

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

Operator: License # 4243  
Name CROSS BAR PETROLEUM, INC.  
Address P.O. BOX 20080  
City/State/Zip WICHITA, KANSAS 67208

Purchaser: TEXACO TRADING AND TRANSPORTATION

Operator Contact Person ALBERT BRENSING  
Phone (316) 683-5956

Contractor: License # 5380  
Name EAGLE DRILLING, INC.

Wellsite Geologist ALBERT BRENSING  
Phone (316) 683-5956

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If OWWO: old well info as follows:  
Operator .....  
Well Name .....  
Comp. Date ..... Old Total Depth.....

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
7-18-88 7-26-88 8-5-88  
Spud Date Date Reached TD Completion Date  
4951' 5000'  
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 452 feet  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt  
Cement Company Name .....  
Invoice # .....  
A I I

API NO. 15-097-21.263-0000  
County: KIOWA  
SE NE Sec 16 Twp 27S Rge 20 East  
West

3340 Ft North from Southeast Corner of Section  
360 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

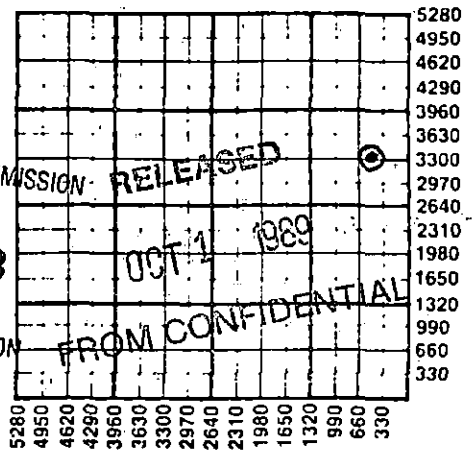
Lease Name: BRENSING Well # 16-1

Field Name: FRALICK WEST

Producing Formation: MISSISSIPPIAN

Elevation: Ground 2273' KB 2286'

Section Plat



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CONSERVATION DIVISION  
Wichita, Kansas

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WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # .....  Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit # T88-467

Groundwater 3440 Ft North from Southeast Corner  
(Well) 330 Ft West from Southeast Corner of  
Sec Twp Rge East  West  
16 27S 20  
Surface Water.....Ft North from Southeast Corner  
(Stream,pond etc).....Ft West from Southeast Corner  
Sec Twp Rge East West  
Other (explain).....  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. 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.

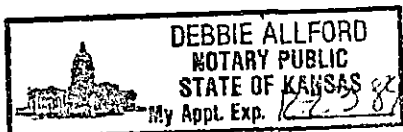
Signature: [Signature]

Title: PRESIDENT Date: 9-21-88

Subscribed and sworn to before me this 21st day of September 1988

Notary Public: [Signature]

Date Commission Expires: 12-23-89



K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Drillers Timelog Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)  
9-23-88

Sec. 16 Twp. 27 Rge. 20 E

Operator Name CROSS BAR PETROLEUM, INC. Lease Name BRENSING Well # 16

Sec. 16 Twp. 27S Rge. 20  East  West County KIOWA

WELL LOG

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.

| <p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>DST #1 4846-4858, 60-60-60-60, ICIP 646#-FCIP 646#, IFP 48-116, FFP 106-164, Shut in Pressures reached Static levels, B.H.T. 122°, Hydro Press. 2282#, Rec GTS 5min, stab 31,000, 479' Free Gassy Oil, 124' Heavy Oil and Slightly Gas Cut Mud.</p> <p>DST #2 4858-4878, 60-60-60-60, ICIP 694#-FCIP 694#, IFP 68-232, FFP 242-329, Shut in Pressures reached Static levels, B.H.T. 123°, Hydro Press. 2378#, Rec GTS 60 min, stab 5600, 435' Gas and Very Heavy oil cut Mud with Free Oil mixed Through-out, 380' water, clor. 43,000.</p> | <p>Formation Description<br/><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr><td>ANHY</td><td>+1008</td><td></td></tr> <tr><td>HEEB</td><td>-1796</td><td></td></tr> <tr><td>BL</td><td>-1930</td><td></td></tr> <tr><td>LANS</td><td>-1935</td><td></td></tr> <tr><td>STARK</td><td>-2214</td><td></td></tr> <tr><td>B/KC</td><td>-2346</td><td></td></tr> <tr><td>FT SCOTT</td><td>-2465</td><td></td></tr> <tr><td>CHER</td><td>-2483</td><td></td></tr> <tr><td>MISS</td><td>-2554</td><td></td></tr> <tr><td>MISS DOL</td><td>-2566</td><td></td></tr> </tbody> </table> | Name   | Top | Bottom | ANHY | +1008 |  | HEEB | -1796 |  | BL | -1930 |  | LANS | -1935 |  | STARK | -2214 |  | B/KC | -2346 |  | FT SCOTT | -2465 |  | CHER | -2483 |  | MISS | -2554 |  | MISS DOL | -2566 |  |
|--|--|--------|-----|--------|------|-------|--|------|-------|--|----|-------|--|------|-------|--|-------|-------|--|------|-------|--|----------|-------|--|------|-------|--|------|-------|--|----------|-------|--|
| Name   | Top  | Bottom |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| ANHY   | +1008  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| HEEB   | -1796  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| BL   | -1930  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| LANS   | -1935  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| STARK  | -2214  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| B/KC   | -2346  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| FT SCOTT   | -2465  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| CHER   | -2483  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| MISS   | -2554  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |
| MISS DOL   | -2566  |        |     |        |      |       |  |      |       |  |    |       |  |      |       |  |       |       |  |      |       |  |          |       |  |      |       |  |      |       |  |          |       |  |

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| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used<br>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 3/4"                                     | 8 5/8   | 23              | 452   | LIGHT   | 150         | 3% CC                      |
| PRODUCTION   | 7 7/8"                                      | 5 3/4   | 14.0            | 4951  | STANDARD  | 100         | 3% CC, 2% gel              |
|  |   |   |                 |   | POZMIX  | 62          | 2% gel                     |
| PERFORATION RECORD   |   |   |                 | Acid, Fracture, Shot, Cement Squeeze Record |   |             |                            |
| Shots Per Foot   | Specify Footage of Each Interval Perforated |   |                 | (Amount and Kind of Material Used)          |   | Depth       |                            |
| 4  | 4852'-4860                                  |   |                 | 500 GALLON FE. ACID                         |   | SAME        |                            |
|  |   |   |                 |   |   |             |                            |
| TUBING RECORD  |   | Size<br>2 3/8"  | Set At<br>4899' | Pecker at<br>NONE                           | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |             |                            |
| Date of First Production   |   | Producing Method  |                 |   |   |             |                            |
| 8-6-88   |   | <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain) |                 |   |   |             |                            |
| Estimated Production Per 24 Hours  |   | Oil<br>40 Bbls  | Gas<br>5 MCF    | Water<br>7 Bbls                             | Gas-Oil Ratio<br>CFPB   |             | Gravity                    |

|   |   |  |                     |
|---|---|--|---------------------|
| METHOD OF COMPLETION  |   |  | Production Interval |
| Disposition of gas: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease | <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perforation <input type="checkbox"/> Other (Specify) ..... |  | 4852'-4860'         |
|   | <input type="checkbox"/> Dually Completed <input type="checkbox"/> Commingled   |  | .....               |

COMPANY CROSS BAR PET.  
 SEC. 16 TWP. 27 RGE. 20 LOC.

FARM BRENSING WELL NO. 16-1  
 COUNTY 7 KIOWA STATE KANSAS

CONTRACTOR Eagle Drilling Inc

SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X 14

REMARKS: 35000 # WT  
75 RPM

SIZE PUMP LINERS 5 1/2 LENGTH STROKE 15  
1250 PSI  
62 SPM

DATE 7-22-88 (A.M.)

| DEPTH                 | TIME O'CLOCK            | MIN.  | REMARKS        |
|-----------------------|-------------------------|-------|----------------|
| <del>3500</del><br>01 | <del>4:36</del><br>4:39 | 3     | CONN, 3501     |
|                       | 4:44                    | 3     |                |
|                       | 4:48                    | 2 1/2 |                |
| 05                    | 4:49 1/2                | 1 1/2 |                |
|                       | 5:1 1/2                 | 2     |                |
|                       | 5:3 1/2                 | 2     |                |
|                       | 5:6 1/2                 | 3     |                |
|                       | 5:8 1/2                 | 2     |                |
| 10                    | 5:01                    | 2 1/2 |                |
|                       | 03 1/2                  | 2 1/2 |                |
|                       | 06 1/2                  | 3     |                |
|                       | 09 1/2                  | 3     |                |
| 15                    | 12                      | 2 1/2 |                |
|                       | 14 1/2                  | 2 1/2 |                |
|                       | 17                      | 2 1/2 |                |
|                       | 19                      | 2     |                |
|                       | 21 1/2                  | 2 1/2 |                |
|                       | 24                      | 2 1/2 |                |
| 20                    | 26 1/2                  | 2 1/2 |                |
|                       | 29                      | 2 1/2 | vis-44, wt-8.9 |
|                       | 32                      | 3     |                |
|                       | 34                      | 2     |                |
|                       | 37                      | 3     |                |
| 25                    | 39                      | 2     |                |
|                       | 41 1/2                  | 2 1/2 |                |
|                       | 44                      | 2 1/2 |                |
|                       | 46 1/2                  | 2 1/2 |                |
|                       | 49                      | 2 1/2 |                |
| 30                    | 51 1/2                  | 2 1/2 |                |
|                       | 54                      | 2 1/2 |                |
|                       | 56                      | 2     | conn, 3532     |
|                       | <del>55</del> 57        | 2     |                |
|                       | 59 1/2                  | 2 1/2 |                |
| 35                    | 6:03                    | 3 1/2 |                |
|                       | 05 1/2                  | 2 1/2 |                |
|                       | 08 1/2                  | 3     |                |
|                       | 12                      | 3 1/2 |                |
|                       | 15 1/2                  | 3 1/2 |                |
| 40                    | 18 1/2                  | 3     |                |
|                       | 20 1/2                  | 2     |                |
|                       | 22                      | 1 1/2 |                |
|                       | 23 1/2                  | 1 1/2 |                |
|                       | 25                      | 1 1/2 |                |
| 45                    | 27 1/2                  | 2 1/2 |                |
|                       | 29 1/2                  | 2     |                |
|                       | 31                      | 1 1/2 |                |
|                       | 33                      | 2     |                |
|                       | 35                      | 2     |                |
| 3550                  | 36                      | 1     |                |

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 Date: **OCT 1 1989**  
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 STATE CORPORATION COMMISSION

