DRILLING, INC.**

RIG No. 8

Well Name: SB #1  
 Location: 1278' FSL & 1496' FWL  
 Section: 19-14S-12W  
 County: Russell  
 API: 15-167-24028-00-00

Elevation: GL 1720'  
 KB 1729'  
 Est. TD: 3400'

Rig No 8 (Pusher Bill Sanders) 620-617-0708  
 Rig No 8 (Doghouse) 620-566-7052  
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 16 joints of new 2 3/8, 5/8" casing, Tally @ 665', Set @ 667', used 280 sacks of 80/20, 3% cc, 2% gel, cement circulated, by Quality (Ticket #930), plug down @ 2:00 am on 03.20.15.

Production Info: Ran 77 joints of used 1 7/8, 5 1/2" casing, Tally @ 3233', Set @ 3233', used 150 sacks of Common, 10% salt, 5% gilsonite, 30 sacks for Rat hole, 180 sacks total, cemented by Quality (Ticket #1403), job complete @ 1:15 pm on 03.27.15.

Rotary Total Depth: 3250'  
 Log Total Depth: 3253'  
 Geologist: Jim Musgrove

**7:00 A.M. Depth: 3250' 7:00 A.M. Current Operation: TEAR DOWN**

| Spud Date & Time:          | 03/19/15    | 03/20/15 | 03/21/15  | 03/22/15     | 03/23/15     | 03/24/15     | 03/25/15     | 03/26/15     | 03/27/15 | Total   |
|----------------------------|-------------|----------|-----------|--------------|--------------|--------------|--------------|--------------|----------|---------|
| 03/19/2015 @ 10:30 AM      | Day 1       | Day 2    | Day 3     | Day 4        | Day 5        | Day 6        | Day 7        | Day 8        | Day 9    |         |
| Total Depth (7:00am)       | 0           | 867      | 867       | 1655         | 2270         | 2380         | 2984         | 3140         | 3250     |         |
| Daily Progress             | 667         | 0        | 988       | 615          | 110          | 604          | 155          | 110          | 0        | 3250    |
| Ft. Per Hr.                | 95.29       | 0.00     | 84.09     | 48.24        | 31.43        | 35.01        | 24.00        | 25.88        | 0.00     | 3250    |
| Current Operation (7:00am) | Rig Up      | WOC      | Repair    | Drilling     | TOWB         | Drilling     | Short Trip   | DST #4       | LDDP     | 51.59   |
| Formation                  | Surface     | Surface  | Anhydrite | Lime / Shale | Lime / Shale | Lime / Shale | Lime / Shale | Lime / Shale | Lansing  |         |
| Fuel Used (32.4 Gal/Inch)  | 226.80      | 0.00     | 388.80    | 421.20       | 194.40       | 388.80       | 324.00       | 259.20       | 356.40   | 2559.60 |
| Survey (degree & depth)    | 3/4' @ 667' |          |           | 1/4' @ 2270' |              |              | 1' @ 2984'   | 1' @ 3250'   |          |         |

| Mud Cost                  | \$0.00 | \$0.00    | \$0.00    | \$0.00    | \$6,906.65 | \$0.00    | \$0.00    | \$657.35  | \$239.50  | \$7,803.50 |
|---------------------------|--------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|
| Weight (# / Gal)          |        |           |           |           | 8.9        | 9.5       |           |           |           |            |
| Vis (Funnel)              |        |           |           |           | 48         | 50        |           |           |           |            |
| Water Loss (cc)           |        |           |           |           |            |           |           |           |           |            |
| <b>Bit #1</b>             |        |           |           |           |            |           |           |           |           |            |
| Bit Make / Type           | JZ     |           |           |           |            |           |           |           |           |            |
| Bit Size                  | 12 1/4 |           |           |           |            |           |           |           |           |            |
| Bit Hours                 | 7.00   |           |           |           |            |           |           |           |           | 7.00       |
| <b>Bit #2</b>             |        |           |           |           |            |           |           |           |           |            |
| Bit Make / Type           |        | Reed R24A | Reed R24A | Reed R24A | Reed R24A  | Reed R24A | Reed R24A | Reed R24A | Reed R24A |            |
| Bit Size                  |        | 7 7/8     | 7 7/8     | 7 7/8     | 7 7/8      | 7 7/8     | 7 7/8     | 7 7/8     | 7 7/8     |            |
| Bit Hours                 |        | 0.00      | 11.75     | 12.75     | 3.50       | 17.25     | 6.50      | 4.25      | 0.00      | 56.00      |
| Bit Cumulative Hours      | 7.00   | 0.00      | 11.75     | 12.75     | 3.50       | 17.25     | 6.50      | 4.25      | 0.00      | 63.00      |
| Weight on Bit (WOB)       | 10,000 |           | 15,000    | 30,000    | 25,000     | 30,000    | 35,000    | 35,000    |           |            |
| RPM                       | 80     |           | 80        | 80        | 80         | 80        | 80        | 80        |           |            |
| Pump Pressure             | 600    |           | 650       | 600       | 700        | 800       | 750       | 800       |           |            |
| Drilling (Rotating) Hours | 7.00   | 0.00      | 11.75     | 12.75     | 3.50       | 17.25     | 6.50      | 4.25      | 0.00      | 63.00      |

