

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 189-21800 - 0000  
County Stevens  
- NE - SW - NW Sec. 27 Twp. 32S Rge. 36 X W<sup>E</sup>

Operator: License # 5208

1388 Feet from S (circle one) Line of Section  
1250 Feet from E (circle one) Line of Section

Name: Mobil Oil Corporation

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Address P.O. Box 2173

2319 North Kansas Avenue

City/State/Zip Liberal, KS 67905-2173

Lease Name Chaffin #2 Unit Well # 4

Purchaser: Spot Market

Field Name Hugoton

Operator Contact Person: Sharon Cook

Producing Formation Chase

Phone (316) 626-1142

Elevation: Ground 3056 KB 3067

Contractor: Name: Cheyenne Drilling

Total Depth 2965 PBDT 2909

License: 5382

Amount of Surface Pipe Set and Cemented at 547 ~~550~~ Feet

Wellsite Geologist: L. J. Reimer

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion  
X New Well Re-Entry Workover

If yes, show depth set NA Feet

Oil SWD SLOW Temp. Abd.  
X Gas ENHR SIGW  
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from NA

feet depth to NA w/ NA sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 1 24 9-13-95  
(Data must be collected from the Reserve Pit)

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

Chloride content 11,000 ppm Fluid volume 301 bbls

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

Dewatering method used Waste Minimization Mud System

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Deepening Re-perf. Conv. to Inj/SWD  
Plug Back PBDT  
Commingled Docket No.  
Dual Completion Docket No.  
Other (SWD or Inj?) Docket No.

Operator Name Mobil Oil Corporation

Lease Name Hill #3 SWDW License No. 5208

12-27-94 12-31-94 2-8-95  
Spud Date Date Reached TD Completion Date

SW Quarter Sec. 3 Twp. 33 S Rng. 37 E W

County Stevens Docket No. CD-117710

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Sharon A. Cook Sharon A. Cook

Title Regulatory Assistant Date 2-22-95

Subscribed and sworn to before me this 22<sup>nd</sup> day of February 19 95.

Notary Public Kathleen R. Poulton FEB 24 1995

Date Commission Expires August 18, 1998

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)



**SIDE TWO**

Operator Name Mobil Oil Corporation Lease Name Chaffin #2 Unit Well # 4

Sec. 27 Twp. 32S Rge. 36  East  West  
 County Stevens

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

|  |   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
|--|---|---|---------------------------------|--|--|------|-----------|-----------|-----------|--------------|-----------|-------|-----------|---------------|---------|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>(Attach Additional Sheets.)<br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>(Submit Copy.)<br><br>List All E.Logs Run:<br><br>Dual Induction Focused Log - Gamma Ray Caliper<br>Z-Densilog Compensated Neutron Spectralog | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> Log</td> <td style="text-align: center;"><input type="checkbox"/> Sample</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Formation (Top), Depth and Datums</b></td> </tr> <tr> <td style="text-align: center;">Name</td> <td style="text-align: center;">Top Datum</td> </tr> <tr> <td>Glorietta</td> <td style="text-align: center;">1255 1435</td> </tr> <tr> <td>Stone Corral</td> <td style="text-align: center;">1710 1780</td> </tr> <tr> <td>Chase</td> <td style="text-align: center;">2590 2925</td> </tr> <tr> <td>Council Grove</td> <td style="text-align: center;">2925 --</td> </tr> </table> | <input checked="" type="checkbox"/> Log | <input type="checkbox"/> Sample | <b>Formation (Top), Depth and Datums</b> |  | Name | Top Datum | Glorietta | 1255 1435 | Stone Corral | 1710 1780 | Chase | 2590 2925 | Council Grove | 2925 -- |
| <input checked="" type="checkbox"/> Log  | <input type="checkbox"/> Sample   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
| <b>Formation (Top), Depth and Datums</b>   |   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
| Name   | Top Datum   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
| Glorietta  | 1255 1435   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
| Stone Corral   | 1710 1780   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
| Chase  | 2590 2925   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |
| Council Grove  | 2925 --   |   |                                 |  |  |      |           |           |           |              |           |       |           |               |         |

| 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 Casing  | 12.250            | 8.625                     | 24#             | <del>559</del> 547 | Class C<br>Class C | 150 sx<br>150 sx | 50:50 C/poz<br>50:50 C/poz |
| Production Casing   | 7.875             | 5.500                     | 14#             | 2955               | Class C<br>Class C | 275 sx<br>150 sx | 3% D79<br>2% B28           |

