

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

API NO. 15- 175-21749-00-00

County SEWARD

C - SE - SW Sec. 34 Twp. 34 Rge. 34 X E

660 Feet from X(S) (circle one) Line of Section

1980 Feet from X(N) (circle one) Line of Section

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

Lease Name MATKIN "A" Well # 3

Field Name WIDEAWAKE

Producing Formation TORONTO

Elevation: Ground 2900.0 KB

Total Depth 6748 PBDT 4395

Amount of Surface Pipe Set and Cemented at 1710 Feet

Multiple Stage Cementing Collar Used? Yes X No

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

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

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

Drilling Fluid Management Plan Att. 1, 12-14-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 900 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. \_\_\_\_\_

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: NONE-SIGW

Operator Contact Person: DAVID W. KAPPLER

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

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

Designate Type of Completion

X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

\_\_\_\_\_ Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.

\_\_\_\_\_ Gas \_\_\_\_\_ ENHR X 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 \_\_\_\_\_ PBDT

\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

8-24-98 9-4-98 10-14-98

Spud Date Date Reached TD Completion Date

STATE CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WICHITA, KANSAS  
REG 10170  
MILE (Well)

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  
Title DRILLING TECHNICAL ASSISTANT Date 12-8-98

Subscribed and sworn to before me this 8th day of December 19 98.

Notary Public Freda L. Hine

Date Commission Expires \_\_\_\_\_

FREDA L. HINE  
Notary Public - State of Kansas  
My Appt. Expires 5-15-99

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

14119190

SIDE TWO

Operator Name ANADARKO-PETROLEUM CORPORATION Lease Name MATKIN "A" Well # 3

Sec. 34 Twp. 34 Rge. 34  East  West County SEWARD

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<br>(Attach Additional Sheets.)                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datums | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name                                    | Top                               | Datum                           |
| Cores Taken   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | CHASE                                   | 2617                              |                                 |
| Electric Log Run<br>(Submit Copy.)                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | COUNCIL GROVE                           | 2996                              |                                 |
| List All E.Logs Run: CBL-CCL-GR (4), DIL, CNL-LDT-ML,<br>3 ARM SONIC. |   | HEEBNER                                 | 4283                              |                                 |
|   |   | TORONTO                                 | 4314                              |                                 |
|   |   | LANSING                                 | 4436                              |                                 |
|   |   | MARMATON                                | 5152                              |                                 |
|   |   | CHEROKEE                                | 5474                              |                                 |
|   |   | MORROW                                  | 5832                              |                                 |
|   |   | CHESTER                                 | 6138                              |                                 |
|   |   | STE. GENEVIEVE                          | 6436                              |                                 |
|   |   | ST. LOUIS                               | 6518                              |                                 |
|   |   | SPERGEN                                 | 6706                              |                                 |

| 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   | 12-1/4"           | 8-5/8"                    | 23.0            | 1710          | P+ MIDCON 2/<br>PREM PLUS | 310/100      | 3%CC, 1/4#SK FLC/<br>2%CC, 1/4#SK FLC.   |
| PRODUCTION  | 7-7/8"            | 5-1/2"                    | 15.5            | 6748          | 50/50 POZ                 | 145          | .75% HALAD 322, 10%<br>SALT, 1/4#SK FLC. |
|   |                   |                           |                 |               |                           |              |  |

| ADDITIONAL CEMENTING/SQUEEZE RECORD                |                  |                |             |                            |
|--|------------------|----------------|-------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate                 | SQUEEZE PERFS    |                |             |                            |
| <input checked="" type="checkbox"/> Protect Casing | 6402-6408        | CLASS H        | 150         | 0.6% HALAD 9.              |
| <input type="checkbox"/> Plug Back TD              | PROTECT CSG.     |                |             |                            |
| <input checked="" type="checkbox"/> Plug Off Zone  | 4060-4409        | CLASS H        | 75          | 6%GEL, 0.7% HALAD 322.     |