| Daywork Hrs. (on Operator's time) |      |      |      |      |       |      |       |       |      |       |
|-----------------------------------|------|------|------|------|-------|------|-------|-------|------|-------|
| Rat Hole (>.75 Hrs)               |      |      |      |      |       |      |       |       |      | 0.00  |
| Wait on Cement                    |      |      |      |      |       |      |       |       |      | 0.00  |
| Trip                              | 2.50 |      |      | 2.75 | 9.25  | 0.50 | 8.25  | 4.50  |      | 27.75 |
| Circulate                         | 0.25 |      |      | 3.25 | 3.50  | 3.00 | 3.50  | 4.50  |      | 18.00 |
| Tool                              |      |      |      |      | 2.00  |      | 1.50  | 0.75  |      | 4.25  |
| Testing                           |      |      |      |      | 5.00  |      | 3.00  | 2.00  |      | 10.00 |
| Clean Floor after DST             |      |      |      |      |       |      |       | 0.25  |      | 0.25  |
| Dump Fluid after DST              |      |      |      |      |       |      |       | 1.25  |      | 1.25  |
| LDDP / LDDC                       |      |      |      |      |       |      |       | 0.75  | 2.50 | 3.25  |
| Run Casing / Circ / Cement        | 2.00 |      |      |      |       |      |       |       |      | 4.75  |
| Logging                           |      |      |      |      |       |      |       |       | 0.50 | 0.50  |
| Set Slips                         |      |      |      |      |       |      |       |       |      | 0.50  |
| Nipple Down/ Jet Cellar           |      |      |      |      |       |      |       |       |      | 0.50  |
| Billable Hours                    | 4.75 | 0.00 | 0.00 | 6.00 | 19.75 | 3.50 | 16.25 | 18.75 | 6.25 | 75.25 |

| Non-Billable Hours (Southwind's time) |       |       |       |      |      |      |      |      |      |       |
|---------------------------------------|-------|-------|-------|------|------|------|------|------|------|-------|
| Rig Up / Tear Down                    |       |       |       |      |      |      |      |      | 9.25 | 9.25  |
| Wait on Cement (NB)                   | 5.00  |       |       |      |      |      |      |      |      | 5.00  |
| Drill Mouse Hole                      |       |       |       |      |      |      |      |      |      | 0.00  |
| Drill Rat Hole (<.75 hrs)             | 0.50  |       |       |      |      |      |      |      |      | 0.50  |
| Drill Plug                            |       |       |       |      |      |      |      |      |      | 0.00  |
| Circulate / Trip (Surface)            |       |       |       |      |      |      |      |      |      | 0.00  |
| Rig Repair                            | 3.00  | 24.00 | 8.50  | 1.25 | 0.25 | 0.25 |      |      |      | 37.25 |
| Connections                           | 3.25  |       | 2.50  | 2.25 | 0.25 | 2.25 | 0.50 | 0.50 |      | 11.50 |
| Jet/Displace                          | 0.25  |       | 0.75  | 0.75 |      |      |      |      |      | 1.75  |
| Surveys                               | 0.25  |       |       | 0.25 |      |      | 0.25 | 0.25 |      | 1.00  |
| Rig Check                             |       |       | 0.50  | 0.75 | 0.25 | 0.75 | 0.50 | 0.25 |      | 3.00  |
| Trip Time (NB)                        |       |       |       |      |      |      |      |      |      | 0.00  |
| Lost Circulation (< 2 hrs)            |       |       |       |      |      |      |      |      |      | 0.00  |
| Lay Down Kelly / MH & RH              |       |       |       |      |      |      |      |      | 0.50 | 0.50  |
| Non-Billable Hrs.                     | 12.25 | 24.00 | 12.25 | 5.25 | 0.75 | 3.25 | 1.25 | 1.00 | 9.75 | 69.75 |