SEP 23 1988

CONSERVATION DIVISION  
 Wichita Kansas

**RELEASED**  
 OCT 1 1989  
 FROM CONFIDENTIAL

OCT 03 1988

| DEPTH                 | TIME O'CLOCK                | MIN.  | REMARKS    |
|-----------------------|-----------------------------|-------|------------|
| <del>3550</del><br>51 | <del>6:36</del><br>6:37 1/2 | 1 1/2 |            |
|                       | 38 1/2                      | 1     |            |
|                       | 40                          | 1 1/2 |            |
|                       | 42                          | 2     |            |
| 55                    | 45                          | 2     |            |
|                       | 47                          | 2     |            |
|                       | 50                          | 2     |            |
|                       | 51                          | 1     |            |
|                       | 53                          | 2     |            |
| 60                    | 56                          | 2     |            |
|                       | 58                          | 2     |            |
|                       | 7:00                        | 2     |            |
|                       | 03                          | 2     | conn, 3563 |
|                       | 7:12 1/2                    | 2     |            |
| 65                    | 16                          | 2     |            |
|                       | 17 1/2                      | 1 1/2 |            |
|                       | 19 1/2                      | 2     |            |
|                       | 21                          | 1 1/2 |            |
|                       | 22                          | 1     |            |
| 70                    | 23                          | 1     |            |
|                       | 24                          | 1     |            |
|                       | 25                          | 1     |            |
|                       | 25 1/2                      | 1 1/2 |            |
|                       | 26                          | 1 1/2 |            |
| 75                    | 26 1/2                      | 1 1/2 |            |
|                       | 27                          | 1 1/2 | vis 42     |
|                       | 27 1/2                      | 1 1/2 | wt 9.0     |
|                       | 28                          | 1 1/2 | w.l 10.0   |
|                       | 28 1/2                      | 1 1/2 | P.H. 10.5  |
| 80                    | 29                          | 1 1/2 |            |
|                       | 29 1/2                      | 1 1/2 |            |
|                       | 30                          | 1 1/2 |            |
|                       | 30 1/2                      | 1 1/2 |            |
|                       | 32                          | 1 1/2 |            |
| 85                    | 34 1/2                      | 2 1/2 |            |
|                       | 37                          | 2 1/2 |            |
|                       | 39 1/2                      | 2 1/2 |            |
|                       | 42 1/2                      | 3     |            |
|                       | 45                          | 2 1/2 |            |
| 90                    | 47                          | 2     |            |
|                       | 49                          | 2     |            |
|                       | 52                          | 3     |            |
|                       | 54 1/2                      | 2 1/2 |            |
|                       | 56 1/2                      | 2     |            |
| 95                    | 58 1/2                      | 2     | conn 3595  |
|                       | 8:03 1/2                    | 2     |            |
|                       | 06                          | 1     |            |
|                       | 08                          | 2     |            |
|                       | 10                          | 1     |            |
| 3600                  | 11                          | 1     |            |

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH           | TIME O'CLOCK    | MIN. | REMARKS |
|-----------------|-----------------|------|---------|
| <del>3600</del> | <del>8:11</del> |      |         |
|                 | 12              | 1    |         |
|                 | 13              | 1    |         |
|                 | 14½             | 1-   |         |
|                 | 16              | 1-   |         |
| 5               | 18              | 2    |         |
|                 | 19½             | 1-   |         |
|                 | 21½             | 2    |         |
|                 | 23½             | 2    |         |
|                 | 25              | 1-   |         |
| 10              | 26½             | 1-   |         |
|                 | 28              | 1-   |         |
|                 | 30              | 2    |         |
|                 | 31½             | 1-   |         |
|                 | 33½             | 2    |         |
| 15              | 35              | 1-   |         |
|                 | 37              | 2    |         |
|                 | 38½             | 1-   |         |
|                 | 40½             | 2    |         |
|                 | 42              | 1-   |         |
| 20              | 44              | 2    |         |
|                 | 46              | 2    |         |
|                 | 48              | 2    |         |
|                 | 49½             | 1-   |         |
|                 | 51              | 1-   |         |
| 25              | 52-             | 1-   | 3625    |
|                 | <del>56</del>   | 1-   |         |
|                 | 59.             | 2    |         |
|                 | 9:01.           | 2    |         |
|                 | 03              | 1.   |         |
| 30              | 04-             | 1-   |         |
|                 | 06              | 1-   |         |
|                 | 08-             | 2-   |         |
|                 | 10-             | 2    |         |
|                 | 12-             | 2    |         |
| 35              | 14-             | 2    |         |
|                 | 16.             | 1-   |         |
|                 | 18-             | 2.   |         |
|                 | 20.             | 2    | vis 44  |
|                 | 23              | 2-   | wt. 90  |
| 40              | 24-             | 1-   |         |
|                 | 25.             | 1    |         |
|                 | 26-             | 1    |         |
|                 | 27              | 1-   |         |
|                 | 27-             | ½    |         |
| 45              | 28              | ½    |         |
|                 | 28-             | ½    |         |
|                 | 29              | ½    |         |
|                 | 29-             | ½    |         |
|                 | 30              | ½    |         |
| 50              | 30-             | ½    |         |

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 STATE PRODUCTION COMMISSION  
 SEP 23 1988  
 CONSERVATION DIVISION  
 Topeka, Kansas

| DEPTH           | TIME O'CLOCK    | MIN. | REMARKS           |
|-----------------|-----------------|------|-------------------|
| <del>3650</del> | <del>9:30</del> |      |                   |
|                 | 31              | ½    |                   |
|                 | 32              | 1    |                   |
|                 | 33              | 1    |                   |
|                 | 34              | 1    |                   |
| 55              | 35              | 1    |                   |
|                 | 36-             | 1-   |                   |
|                 | 37-             | 1    | 3657 conn         |
|                 | <del>41</del>   | 1    |                   |
|                 | 42-             | ½    |                   |
| 60              | 43              | ½    |                   |
|                 | 43-             | ½    |                   |
|                 | 44              | ½    |                   |
|                 | 45              | 1    |                   |
|                 | 47              | 2    |                   |
| 65              | 49              | 2    |                   |
|                 | 51              | 2    |                   |
|                 | 53              | 2    |                   |
|                 | 55              | 2    |                   |
|                 | 57              | 2    |                   |
| 70              | 59              | 2    |                   |
|                 | 10:00           | 1    |                   |
|                 | 03              | 3    |                   |
|                 | 06              | 3    | RELEASED          |
|                 | 09              | 3    |                   |
| 75              | 10½             | 1½   | OCT 1 1969        |
|                 | 12              | 1½   | FROM CONFIDENTIAL |
|                 | 13½             | 1½   |                   |
|                 | 15              | 1½   |                   |
|                 | 17½             | 2½   |                   |
| 80              | 20½             | 3    |                   |
|                 | 22½             | 2    |                   |
|                 | 25              | 2½   |                   |
|                 | 27              | 2    |                   |
|                 | 29½             | 2½   |                   |
| 85              | 32              | 2½   |                   |
|                 | 33              | 1    |                   |
|                 | 34              | 1    |                   |
|                 | 36              | 2    | 3688 conn         |
|                 | <del>41</del>   | 1-   |                   |
| 90              | 43-             | 1    |                   |
|                 | 44-             | 1    |                   |
|                 | 45-             | 1    |                   |
|                 | 47              | 1½   |                   |
|                 | 48              | 1    |                   |
| 95              | 49              | 1    |                   |
|                 | 49½             | ½    |                   |
|                 | 50              | ½    |                   |
|                 | 50½             | ½    |                   |
|                 | 51              | ½    |                   |
| 3700            | 52              | 1    |                   |

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH           | TIME O'CLOCK     | MIN.           | REMARKS   |
|-----------------|------------------|----------------|-----------|
| <del>3700</del> | <del>10:52</del> |                |           |
|                 | 53               | 1              |           |
|                 | 54½              | 1½             |           |
|                 | 55½              | 1              |           |
|                 | 57½              | 2              |           |
| 5               | 11:00            | 2½             |           |
|                 | 01½              | 1½             |           |
|                 | 03               | 1½             |           |
|                 | 04½              | 1½             |           |
|                 | 06               | 1½             |           |
| 10              | 07               | 1              |           |
|                 | 08               | 1              |           |
|                 | 09-              | 1-             |           |
|                 | 11-              | 2              |           |
|                 | 14               | 2-             |           |
| 15              | 16-              | 2-             |           |
|                 | 20               | 3-             |           |
|                 | 23½              | 3              |           |
|                 | 25               | 2              |           |
|                 | 27               | 2              | Conn 3719 |
| 20              | <del>11:33</del> | <del>34½</del> | 1½        |
|                 | 35½              | 1              |           |
|                 | 36-              | ½              |           |
|                 | 37               | 1-             |           |
|                 | 38               | 1'             |           |
| 25              | 39               | 1              |           |
|                 | 40               | 1              |           |
|                 | 42               | 2'             |           |
|                 | 44               | 2              |           |
|                 | 45-              | 1-             |           |
| 30              | 48               | 2-             |           |
|                 | 50               | 2              |           |
|                 | 52               | 2              |           |
|                 | 55               | 3              |           |
|                 | 57-              | 2-             |           |
| 35              | 12:00            | 2-             |           |
|                 | 01-              | 1-             |           |
|                 | 03-              | 2              |           |
|                 | 06-              | 3              |           |
|                 | 08-              | 2              |           |
| 40              | 10               | 2              |           |
|                 | 12               | 2              |           |
|                 | 14               | 2              |           |
|                 | 17               | 3              | 44 vis    |
|                 | 19               | 2              | 9.1 wt    |
| 45              | 21-              | 1              |           |
|                 | 24               | 2-             |           |
|                 | 26               | 2              |           |
|                 | 28               | 2              |           |
|                 | 30               | 2              |           |
| 50              | 32               | 2              |           |

RECEIVED  
 STATE COOPERATION COMMISSION  
 SEP 25 1988  
 CONSERVATION DIVISION  
 MICHIGAN DEPT OF NATURAL RESOURCES

| DEPTH           | TIME O'CLOCK     | MIN.           | REMARKS           |
|-----------------|------------------|----------------|-------------------|
| <del>3750</del> | <del>12:32</del> |                |                   |
|                 | 33               | 1-             | 3751 conn         |
|                 | <del>37</del>    | <del>39-</del> | 2                 |
|                 | 42-              | 3              |                   |
|                 | 45               | 2-             |                   |
| 55              | 48               | 3              |                   |
|                 | 50-              | 2-             |                   |
|                 | 52-              | 2              |                   |
|                 | 54               | 1-             |                   |
|                 | 55-              | 1-             |                   |
| 60              | 57-              | 2              |                   |
|                 | 58-              | 1              |                   |
|                 | 1:00             | 1-             |                   |
|                 | 01               | 1              |                   |
|                 | 02               | 1              |                   |
| 65              | 03               | 1              |                   |
|                 | 04-              | 1-             |                   |
|                 | 05-              | 1              |                   |
|                 | 06               | ½              |                   |
|                 | 07               | 1              |                   |
| 70              | 07-              | ½              |                   |
|                 | 08-              | 1              |                   |
|                 | 09-              | 1              | RELEASED          |
|                 | 10-              | 1              |                   |
|                 | 11               | ½              | OCT 1 1989        |
| 75              | 12               | 1              | FROM CONFIDENTIAL |
|                 | 13-              | 1-             |                   |
|                 | 15-              | 2              |                   |
|                 | 17-              | 2              |                   |
|                 | 19-              | 2              |                   |
| 80              | 21-              | 2              |                   |
|                 | 23-              | 2              |                   |
|                 | 25-              | 2              |                   |
|                 | 27               | 1-             | 3783 conn         |
|                 | <del>29</del>    | <del>30-</del> | 1-                |
| 85              | 32-              | 2              |                   |
|                 | 34-              | 2              |                   |
|                 | 36-              | 2              |                   |
|                 | 38-              | 2              |                   |
|                 | 40-              | 2              |                   |
| 90              | 41-              | 1              |                   |
|                 | 42-              | 1              |                   |
|                 | 43               | 1              |                   |
|                 | 44               | ½              |                   |
|                 | 44-              | ½              |                   |
| 95              | 45               | ½              |                   |
|                 | 45-              | ½              |                   |
|                 | 46-              | 1              |                   |
|                 | 47               | ½              |                   |
|                 | 48               | 1              |                   |
| 3800            | 49               | 1              |                   |

