

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

Operator: License # 9482  
Name: National Petroleum Reserves Inc.  
Address: 250 N Rock Rd #130  
Wichita, KS 67206  
City/State/Zip \_\_\_\_\_

Purchaser: none

Operator Contact Person: Ted C Bredehoff

Phone ( 316 ) 681-3515

Contractor: Name: Blue Goose Drlg.

License: 5104

Wellsite Geologist: Dan DeBoer

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  S1OW  Temp. Abd.

Gas  ENHR  SIGW

Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

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. \_\_\_\_\_

4/16/95 4/22/95 NA 4/22/95  
Spud Date Date Reached TD Completion Date

API NO. 15- 179-210750000 ORIGINAL

County Sheridan

C - SW - NE - SW Sec. 5 Twp. 10S Rge. 26 X W

1650 Feet from  N (circle one) Line of Section

1650 Feet from  E (circle one) Line of Section

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

Lease Name: Terry Well # 1

Field Name Sky South

Producing Formation NA

Elevation: Ground 2616 KB 2623

Total Depth 4080 PBTD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 244 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 DEA 1-3-97 JK  
(Data must be collected from the Reserve Pit)

Chloride content 6,000 ppm Fluid volume 120 bbls

Dewatering method used natural dehydration

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, 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 Jacob Bullitt  
Title President Date 6/26/95

Subscribed and sworn to before me this 26<sup>th</sup> day of June 19 95.

Notary Public Susan E Bredehoff

Date Commission Expires 5-13-97

**SUSAN E. BREDEHOFF**  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 5-13-97

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  
RECEIVED  
STATE CORPORATION COMMISSION  
JUN 27 1995  
6:27 (SP104)  
CONSERVATION  
WICHITA, KS  
Form ACO-1 (7-91)

Operator Name National Petroleum Reserves, Inc. Lease Name TERRY Well # 1

Sec. 5 Twp. 10 Rge. 26  East  West County Sheridan

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datums | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Name                                    | Top                               | Datum                           |
| Cores Taken                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Anhydrite                               | 2252                              | +371                            |
| Electric Log Run<br>(Submit Copy.)                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Heebner                                 | 3830                              | -1207                           |
|                                                       |                                                                     | Lansing                                 | 3870                              | -1247                           |
|                                                       |                                                                     | Muncie Crk.                             | 3989                              | -1366                           |
|                                                       |                                                                     | Stark Sh.                               | 4058                              | -1435                           |
|                                                       |                                                                     | T.D.                                    | 4080                              |                                 |

List All E.Logs Run: Radiation Guard Log  
DST # 1 3984-4080 Misrun

DST #2 3984-4080 30-30-45-45 rec 120' GIP 10'  
cl. oil 60' MO FP's 66-66, 78-89 SIP's 777-876  
DST #3 Straddle 3884-3928 30-30-30-30 rec. 330'  
sl OCMW FP's 66-144, 157-222 SIP's 1053-965

| 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                     | 20#             | 255           | common         | 155          | 2% cc 3%gel                |
|                                                                                     |                   |                           |                 |               |                |              |                            |
|                                                                                     |                   |                           |                 |               |                |              |                            |

| 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  | Acid, Fracture, Shot, Cement Squeeze Record |
|----------------|---------------------------------------------|---------------------------------------------|
|                | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) Depth    |
|                |                                             |                                             |
|                |                                             |                                             |
|                |                                             |                                             |

|                                                |                                                                                                                                                               |         |             |                                                                    |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|--------------------------------------------------------------------|
| <b>TUBING RECORD</b>                           | Size                                                                                                                                                          | Set At  | Packer At   | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Inj. | 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:  
 Vented  Sold  Used on Lease  
 (If vented, submit ACO-18.)

| METHOD OF COMPLETION                           |                                |                                       |                                     | Production Interval |
|------------------------------------------------|--------------------------------|---------------------------------------|-------------------------------------|---------------------|
| <input type="checkbox"/> Open Hole             | <input type="checkbox"/> Perf. | <input type="checkbox"/> Dually Comp. | <input type="checkbox"/> Commingled |                     |
| <input type="checkbox"/> Other (Specify) _____ |                                |                                       |                                     |                     |

