

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: KANSAS GAS SUPPLY

Operator Contact Person: DAVID W. KAPPLER

Phone (316) 624-6253

Contractor: Name: DUKE DRILLING CO., INC.

License: 5929

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

Designate Type of Completion  
 New Well  Re-Entry  Workover

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

If Workover:

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

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

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

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

5-8-98 5-19-98 6-5-98  
Spud Date Date Reached TD Completion Date

API NO. 15- 033-20956-0000

County COMANCHE

SE - SE - NW Sec. 14 Twp. 31 Rge. 18  E  W

2310 Feet from S N (circle one) Line of Section

2310 Feet from E W (circle one) Line of Section

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

Lease Name SCHROCK "A" Well # 1

Field Name WILMORE

Producing Formation MISSISSIPPI

Elevation: Ground 2077.6 KB \_\_\_\_\_

Total Depth 5590 PBTD 5151

Amount of Surface Pipe Set and Cemented at 535 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 A.H.1, 8-498 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 4300 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

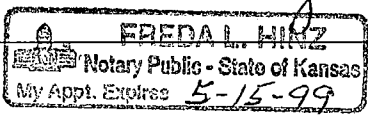
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side 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 L. Marc Harvey  
L. MARC HARVEY  
Title DRILLING TECHNICAL ASSISTANT Date 7-30-98

Subscribed and sworn to before me this 30th day of July 19 98.

Notary Public Freda L. Hirz  
Date Commission Expires \_\_\_\_\_



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

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name SCHROCK "A" Well #

Sec. 14 Twp. 31 Rge. 18 [ ] East [x] West County COMANCHE

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 [ ] Yes [x] No (Attach Additional Sheets.)
Samples Sent to Geological Survey [x] Yes [ ] No
Cores Taken [ ] Yes [x] No
Electric Log Run [x] Yes [ ] No (Submit Copy.)
List All E.Logs Run: SBT-CCL-GR, DIL, CNL-LDT-ML. FHC Sonic.
Log Formation (Top), Depth and Datums [ ] Sample
Name Top Datum
ADMIRE 3312
WABAUNSEE 3444
TOPEKA 3692
HEEBNER 4159
DOUGLAS 4218
LANSING 4350
B/KANSAS CITY 4770
MARMATHON 4826
CHEROKEE 4920
MISSISSIPPI 4990
KINDERHOOK 5430
VIOLA 5456
SIMPSON 5510

CASING RECORD
Report all strings set-conductor, surface, intermediate, production, etc.
Table with columns: 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.
Rows: SURFACE, PRODUCTION

ADDITIONAL CEMENTING/SQUEEZE RECORD
Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.
Purposes: Perforate, Protect Casing, Plug Back TD, Plug Off Zone

PERFORATION RECORD - Bridge Plugs Set/Type
Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
Table with columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record, Depth.
Rows: 2 5018-5038, 2 4993-5013

TUBING RECORD
Size 2 3/8" Set At 4959 Packer At Liner Run [ ] Yes [x] No
Date of First, Resumed Production, SWD or Inj. 6-23-98 Producing Method [x] Flowing [ ] Pumping [ ] Gas Lift [ ] Other (Explain)
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf 780 Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: [ ] Vented [x] Sold [ ] Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION: [ ] Open Hole [x] Perf. [ ] Dually Comp. [ ] Commingled [ ] Other (Specify)
Production Interval: 4993-5038 (OA)



