

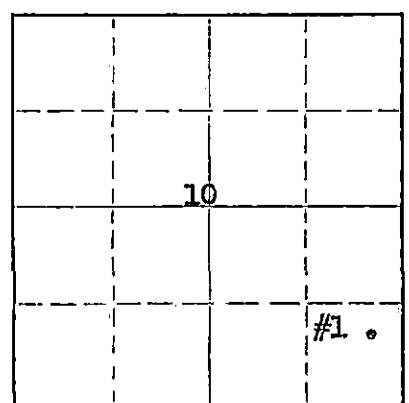
STATE OF KANSAS  
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

Give all Information Completely  
No Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
211 No. Broadway  
Wichita, Kansas

Kingman County. Sec. 10 Twp. 29S Rge. (A) 9 (W)  
Location as "NE/CNW%SW%" or footage from lines NE SE SE  
Lease Owner Magnolia Petroleum Co.  
Lease Name Herman Oeding Well No. 1  
Office Address Box 770, Great Bend, Kansas  
Character of Well (completed as Oil, Gas or Dry Hole) Oil EOR  
Date well completed 7 - 27 1954  
Application for plugging filed 11 - 22 1957  
Application for plugging approved 11 - 25 1957  
Plugging commenced 12 - 12 1957  
Plugging completed 12 - 22 1957  
Reason for abandonment of well or producing formation Not economical to operate

NORTH



Locate well correctly on above  
Section Plat

If a producing well is abandoned, date of last production 19  
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well M. A. Rives, Pratt, Kansas  
Producing formation Miss Depth to top          Bottom          Total Depth of Well 4524 Feet  
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

| FORMATION | CONTENT        | FROM | TO   | SIZE   | PUT IN | PULLED OUT |
|-----------|----------------|------|------|--------|--------|------------|
| Miss      | Oil, gas & wtr | 4211 | 4217 | 9-5/8" | 167    | None       |
|           |                |      |      | 5-1/2" | 1505   | 3200       |
|           |                |      |      |        |        |            |
|           |                |      |      |        |        |            |
|           |                |      |      |        |        |            |
|           |                |      |      |        |        |            |

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from          feet to          feet for each plug set.  
TD 4426'. Set btm plug @ 3650'; 5 sx cmnt to 3610. Ripped 5-1/2" csg @ 3250'. Shot pipe @ 3310', 3254', 3155' & 3060'. Pulled 100 jts 5-1/2" csg, approx 3200'. Set wood & rock plug @ 3650'. PB w/5 sx cmnt fr 3650 to 3610'. Hvy mud fr 3610 to 300'. Wood & rock plug set @ 300'. PB w/20 sx cmnt fr 300 to 250', hvy mud fr 250 to 168'. Set wood & rock plug @ 168' - 20 sx cmnt to 118'. PB w/hvy mud to 30'. Set wood & rock plug @ 30' - 10 sx cmnt to base of cellar. Welded plate on surf csg 3' below ground level. Filled to surf w/dirt.

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12-31-57

Name of Plugging Contractor Wilson, Inc.  
Address Stafford, Kansas  
(If additional description is necessary, use BACK of this sheet)

DEC 31 1957  
CONSERVATION DIVISION  
Wichita, Kansas

STATE OF Kansas, COUNTY OF Barton, ss.  
C. O. Turner (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) C O Turner  
Great Bend, Kansas  
(Address)

SUBSCRIBED AND SWORN TO before me this 30th day of December, 19 57  
Harriett S. Kaiser  
Notary Public.