CUSTOMER COPY



HALLIBURTON

REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

15-179-21075-00-00 ORIGINAL

INVOICE NO. DATE

006693 04/15/1995

|                        |                     |                       |                      |               |             |
|------------------------|---------------------|-----------------------|----------------------|---------------|-------------|
| WELL LEASE NO./PROJECT |                     | WELL/PROJECT LOCATION |                      | STATE         | OWNER       |
| RY 1                   |                     | SHERIDAN              |                      | KS            | SAME        |
| SERVICE LOCATION       | CONTRACTOR          | JOB PURPOSE           |                      |               | TICKET DATE |
| S                      | BLUE GOOSE DRILLING | CEMENT SURFACE CASING |                      |               | 04/15/1995  |
| NO.                    | CUSTOMER AGENT      | VENDOR NO.            | CUSTOMER P.O. NUMBER | SHIPPED VIA   | FILE NO.    |
| 541                    | STIMATZE            |                       |                      | COMPANY TRUCK | 88922       |

DIRECT CORRESPONDENCE TO:

NATIONAL PETROLEUM RESERVES  
250 N. ROCK RD.  
SUITE 340  
WICHITA, KS 67206

P.O. BOX 1598  
LIBERAL, KS 67905-0000

| REFERENCE NO. | DESCRIPTION                    | QUANTITY | UNIT   | UNIT PRICE | AMOUNT   |
|---------------|--------------------------------|----------|--------|------------|----------|
| 0-017         | MILEAGE CEMENTING ROUND TRIP   | 120      | MI     | 2.75       | 330.00   |
| 1-016         | CEMENTING CASING               | 255      | FT     | 585.00     | 585.00   |
| 0-503         | WOODEN TOP PLUG                | 8        | 5/8 IN | 95.00      | 95.00    |
| 4-136         | CEMENT - 40/60 POZMIX STANDARD | 155      | SR     | 6.57       | 1,018.35 |
| 6-121         | HALLIBURTON-GEL 2%             | 300      | LB     | .00        | N/C      |
| 9-406         | ANHYDROUS CALCIUM CHLORIDE     | 4        | SR     | 36.75      | 147.00   |
| 0-207         | BULK SERVICE CHARGE            | 163      | CFT    | 1.35       | 220.05   |
| 0-306         | MILEAGE CMTG MAT DEL OR RETURN | 393.840  | TMI    | .95        | 374.15   |

INVOICE SUBTOTAL

2,769.55

DISCOUNT-(BID)

692.37-

INVOICE BID AMOUNT

2,077.18

\*-KANSAS STATE SALES TAX

68.15

\*-HAYS CITY SALES TAX

13.91

RECEIVED  
STATE CORPORATION COMMISSION

JUN 27 1995

CONSERVATION DIVISION  
WICHITA, KANSAS

INVOICE TOTAL - PLEASE PAY THIS AMOUNT \*\*\*\*\*

\$2,159.24

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer

OMER COPY



P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

15-179-21075-00-00

INVOICE NO: 706298  
DATE: 04/21/1995

|                        |                       |                 |                    |
|------------------------|-----------------------|-----------------|--------------------|
| WELL LEASE NO./PROJECT | WELL/PROJECT LOCATION | STATE           | OWNER              |
| RY 1                   | SHERIDAN              | KS              | SAME               |
| SERVICE LOCATION       | CONTRACTOR            | JOB PURPOSE     | TICKET DATE        |
| LIBERAL                | BLUE OOSE             | PLUG TO ABANDON | 04/21/1995         |
| ITEM NO.               | CUSTOMER AGENT        | VENDOR NO.      | CUSTOMER PO NUMBER |
| 1541                   | STIMATZE              |                 |                    |
|                        |                       | SHIPPED VIA     | FILE NO.           |
|                        |                       | COMPANY TRUCK   | 89330              |