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE \_\_\_\_\_

| DEPTH           | TIME O'CLOCK     | MIN.          | REMARKS        |
|-----------------|------------------|---------------|----------------|
| <del>3800</del> | <del>49</del>    | <del>49</del> | <del>1/2</del> |
|                 | 50               | 1/2           |                |
|                 | 51               | 1             |                |
|                 | 53               | 1 1/2         |                |
| 5               | 54               | 1 1/2         |                |
|                 | 56               | 1 1/2         |                |
|                 | 57               | 1 1/2         |                |
|                 | 59               | 1 1/2         |                |
|                 | 2:00             | 1             |                |
| 10              | 01               | 1             |                |
|                 | 02               | 1             |                |
|                 | 03               | 1             |                |
|                 | 04               | 1             | 3813 conn      |
|                 | <del>08</del> 09 | 1             |                |
| 15              | 10               | 1             |                |
|                 | 11               | 1             |                |
|                 | 12               | 1             |                |
|                 | 13               | 1             |                |
|                 | 14               | 1             |                |
| 20              | 14 1/2           | 1/2           |                |
|                 | 15 1/2           | 1 1/2         |                |
|                 | 17               | 1 1/2         |                |
|                 | 17 1/2           | 1/2           |                |
|                 | 19               | 1 1/2         |                |
| 25              | 20 1/2           | 1/2           |                |
|                 | 21 1/2           | 1             | Dis 41         |
|                 | 22 1/2           | 1             | wt 9.1+        |
|                 | 23 1/2           | 1             |                |
|                 | 24 1/2           | 1             |                |
| 30              | 25               | 1/2           |                |
|                 | 26               | 1             |                |
|                 | 27               | 1             |                |
|                 | 28               | 1             |                |
|                 | 28 1/2           | 1/2           |                |
| 35              | 29 1/2           | 1             |                |
|                 | 30               | 1/2           |                |
|                 | 31               | 1             |                |
|                 | 32               | 1             |                |
|                 | 33               | 1             |                |
| 40              | 34               | 1             |                |
|                 | 36               | 2             |                |
|                 | 39               | 3             |                |
|                 | 41 1/2           | 2 1/2         |                |
|                 | 44               | 2 1/2         |                |
| 45              | 45               | 1             |                |
|                 | <del>48</del> 51 | 2 1/2         |                |
|                 | 53 1/2           | 2 1/2         |                |
|                 | 56               | 2 1/2         |                |
|                 | 58               | 2             |                |
| 50              | 3:00             | 2             |                |

| DEPTH           | TIME O'CLOCK     | MIN.              | REMARKS          |
|-----------------|------------------|-------------------|------------------|
| <del>3850</del> | <del>3:00</del>  | <del>02 1/2</del> | <del>2 1/2</del> |
|                 | 05               | 2 1/2             |                  |
|                 | 07 1/2           | 2 1/2             |                  |
|                 | 09               | 1 1/2             |                  |
| 55              | 11               | 2                 |                  |
|                 | 13               | 2                 |                  |
|                 | 15               | 2                 |                  |
|                 | 17               | 2                 |                  |
|                 | 19               | 2                 |                  |
| 60              | 21               | 2                 |                  |
|                 | 23 1/2           | 2 1/2             |                  |
|                 | 26 1/2           | 3                 |                  |
|                 | 30               | 3 1/2             |                  |
|                 | 33               | 3                 |                  |
| 65              | 34 1/2           | 1 1/2             |                  |
|                 | 37               | 2 1/2             |                  |
|                 | 39               | 2                 |                  |
|                 | 40 1/2           | 1 1/2             |                  |
|                 | 41 1/2           | 1                 |                  |
| 70              | 42 1/2           | 1                 |                  |
|                 | 44               | 1 1/2             |                  |
|                 | 45 1/2           | 1 1/2             |                  |
|                 | 47               | 1 1/2             |                  |
|                 | 48               | 1                 |                  |
| 75              | 49 1/2           | 1 1/2             |                  |
|                 | 50 1/2           | 1                 | Conn 3876        |
|                 | <del>54</del> 56 | 2                 |                  |
|                 | 58 1/2           | 2 1/2             |                  |
|                 | 7:00 1/2         | 2                 |                  |
| 80              | 03               | 2 1/2             |                  |
|                 | 06               | 3                 |                  |
|                 | 07 1/2           | 1 1/2             |                  |
|                 | 09 1/2           | 2                 |                  |
|                 | 12               | 2 1/2             |                  |
| 85              | 14 1/2           | 2 1/2             |                  |
|                 | 16 1/2           | 2                 |                  |
|                 | 18               | 1 1/2             |                  |
|                 | 19 1/2           | 1 1/2             |                  |
|                 | 21 1/2           | 2                 |                  |
| 90              | 23               | 1 1/2             |                  |
|                 | 25               | 2                 |                  |
|                 | 27               | 2                 | 4/vis 9.1wt.     |
|                 | 28               | 1                 |                  |
|                 | 29 1/2           | 1 1/2             |                  |
| 95              | 30 1/2           | 1                 |                  |
|                 | 31 1/2           | 1                 |                  |
|                 | 32 1/2           | 1                 |                  |
|                 | 33 1/2           | 1                 |                  |
|                 | 34 1/2           | 1                 |                  |
| 100             | 36               | 1 1/2             |                  |

RELEASED

OCT 1 1988

FROM CONFIDENTIAL

RECEIVED  
 STATE PRODUCTION COMMISSION  
 SEP 25 1988

CONSERVATION DIVISION  
 Topeka Kansas

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_

SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ LOC. \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_

REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE \_\_\_\_\_

| DEPTH           | TIME O'CLOCK         | MIN.  | REMARKS          |
|-----------------|----------------------|-------|------------------|
| <del>3900</del> | <del>36</del> 37     | 1     |                  |
|                 | 38 1/2               | 1 1/2 |                  |
|                 | 40                   | 1 1/2 |                  |
|                 | 41 1/2               | 1 1/2 |                  |
| 05              | 43                   | 1 1/2 |                  |
|                 | 44                   | 1     |                  |
|                 | 45 1/2               | 1 1/2 | Conn 3907        |
|                 | <del>50</del> 51     | 1     |                  |
|                 | 52                   | 1     |                  |
| 10              | 53 1/2               | 1 1/2 |                  |
|                 | 55                   | 1 1/2 |                  |
|                 | 56                   | 1     |                  |
|                 | 57 1/2               | 1 1/2 |                  |
|                 | 59                   | 1 1/2 |                  |
| 15              | 5:01 1/2             | 2 1/2 |                  |
|                 | 04                   | 2 1/2 |                  |
|                 | 06                   | 2     |                  |
|                 | 08 1/2               | 2 1/2 |                  |
|                 | 11                   | 2 1/2 |                  |
| 20              | 14                   | 3     |                  |
|                 | 16                   | 2     |                  |
|                 | 17 1/2               | 1 1/2 |                  |
|                 | 18 1/2               | 1     |                  |
|                 | 19 1/2               | 1     |                  |
| <del>25</del>   | 20 1/2               | 1     |                  |
|                 | 21 1/2               | 1     |                  |
|                 | 22 1/2               | 1     |                  |
|                 | 23 1/2               | 1     |                  |
|                 | 24 1/2               | 1 1/2 |                  |
| 30              | 26                   | 1 1/2 |                  |
|                 | 27                   | 1     | 4 2 vis. 9.2 wt. |
|                 | 28                   | 1     |                  |
|                 | 29 1/2               | 1 1/2 |                  |
|                 | 30 1/2               | 1     |                  |
| 35              | 31 1/2               | 1     |                  |
|                 | 33                   | 1 1/2 |                  |
|                 | 34                   | 1     | Conn 3907        |
|                 | <del>37</del> 38 1/2 | 1     |                  |
|                 | 39 1/2               | 1     |                  |
| 40              | 40 1/2               | 1     |                  |
|                 | 41 1/2               | 1     |                  |
|                 | 42 1/2               | 1     |                  |
|                 | 43 1/2               | 1     |                  |
|                 | 45                   | 1 1/2 |                  |
| 45              | 47 1/2               | 2 1/2 |                  |
|                 | 50 1/2               | 3     |                  |
|                 | 54                   | 3 1/2 |                  |
|                 | 57 1/2               | 3 1/2 |                  |
|                 | 6:00                 | 2 1/2 |                  |
|                 | 02 1/2               | 2 1/2 |                  |

| DEPTH           | TIME O'CLOCK      | MIN.  | REMARKS           |
|-----------------|-------------------|-------|-------------------|
| <del>3950</del> | <del>02</del> 1/2 | 2     |                   |
|                 | 04 1/2            | 2     |                   |
|                 | 07                | 2 1/2 |                   |
|                 | 08                | 1     |                   |
|                 | 10 1/2            | 2 1/2 |                   |
| 55              | 14                | 3 1/2 |                   |
|                 | 17 1/2            | 3 1/2 |                   |
|                 | 20                | 2 1/2 |                   |
|                 | 22 1/2            | 2 1/2 |                   |
|                 | 24                | 1 1/2 |                   |
| 60              | 25                | 1     |                   |
|                 | 26                | 1     |                   |
|                 | 27 1/2            | 1 1/2 |                   |
|                 | 28 1/2            | 1     |                   |
|                 | 29 1/2            | 1     |                   |
| 65              | 30 1/2            | 1     |                   |
|                 | 31                | 1/2   |                   |
|                 | 32                | 1     |                   |
|                 | 33                | 1     |                   |
|                 | 34                | 1     | Conn 3969         |
| 70              | <del>38</del> 39  | 1     |                   |
|                 | 40                | 1     |                   |
|                 | 41                | 1     |                   |
|                 | 42                | 1     |                   |
|                 | 42 1/2            | 1/2   | RELEASED          |
| 75              | 43 1/2            | 1     |                   |
|                 | 44 1/2            | 1     | OCT 1 1989        |
|                 | 45 1/2            | 1     |                   |
|                 | 46 1/2            | 1     | FROM CONFIDENTIAL |
|                 | 47 1/2            | 1     |                   |
| 80              | 48 1/2            | 1     |                   |
|                 | 49 1/2            | 1     |                   |
|                 | 51                | 1 1/2 |                   |
|                 | 52 1/2            | 1 1/2 |                   |
|                 | 53 1/2            | 1     |                   |
| 85              | 54 1/2            | 1     |                   |
|                 | 55 1/2            | 1     |                   |
|                 | 56 1/2            | 1     |                   |
|                 | 57 1/2            | 1     |                   |
|                 | 58 1/2            | 1     |                   |
| 90              | 59 1/2            | 1     |                   |
|                 | 7:00 1/2          | 1     |                   |
|                 | 02                | 1 1/2 |                   |
|                 | 03                | 1     |                   |
|                 | 04                | 1     |                   |
| 95              | 05 1/2            | 1 1/2 |                   |
|                 | 07                | 1 1/2 |                   |
|                 | 08                | 1     |                   |
|                 | 09 1/2            | 1 1/2 |                   |
|                 | 12                | 2 1/2 |                   |
| 4:01            | 13                | 1     |                   |