|                            |                    |             |                     |                    |                    |                    |                    |                    |                    |                     |
|----------------------------|--------------------|-------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| Footage Cost               | \$ 8,004.00        | \$ -        | \$ 11,856.00        | \$ 7,380.00        | \$ 1,320.00        | \$ 7,248.00        | \$ 1,872.00        | \$ 1,320.00        | \$ (108.00)        | \$ 38,892.00        |
| Daywork Cost               | \$ 1,425.00        | \$ -        | \$ -                | \$ 1,800.00        | \$ 5,925.00        | \$ 1,050.00        | \$ 4,875.00        | \$ 5,625.00        | \$ 1,875.00        | \$ 22,575.00        |
| <b>Combined Est. Cost*</b> | <b>\$ 9,429.00</b> | <b>\$ -</b> | <b>\$ 11,856.00</b> | <b>\$ 9,180.00</b> | <b>\$ 7,245.00</b> | <b>\$ 8,298.00</b> | <b>\$ 6,747.00</b> | <b>\$ 6,945.00</b> | <b>\$ 1,767.00</b> | <b>\$ 61,467.00</b> |

|  |   |
|--|---|
| <b>DST #1 Info -</b><br>Footage Interval: 2212' - 2270' "Tarkio"<br>Recovery: 315' Gas in Pipe<br>15' Mud  | <b>DST #2 Info -</b><br>Footage Interval: 2240' - 2295' "Tarkio"<br>Recovery: Mis-Run (tool would not open)                         |
| <b>DST #3 Info -</b><br>Footage Interval: 2881' - 2984' KC "A - F"<br>Recovery: 38' Slight Oil Spotted Mud | <b>DST #4 Info -</b><br>Footage Interval: 3078' - 3140' KC "H-J"<br>Recovery: 564' Gas in Pipe<br>60' Free Oil<br>1400' Oil Cut Mud |

Incon Pyrite @ 256' - 262'

Anhydrite @ 661' - 682'

Displaced @ 2073' - 2105'



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 930

|         |      |      |       |         |       |             |         |
|---------|------|------|-------|---------|-------|-------------|---------|
| Date    | Sec. | Twp. | Range | County  | State | On Location | Finish  |
| 3-20-15 | 19   | 14   | 12    | Russell | KS    |             | 2:00 AM |

Location B Hill 4 1/2 Corners 1/4 E NW

|                     |               |            |        |  |  |
|---------------------|---------------|------------|--------|--|--|
| Lease               | SB            | Well No.   | #1     | Owner  | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |
| Contractor          | Southwest #18 |            |        | Charge To  | HD   |
| Type Job            | Surf Line     |            |        | Street   |  |
| Hole Size           | 12"           | T.D.       | 667'   | City   | State  |
| Csg.                | 8 5/8"        | Depth      | 667'   | The above was done to satisfaction and supervision of owner agent or contractor. |  |
| Tbg. Size           |               | Depth      |        | Cement Amount Ordered  | 250 80/20 30 2 1/2 1/2   |
| Tool                |               | Depth      |        |  |  |
| Cement Left in Csg. | 20            | Shoe Joint | 20     |  |  |
| Meas Line           |               | Displace   | 41 bbl |  |  |

**EQUIPMENT**

|         |    |     |          |        |          |
|---------|----|-----|----------|--------|----------|
| Pumptrk | 17 | No. | Cementer |        | Common   |
|         |    |     | Helper   | Nick   |          |
| Bulktrk | 13 | No. | Driver   | Driver | Poz. Mix |
|         |    |     | Driver   | Driver | Gel.     |
| Bulktrk | PU | No. | Driver   | Driver | Calcium  |
|         |    |     | Driver   | Driver |          |

