



KANSAS CORPORATION COMMISSION 1062317  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 5030  
Name: Vess Oil Corporation  
Address 1: 1700 WATERFRONT PKWY BLDG 500  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67206 + 6619  
Contact Person: Casey Coats  
Phone: ( 316 ) 682-1537  
CONTRACTOR: License # 32701  
Name: C & G Drilling, Inc.  
Wellsite Geologist: Roger Martin  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
04/28/2011    05/04/2011    05/19/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-015-23892-00-00  
Spot Description: \_\_\_\_\_  
SW NE NE NW Sec. 13 Twp. 26 S. R. 4  East  West  
400 Feet from  North /  South Line of Section  
2140 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Butler  
Lease Name: Bloir A Well #: 33  
Field Name: \_\_\_\_\_  
Producing Formation: Arbuckle  
Elevation: Ground: 1373 Kelly Bushing: 1379  
Total Depth: 2481 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 263 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: 1200 ppm Fluid volume: 200 bbls  
Dewatering method used: Evaporated  
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**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 08/29/2011



1062317

Operator Name: Vess Oil Corporation Lease Name: Blair A Well #: 33  
 Sec. 13 Twp. 26 S. R. 4  East  West County: Butler

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

|   |   |
|---|---|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run:<br><b>Attached</b> | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum<br>see attached |
|---|---|

| CASING RECORD <input checked="" 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 |
| surface   | 12.25             | 8.625                     | 23                | 263           | Class A        | 185          | 3% cc                      |
| production  | 7.875             | 5.5                       | 15.5              | 2445          | Thickset       | 125          |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD |                  |                |              |                            |
|---------------------------------------|------------------|----------------|--------------|----------------------------|
| Purpose:                              | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| ___ Perforate                         |                  |                |              |                            |
| ___ Protect Casing                    |                  |                |              |                            |
| ___ Plug Back TD                      | -                |                |              |                            |
| ___ Plug Off Zone                     | -                |                |              |                            |

| 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: <input type="checkbox"/> Yes <input type="checkbox"/> No  |                                   |
| Date of First, Resumed Production, SWD or ENHR. _____     |           | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |                                   |
| Estimated Production Per 24 Hours                         | Oil Bbls. | Gas Mcf  | Water Bbls. Gas-Oil Ratio Gravity |

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

|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | Vess Oil Corporation   |
| Well Name | Bloir A 33             |
| Doc ID    | 1062317                |

All Electric Logs Run

|                        |
|------------------------|
|                        |
| Dual Induction Log     |
| Micro Log              |
| Dual Comp Porosity Log |
| Sonic Cement Bond Log  |

ATTACHMENT TO ACO-1

Bloir A #33  
2140'fwl, 400'fnl  
Sec. 13-26S-04E  
Butler County, KS

DST #1 2424-2456 Zone: Arbuckle(2439-56)

Times: 30-45-45-60

1<sup>st</sup> open: Weak surface blow increasing from 1/4" to 1/2"

2<sup>nd</sup> open: No blow: dead

Rec: 5' CO, 20' OCM(11-O, 89-M)

Tool: 35 -O, 65 -M

IFP: 18-18                                FFP: 20-21  
ISIP: 777                                 FSIP: 831  
IHP: 1177                                FHP: 1166        TEMP 100 degrees

DST #2 2456-2466 Zone: Arbuckle(2439-66)

Times: 30-45-45-60

1<sup>st</sup> open: Weak surface blow increasing to 3/4"

2<sup>nd</sup> open: No blow- dead

Rec: 3' CO, 20' OCM(4-O, 96-M)

Tool: 5 -O, 95 -M

IFP: 16-20                                FFP: 21-24  
ISIP: 914                                 FSIP: 918  
IHP: 1191                                FHP: 1180        TEMP: 101 degrees

DST #3 2466-2481                        Zone: Arbuckle

Times: 30-45-45-60

1<sup>st</sup> open: Weak surface blow increasing to 1".