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

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|--|--|-------|
| 1              | See attached well history 2752'-2762'  |  |       |
| 2              | 2765'-2775' 2706'-2722' 2622'-2632'  |  |       |
| 1              | 2653'-2663' 2672'-2682'  |  |       |

| TUBING RECORD   |           | Size    | Set At   | Packer At   | Liner Run     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |
|---|-----------|---------|--|-------------|---------------|---|--|
|   |           | None    |  |             |               |   |  |
| Date of First, Resumed Production, SWD or Inj. 2-3-95 |           |         | Producing Method <input checked="" 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 216 | Mcf  | Water Bbls. | Gas-Oil Ratio | Gravity   |  |

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: \_\_\_\_\_ 2622 - \_\_\_\_\_ 2762

Well Data - Well History Report

Lease: CHAFFIN #2 UNIT WELL #4 Well #: 4 Well ID: 0052872
API #: 15-189-21800-00 State: KS County: STEVENS
Ppty ID: 1983000 OCSG #:

Spud Date: 12/27/1994 Water Depth: 0 KB Height: 11
Spud Time: 15:00 Original Ref Point: KB BH Height: 14
DF Height:

ORIGINAL

Drilling Job Start/End: 12/27/94 @ 15:00 to 12/31/94 @ 04:30
Completion Job Start/End: 01/11/95 @ 08:00 to 02/08/95 @ 12:30

Table with columns DATE and ACTIVITY. Rows include 12/27/94 CASING and 12/30/94 CASING with details on OD, diam, US50, and Top/Bot depths.

WELLBORE SUMMARY

Table with columns API, Creation Date, Top, TD, Diam(@TD), Plug Back Date, and Depths (PBDT). Rows show data for API 00 on 12/27/94.

CASING SUMMARY

Table with columns Date, RUN, String, OD, ID, Grade, Wt/FT, Connection, and Top/Bot. Rows show casing data for 12/27/94 and 12/30/94.

PERFORATION SUMMARY

Table with columns Perf Date, Top Perf, Btm Perf, Zone Name, Phase Hole, SPF, Size, and J/B Sqzd.

STATE CORPORATION COMMISSION

FEB 2 1995

CONSERVATION DIVISION

PERFORATION TIME CODE ACTIVITY

Table with columns DATE, HOURS, CODE, and ACTIVITY. Row shows activity on 1995-01-11 at 4.00 hours.

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MSD999

\*\*\* PRISM \*\*\*

Page 2

Well Data - Well History Report

ORIGINAL

KRIDER, 2653-63, (1SPF), 2672-82, (1SPF)  
, U. KRIDER, 2622-32, (2SPF)

=====

WELL TREATMENT TIME CODE ACTIVITY

-----

| DATE       | HOURS | CODE | ACTIVITY   |
|------------|-------|------|--|
| -----      | ----- | ---  | -----  |
| 1995-01-12 | 1.00  | 657  | ACIDIZE W/1000 GAL 7.5% HCL & 1000 GAL W<br>TR IN 500 GAL STAGES BEGIN W/WTR & 200 B<br>ALL SEALERS, FORM. BROKE @ 2087#, GOOD B<br>ALL ACTION & BALL OUT, CLEAR BALLS OFF P<br>ERFS |
| 1995-01-12 | 1.00  | 655  | FRAC VIA CSG W/110000# 10/20 SND & 950 B<br>BL'S X-LINKED GELLED FW, AIR 45 BPM, SND<br>RAMMED 1PPG-10PPG, SCREENED OUT W/57 BB<br>L'S FLUSH IN CSG. ISIP 460# 5MIN SI 36#           |

Report Generated on: 02/20/95 @ 08:12

End of Report...