**JOB SERVICES & REMARKS**

|                    |                         |
|--------------------|-------------------------|
| Remarks:           | Hulls                   |
| Rat Hole           | Salt                    |
| Mouse Hole         | Flowseal                |
| Centralizers       | Kol-Seal                |
| Baskets            | Mud CLR 48              |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |

**FLOAT EQUIPMENT**

|                |     |
|----------------|-----|
| Guide Shoe     |     |
| Centralizer    |     |
| Baskets        |     |
| AFU Inserts    |     |
| Float Shoe     |     |
| Latch Down     |     |
| Rubber Plug    |     |
| Butt Plug      |     |
| Pumptrk Charge |     |
| Mileage        | 9.5 |

Cement Circulated!

Quality Oilwell Cementing

|              |  |
|--------------|--|
| Tax          |  |
| Discount     |  |
| Total Charge |  |

X Signature



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1409

|      |         |      |    |      |    |       |    |        |         |       |    |             |  |        |         |
|------|---------|------|----|------|----|-------|----|--------|---------|-------|----|-------------|--|--------|---------|
| Date | 3-27-15 | Sec. | 19 | Twp. | 14 | Range | 12 | County | Russell | State | KS | On Location |  | Finish | 1:15 PM |
|------|---------|------|----|------|----|-------|----|--------|---------|-------|----|-------------|--|--------|---------|

Location Bunker Hill, S to four corners rd, 1/2 E, Nn 2

|                     |                       |            |            |  |  |
|---------------------|-----------------------|------------|------------|--|--|
| Lease               | SB                    | Well No.   | 1          | Owner  | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |
| Contractor          | <del>Longstring</del> | Southwind  |            | Charge To  | HD. Exp.   |
| Type Job            | Longstring            | T.D.       | 3250       | Street   |  |
| Hole Size           | 7 7/8                 | Depth      | 3233       | City   | State  |
| Csg.                | 5 1/2 #17             | Depth      |            | The above was done to satisfaction and supervision of owner agent or contractor. |  |
| Tbg. Size           |                       | Shoe Joint | 21.58      | Cement Amount Ordered  | 180 sx com 10% salt, Fr. granite   |
| Tool                |                       | Displace   | 74 1/2 bbl | 20661 KCL  |  |
| Cement Left in Csg. |                       | Common     |            |  |  |
| Meas Line           |                       | Poz. Mix   |            |  |  |

**EQUIPMENT**

|         |    |     |          |           |  |
|---------|----|-----|----------|-----------|--|
| Pumptrk | 17 | No. | Cementer |           |  |
|         |    |     | Helper   | Lonnie W. |  |
| Bulktrk | 15 | No. | Driver   | Dave      |  |
|         |    |     | Driver   |           |  |
| Bulktrk | 14 | No. | Driver   | Travis    |  |
|         |    |     | Driver   |           |  |

**JOB SERVICES & REMARKS**

|  |               |                         |
|--|---------------|-------------------------|
| Remarks:                                 |               | Hulls                   |
| Rat Hole                                 | 30 sx         | Salt                    |
| Mouse Hole                               |               | Flowseal                |
| Centralizers                             | 1, 3, 5, 7, 9 | Kol-Seal                |
| Baskets                                  |               | Mud CLR 48 500 gal      |
| D/V or Port Collar                       |               | CFL-117 or CD110 CAF 38 |
| Pipe on bottom broke circulation. Rimped |               | Sand                    |
| 500 gal Mud CLR 48 with 100 lb of cement |               | Handling                |
| 17. Plug rat hole with sand. Hooked      |               | Mileage                 |
| to 5 1/2 and mixed 150 sx. Shut down     |               | <b>FLOAT EQUIPMENT</b>  |
| washed pump and lines. Released plug     |               | Guide Shoe              |
| and displaced with 20661 KCL water and   |               | Centralizer 5 turbos    |
| 54 1/2 bbl of plug sand and hold         |               | Baskets                 |
|  |               | AFU Inserts             |
|  |               | Float Shoe 1            |
|  |               | Latch Down 1            |
| lift pressure 700 psi                    |               |                         |
| Plug landed at 1500 psi                  |               | Pumptrk Charge          |
|  |               | Mileage                 |

X Signature

Tax  
Discount  
Total Charge