| Shots Per Foot  | PERFORATION RECORD - Bridge Plugs Set/Type                             |  | Acid, Fracture, Shot, Cement Squeeze Record |   |
|---|--|--|---|---|
|   | Specify Footage of Each Interval Perforated                            |  | (Amount and Kind of Material Used)          | Depth   |
| 2   | 6558-6564, 6572-6577, 6591-6602,<br>CIBP @ 6553.                       |  | NONE  |   |
| 2   | 6436-6443, 6459-6469, 6471-6480, 6485-6494,<br>6508-6514, CIBP @ 6431. |  | NONE  |   |
| 2   | 6402-6408, SQUEEZED.   |  | NONE  |   |
| 2   | 6376-6387, CIBP @ 6250.  |  | ACID: 1100 GAL 15% HCL.                     | 6376-6387   |
| 2   | 4360-4370.   |  | ACID: 2000 GAL 15% HCL.                     | 4360-4370   |
| TUBING RECORD   | Size   | Set At   | Packer At                                   | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Inj.<br>NONE-SIGW |  | 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 TSTM Mcf   | Water Bbls. 504                             | 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: 4360-4370





JOB SUMMARY

ORIGINAL

|                |        |                      |         |
|----------------|--------|----------------------|---------|
| TICKET #       | 384093 | TICKET DATE          | 8-26-98 |
| BDA / STATE    | Ks.    | COUNTY               | Seward  |
| PSL DEPARTMENT | ZE     | CUSTOMER REP / PHONE |         |
| API / UWI #    |        | JOB PURPOSE CODE     | 010     |

|                |               |                 |               |
|----------------|---------------|-----------------|---------------|
| REGION         | North America | NWA/COUNTRY     | USA           |
| MBU ID / EMP # | MCL0103 F4550 | EMPLOYEE NAME   | Tyce Davis    |
| LOCATION       | Liberal Ks.   | COMPANY         | Angarcko Ref. |
| TICKET AMOUNT  |               | WELL TYPE       | 01            |
| WELL LOCATION  | Lond.         | DEPARTMENT      | ZE            |
| LEASE / WELL # | matkin A-3    | SEC / TWP / RNG | 34-34J-34W    |

| 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 |
|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|------------------------------------|-----|
| T. Davis F4550                     |     |                                    |     |                                    |     |                                    |     |
| B. McIntyre H2308                  |     |                                    |     |                                    |     |                                    |     |
| B. Humphries J6170                 |     |                                    |     |                                    |     |                                    |     |
| B. Fusk J0763                      |     |                                    |     |                                    |     |                                    |     |

  

| HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES |
|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| 54038-77941      | 10        |                  |           |                  |           |                  |           |
| 52276-7649       | 32        |                  |           |                  |           |                  |           |
| 52938-6611       | 32        |                  |           |                  |           |                  |           |

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

| DATE    | TIME | CALLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|---------|------|------------|-------------|-------------|---------------|
| 8-25-98 | 1600 | 8-25-98    | 1630        | 8-26-98     | 0100          |

**TOOLS AND ACCESSORIES**

| TYPE AND SIZE                | QTY | MAKE |
|------------------------------|-----|------|
| Float Collar 2 1/2" x 5 1/2" | 1   | H    |
| Float Shoe - Kill            | 1   |      |
| Guide Shoe Reg               | 1   | 0    |
| Centralizers SH              | 4   |      |
| Bottom Plug                  |     | W    |
| Top Plug SW                  | 1   |      |
| Head P.C.                    | 1   | L    |
| Packer                       |     |      |
| Other BOSTER                 | 1   | 0    |