\*\*\*\*\*

CEMENTING SERVICE REPORT

Schlumberger  
Dowell

DOWELL SCHLUMBERGER INCORPORATED

|                          |                  |
|--------------------------|------------------|
| TREATMENT NUMBER<br>2756 | DATE<br>12-27-94 |
| STAGE<br>SURF            | DS<br>0312       |
| DISTRICT<br>LKS          |                  |

DS-496-A PRINTED IN U.S.A.

|                                  |                   |
|----------------------------------|-------------------|
| WELL NAME AND NO.<br>Chaffin 2-4 | LOCATION (LEGAL)  |
| FIELD-POOL<br>Hugoton            | FORMATION<br>SURF |
| COUNTY/PARISH<br>STEVENS         | STATE<br>KANSAS   |
| API. NO.                         |                   |
| NAME<br>Mobil oil                |                   |
| AND                              |                   |
| ADDRESS                          |                   |
| ZIP CODE                         |                   |

|   |                                 |
|---|---------------------------------|
| RIG NAME:<br>CHEYENNE 41  |                                 |
| WELL DATA:  | BOTTOM                          |
| BIT SIZE 12 1/2   | CSG/Liner Size 8 5/8            |
| TOTAL DEPTH   | WEIGHT 24                       |
| <input type="checkbox"/> ROT <input type="checkbox"/> CABLE       | FOOTAGE 547.3                   |
| MUD TYPE  | GRADE                           |
| <input type="checkbox"/> BHST<br><input type="checkbox"/> BHCT    | THREAD 820                      |
| MUD DENSITY   | LESS FOOTAGE SHOE JOINT(S) 4235 |
| MUD VISC.   | Disp. Capacity 504.95           |
| NOTE: Include Footage From Ground Level To Head In Disp. Capacity |                                 |
| TOTAL   | 32                              |

SPECIAL INSTRUCTIONS

# ORIGINAL

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE 225 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

|   |  |                             |       |
|---|--|-----------------------------|-------|
| Float   | TYPE   | ORFICE FILL LINE            | TYPE  |
|   | DEPTH  | 423.504.95                  | DEPTH |
| SHOE  | TYPE   |                             | TYPE  |
|   | DEPTH  | 547.3                       | DEPTH |
| Head & Plugs  | <input type="checkbox"/> TBG <input type="checkbox"/> D.P. | SQUEEZE JOB                 |       |
| <input type="checkbox"/> Double                           | SIZE   | TOOL                        | TYPE  |
| <input checked="" type="checkbox"/> Single                | <input type="checkbox"/> WEIGHT                            |                             | DEPTH |
| <input type="checkbox"/> Swage                            | <input type="checkbox"/> GRADE                             | TAIL PIPE: SIZE DEPTH       |       |
| <input type="checkbox"/> Knockoff                         | <input type="checkbox"/> THREAD                            | TUBING VOLUME Bbls          |       |
| TOP <input type="checkbox"/> R <input type="checkbox"/> W | <input type="checkbox"/> NEW <input type="checkbox"/> USED | CASING VOL. BELOW TOOL Bbls |       |
| BOT <input type="checkbox"/> R <input type="checkbox"/> W | DEPTH  | TOTAL Bbls                  |       |
|   |  | ANNUAL VOLUME Bbls          |       |

| TIME         | PRESSURE    |        | VOLUME PUMPED BBL |     | JOB SCHEDULED FOR |            |               | ARRIVE ON LOCATION              | LEFT LOCATION  |            |                |
|--------------|-------------|--------|-------------------|-----|-------------------|------------|---------------|---------------------------------|----------------|------------|----------------|
|              | TBG OR D.P. | CASING | INCREMENT         | CUM | INJECT RATE       | FLUID TYPE | FLUID DENSITY | TIME: 1700                      | DATE: 12-27-94 | TIME: 2030 | DATE: 12-27-94 |
| 0001 to 2400 |             |        |                   |     |                   |            |               |                                 |                |            |                |
| 2037         | 170         | 170    | 25                |     | 5.7               | h20        | 8.3           | PRE-JOB SAFETY MEETING          |                |            |                |
| 2042         |             | 170    | 57                | 25  | 5.7               | h20        | 12.2          | START h20 AHEAD (50)            |                |            |                |
| 2053         |             | 170    | 58                | 82  | 5.7               | h20        | 14.8          | START LEAD (13)                 |                |            |                |
| 2100         |             |        |                   | 140 |                   |            |               | START TAIL (16)                 |                |            |                |
| 2100         |             |        |                   | 140 |                   |            |               | Shutdown Deep Plug (18)         |                |            |                |
| 2100         |             | 200    | 3#                | 170 |                   | h20        | 8.3           | START DISPLACEMENT (19)         |                |            |                |
| 2106         |             | 170    |                   | 206 |                   | h20        | 8.3           | LOWER RATE (87)                 |                |            |                |
| 2115         |             |        |                   | 306 |                   | h20        | 8.3           | Bump top Plug (21) Did not Bump |                |            |                |
|              |             |        |                   |     |                   |            |               | BLEED OF PSI (22) FLOAT         |                |            |                |
|              |             |        |                   |     |                   |            |               | 28 SACKS TO SURFACE             |                |            |                |
|              |             |        |                   |     |                   |            |               | 33 BBLs                         |                |            |                |
|              |             |        |                   |     |                   |            |               | SEE BILL'S TICKETS ATTACHED     |                |            |                |