2<sup>nd</sup> open: Weak blow increasing to 3/4"

Rec: 155' TF: 35' CO + 90' O&WCM 6%O, 18%W, 76%M + 30' O&HMCW 4%O, 56%W, 40%M.

Tool: 94% O, 6% M

IFP: 18-51                                FFP: 50-86  
ISIP: 929                                 FSIP: 929  
IHP: 1193                                FHP: 1184                                TEMP: 101 degrees

|            | SAMPLE TOPS | LOG TOPS   |
|------------|-------------|------------|
| OREAD      | 1402 -23    | 1400 -21   |
| HEEBNER    | 1439 -60    | 1437 -58   |
| DOUGLAS SH | 1475 -96    | 1475 -96   |
| LANSING    | 1702 -323   | 1702 -323  |
| K C        | 1998 -619   | 1997 -618  |
| STARK      | 2101 -722   | 2101 -722  |
| B/KC       | 2170 -791   | 2169 -790  |
| CHEC/BD    | 2236 -857   | 2234 -855  |
| ALTAMONT   |             | 2274 -895  |
| CHEROKEE   |             | 2354 -975  |
| ARDMORE    | 2419 -1040  | 2417 -1038 |
| ARBUCKLE   | 2439 -1060  | 2438 -1059 |
| PTD        | 2481 -1102  | 2479 -1100 |



**CONSOLIDATED**

Oil Well Services, LLC

MAY 09 2011

**REMIT TO**

Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8876  
FAX 620/431-0012

INVOICE

Invoice # 241019

Invoice Date: 04/30/2011 Terms: 0/0/30,n/30

Page 1

VESS OIL CORPORATION  
1700 WATER FRONT PKWAY BLD 500  
WICHITA KS 67226  
(316) 682-1537

BLAIR A #33  
29887  
13-26S-4E  
04-28-11  
KS

| Part Number | Description             | Qty    | Unit Price | Total   |
|-------------|-------------------------|--------|------------|---------|
| 1104S       | CLASS "A" CEMENT (SALE) | 180.00 | 14.2500    | 2565.00 |
| 1102        | CALCIUM CHLORIDE (50#)  | 440.00 | .7000      | 308.00  |
| 1107        | FLO-SEAL (25#)          | 75.00  | 2.2200     | 166.50  |
| 4106        | 8 5/8" CEMENT BASKET    | 2.00   | 320.0000   | 640.00  |

| Description                     | Hours | Unit Price | Total  |
|---------------------------------|-------|------------|--------|
| 446 CEMENT PUMP (SURFACE)       | 1.00  | 775.00     | 775.00 |
| 446 EQUIPMENT MILEAGE (ONE WAY) | .00   | 4.00       | .00    |
| 502 MIN. BULK DELIVERY          | 2.00  | 330.00     | 660.00 |

|        |         |           |     |         |         |    |         |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 3679.50 | Freight:  | .00 | Tax:    | 241.01  | AR | 5355.51 |
| Labor: | .00     | Misc:     | .00 | Total:  | 5355.51 |    |         |
| Sublt: | .00     | Supplies: | .00 | Change: | .00     |    |         |