**WELL DATA**

|              | NEW/USED | WEIGHT | SIZE   | FROM | TO   | MAX ALLOW |
|--------------|----------|--------|--------|------|------|-----------|
| Casing       | W.       | 23     | 8 5/8" | 165  | 1710 |           |
| Liner        |          |        |        |      |      |           |
| Liner        |          |        |        |      |      |           |
| Tbg/D.P.     |          |        |        |      |      |           |
| Tbg/D.P.     |          |        |        |      |      |           |
| Open Hole    |          |        |        |      |      | SHOTS/FT. |
| Perforations |          |        |        |      |      |           |
| Perforations |          |        |        |      |      |           |
| Perforations |          |        |        |      |      |           |

**MATERIALS**

|                |         |        |
|----------------|---------|--------|
| Treat Fluid    | Density | Lb/Gal |
| Disp. Fluid    | Density | Lb/Gal |
| Prop. Type     | Size    | Lb.    |
| 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  |        |
| Perpac Balls   | Qty.    |        |
| Other          |         |        |
| Other          |         |        |
| Other          |         |        |
| Other          |         |        |

| HOURS ON LOCATION |       | OPERATING HOURS |       | DESCRIPTION OF JOB |
|-------------------|-------|-----------------|-------|--------------------|
| DATE              | HOURS | DATE            | HOURS |                    |
|                   |       |                 |       | CMPT               |
|                   |       |                 |       | 8 5/8"             |
|                   |       |                 |       | S.P.               |
| TOTAL             |       | TOTAL           |       |                    |

  

|         |                      |           |
|---------|----------------------|-----------|
| ORDERED | HYDRAULIC HORSEPOWER | Used      |
| TREATED | AVERAGE RATES IN BPM | Overall   |
| FEET 42 | CEMENT LEFT IN PIPE  | Reason SJ |

**CEMENT DATA**

| STAGE | SACKS | CEMENT | BULK/SKS | ADDITIVES     | YIELD | LBS/GAL |
|-------|-------|--------|----------|---------------|-------|---------|
| 1     | 310   | Ptmc   | B        | 32cc 1/4" F10 | 3.22  | 11.1    |
| 1     | 100   | pt     | B        | 29cc 1/4" F10 | 1.32  | 14.2    |

|                  |               |              |                    |                   |
|------------------|---------------|--------------|--------------------|-------------------|
| Circulating      | Displacement  | Preflush:    | Gal - BBI          | Type              |
| Breakdown        | Maximum       | Load & Bkdn: | Gal - BBI          | Pad: BBI - Gal    |
| Average          | Frac Gradient | Treatment    | Gal - BBI          | Disp: BBI Gal 107 |
| Shut In: Instant | 5 Min         | Cement Slurr | Gal - BBI 178 L.C. | 23.5 T.C.         |
|                  | 15 Min        | 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: *J. J. ...*





JOB SUMMARY

ORIGINAL ORDER NO. 70006

TICKET # 383898 TICKET DATE

|                                   |                               |  |                  |
|-----------------------------------|-------------------------------|--|------------------|
| REGION<br>North America           | NWA/COUNTRY<br>Midcontinent   | BDA / STATE<br>Ks.                             | COUNTY<br>SEWARD |
| MBU ID / EMP #<br>L10203 71281    | EMPLOYEE NAME<br>Jeff Clark   | PSL DEPARTMENT<br>5002                         |                  |
| LOCATION<br>025540                | COMPANY<br>ANADARKO PETROLEUM | CUSTOMER REP / PHONE<br>Dd. Stuck 316 629 0058 |                  |
| TICKET AMOUNT                     | WELL TYPE<br>02               | API / UWI #<br>15-175-21749-0000               |                  |
| WELL LOCATION<br>NW/ Liberal, Ks. | DEPARTMENT<br>5002            | JOB PURPOSE CODE<br>667                        |                  |
| LEASE / WELL #<br>MATKID A #3     | SEC / TWP / RNG<br>34-34S-34W |  |                  |

| 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 |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| above                                 |                                       |                                       |                                       |
| Type Davis - F4550                    |                                       |                                       |                                       |
| Brian McStyre - #2308                 |                                       |                                       |                                       |
| Stan Owens                            |                                       |                                       |                                       |

| HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES |
|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| 420366           | 10        |                  |           |                  |           |                  |           |
| 420042           | 10        |                  |           |                  |           |                  |           |
| 54038/77941      | 10        |                  |           |                  |           |                  |           |
| 53336/6612       | 32        |                  |           |                  |           |                  |           |