My commission expires January 14, 1961

Orig: Corp. Comm. ✓  
cc: Wichita  
Rives  
File

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11-51)  
MAGNOLIA PETROLEUM COMPANY  
WELL RECORD

X-1316

Total Depth Drilled 4524<sup>0</sup> (RTD) Permit No. \_\_\_\_\_ Lease Name Herman CEDING  
 Oil String Set @ 4517<sup>0</sup> (5 1/2") Serial No. \_\_\_\_\_ Well No. 1  
 Plug Back Depth None COMPLETED AS: Single Oil Well Field Willowdale  
 Vertical or Directional Hole Vertical TYPE: Pumping District CHASE  
 Parish Kingman State KANSAS State Reg. District GREAT BEND, KANSAS  
 Block Section 10 Lot Township 29S Unit Range 9W Distance From Nearest Town 15 miles fr Kinoman, Kansas  
 Location of Well: NE SE SE; 330<sup>0</sup> FEL & 990<sup>0</sup> FSL of SE/4

| DATE SUMMARY   | Date    | Work Performed By                        | Remarks                                  |
|--|---------|--|--|
| Location Staked  | 7/2/54  | L C Case & Carl Turner - MPCo Civ. Engr. |  |
| * Dig Collar & Pits                                    | 7/3/54  | Harry Bass Drilling Co, Dallas, Texas    |  |
| Commenced Erecting Derrick                             | 7/4/54  | " " " " " "                              |  |
| Completed Erecting Derrick                             | 7/4/54  | " " " " " "                              |  |
| Commenced Rigging Up                                   | 7/3/54  | " " " " " "                              |  |
| Initial Rigging Up Completed                           | 7/4/54  | " " " " " "                              |  |
| Commenced Drilling (Spud Date)                         | 7/4/54  | " " " " " "                              |  |
| Completed Drilling (Total Depth)                       | 7/21/54 | " " " " " "                              |  |
| Moved In Cable Tools                                   | 7/25/54 | Tract Services, Inc., Wichita, Kansas    |  |
| Oil String Casing Set <u>4517<sup>0</sup> (5 1/2")</u> | 7/23/54 | Harry Bass Drilling Co, Dallas, Texas    |  |
| Plug Back (Final)                                      | None    |  |  |
| Perforations (Final) <u>(Open Hole)</u>                | None    |  | <u>4517<sup>0</sup>-4524<sup>0</sup></u> |
| Completed Subsurface Installations (Final)             | 7/31/54 | Under the Supervision of H G             |  |
| Completed Well Head Installations (Final)              | 7/31/54 | Brelaford, MPCo Production Foreman       | <u>9 5/8" OD x 5 1/2" Type</u>           |
| Commenced Bringing in (Final)                          | 8/1/54  | " " " " " "                              | <u>CSHD Don R Hinder-</u>                |
| Well Cleaned (Final)                                   | 8/2/54  | " " " " " "                              | <u>liter Hd w/2 2" Side</u>              |
| Commenced Abandonment                                  |         |  | <u>outlets, 4000# Test</u>               |
| Completed Abandonment*                                 |         | <u>Co Completion Date 7/27/54</u>        | <u>2000# Working Press.</u>              |

\* Insert the first work started, as; Build Road, Build Board Road and Turn around, Dig Canal, Clear and/or Grade Location, Lay fuel and Water Lines, Dig Slush Pit, Build Rig Foundation, or, Install Drilling Foundation.

NO. DAYS WATER USED Furn by Contr. : SOURCE Hauled  
 NO. DAYS FUEL USED " : KIND Butane : SOURCE Hauled  
 Measuring Point Will Be (1711<sup>0</sup> DF) Ground Kelly Bushing Kelly Bushing to Surface Csg.  
 Kelly Drive Bushing. 1712.6<sup>0</sup> Elevation 1702.45 To Gr. Elev. 10.15 Surface Csg. Flg. 12.40 Flange Elev. 1702.20<sup>0</sup>