NATIONAL PETROLEUM RESERVES  
250 N. ROCK RD.  
SUITE 340  
WICHITA, KS 67206

DIRECT CORRESPONDENCE TO:  
P.O. BOX 1598  
LIBERAL, KS 67905-0000

| REFERENCE NO. | DESCRIPTION                      | QUANTITY | UM  | UNIT PRICE | AMOUNT   |
|---------------|----------------------------------|----------|-----|------------|----------|
| 00 117        | MILEAGE CEMENTING ROUND TRIP     | 100      | MI  | 5.50       | 550.00   |
| 00 910        | MISCELLANEOUS PUMPING JOB        | 2        | UNT |            |          |
| 00 508        | CMTG PLUG LA-11, CP-1, CP-3, TOP | 1        | TRK | 395.00     | 395.00   |
| 04 040        | CEMENT - PREMIUM I               | 1        | EA  | 95.00      | 95.00    |
| 06 105        | POZMIX A                         | 114      | SK  | 10.61      | 1,209.54 |
| 06 121        | HALLIBURTON-GEL 2X               | 3624     | LB  | .074       | 416.18   |
| 07 27         | HALLIBURTON-GEL BENTONITE        | 3        | LB  | .00        | N/C      |
| 09 400        | ANHYDROUS CALCIUM CHLORIDE       | 7        | SK  | 19.60      | 137.20   |
| 00 207        | BULK SERVICE CHARGE              | 5        | SK  | 36.75      | 183.75   |
| 00 300        | MILEAGE CMTG MAT DEL OR RETURN   | 214      | CFT | 1.35       | 288.90   |
|               |                                  | 546.52   | TMI | .95        | 614.19   |

INVOICE SUBTOTAL

3,882.76

DISCOUNT-(BID)

970.66

INVOICE BID AMOUNT

2,912.10

- \*-KANSAS STATE SALES TAX
- \*-LIBERAL CITY SALES TAX
- \*-SEWARD COUNTY SALES TAX

142.69  
29.13  
29.13

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

RECEIVED  
STATE CORPORATION COMMISSION

JUN 27 1995

2,912.10

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer



# JOB SUMMARY

DIVISION 15-179-21075-00-00  
HALLIBURTON LOCATION Liberal ks

BILLED ON TICKET NO. 206294

## WELL DATA

FIELD \_\_\_\_\_ SEC 5 TWP. 10s RING 2600 COUNTY Sheridan Co. STATE ks

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

NITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRESENT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

|              | NEW USED  | WEIGHT    | SIZE         | FROM      | TO          | MAXIMUM PSI ALLOWABLE |
|--------------|-----------|-----------|--------------|-----------|-------------|-----------------------|
| CASING       |           |           |              |           |             |                       |
| LINER        |           |           |              |           |             |                       |
| TUBING       | <u>DP</u> | <u>20</u> | <u>4 1/2</u> | <u>KB</u> | <u>3276</u> |                       |
| OPEN HOLE    |           |           |              |           |             | SHOTS/FT.             |
| PERFORATIONS |           |           |              |           |             |                       |
| PERFORATIONS |           |           |              |           |             |                       |
| PERFORATIONS |           |           |              |           |             |                       |

## JOB DATA

| CALLED OUT                              | ON LOCATION                             | JOB STARTED                             | JOB COMPLETED                           |
|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| DATE <u>4-21-95</u><br>TIME <u>0240</u> | DATE <u>4-21-95</u><br>TIME <u>0450</u> | DATE <u>4-21-95</u><br>TIME <u>1030</u> | DATE <u>4-21-95</u><br>TIME <u>1340</u> |

## PERSONNEL AND SERVICE UNITS

| NAME             | UNIT NO. & TYPE | LOCATION           |
|------------------|-----------------|--------------------|
| <u>T. Payer</u>  | <u>40045</u>    | <u>Liberal, ks</u> |
| <u>Row Crist</u> | <u>7690</u>     | <u>" "</u>         |
| <u>R. Teepe</u>  | <u>09949</u>    | <u>" "</u>         |
| <u>S. Porter</u> | <u>60612</u>    | <u>Hypston, ks</u> |

## TOOLS AND ACCESSORIES

| TYPE AND SIZE | QTY. | MAKE |
|---------------|------|------|
| FLOAT COLLAR  |      |      |
| FLOAT SHOE    |      |      |
| SLIDE SHOE    |      |      |
| CENTRALIZERS  |      |      |
| BOTTOM PLUG   |      |      |
| TOP PLUG      |      |      |
| HEAD          |      |      |
| PACKER        |      |      |
| OTHER         |      |      |

## MATERIALS

CREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API

MIXPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

VE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRICTION RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT 5001

DESCRIPTION OF JOB Set plugs at 2226', 1350', 300', 40' + plug rat 15sk, mouse 10sk.