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type EZSV Set At 6350  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

| DATE TIME    | CALLED OUT | ON LOCATION  | JOB STARTED | JOB COMPLETED |
|--------------|------------|--------------|-------------|---------------|
| 9-23-98 0830 |            | 9-23-98 0945 | 9-23-98     |               |

**TOOLS AND ACCESSORIES**

| TYPE AND SIZE | QTY | MAKE |
|---------------|-----|------|
| Float Collar  |     |      |
| Float Shoe    |     |      |
| Guide Shoe    |     |      |
| Centralizers  |     |      |
| Bottom Plug   |     |      |
| Top Plug      |     |      |
| Head          |     |      |
| Packer        |     |      |
| Other         |     |      |

**WELL DATA**

|              | NEW/USED | WEIGHT | SIZE  | FROM | TO        | MAX ALLOW |
|--------------|----------|--------|-------|------|-----------|-----------|
| Casing       | u        | 15.50  | 5 1/2 | 6L   |           |           |
| Liner        |          |        |       |      |           |           |
| Liner        |          |        |       |      |           |           |
| Tbg/D.P.     | u        | 4.7    | 2 3/8 | 6L   | 6350      |           |
| Tbg/D.P.     |          |        |       |      |           |           |
| Open Hole    |          |        |       |      |           | SHOTS/FT. |
| Perforations |          |        |       |      | 6402-6408 |           |
| Perforations |          |        |       |      |           |           |
| 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 _____          |               |              |
| Other _____          |               |              |
| Other _____          |               |              |

| HOURS ON LOCATION |       | OPERATING HOURS |       | DESCRIPTION OF JOB   |
|-------------------|-------|-----------------|-------|--|
| DATE              | HOURS | DATE            | HOURS |  |
|                   |       |                 |       | F-LINE 60 EZSV<br>THTW/ STAYGUIDE<br>EZZSV<br>STBOW w/ tools<br>OPERATION COMMISSION |
|                   |       |                 |       |  |
| <b>TOTAL</b>      |       | <b>TOTAL</b>    |       |  |

**HYDRAULIC HORSEPOWER**

ORDERED Avail. Used

**AVERAGE RATES IN BPM**

TREATED Disp. Overall

**CEMENT LEFT IN PIPE**

FEET Reason

**CEMENT DATA**

| STAGE | SACKS | CEMENT  | BULK/SKS | ADDITIVES      | YIELD | LBS/GAL |
|-------|-------|---------|----------|----------------|-------|---------|
|       | 100   | Premium | B        | 4 1/2% HALAD 9 | 1.06  | 16.4    |
|       | 50    | Premium | B        | NEAT           | 1.06  | 16.4    |

|                             |                            |                              |                       |
|-----------------------------|----------------------------|------------------------------|-----------------------|
| Circulating Breakdown _____ | Displacement Maximum _____ | Preflush: Gal - BBI _____    | Type _____            |
| Average _____               | Frac Gradient _____        | Load & Bkdn: Gal - BBI _____ | Pad: BBI - Gal _____  |
| Shut In: Instant _____      | 5 Min _____ 15 Min _____   | Treatment Gal - BBI _____    | Disp: BBI - Gal _____ |
|                             |                            | Cement Slurr Gal - BBI _____ |                       |
|                             |                            | 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  
*Dd. Stuck*