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

ELDORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

GILLETTE, WY  
307/686-4914

OAKLEY, KS  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/639-5289

WORLAND, WY  
307/347-4577



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 29887

LOCATION # 20 Eldorado

FOREMAN Jacob Storm

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

| DATE   | CUSTOMER #  | WELL NAME & NUMBER | SECTION   | TOWNSHIP | RANGE | COUNTY |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
|--|-------------|--------------------|---|----------|-------|--------|---------|--------|---------|--------|-----|------|--|--|-----|--------|--|--|-----|-------|--|--|
| 4-28-11  | 8511        | Bloir A #33        | 13  | 26S      | 4E    | Butler |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| CUSTOMER<br>VCS Oil                                |             |                    | <table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>446</td> <td>Jeff</td> <td></td> <td></td> </tr> <tr> <td>502</td> <td>Jerald</td> <td></td> <td></td> </tr> <tr> <td>511</td> <td>Jacob</td> <td></td> <td></td> </tr> </tbody> </table> |          |       |        | TRUCK # | DRIVER | TRUCK # | DRIVER | 446 | Jeff |  |  | 502 | Jerald |  |  | 511 | Jacob |  |  |
| TRUCK #  | DRIVER      | TRUCK #            |   |          |       |        | DRIVER  |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| 446  | Jeff        |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| 502  | Jerald      |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| 511  | Jacob       |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| MAILING ADDRESS<br>1700 Waterfront Parkway Bld 500 |             |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| CITY<br>Wichita                                    | STATE<br>KS | ZIP CODE<br>67226  |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |

Safety meeting  
J.S.  
J.J.

JOB TYPE Surface B HOLE SIZE 12 1/4 HOLE DEPTH 266 CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 256 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.01b SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 16-Gt  
 DISPLACEMENT 16bbl DISPLACEMENT PSI 200 MIX PSI 100 RATE 46pm

REMARKS: Safety meeting, Run 8 5/8, put baskets on 3rd and 5th joint, mixed 150 sks class A 3Kcc displaced 14.5bbl water and shut in after circulating cement to surface, cement fell back, mixed 80 sks class A 3Kcc from top to fill hole

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL   |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401 S       | 1                 | PUMP CHARGE                        | 775.00          | 775.00  |
| 5406         | 7                 | MILEAGE                            | 4.00            | N/C     |
| 5401         | 2                 | min bulk delivery                  | 330.00          | 660.00  |
| 1104 S       | 180 sks           | Class A cement                     | 14.25           | 2565.00 |
| 1102         | 440 lbs           | calcium chloride                   | 0.70            | 308.00  |
| 1107         | 751bs             | poly-Flake                         | 2.22            | 166.50  |
| 4106         | 2                 | 8 5/8 cement Basket                | 320.00          | 640.00  |
|              |                   |                                    |                 |         |
|              |                   |                                    |                 |         |
|              |                   |                                    |                 |         |
|              |                   |                                    |                 |         |
|              |                   |                                    |                 |         |
|              |                   |                                    | Subtotal        | 5114.50 |
|              |                   |                                    |                 |         |
|              |                   |                                    | SALES TAX       | 241.01  |
|              |                   |                                    | ESTIMATED TOTAL | 5355.51 |

Rev'n 5737

AUTHORIZATION Chris Nelson

241019

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
FAX 620/431-0012

MAY 16 2011

INVOICE

Invoice # 241214

Invoice Date: 05/11/2011 Terms: 0/0/30,n/30 Page 1

VESS OIL CORPORATION  
1700 WATER FRONT PKWAY BLD 500  
WICHITA KS 67226  
(316) 682-1537

BLAIR A #33  
30992  
13-268-4E  
05-05-11  
KS

| Part Number | Description              | Qty    | Unit Price | Total   |
|-------------|--------------------------|--------|------------|---------|
| 1126A       | THICK SET CEMENT         | 125.00 | 18.3000    | 2287.50 |
| 1110A       | KOL SEAL (50# BAG)       | 650.00 | .4400      | 286.00  |
| 4253        | TYPE A PACKER SHOE61/2X6 | 1.00   | 1584.0000  | 1584.00 |
| 4454        | 5 1/2" LATCH DOWN PLUG   | 1.00   | 254.0000   | 254.00  |
| 4130        | CENTRALIZER 5 1/2"       | 6.00   | 48.0000    | 288.00  |
| 4104        | CEMENT BASKET 5 1/2"     | 2.00   | 229.0000   | 458.00  |
| 1144G       | MUD FLUSH (SALE)         | 500.00 | 1.0500     | 525.00  |