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Tom Payer COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

| STAGE       | NUMBER OF SACKS | CEMENT               | BRAND | BULK SACKED | ADDTIVES             | YIELD CU.FT./SK. | MIXED LBS./GAL. |
|-------------|-----------------|----------------------|-------|-------------|----------------------|------------------|-----------------|
| <u>plug</u> | <u>25</u>       | <u>6% gel, 3% cc</u> |       | <u>B</u>    | <u>6% gel, 3% cc</u> | <u>1.57</u>      | <u>13.4</u>     |
| <u>g</u>    | <u>100</u>      |                      |       |             |                      |                  |                 |
| <u>o</u>    | <u>40</u>       |                      |       |             |                      |                  |                 |
| <u>if</u>   | <u>15</u>       |                      |       |             |                      |                  |                 |
| <u>sub</u>  | <u>10</u>       |                      |       |             |                      |                  |                 |

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURUSH 001 GAL. 10 TYPE h2

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BDL-GAL. \_\_\_\_\_ PAD: BDL-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BDL-GAL. \_\_\_\_\_ DISPL: BDL-GAL. \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ CEMENT SLURRY 001 GAL. \_\_\_\_\_

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BDL-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

## REMARKS

SEE Job Log

List M.S.D.S. to LINDAN

CUSTOMER NATIONAL PAT RES LEASE OPERATOR WELL NO. 28 JOB TYPE U.S. (P19) DATE 4-21-95



# SUMMARY

HALLIBURTON LOCATION

Liberal ks 15-179 21075-00-00 TICKET NO. 7261298

## WELL DATA

FIELD \_\_\_\_\_ SEC 5 TWP. 10s RANGELAND COUNTY Sheridan Co. STATE ks

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

|              | NEW USED  | WEIGHT    | SIZE         | FROM      | TO          | MAXIMUM PSI ALLOWABLE |
|--------------|-----------|-----------|--------------|-----------|-------------|-----------------------|
| CASING       |           |           |              |           |             |                       |
| LINER        |           |           |              |           |             |                       |
| TUBING       | <u>DP</u> | <u>20</u> | <u>4 1/2</u> | <u>KB</u> | <u>2276</u> |                       |
| OPEN HOLE    |           |           |              |           |             | SHOTS/FT.             |
| PERFORATIONS |           |           |              |           |             |                       |
| PERFORATIONS |           |           |              |           |             |                       |
| PERFORATIONS |           |           |              |           |             |                       |

## JOB DATA

| CALLED OUT          | ON LOCATION         | JOB STARTED         | JOB COMPLETED       |
|---------------------|---------------------|---------------------|---------------------|
| DATE <u>4-21-95</u> | DATE <u>4-21-95</u> | DATE <u>4-21-95</u> | DATE <u>4-21-95</u> |
| TIME <u>0240</u>    | TIME <u>0450</u>    | TIME <u>1030</u>    | TIME <u>1340</u>    |

## PERSONNEL AND SERVICE UNITS

| NAME              | UNIT NO. & TYPE | LOCATION           |
|-------------------|-----------------|--------------------|
| <u>J. Payer</u>   | <u>40045</u>    | <u>Liberal, ks</u> |
| <u>Real Crist</u> | <u>76900</u>    | <u>" "</u>         |
| <u>R. Tegge</u>   | <u>09949</u>    | <u>" "</u>         |
| <u>J. Porter</u>  | <u>6612</u>     | <u>Hugoton, ks</u> |

## TOOLS AND ACCESSORIES

| TYPE AND SIZE | QTY. | MAKE |
|---------------|------|------|
| FLOAT COLLAR  |      |      |
| FLOAT SHOE    |      |      |
| GUIDE SHOE    |      |      |
| CENTRALIZERS  |      |      |
| BOTTOM PLUG   |      |      |
| TOP PLUG      |      |      |
| HEAD          |      |      |
| PACKER        |      |      |
| OTHER         |      |      |

## MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT 5001

DESCRIPTION OF JOB Set plugs at 2276', 1350', 300', 40' + plug at 150', mouse test.