RECEIVED  
 OIL & GAS CORPORATION COMMISSION  
 SEP 23 1988  
 INSPECTION DIVISION  
 Wichita, Kansas

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH           | TIME O'CLOCK         | MIN.  | REMARKS   |
|-----------------|----------------------|-------|-----------|
| <del>4000</del> | 13 14 1/2            | 1 1/2 | Conn 4001 |
|                 | <del>17 18 1/2</del> | 1 1/2 |           |
|                 | 20                   | 1 1/2 |           |
|                 | 22                   | 2     |           |
| 05              | 23 1/2               | 1 1/2 |           |
|                 | 25                   | 1 1/2 |           |
|                 | 26 1/2               | 1 1/2 |           |
|                 | 28 1/2               | 2     |           |
|                 | 30 1/2               | 2     |           |
| 10              | 32                   | 1 1/2 |           |
|                 | 33 1/2               | 1 1/2 |           |
|                 | 35                   | 1 1/2 |           |
|                 | 37                   | 2     |           |
|                 | 38 1/2               | 1 1/2 |           |
| 15              | 40                   | 1 1/2 |           |
|                 | 42                   | 2     |           |
|                 | 43                   | 1     |           |
|                 | 44                   | 1     |           |
|                 | 45                   | 1     |           |
| 20              | 45 1/2               | 1 1/2 |           |
|                 | 46 1/2               | 1     |           |
|                 | 47 1/2               | 1     |           |
|                 | 48                   | 1 1/2 |           |
|                 | 49                   | 1     |           |
| 25              | 50                   | 1     |           |
|                 | 51                   | 1     |           |
|                 | 51 1/2               | 1 1/2 |           |
|                 | 52 1/2               | 1     |           |
|                 | 53 1/2               | 1     |           |
| 30              | 54                   | 1 1/2 |           |
|                 | 55                   | 1     |           |
|                 | 56                   | 1     | Conn 4032 |
|                 | <del>57 1/2</del>    | 1     |           |
|                 | <del>58 1/2</del>    | 1     |           |
| 35              | 59 1/2               | 1     |           |
|                 | <del>59 1/2</del>    | 1     |           |
|                 | 01                   | 1     |           |
|                 | 02                   | 1     |           |
|                 | 03                   | 1     |           |
| 40              | 04                   | 1     |           |
|                 | 05                   | 1     |           |
|                 | 06                   | 1     |           |
|                 | 07 1/2               | 1 1/2 |           |
|                 | 09                   | 1 1/2 |           |
|                 | 11                   | 2     |           |
|                 | 13                   | 1     |           |
|                 | 14 1/2               | 1 1/2 |           |
|                 | 15 1/2               | 1     |           |
|                 | 16                   | 1 1/2 |           |
|                 | 17                   | 1     |           |
|                 | 18                   | 1     |           |

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 23 1989  
 INSPECTION DIVISION  
 Topeka, Kansas

| DEPTH           | TIME O'CLOCK         | MIN.  | REMARKS           |
|-----------------|----------------------|-------|-------------------|
| <del>4050</del> | 18 19                | 1     |                   |
|                 | 20                   | 1     |                   |
|                 | 21 1/2               | 1 1/2 |                   |
|                 | 23                   | 1 1/2 |                   |
| 55              | 24 1/2               | 1 1/2 |                   |
|                 | 26 1/2               | 2     |                   |
|                 | 28 1/2               | 2     |                   |
|                 | 30 1/2               | 2     |                   |
|                 | 33                   | 2 1/2 |                   |
| 60              | 35 1/2               | 2 1/2 |                   |
|                 | 37 1/2               | 2     |                   |
|                 | 39 1/2               | 2     |                   |
|                 | 41                   | 1 1/2 | Conn 4063         |
|                 | <del>44 45 1/2</del> | 1 1/2 |                   |
| 65              | 47 1/2               | 2     |                   |
|                 | 49 1/2               | 2     |                   |
|                 | 50 1/2               | 1     |                   |
|                 | 51 1/2               | 1     |                   |
|                 | 53                   | 1 1/2 |                   |
| 70              | 54                   | 1     |                   |
|                 | 55                   | 1     |                   |
|                 | 56                   | 1     |                   |
|                 | 57                   | 1     |                   |
|                 | 58                   | 1     | 41 vis 9.2 wt     |
| 75              | 9:00                 | 2     |                   |
|                 | 02                   | 2     |                   |
|                 | 05                   | 3     |                   |
|                 | 08                   | 3     | RELEASED          |
|                 | 11                   | 3     |                   |
| 80              | 14                   | 3     | OCT 1 1989        |
|                 | 17                   | 3     |                   |
|                 | 19                   | 2     | FROM CONFIDENTIAL |
|                 | 21                   | 2     |                   |
|                 | 23                   | 2     |                   |
| 85              | 24 1/2               | 1 1/2 |                   |
|                 | 25 1/2               | 1     |                   |
|                 | 26 1/2               | 1     |                   |
|                 | 30                   | 3 1/2 |                   |
|                 | 34                   | 4     |                   |
| 90              | 37                   | 3     |                   |
|                 | 40                   | 3     |                   |
|                 | 43                   | 3     |                   |
|                 | 47                   | 4     |                   |
|                 | 51                   | 4     | 2 21/894          |
| 95              | <del>51 1/2</del>    | 3 1/2 |                   |
|                 | 58 1/2               | 3 1/2 |                   |
|                 | 10:02                | 3 1/2 |                   |
|                 | 05 1/2               | 3 1/2 |                   |
|                 | 09                   | 3 1/2 |                   |
|                 | 11 1/2               | 2 1/2 |                   |



COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE 7-22-88 (P.M.)

| DEPTH           | TIME O'CLOCK        | MIN.  | REMARKS        |
|-----------------|---------------------|-------|----------------|
| <del>4100</del> | <del>11:12</del>    |       |                |
|                 | 14                  | 2 1/2 |                |
|                 | 17                  | 3     |                |
|                 | 20                  | 3     |                |
|                 | 22 1/2              | 2 1/2 |                |
| 05              | 25                  | 2 1/2 |                |
|                 | 27 1/2              | 2 1/2 |                |
|                 | 30                  | 2 1/2 |                |
|                 | 33                  | 3     |                |
|                 | 35 1/2              | 2 1/2 |                |
| 10              | 37                  | 1 1/2 |                |
|                 | 39 1/2              | 2 1/2 |                |
|                 | 42                  | 2 1/2 | 42 vis 9.2 wt. |
|                 | 44                  | 2     |                |
|                 | 46 1/2              | 2 1/2 |                |
| 15              | 48 1/2              | 2     |                |
|                 | 51                  | 2 1/2 |                |
|                 | 54                  | 3     |                |
|                 | 55 1/2              | 1 1/2 |                |
|                 | 57                  | 1 1/2 |                |
| 20              | 59                  | 2     |                |
|                 | 11:00               | 1     |                |
|                 | 01 1/2              | 1 1/2 |                |
|                 | 03                  | 1 1/2 |                |
|                 | 04                  | 1     |                |
| 25              | 05                  | 1     | Conn 4125      |
|                 | <del>11:06</del> 07 | 1     |                |
|                 | 08                  | 1     |                |
|                 | 09 1/2              | 1 1/2 | VIS-41, WT-9.2 |
|                 | 11                  | 1 1/2 |                |
| 30              | 13 1/2              | 2 1/2 |                |
|                 | 16                  | 2 1/2 |                |
|                 | 18 1/2              | 2 1/2 |                |
|                 | 21                  | 2 1/2 |                |
|                 | 23 1/2              | 2 1/2 |                |
| 35              | 26                  | 2 1/2 |                |
|                 | 28                  | 2     |                |
|                 | 29 1/2              | 1 1/2 |                |
|                 | 31 1/2              | 2     |                |
|                 | 33 1/2              | 2     |                |
| 40              | 35                  | 1 1/2 |                |
|                 | 37                  | 2     |                |
|                 | 38 1/2              | 1 1/2 |                |
|                 | 40                  | 1 1/2 |                |
|                 | 42                  | 2     |                |
| 45              | 44                  | 2     |                |
|                 | 46                  | 2     |                |
|                 | 47 1/2              | 1 1/2 |                |
|                 | 49 1/2              | 2     |                |
|                 | 51                  | 1 1/2 |                |
| 50              | 53                  | 2     |                |

| DEPTH           | TIME O'CLOCK     | MIN.  | REMARKS           |
|-----------------|------------------|-------|-------------------|
| <del>4150</del> | <del>11:53</del> |       |                   |
|                 | 55               | 2     |                   |
|                 | 57               | 2     |                   |
|                 | 58 1/2           | 1 1/2 |                   |
|                 | 12:00 1/2        | 2     | 7-23-88 (A.M.)    |
| 55              | 04               | 3 1/2 |                   |
|                 | 07               | 3     |                   |
|                 | 10 1/2           | 3 1/2 | conn, 4157        |
|                 | 09 1/2           | 3     |                   |
|                 | 15 1/2           | 3 1/2 |                   |
| 60              | 19               | 3 1/2 |                   |
|                 | 23               | 4     |                   |
|                 | 26               | 3     |                   |
|                 | 29               | 3     |                   |
|                 | 33               | 4     |                   |
| 65              | 36               | 3     |                   |
|                 | 39               | 3     |                   |
|                 | 42 1/2           | 3 1/2 |                   |
|                 | 45 1/2           | 3     |                   |
|                 | 48 1/2           | 3     |                   |
| 70              | 51 1/2           | 3     |                   |
|                 | 54               | 2 1/2 |                   |
|                 | 56 1/2           | 2 1/2 |                   |
|                 | 58 1/2           | 2     |                   |
|                 | 1:01             | 2 1/2 |                   |
| 75              | 03               | 2     | RELEASED          |
|                 | 05               | 2     |                   |
|                 | 07               | 2     | OCT 1 1989        |
|                 | 09               | 2     | FROM CONFIDENTIAL |
|                 | 10 1/2           | 1 1/2 |                   |
| 80              | 12 1/2           | 2     |                   |
|                 | 14               | 1 1/2 |                   |
|                 | 16               | 2     |                   |
|                 | 18               | 2     |                   |
|                 | 20               | 2     |                   |
| 85              | 21 1/2           | 1 1/2 |                   |
|                 | 23 1/2           | 2     | VIS-43, WT-9.1    |
|                 | 25               | 1 1/2 |                   |
|                 | 26 1/2           | 1 1/2 | conn, 4188        |
|                 | 28 1/2           | 1 1/2 |                   |
| 90              | 31               | 1 1/2 |                   |
|                 | 33               | 2     |                   |
|                 | 35               | 2     |                   |
|                 | 36 1/2           | 1 1/2 |                   |
|                 | 38 1/2           | 2     |                   |
| 95              | 40               | 1 1/2 |                   |
|                 | 41 1/2           | 1 1/2 |                   |
|                 | 42 1/2           | 1     |                   |
|                 | 44               | 1 1/2 |                   |
|                 | 45 1/2           | 1 1/2 |                   |
| 4200            | 47               | 1 1/2 |                   |