|                |                    |                      |                   |
|----------------|--------------------|----------------------|-------------------|
| TICKET #       | 382081             | TICKET DATE          | 10-5-98           |
| REGION         | North America      | BDA / STATE          | KS                |
| NWA/COUNTRY    | MID CONTINENT      | COUNTY               | Seamed            |
| MBU ID / EMP # | MC LT 0101 E0568   | PSL DEPARTMENT       | ZI                |
| EMPLOYEE NAME  | S. TATE            | CUSTOMER REP / PHONE |                   |
| LOCATION       | Liberal KS 025540  | API / UWI #          | 15-175-21749-0000 |
| COMPANY        | ANADARKO Pet. Corp | JOB PURPOSE CODE     | 205               |
| TICKET AMOUNT  |                    |                      |                   |
| WELL TYPE      | 02                 |                      |                   |
| WELL LOCATION  | Albion KS          |                      |                   |
| LEASE / WELL # | MARKW A-3          | SEC / TWP / RNG      | 34-34S-34W        |

| 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. McLANE (23601)                 |     |                                   |     |                                   |     |                                   |     |
| S. TATE E0568                     |     |                                   |     |                                   |     |                                   |     |
| R. Ferguson T6601                 |     |                                   |     |                                   |     |                                   |     |

| HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES | HES UNIT NUMBERS | R/T MILES |
|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|
| 420995           | 10        |                  |           |                  |           |                  |           |
| 54219 75374      | 10        |                  |           |                  |           |                  |           |
| 52823 6610       | 104       |                  |           |                  |           |                  |           |

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

| DATE | TIME | CALLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|------|------|------------|-------------|-------------|---------------|
|      |      | 10.5.98    | 10.5.98     | 10.5.98     | 10.5.98       |
|      |      | 1030       | 1200        | 1500        | 1653          |

**TOOLS AND ACCESSORIES**

| TYPE AND SIZE | QTY | MAKE |
|---------------|-----|------|
| Float Collar  |     |      |
| Float Shoe    |     |      |
| Guide Shoe    |     |      |
| Centralizers  |     |      |
| Bottom Plug   |     |      |
| Top Plug      |     |      |
| Head          |     |      |
| Packer        |     |      |
| Other         |     |      |

**WELL DATA**

|              | NEW/USED | WEIGHT | SIZE  | FROM | TO   | MAX ALLOW |
|--------------|----------|--------|-------|------|------|-----------|
| Casing       |          |        |       |      |      |           |
| Liner        |          |        |       |      |      |           |
| Liner        |          |        |       |      |      |           |
| Tbg/D.P.     |          |        |       |      |      |           |
| Tbg/D.P.     | N        | 4.7    | 2 3/4 | 215  | 4410 |           |
| Open Hole    |          |        |       |      |      | SHOTS/FT. |
| Perforations |          |        |       |      |      |           |
| Perforations |          |        |       |      |      |           |
| 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          |         |        |
| Other          |         |        |
| Other          |         |        |

| HOURS ON LOCATION |       | OPERATING HOURS |       | DESCRIPTION OF JOB  |
|-------------------|-------|-----------------|-------|---|
| DATE              | HOURS | DATE            | HOURS |   |
|                   |       |                 |       | See Job Log<br>MEDWELL<br>EXPERIMENTAL FOR<br>MISCELLANEOUS |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
|                   |       |                 |       |   |
| <b>TOTAL</b>      |       | <b>TOTAL</b>    |       |   |

**CEMENT DATA**

| STAGE | SACKS | CEMENT | BULK/SKS | ADDITIVES                           | YIELD | LBS/GAL |
|-------|-------|--------|----------|-------------------------------------|-------|---------|
| 1     | 75    | Perpac | Bulk     | 6.2 Gal. 7.2 Gal. 4.2 Gal. 3.2 Gal. | 1.58  | 14.1    |
|       |       |        |          |                                     |       |         |
|       |       |        |          |                                     |       |         |
|       |       |        |          |                                     |       |         |

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: Gal - BBI 17.12.8 Type 140 75  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment Gal - BBI \_\_\_\_\_ Disp: BBI Gal 16.5  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr Gal - BBI 2.1 13.01  
 Total Volume Gal - BBI \_\_\_\_\_

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