  

| Description                     | Hours | Unit Price | Total  |
|---------------------------------|-------|------------|--------|
| 446 CEMENT PUMP                 | 1.00  | 975.00     | 975.00 |
| 446 EQUIPMENT MILEAGE (ONE WAY) | .00   | 4.00       | .00    |
| 502 MIN. BULK DELIVERY          | 1.00  | 330.00     | 330.00 |

Parts: 5682.50 Freight: .00 Tax: 372.20 AR 7359.70  
 Labor: .00 Misc: .00 Total: 7359.70  
 Sublt: .00 Supplies: .00 Change: .00

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

ELDORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

GILLETTE, WY  
307/686-4914

OAKLEY, KS  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

WORLAND, WY  
307/347-4577



**CONSOLIDATED**  
Oil Well Services, LLC



**ENTERED**

TICKET NUMBER 30992

LOCATION # 80 Eldorado

FOREMAN Jacob Storm

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

| DATE  | CUSTOMER #  | WELL NAME & NUMBER | SECTION   | TOWNSHIP | RANGE | COUNTY |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
|---|-------------|--------------------|---|----------|-------|--------|---------|--------|---------|--------|-----|------|--|--|-----|--------|--|--|-----|-------|--|--|
| 5-5-11  | 8511        | B10ir A #33        | 13  | 26S      | 4E    | Butler |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| CUSTOMER<br>Vess oil                                |             |                    | <table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>446</td> <td>Jeff</td> <td></td> <td></td> </tr> <tr> <td>502</td> <td>Jerild</td> <td></td> <td></td> </tr> <tr> <td>511</td> <td>Jacob</td> <td></td> <td></td> </tr> </tbody> </table> |          |       |        | TRUCK # | DRIVER | TRUCK # | DRIVER | 446 | Jeff |  |  | 502 | Jerild |  |  | 511 | Jacob |  |  |
| TRUCK #   | DRIVER      | TRUCK #            |   |          |       |        | DRIVER  |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| 446   | Jeff        |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| 502   | Jerild      |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| 511   | Jacob       |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| MAILING ADDRESS<br>1700 water front parkway Bld 500 |             |                    |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |
| CITY<br>Wichita                                     | STATE<br>KS | ZIP CODE<br>67226  |   |          |       |        |         |        |         |        |     |      |  |  |     |        |  |  |     |       |  |  |

Safety Meeting  
J.D.  
B

JOB TYPE Long string B HOLE SIZE 7 7/8 HOLE DEPTH 2500 CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH 2468 DRILL PIPE \_\_\_\_\_ TUBING N/A OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.016 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 42.44  
 DISPLACEMENT 57.73 DISPLACEMENT PSI 1100 MIX PSI 200 RATE 4bpm

REMARKS: Run pipe, placed centralizers on 1,3,5,7,9,12 and Baskets on 2,11, circulated hole for 30 min, set packer shoe, circulated 15 min, mixed 125 sks thickset, 5% kol-seal, displaced 57.73 bbl, with plug, plug landed at 1300 psi, float held,

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL   |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401         | 1                 | PUMP CHARGE                        | 975.00          | 975.00  |
| 5406         | 5                 | MILEAGE                            | 4.00            | N/C     |
| 5407         | 1                 | min bulk delivery                  | 330.00          | 330.00  |
| 1126A        | 125 SKS           | Thickset                           | 18.30           | 2287.5  |
| 1110A        | 660 lbs           | Kol seal                           | 0.44            | 286.00  |
| 4253         | 1                 | Type A packer shoe                 | 1584.00         | 1584.00 |
| 4454         | 1                 | 5/2 latch down plug                | 264.00          | 264.00  |
| 4130         | 6                 | 5 1/2 centralizer                  | 48.00           | 288.00  |
| 4104         | 2                 | 5 1/2 Basket                       | 229.00          | 458.00  |
| 11446        | 500 gal           | Dr 1100                            | 1.05            | 525.00  |
|              |                   |                                    | Subtotal        | 6987.50 |
|              |                   |                                    | SALES TAX       | 312.20  |
|              |                   |                                    | ESTIMATED TOTAL | 1359.70 |