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 23 1988  
 CONSERVATION DIVISION  
 Topeka, Kansas

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE 7-23-58 (A.M.)

| DEPTH           | TIME O'CLOCK    | MIN.  | REMARKS    |
|-----------------|-----------------|-------|------------|
| <del>4200</del> | <del>1:47</del> |       |            |
|                 | 1:48            | 1     |            |
|                 | 1:49 1/2        | 1 1/2 |            |
|                 | 51              | 1 1/2 |            |
|                 | 52 1/2          | 1 1/2 |            |
| 05              | 53 1/2          | 1     |            |
|                 | 55              | 1 1/2 |            |
|                 | 56 1/2          | 1 1/2 |            |
|                 | 57 1/2          | 1     |            |
|                 | 59              | 1 1/2 |            |
| 10              | 2:00 1/2        | 1 1/2 |            |
|                 | 02              | 1 1/2 |            |
|                 | 03 1/2          | 1 1/2 |            |
|                 | 04 1/2          | 1     |            |
|                 | 05 1/2          | 1     |            |
| 15              | 07              | 1 1/2 |            |
|                 | 10 1/2          | 3 1/2 |            |
|                 | 14 1/2          | 4     |            |
|                 | 18              | 3 1/2 |            |
|                 | 21              | 3     |            |
| 20              | 24              | 3     | CONN, 4220 |
|                 | 25 1/2          | 3     |            |
|                 | 31 1/2          | 3     | VIS-42     |
|                 | 35              | 3 1/2 | WT-91      |
|                 | 38              | 3     |            |
| 25              | 40 1/2          | 2 1/2 |            |
|                 | 43 1/2          | 3     |            |
|                 | 46              | 2 1/2 |            |
|                 | 48 1/2          | 2 1/2 |            |
|                 | 51              | 2 1/2 |            |
| 30              | 52 1/2          | 1 1/2 |            |
|                 | 53 1/2          | 1     |            |
|                 | 54 1/2          | 1     |            |
|                 | 55 1/2          | 1     |            |
|                 | 57 1/2          | 2     |            |
| 35              | 59 1/2          | 2     |            |
|                 | 3:01            | 1 1/2 |            |
|                 | 02 1/2          | 1 1/2 |            |
|                 | 04 1/2          | 2     |            |
|                 | 06              | 1 1/2 |            |
| 40              | 08              | 2     |            |
|                 | 11              | 3     |            |
|                 | 14 1/2          | 3 1/2 |            |
|                 | 18              | 3 1/2 |            |
|                 | 21 1/2          | 3 1/2 |            |
| 45              | 24 1/2          | 3     |            |
|                 | 28              | 3 1/2 |            |
|                 | 31              | 3     |            |
|                 | 35              | 4     |            |
|                 | 39 1/2          | 4 1/2 |            |
| 50              | 43              | 3 1/2 |            |

| DEPTH           | TIME O'CLOCK    | MIN.  | REMARKS           |
|-----------------|-----------------|-------|-------------------|
| <del>4250</del> | <del>3:43</del> |       |                   |
|                 | 46 1/2          | 3 1/2 | CONN, 4251        |
|                 | 48 51 1/2       | 3 1/2 |                   |
|                 | 54 1/2          | 3     | VIS-44, WT-91     |
|                 | 57 1/2          | 3     |                   |
| 55              | 4:00 1/4        | 3     |                   |
|                 | 03 1/2          | 3     |                   |
|                 | 06 1/2          | 3     |                   |
|                 | 09 1/2          | 3     |                   |
|                 | 12 1/2          | 3     |                   |
| 60              | 14 1/2          | 2     |                   |
|                 | 16 1/2          | 2     |                   |
|                 | 19              | 2 1/2 |                   |
|                 | 21 1/2          | 2 1/2 |                   |
|                 | 23 1/2          | 2     |                   |
| 65              | 26              | 2 1/2 |                   |
|                 | 28 1/2          | 2 1/2 |                   |
|                 | 30 1/2          | 2     |                   |
|                 | 32 1/2          | 2     |                   |
|                 | 34 1/2          | 2     |                   |
| 70              | 36 1/2          | 2     |                   |
|                 | 38              | 1 1/2 |                   |
|                 | 40              | 2     |                   |
|                 | 41 1/2          | 1 1/2 |                   |
|                 | 42 1/2          | 1     |                   |
| 75              | 43 1/2          | 1     | RELEASED          |
|                 | 44 1/2          | 1     |                   |
|                 | 46              | 1 1/2 | OCT 1 1989        |
|                 | 47 1/2          | 1 1/2 |                   |
|                 | 50 1/2          | 3     | FROM CONFIDENTIAL |
| 80              | 54              | 3 1/2 |                   |
|                 | 57 1/2          | 3 1/2 |                   |
|                 | 59 1/2          | 2     |                   |
|                 | 5:02 1/2        | 3     | CONN, 4283        |
|                 | 02 05           | 3     |                   |
| 85              | 06 1/2          | 1 1/2 |                   |
|                 | 08              | 1 1/2 | VIS-43, WT-91     |
|                 | 09 1/2          | 1 1/2 |                   |
|                 | 11 1/2          | 2     |                   |
|                 | 14              | 2 1/2 |                   |
| 90              | 16              | 2     |                   |
|                 | 18              | 2     |                   |
|                 | 20 1/2          | 2 1/2 |                   |
|                 | 24              | 3 1/2 |                   |
|                 | 27              | 3     |                   |
| 95              | 30 1/2          | 3 1/2 |                   |
|                 | 33 1/2          | 3     |                   |
|                 | 36 1/2          | 3     |                   |
|                 | 40              | 3 1/2 |                   |
|                 | 43              | 3     |                   |
| 4300            | 46              | 3     |                   |

RECEIVED  
 STATE PRODUCTION COMMISSION  
 SEP 23 1989  
 DIVISION OF OIL & GAS  
 Jefferson, Kansas



COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_

SEC. TWP. RGE. LOC. COUNTY STATE

CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_

REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH           | TIME O'CLOCK    | MIN.  | REMARKS         |
|-----------------|-----------------|-------|-----------------|
| <del>4300</del> | <del>5:46</del> |       |                 |
|                 | 5:49            | 3     |                 |
|                 | 57              | 2     |                 |
|                 | 54              | 3     |                 |
|                 | 57              | 3     |                 |
| 05              | 59              | 2     |                 |
|                 | 6:03            | 4     |                 |
|                 | 06 1/2          | 3 1/2 |                 |
|                 | 09 1/2          | 3     |                 |
|                 | 12 1/2          | 3     |                 |
| 10              | 14 1/2          | 2     |                 |
|                 | 16 1/2          | 2     |                 |
|                 | 18 1/2          | 2     | conn, 4312      |
|                 | 22 1/4          | 2     |                 |
|                 | 27              | 3     |                 |
| 15              | 28 1/2          | 1 1/2 |                 |
|                 | 31              | 2 1/2 |                 |
|                 | 32              | 1     |                 |
|                 | 33 1/2          | 1 1/2 | VIS-42, 12T-9.1 |
|                 | 35              | 1 1/2 |                 |
| 20              | 36 1/2          | 1 1/2 |                 |
|                 | 37 1/2          | 1     |                 |
|                 | 39 1/2          | 2     |                 |
|                 | 41              | 1 1/2 |                 |
|                 | 42 1/2          | 1 1/2 |                 |
| 25              | 43 1/2          | 1     |                 |
|                 | 44 1/2          | 1     |                 |
|                 | 47 1/2          | 3     |                 |
|                 | 51              | 3 1/2 |                 |
|                 | 55              | 4     |                 |
| 30              | 59              | 4     |                 |
|                 | 7:03            | 4     |                 |
|                 | 05              | 2     |                 |
|                 | 08              | 3     |                 |
|                 | 11              | 3     |                 |
| 35              | 14              | 3     |                 |
|                 | 17              | 3     |                 |
|                 | 20 1/2          | 3 1/2 |                 |
|                 | 22 1/2          | 2     |                 |
|                 | 23              | 1 1/2 |                 |
| 40              | 28 1/2          | 1 1/2 |                 |
|                 | 24              | 1 1/2 |                 |
|                 | 24 1/2          | 1 1/2 |                 |
|                 | 25 1/2          | 1     |                 |
|                 | 26 1/2          | 1     |                 |
| 45              | 28              | 1 1/2 | conn 4345       |
|                 | 31 1/2          | 3     |                 |
|                 | 43 1/2          | 3 1/2 |                 |
|                 | 47              | 3 1/2 |                 |
|                 | 50 1/2          | 3 1/2 |                 |
| 50              | 54              | 3 1/2 |                 |