Transfer No. In: 2059 - 2060 CASING, TUBING, & \* CEMENTING RECORD Transfer No. Out: \_\_\_\_\_

| Size  | Weight | Collars & Threads | Kind | Rge | Jts. | Total Feet Less Threads |        |                   | Total No. Scratchers and Where Placed | Total No. Centralizers and Where Placed                                |
|---|--------|-------------------|------|-----|------|-------------------------|--------|-------------------|---------------------------------------|--|
|   |        |                   |      |     |      | Put In                  | Pulled | Left In           |                                       |  |
| 9 5/8"  | 32.3#  | 8 RT H-40         | ST&C | 2   | 5    | 179 <sup>0</sup>        |        | 179 <sup>0</sup>  | None                                  | None   |
| 5 1/2"  | 15.5#  | 8 RT J-55         | ST&C | 2   | 149  | 4517 <sup>0</sup>       |        | 4517 <sup>0</sup> | None                                  | 3-Baker Model H<br>4287, 4320, 4353<br>4385, 4417, 4450<br>4481 & 4513 |
| 2"  | 4.7#   | 8 RT EUE          | J-55 | 2   | 151  | 4520 <sup>0</sup>       |        | 4520 <sup>0</sup> | None                                  |  |
| 9 5/8" csg set @ 179 <sup>0</sup> w/200 ax count circ. 7/5/54 |        |                   |      |     |      |                         |        |                   |                                       |  |
| 5 1/2" csg set @ 4517 <sup>0</sup> w/250 ax count. 7/23/54    |        |                   |      |     |      |                         |        |                   |                                       |  |

SECTION NO. 1 - PRODUCTION TESTS AND POTENTIAL TEST DATA:

SINGLE OIL WELL & PUMPING: Potential Test dated 8/4/54, pumped 204 BO & 102 BWP on 8 hr. Physical, 16-44" SPM, 1 3/4" pump, 2" tub 3/4" rods corr gravity oil 38.0<sup>0</sup>, prod from open hole 4517<sup>0</sup>-4524<sup>0</sup>, Viola Formation. Allowable 38 BOPD. This well produced natural.

PLUGGING

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\* Following each string of casing, and using the full width of the sheet, give complete cementing record as follows: Where landed, Amount and kind of cement, Amount and kind of Additives, Stages of Cementing, Cement Tops, Slurry weight per Gal. and WOC Hours.

Give the balance of Well Record by Sections, in the order listed below, carefully following instructions in the Field Manual for each section. Use the reverse side of this sheet and subsequent sheets on Form X-6727 As needed.

- |   |  |
|---|--|
| Section 1- Production Tests and Potential Tes. Data | Section 7- Core Record                             |
| Section 2- Formation Summary                        | Section 8- Bit Record                              |
| Section 3- Depth Measurements                       | Section 9- Acidizing or Other Completion Operation |
| Section 4- Drill Stem Tests                         | Section 10- Summary of Operations                  |
| Section 5- Perforating and Squeeze Record           | Section 11- Formation Record                       |
| Section 6- Surveys Performed                        | Section 12- Plugging & Abandonment Record          |

WELL RECORD

WELL NO. 10 T 29 R 9 W - 100' - 100' - 100' - 100' - 100' - 100' - 100' - 100' - 100' - 100'

| FORMATION        | FROM | TO   | CORES | O.S.T. | ELECT LOG | R-N LOG | REMARKS   |
|------------------|------|------|-------|--------|-----------|---------|---|
| Sand & Sand Rock | 0    | 180  |       |        |           |         |   |
| Red Bed & Sand   | 180  | 1112 |       |        |           |         |   |
| Sand Lins & Gyp  | 1112 | 1777 |       |        |           |         |   |
| Lins Gyp & Shale | 1777 | 1924 |       |        |           |         |   |
| Lins Gyp         | 1924 | 2109 |       |        |           |         |   |
| Shale Lins & Gyp | 2109 | 2378 |       |        |           |         |   |
| Shale & Gyp      | 2378 | 2488 |       |        |           |         |   |
| Lins & Gyp       | 2488 | 2652 |       |        |           |         |   |
| Lins & Shale     | 2652 | 3644 |       |        |           |         |   |
| Lins             | 3644 | 4357 |       | #1, #2 |           |         |   |
| Lins & Shale     | 4357 | 4428 |       |        |           |         |   |
| Shale & Lins     | 4428 | 4488 |       |        |           |         |   |
| Lins             | 4488 | 4524 | 1     | #3     | LL & MLL  | GA      | Schlum Laterolog 180-4525<br>* Microlaterolog 3293-4525<br>* Gamma Ray Log 180-4524 |
| TOTAL DEPTH      |      | 4524 |       |        |           |         |   |
| OIL STRING SET @ |      | 4517 |       |        |           |         |   |
| PLUG BACK DEPTH  |      | NONE |       |        |           |         |   |