JOB SUMMARY

ORDER NO. 70006

TICKET # 394674 TICKET DATE 5-9-98

|                               |                                 |   |                    |
|-------------------------------|---------------------------------|---|--------------------|
| REGION<br>North America       | NWA/COUNTRY<br>MID CONTINENT    | BDA / STATE<br>KANSAS                   | COUNTY<br>COMANCHE |
| MBU ID / EMP #<br>PRO503      | EMPLOYEE NAME<br>D. Scott B9475 | PSL DEPARTMENT<br>STEAMDRILLING         |                    |
| LOCATION<br>PRATT, KANSAS     | COMPANY<br>ANADARKO PETRO. CO.  | CUSTOMER REP / PHONE                    |                    |
| TICKET AMOUNT<br>8172.35      | WELL TYPE<br>02                 | API / UWI #<br>15033209560000           |                    |
| WELL LOCATION<br>N.W. WILMORE | DEPARTMENT<br>CEMENTING         | JOB PURPOSE CODE<br>010 CNT. SURFACE CS |                    |
| LEASE / WELL #<br>SCHROCK A-2 | SEC / TWP / RNG<br>14/31S/18W   |   |                    |

|  |  |  |  |
|--|--|--|--|
| HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS)   HRS |
| D. Scott B9475 4Y2                       | C. NIXON H1660 4Y2                       | T.S. CLAYTON H5236 4Y2                   |  |

ORIGINAL

|                  |           |                  |           |                  |           |                  |           |
|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES |
| 422209           | 98        |                  |           |                  |           |                  |           |
| 53387            | 98        |                  |           |                  |           |                  |           |
| 52530            | 98        |                  |           |                  |           |                  |           |

Form Name \_\_\_\_\_ Type \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

TOOLS AND ACCESSORIES

| TYPE AND SIZE           | QTY  | MAKE   |
|-------------------------|------|--------|
| Float Collar WEIDA      | 1 ea | Howco  |
| Float Shoe              |      |        |
| Guide Shoe 8 5/8        | 1 ea | Howco  |
| Centralizers 8 5/8      | 3 ea | S-4    |
| Bottom Plug             |      |        |
| Top Plug 8 5/8          | 1 ea | SWIPER |
| Head 8 5/8              | 1 ea | Howco  |
| Packer 8 5/8            | 1 ea | Howco  |
| Other 8 7/8 Insert Fill | 1 ea | Howco  |

MATERIALS

|                |         |        |
|----------------|---------|--------|
| Treat Fluid    | Density | Lb/Gal |
| Disp. Fluid    | Density | Lb/Gal |
| Prop. Type     | Size    | Lb.    |
| Prop. Type     | Size    | Lb.    |
| Acid Type      | Gal.    | %      |
| Acid Type      | Gal.    | %      |
| Surfactant     | Gal.    | In     |
| NE Agent       | Gal.    | In     |
| Fluid Loss     | Gal/Lb  | In     |
| Gelling Agent  | Gal/Lb  | In     |
| Fric. Red.     | Gal/Lb  | In     |
| Breaker        | Gal/Lb  | In     |
| Blocking Agent | Gal/Lb  |        |
| Perfpac Balls  | Qty.    |        |
| Other          |         |        |
| Other          |         |        |
| Other          |         |        |
| Other          |         |        |

| DATE   | CALLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|--------|------------|-------------|-------------|---------------|
| 5-8-98 | 2300       | 5-9-98      | 0130        | 5-9-98        |
|        |            |             | 0601        | 0630          |

WELL DATA

|              | NEW/USED     | WEIGHT | SIZE  | FROM     | TO  | MAX ALLOW |
|--------------|--------------|--------|-------|----------|-----|-----------|
| Casing       | NEW          | 24     | 8.625 | GL       | 533 |           |
| Liner        |              |        |       |          |     |           |
| Liner        |              |        |       |          |     |           |
| Tbg/D.P.     |              |        |       |          |     |           |
| Tbg/D.P.     |              |        |       |          |     |           |
| Open Hole    |              |        | 12.25 | 533      | 535 | SHOTS/FT. |
| Perforations |              |        |       |          |     |           |
| Perforations | TOTAL PIPE = |        |       | 547 FEET |     |           |
| Perforations |              |        |       |          |     |           |