| DEPTH           | TIME O'CLOCK  | MIN.  | REMARKS           |
|-----------------|---------------|-------|-------------------|
| <del>4350</del> | <del>54</del> |       |                   |
| 51              | 57 1/2        | 3 1/2 |                   |
|                 | 8:00          | 3 1/2 |                   |
|                 | 03            | 3     |                   |
|                 | 04            | 1     |                   |
| 55              | 06            | 2     |                   |
|                 | 07            | 1     |                   |
|                 | 05 1/2        | 1 1/2 |                   |
|                 | 10            | 1 1/2 |                   |
|                 | 12            | 2     |                   |
| 60              | 14            | 2     |                   |
|                 | 15 1/2        | 1 1/2 |                   |
|                 | 17 1/2        | 2     |                   |
|                 | 19 1/2        | 2     |                   |
|                 | 22 1/2        | 3     |                   |
| 65              | 24 1/2        | 2     |                   |
|                 | 26 1/2        | 2 1/2 |                   |
|                 | 29            | 2 1/2 | RELEASED          |
|                 | 31            | 2     |                   |
|                 | 32            | 1     | OCT 1 1989        |
| 70              | 33            | 1     |                   |
|                 | 34            | 1     | FROM CONFIDENTIAL |
|                 | 35 1/2        | 1 1/2 |                   |
|                 | 37            | 1 1/2 |                   |
|                 | 38            | 1     |                   |
| 75              | 39 1/2        | 1 1/2 |                   |
|                 | 41            | 1 1/2 |                   |
|                 | 43            | 2     | conn 4377         |
|                 | 47 1/2        | 2 1/2 |                   |
|                 | 51            | 1 1/2 |                   |
| 80              | 52            | 1     |                   |
|                 | 53 1/2        | 1 1/2 |                   |
|                 | 55            | 1 1/2 |                   |
|                 | 56 1/2        | 1 1/2 |                   |
|                 | 59            | 2 1/2 |                   |
| 85              | 9:02          | 3     |                   |
|                 | 05 1/2        | 3 1/2 |                   |
|                 | 09            | 3 1/2 |                   |
|                 | 12            | 3     |                   |
|                 | 15            | 3     |                   |
| 90              | 18            | 3     |                   |
|                 | 21            | 3     |                   |
|                 | 27 1/2        | 1 1/2 |                   |
|                 | 25            | 2 1/2 |                   |
|                 | 27            | 2     |                   |
| 95              | 30            | 3     |                   |
|                 | 33 1/2        | 3 1/2 |                   |
|                 | 37            | 3 1/2 |                   |
|                 | 40            | 3     |                   |
|                 | 43            | 3     |                   |
| 4400            | 44            | 4     |                   |

RECEIVED  
STATE PROPRATION PERMISSION  
SEP 23 1989  
INSPECTION DIVISION  
Mineral Resources

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH | TIME O'CLOCK | MIN.  | REMARKS    |
|-------|--------------|-------|------------|
| 4400  |              |       |            |
| 01    | 44           | 3 1/2 |            |
|       | 51 1/2       | 4     |            |
|       | 54           | 2 1/2 |            |
|       | 57           | 3     |            |
| 05    | 10:00        | 3     |            |
|       | 02 1/2       | 2 1/2 |            |
|       | 05           | 2 1/2 | CONN. 4407 |
|       | 12 1/2       | 1     |            |
|       | 13 1/2       | 1 1/2 |            |
| 10    | 14           | 1 1/2 |            |
|       | 14 1/2       | 1 1/2 |            |
|       | 15           | 1 1/2 |            |
|       | 15 1/2       | 1 1/2 |            |
|       | 16           | 1 1/2 |            |
| 15    | 17           | 1     |            |
|       | 17 1/2       | 1 1/2 |            |
|       | 19           | 1 1/2 |            |
|       | 23 1/2       | 3 1/2 |            |
|       | 26 1/2       | 3     |            |
| 20    | 29           | 2 1/2 |            |
|       | 32 1/2       | 3 1/2 |            |
|       | 36           | 3 1/2 |            |
|       | 39           | 3     |            |
|       | 42           | 3     |            |
| 25    | 45           | 3     |            |
|       | 48           | 3     |            |
|       | 52           | 4     |            |
|       | 55           | 3     |            |
|       | 58 1/2       | 3 1/2 |            |
| 30    | 11:00        | 3     |            |
|       | 03 1/2       | 3     |            |
|       | 06 1/2       | 3     |            |
|       | 09 1/2       | 3     |            |
|       | 13           | 3 1/2 |            |
| 35    | 15           | 2     |            |
|       | 18           | 3     |            |
|       | 21 1/2       | 3 1/2 |            |
|       | 25           | 3 1/2 |            |
|       | 28           | 3     | CONN. 4439 |
| 40    | 3 1/2        | 2 1/2 |            |
|       | 37 1/2       | 3     |            |
|       | 40 1/2       | 3     |            |
|       | 43 1/2       | 3     |            |
|       | 47 1/2       | 4     |            |
| 45    | 50 1/2       | 3     |            |
|       | 54           | 3 1/2 |            |
|       | 57           | 3     |            |
|       | 12:01        | 4     |            |
|       | 05           | 4     |            |
| 11:15 | 08 1/2       | 3 1/2 | CON. 4407  |

| DEPTH | TIME O'CLOCK | MIN.  | REMARKS           |
|-------|--------------|-------|-------------------|
| 4450  |              |       |                   |
| 51    | 08 1/2       | 3 1/2 |                   |
|       | 16           | 4     |                   |
|       | 20           | 4     |                   |
|       | 23 1/2       | 3 1/2 |                   |
| 55    | 27           | 3 1/2 |                   |
|       | 30 1/2       | 3 1/2 |                   |
|       | 34           | 3 1/2 |                   |
|       | 38           | 4     |                   |
|       | 41 1/2       | 3 1/2 |                   |
| 60    | 44 1/2       | 3     |                   |
|       | 48           | 3 1/2 |                   |
|       | 50 1/2       | 2 1/2 |                   |
|       | 53 1/2       | 3     |                   |
|       | 57           | 3 1/2 |                   |
| 65    | 59           | 2     |                   |
|       | 1:01         | 2     |                   |
|       | 02 1/2       | 1 1/2 |                   |
|       | 05           | 2 1/2 |                   |
|       | 08 1/2       | 3 1/2 |                   |
| 70    | 12           | 3 1/2 | CONN. 4470        |
|       | 15 1/2       | 2 1/2 |                   |
|       | 20           | 2 1/2 |                   |
|       | 23 1/2       | 3 1/2 |                   |
|       | 26           | 2 1/2 |                   |
| 75    | 29           | 3     | RELEASED          |
|       | 31 1/2       | 2 1/2 | OCT 1 1989        |
|       | 33           | 1 1/2 | FROM CONFIDENTIAL |
|       | 34           | 1     |                   |
|       | 35 1/2       | 1 1/2 |                   |
| 80    | 37           | 1 1/2 |                   |
|       | 38 1/2       | 1 1/2 |                   |
|       | 41 1/2       | 3     |                   |
|       | 45           | 3 1/2 |                   |
|       | 48           | 3     |                   |
| 85    | 51 1/2       | 3 1/2 |                   |
|       | 54 1/2       | 3     |                   |
|       | 57           | 2 1/2 |                   |
|       | 59 1/2       | 2 1/2 |                   |
|       | 2:01 1/2     | 2     |                   |
| 90    | 03           | 1 1/2 |                   |
|       | 04           | 1     |                   |
|       | 05           | 1     |                   |
|       | 06           | 1     |                   |
|       | 07           | 1     |                   |
| 95    | 08           | 1     |                   |
|       | 10           | 2     |                   |
|       | 13           | 3     |                   |
|       | 16 1/2       | 3 1/2 |                   |
|       | 19 1/2       | 3     |                   |
| 4500  | 22 1/2       | 3     |                   |

RECEIVED  
 THE CORPORATION COMMISSION  
 SEP 23 1988  
 INVESTIGATION DIVISION  
 Topeka, Kansas



COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_

SEC. TWP. RGE. LOC. COUNTY STATE

CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_

REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH | TIME O'CLOCK | MIN.  | REMARKS          |
|-------|--------------|-------|------------------|
| 4500  | 22 1/2       |       |                  |
| 01    | 26           | 3 1/2 |                  |
|       | 29           | 3     | conn. 4502       |
|       | 33           | 3     |                  |
|       | 36           | 3     |                  |
|       | 39           | 3     |                  |
| 05    | 42           | 3     |                  |
|       | 45           | 3     |                  |
|       | 48           | 3     |                  |
|       | 51           | 3     |                  |
|       | 54 1/2       | 3 1/2 |                  |
| 10    | 57 1/2       | 3     |                  |
|       | 3:00 1/2     | 3     |                  |
|       | 03 1/2       | 3     |                  |
|       | 05           | 1 1/2 |                  |
|       | 06 1/2       | 1     |                  |
| 15    | 07 1/2       | 1     |                  |
|       | 08 1/2       | 1     |                  |
|       | 09 1/2       | 1     |                  |
|       | 11           | 1 1/2 |                  |
|       | 12 1/2       | 1 1/2 |                  |
| 20    | 13 1/2       | 1     |                  |
|       | 14           | 1/2   |                  |
|       | 15           | 1     |                  |
|       | 16 1/2       | 1 1/2 |                  |
|       | 18           | 1 1/2 |                  |
| 25    | 20           | 2     |                  |
|       | 22 1/2       | 2 1/2 | CFS 4526         |
|       | 30           | 32    | 2                |
|       | 34           | 2     |                  |
|       | 35 1/2       | 1 1/2 |                  |
| 30    | 37           | 1 1/2 |                  |
|       | 39 1/2       | 2 1/2 |                  |
|       | 41 1/2       | 2     | formation change |
|       | 44 1/2       | 3     |                  |
|       | 47           | 2 1/2 | conn. 4534       |
| 35    | 53           | 56    | 3                |
|       | 59           | 3     | 4/2 vis          |
|       | 5:02 1/2     | 3 1/2 | 9.14 wt.         |
|       | 06           | 3 1/2 |                  |
|       | 09 1/2       | 3 1/2 |                  |
| 40    | 13           | 3 1/2 |                  |
|       | 16           | 3     |                  |
|       | 19           | 3     |                  |
|       | 22           | 3     |                  |
|       | 25           | 3     |                  |
| 45    | 28           | 3     |                  |
|       | 30           | 2     |                  |
|       | 32           | 2     |                  |
|       | 34 1/2       | 2 1/2 |                  |
|       | 37 1/2       | 3     |                  |
| 4550  | 41           | 3 1/2 |                  |

| DEPTH | TIME O'CLOCK | MIN.   | REMARKS           |
|-------|--------------|--------|-------------------|
| 4550  | 41           |        |                   |
| 51    | 44 1/2       | 3 1/2  |                   |
|       | 47 1/2       | 3      |                   |
|       | 51           | 3 1/2  |                   |
|       | 54           | 3      |                   |
| 55    | 55           | 1      |                   |
|       | 58 1/2       | 3 1/2  |                   |
|       | 6:02         | 3 1/2  |                   |
|       | 05           | 3      |                   |
|       | 08 1/2       | 3 1/2  |                   |
| 60    | 12 1/2       | 4      |                   |
|       | 16           | 3 1/2  |                   |
|       | 18           | 2      |                   |
|       | 21           | 3      |                   |
|       | 24           | 3      | Conn 4564         |
| 65    | 29           | 3      |                   |
|       | 35 1/2       | 3 1/2  |                   |
|       | 39           | 3 1/2  |                   |
|       | 42 1/2       | 3 1/2  |                   |
|       | 46           | 3 1/2  |                   |
| 70    | 49           | 3      | RELEASED          |
|       | 52 1/2       | 3 1/2  |                   |
|       | 55 1/2       | 3      | OCT 1 1989        |
|       | 58           | 2 1/2  | FROM CONFIDENTIAL |
| 75    | 7:00         | 2      |                   |
|       | 02           | 2      |                   |
|       | 04           | 2      |                   |
|       | 05 1/2       | 1 1/2  |                   |
|       | 08           | 2 1/2  |                   |
|       | 10 1/2       | 2 1/2  |                   |
| 80    | 12           | 1 1/2  | 1.3               |
|       | 14           | 2      |                   |
|       | 16           | 2      |                   |
|       | 17 1/2       | 1 1/2  |                   |
|       | 19 1/2       | 2      |                   |
| 85    | 22           | 2 1/2  |                   |
|       | 25           | 3      |                   |
|       | 27 1/2       | 2 1/2  |                   |
|       | 30           | 2 1/2  |                   |
|       | 33           | 3      |                   |
| 90    | 37           | 4      |                   |
|       | 40           | 3      |                   |
|       | 43 1/2       | 3 1/2  |                   |
|       | 47           | 3 1/2  |                   |
|       | 50           | 3      |                   |
| 95    | 52 1/2       | 2 1/2  | Conn 4595         |
|       | 55           | 57 1/2 | 2 1/2             |
|       | 8:00         | 2 1/2  |                   |
|       | 02           | 2      |                   |
|       | 04           | 2      |                   |
| 4:00  | 05 1/2       | 1 1/2  |                   |