JOB DONE THRU: TUBING  CASING  ANNULUS  TBC/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Tom Payer COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

| STAGE           | NUMBER OF SACKS | CEMENT         | BRAND | BULK SACKED | ADDITIVES            | YIELD CU.FT./BK. | MIXED LBS./GAL. |
|-----------------|-----------------|----------------|-------|-------------|----------------------|------------------|-----------------|
| <u>1st plug</u> | <u>25</u>       | <u>6% 4000</u> |       | <u>B</u>    | <u>6% Gel, 3% cc</u> | <u>1.57</u>      | <u>13.4</u>     |
| <u>2nd</u>      | <u>100</u>      | <u>" "</u>     |       | <u>"</u>    | <u>" "</u>           | <u>"</u>         | <u>"</u>        |
| <u>3rd</u>      | <u>40</u>       | <u>" "</u>     |       | <u>"</u>    | <u>" "</u>           | <u>"</u>         | <u>"</u>        |
| <u>Rat</u>      | <u>15</u>       | <u>" "</u>     |       | <u>"</u>    | <u>" "</u>           | <u>"</u>         | <u>"</u>        |
| <u>2nd plug</u> | <u>10</u>       | <u>" "</u>     |       | <u>"</u>    | <u>" "</u>           | <u>"</u>         | <u>"</u>        |

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PREFLUSH (BBL) - GAL. 10 TYPE 20

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL - GAL. \_\_\_\_\_ PAD: BBL - GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL - GAL. \_\_\_\_\_ DISPL: BBL - GAL. \_\_\_\_\_

SHUT-IN INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY (BBL) - GAL. \_\_\_\_\_

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL - GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

See Job Log

Left 11.5 D.S. 3 LITERS



HALLIBURTON

15-779-21075-00-00

DATE: 4-21-95 PAGE NO.

JOB LOG HAL-2013-C

|                                |                |                |                       |                      |
|--------------------------------|----------------|----------------|-----------------------|----------------------|
| CUSTOMER<br>National Pet. Res. | WELL NO.<br>#1 | LEASE<br>JERRY | JOB TYPE<br>115 (P1A) | TICKET NO.<br>706298 |
|--------------------------------|----------------|----------------|-----------------------|----------------------|

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL)(GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS                                   |
|-----------|------|------------|-------------------|-------|---|----------------|--------|--------------------------------------------------------------------------|
|           |      |            |                   | T     | C | TUBING         | CASING |                                                                          |
|           | 0230 |            |                   |       |   |                |        | Called out - Requested "noni" (200 mi)                                   |
|           | 0850 |            |                   |       |   |                |        | On loc. - Rig circ. - waiting on cat                                     |
|           |      |            |                   |       |   |                |        | Rig-up                                                                   |
|           | 1020 |            |                   |       |   |                |        | Safety meeting                                                           |
|           | 1025 |            |                   |       |   |                |        | 1 <sup>st</sup> plug at 2276 ft 2.25 sk @ 13.5% <sup>1/2</sup>           |
|           | 1028 | 0-3 1/2    | 10                | ✓     |   | 0%             |        | Pump H <sub>2</sub> O                                                    |
|           |      | 3 1/2      | 7                 | ✓     |   |                |        | Pump cat.                                                                |
|           |      | 3 1/2      | 3.5               | ✓     |   |                |        | Pump H <sub>2</sub> O .05787                                             |
|           |      | 3 1/2      | 24                | ✓     |   | 10%            |        | Pump mud                                                                 |
|           | 1041 | 3 1/2-0    |                   |       |   |                |        | Shut down - L.D.D.P.                                                     |
|           |      |            |                   |       |   |                |        | <del>2<sup>nd</sup> plug at 1350 ft 2.100 sk @ 13.5%<sup>1/2</sup></del> |
|           | 1129 | 0-5        | 10                | ✓     |   | 0%             |        | Pump H <sub>2</sub> O                                                    |
|           |      | 5          | 28                | ✓     |   |                |        | Pump cat                                                                 |
|           |      | 5          | 3.5               | ✓     |   | 16.5%          |        | Pump H <sub>2</sub> O                                                    |
|           |      | 5          | 7                 | ✓     |   | 5%             |        | Pump mud 1 1/2" well                                                     |
|           | 1136 | 5-0        |                   |       |   |                |        | Shut down - L.D.D.P.                                                     |
|           |      |            |                   |       |   |                |        | <del>3<sup>rd</sup> plug at 300' 2.40 sk @ 40%</del>                     |
|           | 1217 | 0-5        | 21                | ✓     |   | 0%             |        | Pump H <sub>2</sub> O                                                    |
|           |      | 5          | 11                | ✓     |   |                |        | Pump cement                                                              |
|           | 1225 | 5-2        | 2                 | ✓     |   |                |        | Pump H <sub>2</sub> O                                                    |
|           | 1236 | 2-0        |                   |       |   | 5%             |        | Shut down - L.D.D.P.                                                     |
|           |      |            |                   |       |   |                |        | Pull RAT + <del>2.100 sk</del> 2.100 sk                                  |
|           | 1333 | 2          | 4                 | ✓     |   |                |        | Pump RAT @ 15 sk                                                         |
|           | 1336 |            |                   | ✓     |   |                |        | Shut down - spot wooden plug 60 ft.                                      |
|           | 1338 | 12         | 26.5              | ✓     |   |                |        | Pump 5" PIPE 2 10 sk @ 40'                                               |
|           | 1339 |            |                   |       |   |                |        | Shut down.                                                               |