HOURS ON LOCATION

| DATE  | HOURS |
|-------|-------|
| 5-9   | 4 1/2 |
| TOTAL |       |

OPERATING HOURS

| DATE  | HOURS  |
|-------|--------|
| 5-9   | 30 min |
| TOTAL |        |

DESCRIPTION OF JOB

8 7/8 surface

HYDRAULIC HORSEPOWER

|            |                      |         |
|------------|----------------------|---------|
| ORDERED    | Avail.               | Used    |
| TREATED    | AVERAGE RATES IN BPM | Overall |
| FEET 42.05 | CEMENT LEFT IN PIPE  | Reason  |
|            |                      | Insert  |

CEMENT DATA

| STAGE | SACKS | CEMENT   | BULK/SKS | ADDITIVES                           | YIELD | LBS/GAL |
|-------|-------|----------|----------|-------------------------------------|-------|---------|
| LEAD  | 95    | MIDCONJL | B        | 3% CALCIUM CHLORIDE & 1/4 # FLOCELE | 3.39  | 11.1    |
| TAIL  | 115   | STD      | B        | 2% CALCIUM CHLORIDE + 1/4 # FLOCELE | 1.18  | 15.6    |

|                  |               |              |                       |                                   |
|------------------|---------------|--------------|-----------------------|-----------------------------------|
| Circulating      | Displacement  | Preflush:    | Gal. <u>BBB 5</u>     | Type                              |
| Breakdown        | Maximum       | Load & Bkdn: | Gal. <u>BBB</u>       | Pad: <u>BBB</u> - Gal             |
| Average          | Frac Gradient | Treatment    | Gal. <u>BBB</u>       | Disp: <u>BBB</u> Gal. <u>32.2</u> |
| Shut In: Instant | 5 Min         | Cement Slurr | Gal. <u>BBB 81.52</u> |                                   |
|                  | 15 Min        | Total Volume | Gal. <u>BBB</u>       | <u>118.72</u>                     |

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE: *Ronald Malone*



# JOB LOG

ORDER NO. 70006

|                      |             |
|----------------------|-------------|
| TICKET #             | TICKET DATE |
| 344674               | 12/1/00     |
| BDA / STATE          | COUNTY      |
| PSL DEPARTMENT       |             |
| CUSTOMER REP / PHONE |             |
| API / UWI #          |             |
| JOB PURPOSE CODE     |             |

|                         |                 |
|-------------------------|-----------------|
| REGION<br>North America | NWA/COUNTRY     |
| MBU ID / EMP #          | EMPLOYEE NAME   |
| LOCATION                | COMPANY         |
| TICKET AMOUNT           | WELL TYPE       |
| WELL LOCATION           | DEPARTMENT      |
| LEASE / WELL #          | SEC / TWP / RNG |

|  |  |  |  |
|--|--|--|--|
| HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS |
|  |  | ORIGINAL                               |  |

| CHART NO.<br>#                      | TIME | RATE<br>(BPM) | VOLUME<br>(BBL/GAL) | PUMPS |   | PRESS. (psi) |     | JOB DESCRIPTION / REMARKS             |
|-------------------------------------|------|---------------|---------------------|-------|---|--------------|-----|---------------------------------------|
|                                     |      |               |                     | T     | C | Tbg          | Csg |                                       |
|                                     | 0300 |               |                     |       |   |              |     | Called Out                            |
|                                     | 0130 |               |                     |       |   |              |     | On Loc w/Trks Safety mtg              |
|                                     |      |               |                     |       |   |              |     | Run F.E. + Csg                        |
|                                     |      |               |                     |       |   |              |     | Cent 1 5 12 Basket 13th Jt            |
|                                     |      |               |                     |       |   |              |     | Csg on Bottom Drop Ball               |
|                                     |      |               |                     |       |   |              |     | Break Circ w/Rig                      |
|                                     |      |               |                     |       |   |              |     | Rig up Howco                          |
| 0601                                | 3    | 5             |                     |       |   | 150          |     | 5t H2O spacer                         |
| 0603                                | 6    |               |                     |       |   | 200          |     | 5t mixing Lead Cmt @ 11.1 ppg 95 sks  |
| 0612                                | 6    | 57.3          |                     |       |   | 150          |     | 5t mixing Tail Cmt @ 15.6 ppg 115 sks |
| 0617                                |      | 24.2          |                     |       |   |              |     | Finish mixing Cmt                     |
|                                     |      | 21.3          |                     |       |   |              |     | Total 5L                              |
| 0618                                |      |               |                     |       |   |              |     | Release Top Swiper Plug               |
| 0619                                | 5    |               |                     |       |   | 100          |     | 5t Disp w/H2O                         |
| 0626                                | 5    | 32.3          |                     |       |   | 250          |     | Plug Down + psi Test Csg              |
| 0628                                |      |               |                     |       |   |              |     | Release psi                           |
| <u>Circ @ 5Bhl's Cmt = 25 sks</u>   |      |               |                     |       |   |              |     |                                       |
| Good Circ During Job                |      |               |                     |       |   |              |     |                                       |
| Job Complete<br>Thank you<br>Scotty |      |               |                     |       |   |              |     |                                       |