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS |   |      |         | SLURRY MIXED |  |
|-------------|--------------|-----------------|----------------------------------|---|------|---------|--------------|--|
|             |              |                 | BBLs                             | DENSITY   | BBLs | DENSITY |              |  |
| 1.          | 150          | 2.11            | 50/50                            | 2% O <sub>2</sub> + 6% D20 + 1.5% SI + 1/4" BUSTON    | 56   | 12.2    |              |  |
| 2.          | 150          | 1.12            | 50/50                            | 2% O <sub>2</sub> + 0.75% D20 + 1.5% SI + 1/4" BUSTON | 32   | 14.8    |              |  |
| 3.          |              |                 |                                  |   |      |         |              |  |
| 4.          |              |                 |                                  |   |      |         |              |  |
| 5.          |              |                 |                                  |   |      |         |              |  |
| 6.          |              |                 |                                  |   |      |         |              |  |

|   |                                      |   |   |
|---|--------------------------------------|---|---|
| BREAKDOWN FLUID TYPE  | VOLUME                               | DENSITY                                   | PRESSURE 220 MAX. MIN:  |
| <input type="checkbox"/> HESITATION SQ.   | <input type="checkbox"/> RUNNING SQ. | <input type="checkbox"/> CIRCULATION LOST | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO |                                      | Bbls                                      |   |
| BREAKDOWN   | PSI FINAL                            | PSI                                       | DISPLACEMENT VOL. 33  |
| Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO          | TO                                   | FT.                                       | MEASURED DISPLACEMENT <input type="checkbox"/>                      |
| PERFORATIONS  | CUSTOMER REPRESENTATIVE              | DS  | SUPERVISOR  |
| TO  | JOE NAVIS                            |   | JOHNNY ELLIOTT  |
| TO  |                                      |   |   |

**CEMENTING SERVICE REPORT**

Schlumberger

Dowell

**DOWELL SCHLUMBERGER INCORPORATED**

|                              |                         |
|------------------------------|-------------------------|
| TREATMENT NUMBER<br>03126766 | DATE<br>12-30-94        |
| STAGE<br>DS                  | DISTRICT<br>Ulysses, KS |
| 03-12                        |                         |

DS-496-A PRINTED IN U.S.A.

|                                  |                                    |
|----------------------------------|------------------------------------|
| WELL NAME AND NO.<br>Chaffin 2-4 | LOCATION (LEGAL)<br>SEC 27-32S-36W |
| FIELD-POOL<br>Hugoton            | FORMATION                          |
| COUNTY/PARISH<br>Stevens         | STATE<br>KS                        |
| API. NO.                         |                                    |

|  |                               |       |
|--|-------------------------------|-------|
| RIG NAME:<br>Cheyenne #4   |                               |       |
| WELL DATA:   | BOTTOM                        | TOP   |
| BIT SIZE 7 7/8   | CSG/Liner Size 5 1/2          |       |
| TOTAL DEPTH 2955   | WEIGHT 14#                    |       |
| <input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE | FOOTAGE 2955                  |       |
| MUD TYPE   | GRADE USS50                   |       |
| <input type="checkbox"/> BHST<br><input type="checkbox"/> BHCT         | THREAD 8 Rd.                  |       |
| MUD DENSITY  | LESS FOOTAGE SHOE JOINT(S) 44 | TOTAL |
| MUD VISC.  | Disp. Capacity 71.02          |       |