RECEIVED  
STATE GEOLOGICAL COMMISSION  
OCT 23 1988

KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

OCT 09 1988



COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE \_\_\_\_\_

| DEPTH           | TIME O'CLOCK      | MIN.             | REMARKS              |
|-----------------|-------------------|------------------|----------------------|
| <del>4600</del> | <del>05 1/2</del> | <del>1 1/2</del> |                      |
|                 | 07                | 1 1/2            |                      |
|                 | 09                | 2                |                      |
|                 | 11                | 2                |                      |
|                 | 14                | 3                |                      |
| 05              | 17 1/2            | 3 1/2            |                      |
|                 | 21                | 3 1/2            |                      |
|                 | 24 1/2            | 3 1/2            |                      |
|                 | 28 1/2            | 4                |                      |
|                 | 32                | 3 1/2            |                      |
| 10              | 35                | 3                |                      |
|                 | 37 1/2            | 2 1/2            |                      |
|                 | 40 1/2            | 3                |                      |
|                 | 44                | 3 1/2            |                      |
|                 | 47                | 3                |                      |
| 15              | 50 1/2            | 3 1/2            |                      |
|                 | 54 1/2            | 4                |                      |
|                 | 58                | 3 1/2            |                      |
|                 | 9:02              | 4                |                      |
|                 | 05 1/2            | 3 1/2            |                      |
| 20              | 09                | 3 1/2            |                      |
|                 | 13 1/2            | 4 1/2            |                      |
|                 | 17 1/2            | 4                |                      |
|                 | 21                | 3 1/2            |                      |
|                 | 25                | 4                |                      |
| 25              | 28 1/2            | 3 1/2            |                      |
|                 | 32                | 3 1/2            |                      |
|                 | 35 1/2            | 3 1/2            | Conn 4627            |
|                 | <del>39 1/2</del> | 3 1/2            | (Correct clock 5min) |
|                 | 43                | 3 1/2            |                      |
| 30              | 47                | 4                |                      |
|                 | 50                | 3                |                      |
|                 | 53 1/2            | 3 1/2            |                      |
|                 | 57                | 3 1/2            |                      |
|                 | 10:01             | 4                |                      |
| 35              | 04 1/2            | 3 1/2            |                      |
|                 | 07 1/2            | 3                |                      |
|                 | 10                | 2 1/2            |                      |
|                 | 14                | 4                |                      |
|                 | 16 1/2            | 2 1/2            |                      |
| 40              | 19                | 2 1/2            |                      |
|                 | 21                | 2                |                      |
|                 | 24                | 3                | 4 1/2 vis 9.1ltwt.   |
|                 | 26 1/2            | 2 1/2            | 11.4wl 10.opH        |
|                 | 29                | 2 1/2            |                      |
| 45              | 32                | 3                |                      |
|                 | 35                | 3                |                      |
|                 | 38 1/2            | 3 1/2            |                      |
|                 | 42                | 3 1/2            |                      |
|                 | 45 1/2            | 3 1/2            |                      |
| 50              | 50                | 4 1/2            |                      |

| DEPTH           | TIME O'CLOCK     | MIN.             | REMARKS           |
|-----------------|------------------|------------------|-------------------|
| <del>4650</del> | <del>10:50</del> | <del>4 1/2</del> |                   |
|                 | 54 1/2           | 4 1/2            |                   |
|                 | 58               | 3 1/2            |                   |
|                 | 11:02            | 4                | VS-42, WT-9.11.   |
|                 | 05 1/2           | 3 1/2            |                   |
| 55              | 08 1/2           | 3                |                   |
|                 | 12 1/2           | 4                |                   |
|                 | 15 1/2           | 3                |                   |
|                 | 19 1/2           | 4                | Conn, 4658        |
|                 | 24 1/2           | 3 1/2            |                   |
| 60              | 30 1/2           | 3                |                   |
|                 | 34 1/2           | 4                |                   |
|                 | 38               | 3 1/2            |                   |
|                 | 41 1/2           | 3 1/2            |                   |
|                 | 45               | 3 1/2            |                   |
| 65              | 49               | 4                |                   |
|                 | 52 1/2           | 3 1/2            |                   |
|                 | 56               | 3 1/2            |                   |
|                 | 59 1/2           | 3 1/2            |                   |
|                 | 12:03 1/2        | 4                |                   |
| 70              | 06 1/2           | 3                |                   |
|                 | 10 1/2           | 4                |                   |
|                 | 14               | 3 1/2            |                   |
|                 | 16               | 2                | RELEASED          |
|                 | 19               | 3                |                   |
| 75              | 23               | 4                | OCT 1 1989        |
|                 | 27               | 4                |                   |
|                 | 29               | 2                | FROM CONFIDENTIAL |
|                 | 32               | 3                |                   |
|                 | 36               | 4                |                   |
| 80              | 39 1/2           | 3 1/2            |                   |
|                 | 42 1/2           | 3                |                   |
|                 | 46 1/2           | 4                |                   |
|                 | 49               | 2 1/2            |                   |
|                 | 51               | 2                |                   |
| 85              | 54 1/2           | 3 1/2            |                   |
|                 | 58               | 3 1/2            |                   |
|                 | 1:02             | 4                |                   |
|                 | 06               | 4                |                   |
|                 | 10 1/2           | 4 1/2            | Conn, 4689        |
| 90              | 13 1/2           | 3 1/2            | VS-41, WT-9.11    |
|                 | 20               | 3 1/2            |                   |
|                 | 23 1/2           | 3 1/2            |                   |
|                 | 27 1/2           | 4                |                   |
|                 | 31 1/2           | 4                |                   |
| 95              | 35               | 3 1/2            |                   |
|                 | 38 1/2           | 3 1/2            |                   |
|                 | 42               | 3 1/2            |                   |
|                 | 45 1/2           | 3 1/2            |                   |
|                 | 49               | 3 1/2            |                   |
| 4700            | 52 1/2           | 3 1/2            |                   |

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 THE COMMISSIONER OF THE MISSOURI DEPARTMENT OF REVENUE  
 SEP 23 1988  
 INSURANCE DIVISION  
 Wichita Kansas

14.5  
13  
14

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE \_\_\_\_\_

| DEPTH           | TIME O'CLOCK        | MIN.             | REMARKS        |
|-----------------|---------------------|------------------|----------------|
| <del>4700</del> | <del>1:52 1/2</del> | <del>3 1/2</del> |                |
|                 | 59 1/2              | 3 1/2            |                |
|                 | 2:03 1/2            | 4                |                |
|                 | 07                  | 3 1/2            |                |
| <del>05</del>   | <del>10 1/2</del>   | <del>3 1/2</del> |                |
|                 | 14 1/2              | 4                |                |
|                 | 18 1/2              | 4                |                |
|                 | 22                  | 3 1/2            | VLS-41, WT-9.1 |
|                 | 26 1/2              | 4 1/2            |                |
| <del>10</del>   | <del>30 1/2</del>   | <del>4</del>     |                |
|                 | 31                  | 3 1/2            |                |
|                 | 37 1/2              | 3 1/2            |                |
|                 | 41                  | 3 1/2            |                |
|                 | 45 1/2              | 4 1/2            |                |
| <del>15</del>   | <del>49 1/2</del>   | <del>4</del>     |                |
|                 | 53                  | 3 1/2            |                |
|                 | 55 1/2              | 2 1/2            |                |
|                 | 57 1/2              | 2                |                |
|                 | 3:00 1/2            | 3                |                |
| <del>20</del>   | <del>04</del>       | <del>3 1/2</del> | conn. 4720     |
|                 | 09 1/2              | 3                |                |
|                 | 15                  | 3                |                |
|                 | 19                  | 4                |                |
|                 | 22 1/2              | 3 1/2            | VLS-45, WT-9.1 |
| <del>25</del>   | <del>26</del>       | <del>3 1/2</del> |                |
|                 | 33                  | 3                |                |
|                 | 33 1/2              | 3 1/2            |                |
|                 | 36 1/2              | 3                |                |
|                 | 39                  | 2 1/2            |                |
| <del>30</del>   | <del>42</del>       | <del>3</del>     |                |
|                 | 45 1/2              | 3 1/2            |                |
|                 | 48 1/2              | 3                |                |
|                 | 52                  | 3 1/2            |                |
|                 | 55 1/2              | 3 1/2            |                |
| <del>35</del>   | <del>59 1/2</del>   | <del>4</del>     |                |
|                 | 4:03 1/2            | 4                |                |
|                 | 08 1/2              | 5                |                |
|                 | 12 1/2              | 4                |                |
|                 | 15 1/2              | 3                |                |
| <del>40</del>   | <del>18 1/2</del>   | <del>3</del>     |                |
|                 | 22 1/2              | 4                |                |
|                 | 27 1/2              | 5                |                |
|                 | 32                  | 4 1/2            |                |
|                 | 36                  | 4                |                |
| <del>45</del>   | <del>40</del>       | <del>4</del>     |                |
|                 | 43                  | 3                |                |
|                 | 45                  | 2                |                |
|                 | 47                  | 2                |                |
|                 | 50 1/2              | 3 1/2            |                |
| <del>50</del>   | <del>54 1/2</del>   | <del>4</del>     |                |