## JOB SUMMARY

ORDER NO. 70006

|                                      |                               |
|--------------------------------------|-------------------------------|
| TICKET #<br><b>394 853</b>           | TICKET DATE<br><b>5.20.98</b> |
| BDA / STATE<br><b>KS</b>             | COUNTY<br><b>Comanche</b>     |
| PSL DEPARTMENT<br><b>SHIM</b>        |                               |
| CUSTOMER REP / PHONE<br><b>Steve</b> |                               |
| API / UWI #<br><b>15033209560000</b> |                               |
| JOB PURPOSE CODE<br><b>035</b>       |                               |

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| REGION<br><b>North America</b>        | NWA/COUNTRY<br><b>Mid Cont</b>      |
| MBU ID / EMP #<br><b>PR6503 B9475</b> | EMPLOYEE NAME<br><b>DL Scott</b>    |
| LOCATION<br><b>Pratt KS</b>           | COMPANY<br><b>Anadarko Pet Corp</b> |
| TICKET AMOUNT<br><b>8969.07</b>       | WELL TYPE<br><b>02</b>              |
| WELL LOCATION<br><b>Wilmore KS</b>    | DEPARTMENT<br><b>Cmt</b>            |
| LEASE / WELL #<br><b>Schrock A-1</b>  | SEC / TWP / RNG<br><b>14 31 18</b>  |

| HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS      | HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS |
|------------------------------------|----------|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|
| <b>DL Scott B9475</b>              | <b>6</b> |                                    |     |                                    |     |                                    |     |
| <b>PNixon H1660</b>                | <b>6</b> |                                    |     |                                    |     |                                    |     |
| <b>DPeterson J2993</b>             | <b>6</b> |                                    |     |                                    |     |                                    |     |

**ORIGINAL**

| HES UNIT NUMBERS | R/T MILES  | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES |
|------------------|------------|------------------|-----------|------------------|-----------|------------------|-----------|
| <b>421269</b>    | <b>110</b> |                  |           |                  |           |                  |           |
| <b>53387</b>     | <b>110</b> |                  |           |                  |           |                  |           |
| <b>52530</b>     | <b>110</b> |                  |           |                  |           |                  |           |

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

| DATE | CALLED OUT  | ON LOCATION | JOB STARTED | JOB COMPLETED |
|------|-------------|-------------|-------------|---------------|
|      | <b>5:20</b> | <b>5:20</b> | <b>5:20</b> | <b>5:20</b>   |
|      | <b>0500</b> | <b>0900</b> | <b>1322</b> | <b>1450</b>   |