SECTION NO. 3 - DEPTH MEASUREMENTS:

|                 | Drillers<br>Depth | Steel<br>Line | #R-N LOG<br>*Elec LOG | Kelly Bushing to<br>Flange 12.40' | Surface Flange<br>Depth (*) |
|-----------------|-------------------|---------------|-----------------------|-----------------------------------|-----------------------------|
| Drilling Depth  | 4524              | 4524          | *4526'                |                                   | 4511.60'                    |
| Casing (Surf)   | 179               | 179           |                       |                                   | 166.60'                     |
| Casing (Oil)    | 4517              | 4517          |                       |                                   | 4504.60'                    |
| Total Depth     | 4524              | 4524          | *4526'                |                                   | 4511.60'                    |
| Plug Back Depth | NONE              |               |                       |                                   |                             |
| Perforations    | NONE              |               |                       |                                   |                             |

COLLARS OR RADIUM MARKERS NONE

(\*) Indicate correct measurements from Surface Casing Flange as permanent datum.

Please see Geological Section No. 11 for 2' down hole correction

SECTION NO. 4 - DRILL STEM TESTS: Data taken from Morning Report and Service Co. Reports

| Date    | No. | From | To   | Kind of Test | Tool @ | Chokes |      | Time | Results   |
|---------|-----|------|------|--------------|--------|--------|------|------|---|
|         |     |      |      |              |        | top    | btm  |      |   |
| 7/18/54 | 1   | 4208 | 4220 | Open Hole    | 4208'  | 1/2"   | 1/2" | 1 hr | Op 1 hr, rec 30' Oil & Gas Cut<br>Mud 90' Oil & str Oil Mud, No<br>Pressures, Packer Failed                                     |
| 7/18/54 | 2   | 4221 | 4230 | Open Hole    | 4221'  | 1/2"   | 1/2" | 1 hr | Op 1 hr, rec 270' gas 30' Oil &<br>Gas Cut Mud 105' Salt Water, FF of<br>SIBHP 1300# in 25 mins.                                |
| 7/21/54 | 3   | 4517 | 4524 | Open Hole    | 4517'  | 1"     | 5/8" | 1 hr | Op 1 hr, gas to surf in 20 mins,<br>rec 295' free oil 50' Oil Cut<br>Mud w/trace water, FF 120#-960#<br>SIBHP 1560# in 30 mins. |

SECTION NO. 5 - PERFORATING AND SQUEEZE RECORD:

This well was not perforated nor squeezed but is producing from OPEN HOLE

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SECTION NO. 6 - SURVEYS PERFORMED:

| No. | Kind                        | From  | To    |
|-----|-----------------------------|-------|-------|
| 1   | Schlumberger Laterolog      | 180'  | 4525' |
| 1   | Schlumberger Microlaterolog | 3293' | 4525' |
| 1   | Schlumberger Gamma Ray Log  | 180'  | 4524' |

TOTCO DEVIATION SURVEY

| DEPTH | OFF VERTICAL |
|-------|--------------|
| 500'  | 1/4 Degree   |
| 1000' | 1/2 Degree   |
| 1500' | 3/4 Degree   |
| 2000' | 3/4 Degree   |
| 2500' | 1/4 Degree   |
| 3000' | 1/2 Degree   |
| 3500' | 1/4 Degree   |
| 4000' | 3/4 Degree   |
| 4500' | 1/2 Degree   |

AVERAGE HOLE DIA. 7 7/8"