NAME Mobil Oil Corp

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

**ORIGINAL**

|  |   |  |                             |
|--|---|--|-----------------------------|
| IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO | Head & Plugs  | <input type="checkbox"/> TBG <input type="checkbox"/> D.P. | SQUEEZE JOB                 |
| LIFT PRESSURE 1745 PSI   | <input type="checkbox"/> Double                           | SIZE   | TOOL TYPE                   |
| PRESSURE LIMIT 2500 PSI  | <input type="checkbox"/> Single                           | WEIGHT   | DEPTH                       |
| ROTATE RPM RECIPROCATE FT No. of Centralizers                                      | <input type="checkbox"/> Swage                            | GRADE  | TAIL PIPE: SIZE DEPTH       |
|  | <input type="checkbox"/> Knockoff                         | THREAD   | TUBING VOLUME Bbls          |
|  | TOP <input type="checkbox"/> R <input type="checkbox"/> W | <input type="checkbox"/> NEW <input type="checkbox"/> USED | CASING VOL. BELOW TOOL Bbls |
|  | BOT <input type="checkbox"/> R <input type="checkbox"/> W | DEPTH  | TOTAL Bbls                  |
|  |   |  | ANNUAL VOLUME Bbls          |

|              |                    |                   |  |   |  |
|--------------|--------------------|-------------------|--|---|--|
| TIME         | PRESSURE           | VOLUME PUMPED BBL | JOB SCHEDULED FOR TIME: 19:00 DATE: 12-30-94 | ARRIVE ON LOCATION TIME: 19:30 DATE: 12-30-94 | LEFT LOCATION TIME: 12:31-94 DATE: 01:30 |
| 0001 to 2400 | TBG OR D.P. CASING | INCREMENT CUM     | INJECT RATE                                  | FLUID TYPE                                    | FLUID DENSITY                            |

| TIME  | TBG OR D.P. | CASING | INCREMENT | CUM | INJECT RATE      | FLUID TYPE       | FLUID DENSITY | SERVICE LOG DETAIL           |
|-------|-------------|--------|-----------|-----|------------------|------------------|---------------|------------------------------|
| 11:25 |             |        |           |     |                  |                  |               | PRE-JOB SAFETY MEETING Yes   |
| 11:27 | 3000        |        |           |     |                  | H <sub>2</sub> O | 8.32          | PSI TEST LINES               |
| 11:32 | 200         | 25     | 25        | 5.8 | H <sub>2</sub> O | 8.32             |               | START H <sub>2</sub> O AHEAD |
| 11:37 | 290         | 134    | 25        | 5.8 | CMT              | 11.5             |               | START <del>LINE</del>        |
| 11:49 | 200         | 36     | 59        | 5.8 | CMT              | 11.5             |               | PSI Check                    |
| 12:00 | 260         | 36     | 159       | 5.8 | CMT              | 14.8             |               | START T.A.1                  |
| 12:06 |             |        |           |     |                  |                  |               | Shutdown DROP Plug           |
| 12:12 | 0           | 71     |           | 71  | 5.8              | H <sub>2</sub> O | 8.32          | START Displ.                 |
| 12:29 |             |        |           |     |                  |                  |               | Bump Top Plug                |
| 12:30 |             |        |           |     |                  |                  |               | Check FLOAT                  |

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS                 |         |      | SLURRY MIXED |  |
|-------------|--------------|-----------------|--|---------|------|--------------|--|
|             |              |                 | BBLs   | DENSITY | BBLs | DENSITY      |  |
| 1.          | 875          | 2.75            | CLASS C + 370 D49 + .27% D46 + 1/4 #/sk D29      | 134.6   | 11.5 |              |  |
| 2.          | 150          | 1.37            | CLASS C + 290 B23 + .27% S1 + .6% D60 + .27% D46 | 36.6    | 14.8 |              |  |
| 3.          |              |                 |  |         |      |              |  |
| 4.          |              |                 |  |         |      |              |  |
| 5.          |              |                 |  |         |      |              |  |
| 6.          |              |                 |  |         |      |              |  |

|  |                                      |                       |   |   |
|--|--------------------------------------|-----------------------|---|---|
| BREAKDOWN FLUID TYPE   | VOLUME                               | DENSITY               | PRESSURE 2500 MAX.  | MIN: 6.5Ks  |
| <input type="checkbox"/> HESITATION SQ.                                    | <input type="checkbox"/> RUNNING SQ. | CIRCULATION LOST      | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO   |
| BREAKDOWN PSI FINAL  | PSI                                  | DISPLACEMENT VOL. 71  | Bbls  | TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS   |
| Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO | TO FT.                               | MEASURED DISPLACEMENT | <input type="checkbox"/> WIRELINE                                   | <input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT |
| PERFORATIONS   | CUSTOMER REPRESENTATIVE              | DS SUPERVISOR         | Russ Wagstaff   |   |
| TO TO  | MR. Joe DAVIS                        |                       |   |   |