Revin 9797

AUTHORIZATION Casey Gonts TITLE 041014 DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**ROGER L. MARTIN**  
REGISTERED PROFESSIONAL ENGINEER - CIVIL

**GEOTECHNICAL REPORT**  
FOUNDATION ANALYSIS

|  |   |
|--|---|
| <p><b>Client:</b> THE UNIVERSITY OF ALABAMA</p> <p><b>Project:</b> BUILDING 1000</p> <p><b>Site:</b> 100 UNIVERSITY BLVD, TUSCALOOSA, AL 35487</p> <p><b>Drawn by:</b> J. L. SMITH</p> <p><b>Checked by:</b> R. L. MARTIN</p> <p><b>Date:</b> 10/15/68</p> | <p><b>Scale:</b> 1" = 10'-0"</p> <p><b>Sheet No.:</b> 1 OF 1</p> <p><b>Project No.:</b> 68-100</p> <p><b>Drawn Date:</b> 10/15/68</p> <p><b>Checked Date:</b> 10/15/68</p> <p><b>Project Location:</b> TUSCALOOSA, ALABAMA</p> <p><b>Project Description:</b> FOUNDATION ANALYSIS FOR BUILDING 1000</p> |
|--|---|

| NO. | DESCRIPTION | UNIT | VALUE | REMARKS |
|-----|-------------|------|-------|---------|
| 1   | GRAVEL      | pcf  | 120   |         |
| 2   | SAND        | pcf  | 100   |         |
| 3   | CLAY        | pcf  | 120   |         |
| 4   | ROCK        | pcf  | 160   |         |
| 5   | CONCRETE    | pcf  | 150   |         |
| 6   | STEEL       | pcf  | 490   |         |
| 7   | ASPHALT     | pcf  | 145   |         |
| 8   | BRICK       | pcf  | 120   |         |
| 9   | PLASTER     | pcf  | 100   |         |
| 10  | CEMENT      | pcf  | 150   |         |
| 11  | WOOD        | pcf  | 35    |         |
| 12  | GLASS       | pcf  | 150   |         |
| 13  | PAINT       | pcf  | 15    |         |
| 14  | INSULATION  | pcf  | 5     |         |
| 15  | ROOFING     | pcf  | 10    |         |
| 16  | MECHANICAL  | pcf  | 15    |         |
| 17  | ELECTRICAL  | pcf  | 15    |         |
| 18  | PLUMBING    | pcf  | 15    |         |
| 19  | FINISH      | pcf  | 15    |         |
| 20  | FOUNDATION  | pcf  | 150   |         |
| 21  | CONCRETE    | pcf  | 150   |         |
| 22  | STEEL       | pcf  | 490   |         |
| 23  | ASPHALT     | pcf  | 145   |         |
| 24  | BRICK       | pcf  | 120   |         |
| 25  | PLASTER     | pcf  | 100   |         |
| 26  | CEMENT      | pcf  | 150   |         |
| 27  | WOOD        | pcf  | 35    |         |
| 28  | GLASS       | pcf  | 150   |         |
| 29  | PAINT       | pcf  | 15    |         |
| 30  | INSULATION  | pcf  | 5     |         |
| 31  | ROOFING     | pcf  | 10    |         |
| 32  | MECHANICAL  | pcf  | 15    |         |
| 33  | ELECTRICAL  | pcf  | 15    |         |
| 34  | PLUMBING    | pcf  | 15    |         |
| 35  | FINISH      | pcf  | 15    |         |
| 36  | FOUNDATION  | pcf  | 150   |         |
| 37  | CONCRETE    | pcf  | 150   |         |
| 38  | STEEL       | pcf  | 490   |         |
| 39  | ASPHALT     | pcf  | 145   |         |
| 40  | BRICK       | pcf  | 120   |         |
| 41  | PLASTER     | pcf  | 100   |         |