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 STATE CORPORATION COMMISSION  
 SEP 23 1988  
 CONSERVATION DIVISION  
 Wichita, Kansas

| DEPTH           | TIME O'CLOCK        | MIN.             | REMARKS           |
|-----------------|---------------------|------------------|-------------------|
| <del>4750</del> | <del>4:54 1/2</del> | <del>5</del>     | conn. 4751        |
|                 | 59 1/2              | 4 1/2            |                   |
|                 | 03 1/2              | 4                |                   |
|                 | 07 1/2              | 4                |                   |
|                 | 12                  | 4 1/2            |                   |
| <del>55</del>   | <del>16 1/2</del>   | <del>4 1/2</del> |                   |
|                 | 20 1/2              | 4                |                   |
|                 | 24                  | 3 1/2            |                   |
|                 | 28                  | 4                |                   |
|                 | 31                  | 3                |                   |
| <del>60</del>   | <del>34 1/2</del>   | <del>3 1/2</del> |                   |
|                 | 38                  | 3 1/2            |                   |
|                 | 40 1/2              | 2 1/2            |                   |
|                 | 43                  | 2 1/2            |                   |
|                 | 45                  | 2                |                   |
| <del>65</del>   | <del>47 1/2</del>   | <del>2 1/2</del> |                   |
|                 | 50                  | 2 1/2            | VLS-50 WT-9.1#    |
|                 | 53 1/2              | 3 1/2            | WLS-11            |
|                 | 56 1/2              | 3                |                   |
|                 | 6:00                | 3 1/2            |                   |
| <del>70</del>   | <del>03</del>       | <del>3</del>     |                   |
|                 | 05                  | 2                | RELEASED          |
|                 | 07                  | 2                |                   |
|                 | 09                  | 2                | OCT 1 1989        |
|                 | 11                  | 2                |                   |
| <del>75</del>   | <del>14 1/2</del>   | <del>3 1/2</del> | FROM CONFIDENTIAL |
|                 | 17 1/2              | 3                |                   |
|                 | 21                  | 3 1/2            |                   |
|                 | 24                  | 3                |                   |
|                 | 27 1/2              | 3 1/2            |                   |
| <del>80</del>   | <del>31 1/2</del>   | <del>4</del>     |                   |
|                 | 35 1/2              | 4                | conn. 4781        |
|                 | 38 1/2              | 3 1/2            |                   |
|                 | 45                  | 5 1/2            |                   |
|                 | 48                  | 4                |                   |
| <del>85</del>   | <del>53</del>       | <del>4</del>     |                   |
|                 | 57                  | 4                |                   |
|                 | 7:01                | 4                |                   |
|                 | 04                  | 3 1/2            |                   |
|                 | 05                  | 4                |                   |
| <del>90</del>   | <del>12 1/2</del>   | <del>4</del>     |                   |
|                 | 16 1/2              | 4                |                   |
|                 | 20 1/2              | 4                |                   |
|                 | 24                  | 3 1/2            |                   |
|                 | 27                  | 3                |                   |
| <del>95</del>   | <del>28</del>       | <del>1</del>     |                   |
|                 | 31                  | 3                |                   |
|                 | 34                  | 3 1/2            |                   |
|                 | 37                  | 4                |                   |
|                 | 42 1/2              | 4                |                   |
| <del>4800</del> | <del>47</del>       | <del>4 1/2</del> |                   |

COMPANY \_\_\_\_\_ FARM \_\_\_\_\_ WELL NO. \_\_\_\_\_  
 SEC. TWP. RGE. LOC. COUNTY STATE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_ SIZE HOLE \_\_\_\_\_ DRILL PIPE \_\_\_\_\_  
 REMARKS: \_\_\_\_\_ SIZE PUMP LINERS \_\_\_\_\_ LENGTH STROKE \_\_\_\_\_

DATE

| DEPTH           | TIME O'CLOCK               | MIN.             | REMARKS               |
|-----------------|----------------------------|------------------|-----------------------|
| <del>4800</del> | <del>47<sup>10</sup></del> |                  |                       |
|                 | 51 <sup>1/2</sup>          | 4                |                       |
|                 | 55 <sup>1/2</sup>          | 4                |                       |
|                 | 59 <sup>1/2</sup>          | 4                |                       |
|                 | 8:03                       | 3 <sup>1/2</sup> |                       |
| 05              | 06                         | 3                |                       |
|                 | 09 <sup>1/2</sup>          | 3 <sup>1/2</sup> |                       |
|                 | 12 <sup>1/2</sup>          | 3                |                       |
|                 | 14 <sup>1/2</sup>          | 2                |                       |
|                 | 17                         | 2 <sup>1/2</sup> |                       |
| 10              | 20                         | 3                |                       |
|                 | 23                         | 3                |                       |
|                 | 27                         | 4                |                       |
|                 | 31                         | 4                | SHORT TRIP            |
|                 | 05 <sup>03</sup>           | 3                | (15-54 1/2" P. Conn.) |
| 15              | 07 <sup>1/2</sup>          | 2 <sup>1/2</sup> | CONN. 4813            |
|                 | 10                         | 2 <sup>1/2</sup> |                       |
|                 | 13                         | 3                |                       |
|                 | 17                         | 4                |                       |
|                 | 21                         | 4                |                       |
| 20              | 25                         | 4                |                       |
|                 | 29                         | 4                |                       |
|                 | 33 <sup>1/2</sup>          | 4 <sup>1/2</sup> |                       |
|                 | 37 <sup>1/2</sup>          | 4                |                       |
|                 | 41 <sup>1/2</sup>          | 4                |                       |
| 25              | 45 <sup>1/2</sup>          | 4                |                       |
|                 | 49                         | 3 <sup>1/2</sup> |                       |
|                 | 50 <sup>1/2</sup>          | 1 <sup>1/2</sup> |                       |
|                 | 52                         | 1 <sup>1/2</sup> |                       |
|                 | 56                         | 4                |                       |
| 30              | 59                         | 3                |                       |
|                 | 11:22 <sup>1/2</sup>       | 3 <sup>1/2</sup> |                       |
|                 | 05 <sup>1/2</sup>          | 3                |                       |
|                 | 09                         | 3 <sup>1/2</sup> |                       |
|                 | 11                         | 2                |                       |
| 35              | 13                         | 2                |                       |
|                 | 15                         | 2                |                       |
|                 | 17                         | 2                |                       |
|                 | 19 <sup>1/2</sup>          | 2 <sup>1/2</sup> |                       |
|                 | 22 <sup>1/2</sup>          | 3                |                       |
| 40              | 26                         | 3 <sup>1/2</sup> |                       |
|                 | 29 <sup>1/2</sup>          | 3 <sup>1/2</sup> |                       |
|                 | 32 <sup>1/2</sup>          | 3                | CONN. 4842            |
|                 | 36 <sup>1/2</sup>          | 2 <sup>1/2</sup> |                       |
|                 | 44                         | 4 <sup>1/2</sup> |                       |
| 45              | 48                         | 4                |                       |
|                 | 51 <sup>1/2</sup>          | 3 <sup>1/2</sup> |                       |
|                 | 54                         | 2 <sup>1/2</sup> |                       |
|                 | 57                         | 3                |                       |
|                 | 12:00                      | 3                |                       |
| 4850            | 02 <sup>1/2</sup>          | 2 <sup>1/2</sup> |                       |

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 23 1988  
 CONSERVATION DIVISION  
 Wichita, Kansas

| DEPTH           | TIME O'CLOCK                | MIN.             | REMARKS           |
|-----------------|-----------------------------|------------------|-------------------|
| <del>4850</del> | <del>02<sup>1/2</sup></del> |                  |                   |
| 51              | 04                          | 1 <sup>1/2</sup> |                   |
|                 | 06                          | 2                |                   |
|                 | 08                          | 2                |                   |
|                 | 10                          | 2                |                   |
| 55              | 11 <sup>1/2</sup>           | 1 <sup>1/2</sup> |                   |
|                 | 13                          | 1 <sup>1/2</sup> |                   |
|                 | 15                          | 2                |                   |
|                 | 17                          | 2                | CFS               |
|                 | 17 <sup>1/2</sup>           | 2                |                   |
| 60              | 16                          | 2                |                   |
|                 | 17 <sup>1/2</sup>           | 1 <sup>1/2</sup> |                   |
|                 | 19 <sup>1/2</sup>           | 2                |                   |
|                 | 22                          | 2 <sup>1/2</sup> | RELEASED          |
|                 | 23 <sup>1/2</sup>           | 1 <sup>1/2</sup> |                   |
| 65              | 24 <sup>1/2</sup>           | 1                | OCT 1 1989        |
|                 | 25 <sup>1/2</sup>           | 1                | FROM CONFIDENTIAL |
|                 | 26 <sup>1/2</sup>           | 1                |                   |
|                 | 28 <sup>1/2</sup>           | 2                |                   |
|                 | 31                          | 2 <sup>1/2</sup> |                   |
| 70              | 32 <sup>1/2</sup>           | 1 <sup>1/2</sup> |                   |
|                 | 33 <sup>1/2</sup>           | 1                |                   |
|                 | 36 <sup>1/2</sup>           | 3                | CONN. 4872        |
|                 | 41 <sup>1/2</sup>           | 2 <sup>1/2</sup> |                   |
|                 | 46 <sup>1/2</sup>           | 2 <sup>1/2</sup> |                   |
| 75              | 49                          | 2 <sup>1/2</sup> |                   |
|                 | 51                          | 2                |                   |
|                 | 53                          | 2                |                   |
|                 | 56                          | 3                | CFS               |
|                 | 33 <sup>1/2</sup>           | 3                |                   |
| 80              | 38                          | 3                |                   |
|                 | 40 <sup>1/2</sup>           | 2 <sup>1/2</sup> |                   |
|                 | 43 <sup>1/2</sup>           | 3                |                   |
|                 | 46                          | 2 <sup>1/2</sup> |                   |
|                 | 48                          | 2 <sup>1/2</sup> |                   |
| 85              | 50 <sup>1/2</sup>           | 2 <sup>1/2</sup> |                   |
|                 | 53                          | 2 <sup>1/2</sup> |                   |
|                 | 56                          | 3                |                   |
|                 | 57 <sup>1/2</sup>           | 1 <sup>1/2</sup> |                   |
|                 | 59                          | 1 <sup>1/2</sup> | 51 vis 9.1 wt.    |
| 90              | 9:00 <sup>1/2</sup>         | 1 <sup>1/2</sup> |                   |
|                 | 02                          | 1 <sup>1/2</sup> |                   |
|                 | 04                          | 2                |                   |
|                 | 05 <sup>1/2</sup>           | 1 <sup>1/2</sup> |                   |
|                 | 06 <sup>1/2</sup>           | 1                |                   |
| 95              | 07 <sup>1/2</sup>           | 1                |                   |
|                 | 08 <sup>1/2</sup>           | 1                |                   |
|                 | 09 <sup>1/2</sup>           | 1                |                   |
|                 | 11                          | 1 <sup>1/2</sup> |                   |
|                 | 12                          | 1                |                   |
| 100             | 14                          | 2                |                   |