### TOOLS AND ACCESSORIES

| TYPE AND SIZE            | QTY      | MAKE         |
|--------------------------|----------|--------------|
| Float Collar             |          |              |
| Float Shoe               |          |              |
| Guide Shoe <b>8nd</b>    | <b>1</b> | <b>Howco</b> |
| Centralizers <b>S-4</b>  | <b>8</b> | <b>112</b>   |
| Bottom Plug              |          |              |
| Top Plug <b>Swiper</b>   | <b>1</b> | <b>"</b>     |
| Head & manifold          | <b>1</b> | <b>"</b>     |
| Packer <b>IFV w/Fill</b> | <b>1</b> | <b>"</b>     |
| Other                    |          |              |

### WELL DATA

| NEW/USED     | WEIGHT                               | SIZE          | FROM        | TO          | MAX ALLOW |
|--------------|--------------------------------------|---------------|-------------|-------------|-----------|
| <b>u</b>     | <b>15.5</b>                          | <b>5.5 in</b> | <b>GL</b>   | <b>5290</b> |           |
| Casing       |                                      |               |             |             |           |
| Liner        |                                      |               |             |             |           |
| Liner        |                                      |               |             |             |           |
| Tbg/D.P.     |                                      |               |             |             |           |
| Tbg/D.P.     |                                      |               |             |             |           |
| Open Hole    |                                      | <b>17.875</b> | <b>5199</b> | <b>5290</b> | SHOTS/FT. |
| Perforations |                                      |               |             |             |           |
| Perforations | <b>Total pipe = 5210.93 15.5 ppf</b> |               |             |             |           |
| Perforations |                                      |               |             |             |           |

### MATERIALS

|                |                            |        |
|----------------|----------------------------|--------|
| Treat Fluid    | Density                    | Lb/Gal |
| Disp. Fluid    | Density                    | Lb/Gal |
| Prop. Type     | Size                       | Lb.    |
| Prop. Type     | Size                       | Lb.    |
| Acid Type      | Gal.                       | %      |
| Acid Type      | Gal.                       | %      |
| Surfactant     | Gal.                       | In     |
| NE Agent       | Gal.                       | In     |
| Fluid Loss     | Gal/Lb                     | In     |
| Gelling Agent  | Gal/Lb                     | In     |
| Fric. Red.     | Gal/Lb                     | In     |
| Breaker        | Gal/Lb                     | In     |
| Blocking Agent | Gal/Lb                     |        |
| Perfpac Balls  | Qty.                       |        |
| Other          |                            |        |
| Other          | <b>420 gal Super Flush</b> |        |
| Other          |                            |        |
| Other          |                            |        |

| HOURS ON LOCATION |       | OPERATING HOURS |       | DESCRIPTION OF JOB               |
|-------------------|-------|-----------------|-------|----------------------------------|
| DATE              | HOURS | DATE            | HOURS |                                  |
| <b>5.20</b>       |       | <b>5.20</b>     |       | <b>035</b><br><b>Prod String</b> |
|                   |       |                 |       |                                  |
|                   |       |                 |       |                                  |
|                   |       |                 |       |                                  |
|                   |       |                 |       |                                  |
|                   |       |                 |       |                                  |
|                   |       |                 |       |                                  |
|                   |       |                 |       |                                  |
| <b>TOTAL</b>      |       | <b>TOTAL</b>    |       |                                  |

|                   |                             |               |
|-------------------|-----------------------------|---------------|
| ORDERED           | HYDRAULIC HORSEPOWER Avail. | Used          |
| TREATED           | AVERAGE RATES IN BPM Disp.  | Overall       |
| FEET <b>35.97</b> | CEMENT LEFT IN PIPE Reason  | <b>Insert</b> |