| 42  | CEMENT      | pcf  | 150   |         |
| 43  | WOOD        | pcf  | 35    |         |
| 44  | GLASS       | pcf  | 150   |         |
| 45  | PAINT       | pcf  | 15    |         |
| 46  | INSULATION  | pcf  | 5     |         |
| 47  | ROOFING     | pcf  | 10    |         |
| 48  | MECHANICAL  | pcf  | 15    |         |
| 49  | ELECTRICAL  | pcf  | 15    |         |
| 50  | PLUMBING    | pcf  | 15    |         |
| 51  | FINISH      | pcf  | 15    |         |
| 52  | FOUNDATION  | pcf  | 150   |         |
| 53  | CONCRETE    | pcf  | 150   |         |
| 54  | STEEL       | pcf  | 490   |         |
| 55  | ASPHALT     | pcf  | 145   |         |
| 56  | BRICK       | pcf  | 120   |         |
| 57  | PLASTER     | pcf  | 100   |         |
| 58  | CEMENT      | pcf  | 150   |         |
| 59  | WOOD        | pcf  | 35    |         |
| 60  | GLASS       | pcf  | 150   |         |
| 61  | PAINT       | pcf  | 15    |         |
| 62  | INSULATION  | pcf  | 5     |         |
| 63  | ROOFING     | pcf  | 10    |         |
| 64  | MECHANICAL  | pcf  | 15    |         |
| 65  | ELECTRICAL  | pcf  | 15    |         |
| 66  | PLUMBING    | pcf  | 15    |         |
| 67  | FINISH      | pcf  | 15    |         |
| 68  | FOUNDATION  | pcf  | 150   |         |
| 69  | CONCRETE    | pcf  | 150   |         |
| 70  | STEEL       | pcf  | 490   |         |
| 71  | ASPHALT     | pcf  | 145   |         |
| 72  | BRICK       | pcf  | 120   |         |
| 73  | PLASTER     | pcf  | 100   |         |
| 74  | CEMENT      | pcf  | 150   |         |
| 75  | WOOD        | pcf  | 35    |         |
| 76  | GLASS       | pcf  | 150   |         |
| 77  | PAINT       | pcf  | 15    |         |
| 78  | INSULATION  | pcf  | 5     |         |
| 79  | ROOFING     | pcf  | 10    |         |
| 80  | MECHANICAL  | pcf  | 15    |         |
| 81  | ELECTRICAL  | pcf  | 15    |         |
| 82  | PLUMBING    | pcf  | 15    |         |
| 83  | FINISH      | pcf  | 15    |         |
| 84  | FOUNDATION  | pcf  | 150   |         |
| 85  | CONCRETE    | pcf  | 150   |         |
| 86  | STEEL       | pcf  | 490   |         |
| 87  | ASPHALT     | pcf  | 145   |         |
| 88  | BRICK       | pcf  | 120   |         |
| 89  | PLASTER     | pcf  | 100   |         |
| 90  | CEMENT      | pcf  | 150   |         |
| 91  | WOOD        | pcf  | 35    |         |
| 92  | GLASS       | pcf  | 150   |         |
| 93  | PAINT       | pcf  | 15    |         |
| 94  | INSULATION  | pcf  | 5     |         |
| 95  | ROOFING     | pcf  | 10    |         |
| 96  | MECHANICAL  | pcf  | 15    |         |
| 97  | ELECTRICAL  | pcf  | 15    |         |
| 98  | PLUMBING    | pcf  | 15    |         |
| 99  | FINISH      | pcf  | 15    |         |
| 100 | FOUNDATION  | pcf  | 150   |         |