Thanks,  
Tom Boyer, Roni Caut, S Porter



HALLIBURTON

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|            |          |
|------------|----------|
| DATE       | PAGE NO. |
| 4-21-95    |          |
| TICKET NO. |          |
| 706298     |          |

JOB LOG HAL-2013-C

|                    |          |       |           |
|--------------------|----------|-------|-----------|
| CUSTOMER           | WELL NO. | LEASE | JOB TYPE  |
| National Pet. Res. | #1       | JERRY | 115 (PIR) |

| START NO. | TIME | RATE (GPM) | VOLUME (BBL)(GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS           |
|-----------|------|------------|-------------------|-------|---|----------------|--------|--------------------------------------------------|
|           |      |            |                   | T     | C | TUBING         | CASING |                                                  |
|           | 0230 |            |                   |       |   |                |        | Called out - Requested "new" (200 mi)            |
|           | 0850 |            |                   |       |   |                |        | ON loc - Rig circ - waiting on cat.              |
|           |      |            |                   |       |   |                |        | Rig-up                                           |
|           | 1020 |            |                   |       |   |                |        | Safety meeting                                   |
|           | 1025 |            |                   |       |   |                |        | 1st plug at 2276ft x 25sk 6 7/8" @ 138 1/2 gal   |
|           | 1028 | 0-3 1/2    | 10                | ✓     |   | 0/100          |        | Pump H <sub>2</sub> O                            |
|           |      | 3 1/2      | 7                 | ✓     |   |                |        | Pump cont.                                       |
|           |      | 3 1/2      | 3.5               | ✓     |   |                |        | Pump H <sub>2</sub> O .05787                     |
|           |      | 8 1/2      | 24                | ✓     |   | 10%            |        | Pump mud                                         |
|           | 1041 | 3 1/2-0    |                   |       |   |                |        | Shut down - L.D.D.P.                             |
|           |      |            |                   |       |   |                |        | 2nd plug at 1390 ft x 100sk 6 7/8" @ 138 1/2 gal |
|           | 1129 | 0-5        | 10                | ✓     |   | 0/50           |        | Pump H <sub>2</sub> O                            |
|           |      | 5          | 28                | ✓     |   |                |        | Pump cont.                                       |
|           |      | 5          | 3.5               | ✓     |   | 16 1/2         |        | Pump H <sub>2</sub> O                            |
|           |      | 5          | 7                 | ✓     |   | 50%            |        | Pump mud                                         |
|           | 1126 | 5-0        |                   |       |   |                | 25"    | Shut down - L.D.D.P.                             |
|           |      |            |                   |       |   |                | 300'   | 3rd plug at 300' x 40sk 6 7/8" @ 138 1/2 gal     |
|           | 1217 | 0-5        | 21                | ✓     |   | 0/50           |        | Pump H <sub>2</sub> O                            |
|           |      | 5          | 11                | ✓     |   |                |        | Pump cement                                      |
|           | 1225 | 5-2        | 2                 | ✓     |   |                |        | Pump H <sub>2</sub> O                            |
|           | 1226 | 2-0        |                   | ✓     |   | 50%            |        | Shut down - L.D.D.P.                             |
|           |      |            |                   |       |   |                |        | Pull rat + 500ft rods                            |
|           | 1333 | 2          | 4                 | ✓     |   |                |        | Pump rat @ 15 sks                                |
|           | 1336 |            |                   | ✓     |   |                |        | Shut down - spot wooden plug 60 ft.              |
|           | 1338 | 12         | 2:5               | ✓     |   |                |        | Pump 3" Pipe x 10 sks @ 40'                      |
|           | 1339 |            |                   |       |   |                |        | Shut down.                                       |

Thanks,  
Tom Payer, Ron Caut, S. Porter