### CEMENT DATA

| STAGE    | SACKS      | CEMENT           | BULK/SKS | ADDITIVES  | YIELD       | LBS/GAL     |
|----------|------------|------------------|----------|--|-------------|-------------|
| <b>1</b> | <b>165</b> | <b>50-50 ppc</b> | <b>B</b> | <b>2% Gel 10% Salt 1/4" Floccle .75% Halad-322</b> | <b>1.27</b> | <b>14.4</b> |
|          |            |                  |          | <b>25sks Cmt Plug RN &amp; M.H</b>                 |             |             |

|                  |                          |              |  |                            |
|------------------|--------------------------|--------------|--|----------------------------|
| Circulating      | Displacement             | Preflush:    | Gal - BBI <b>10</b>                                | Type <b>Super Flush</b>    |
| Breakdown        | Maximum <b>2000</b>      | Load & Bkdn: | Gal - BBI  | Pad: BBI - Gal             |
| Average          | Frac Gradient            | Treatment    | Gal - BBI  | Disp: BBI Gal <b>123.1</b> |
| Shut In: Instant | 5 Min _____ 15 Min _____ | Cement Slurr | Gal - BBI <b>5.6 plugging &amp; 31.6 Down Hole</b> |                            |
|                  |                          | Total Volume | Gal - BBI  |                            |

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE  
*Steve Peterson*



JOB LOG

ORDER NO. 70006

|                      |                  |
|----------------------|------------------|
| TICKET #             | TICKET DATE      |
| BDA / STATE          | COUNTY           |
| PSL DEPARTMENT       |                  |
| CUSTOMER REP / PHONE |                  |
| API / UWI #          |                  |
| DEPARTMENT           | JOB PURPOSE CODE |
| SEC / TWP / RNG      |                  |

|                         |                 |
|-------------------------|-----------------|
| REGION<br>North America | NWA/COUNTRY     |
| MBU ID / EMP #          | EMPLOYEE NAME   |
| LOCATION                | COMPANY         |
| TICKET AMOUNT           | WELL TYPE       |
| WELL LOCATION           | DEPARTMENT      |
| LEASE / WELL #          | SEC / TWP / RNG |

|  |  |  |  |
|--|--|--|--|
| HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS | HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS |
|  |  |  |  |

ORIGINAL

| CHART NO.<br>#                      | TIME | RATE<br>(BPM) | VOLUME<br>(BBQ/GAL) | PUMPS |   | PRESS. (psi) |      | JOB DESCRIPTION / REMARKS   |
|-------------------------------------|------|---------------|---------------------|-------|---|--------------|------|---|
|                                     |      |               |                     | T     | C | Tbg          | Csg  |   |
|                                     | 0500 |               |                     |       |   |              |      | Called Out  |
|                                     | 0800 |               |                     |       |   |              |      | On loc w/Trks Safety mtg<br>Cent 1 3 4 5 8 9 11 12<br>Csg on Bottom Drop Ball & Circ w/Rig 45 min<br>Rig up Howco |
|                                     | 1322 | 6             | 8                   |       | ✓ |              | 200  | H2O spacer  |
|                                     | 1324 | 6             | 10                  |       | ✓ |              | 250  | Pump spacer Flush   |
|                                     | 1327 | 1             | 8                   |       | ✓ |              | 200  | H2O spacer  |
|                                     | 1333 | 1             | 5.6                 |       |   |              |      | Plug R.H. & M.H. w/25 sk's Cmt  |
|                                     | 1338 | 6             |                     |       | ✓ |              | 250  | St mixing Cmt @ 14.4 ppq 140 sk's   |
|                                     | 1349 | 0             | 31.6                |       | ✓ |              | 0    | Finish mixing Cmt   |
|                                     | 1350 | 5             | 16                  |       |   |              |      | Close In & wash pump & line<br>Release Top Swiper Plug  |
|                                     | 1351 | 6             |                     |       | ✓ |              | 100  | St Disp w/H2O   |
|                                     | 1409 | 6             | 109                 |       | ✓ |              | 279  | Balance Point lifting Cmt   |
|                                     | 1416 | 0             | 123.1               |       | ✓ |              | 3000 | Plug Down & psi Test Csg OK   |
|                                     | 1418 |               |                     |       | ✓ |              | 3000 | Release psi Float Held<br>Good Circ During Job<br>Reciprotated Csg During Job<br>OK H2O on loc OK to mix with     |
| Job Complete<br>Thank you<br>Scotty |      |               |                     |       |   |              |      |   |