NO DIRECTIONAL SURVEY - VERTICAL HOLE

SECTION NO. 7 - CORE RECORD: Data taken from Geological Letter & Morning Report

- TOP DOUGLAS Corr. 3396' (-1685') 17' low to Southeast Offset. Some very spotted oil stain 3435'-45', tested for water on offset well, JUDGED NOT WORTH TESTING.
- TOP LANSING Corr. 3574' (-1862') 6' low to offset well. Trace spotted staining in 3730-40' sample - NOT WORTH TESTING. Trace of stain in p.p. por. in 4120-25 Sample - NOT WORTH TESTING.
- TOP MISSISSIPPI Corr. 4209' (-2498') flat with offset well. 4209-22', chert, trip., excellent vulg. & fossiliferous por., sat. str. Tested by D.S.T. #1 - SHOULD BE TESTED FURTHER BEFORE WELL IS PLUGGED.....  
4222-32', chert as above, sat. str, tested mostly water on D.S.T., now worth further testing.
- TOP KINDERHOOK Corr. 4333' (-2622') 6' low to offset
- TOP VIOLA Corr 4618' (-2807') 6' low to offset, cored and tested by D.S.T., now being tested open hole

#1 Core 4518-24' - Rec 6' Cherty dol w/ex vulg & good stain

SECTION NO. 8 - BIT RECORD:

| No. Used | Size    | Kind             | From  | To    |
|----------|---------|------------------|-------|-------|
| 1        | 13 3/4" | Rockbit          | 0     | 180'  |
| 14       | 7 7/8"  | "                | 180'  | 4524' |
| 1        | 6 1/8"  | Diamond Core Bit | 4518' | 4524' |

SECTION NO. 9 - ACIDIZING OR OTHER COMPLETION OPERATION: NONE - Well produced Natural

SECTION NO. 10 - SUMMARY OF OPERATIONS:

(1) Drilling and Exploratory Operations Performed:

- 7/4/54 Spudded
- 7/5/54 Set 9 5/8" csg @ 179' w/200 sx cnt. circ. W.O.C.
- 7/18/54 D.S.T. #1 & D.S.T. #2
- 7/21/54 Core #1, D.S.T. #3 and ran Schlumberger Logs
- 7/22/54 Ran Schlumberger Logs
- 7/23/54 Set 5 1/2" csg @ 4517' w/250 sx cnt. W.O.C.

(2) Completion Operations Performed:

- 7/25/54 Moved in & rigged up Cable Tools
- 7/26/54 Bailed hole 4457' & drilled cnt to 4503'
- 7/27/54 Drilled cnt to 4524', ran 2" tub - prepare to sub well in
- 7/28/54 SWbd thru 2" tub 163 BO & 65 ELW in 13 hrs, commenced flowing, flowed 28 BO 4 1/2 hrs.
- 7/29/54 Fl 5 hrs thru 2" tub 48 BNO, SI&TDCT, Fl 13 hrs thru 3/4" Ck 68 BNO & 4 ELW, TP 20#
- 7/30/54 Well died, swbd 94 BNO & 25 BSW in 7 hrs.
- 7/31/54 SWbd 53 BO & 17 BW in 6 hrs, ran rods and PCP, Pap 135 BO & 42 BW in 11 hrs
- 8/1/54 Pap 169 BO & 57 BW in 24 hrs
- 8/2/54 Pap 140 BO & 53 BW in 24 hrs - Shut in for State Pot.
- 8/4/54 Pap 204 BO & 102 BW in 24 hrs, 16-44" SPM, 38.0° Gravity Corrected

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MAGNOLIA PETROLEUM COMPANY  
WELL RECORD

Magnolia Petroleum Company  
SUPPLEMENT TO WELL RECORD

DATE October 9, 1957

|                      |  |                          |   |
|----------------------|--|--------------------------|---|
| X-5070<br>LEASE      | WELL NO.<br><u>1</u>   | DISTRICT<br><u>Chase</u> | <input type="checkbox"/> WORK OVER<br><input type="checkbox"/> CLEAN OUT<br><input type="checkbox"/> RECOMPLETION<br><input type="checkbox"/> MULTIPLE COMPLETION<br><input type="checkbox"/> DRILL DEEPER<br><input checked="" type="checkbox"/> PLUG BACK<br><input type="checkbox"/> ABANDONMENT |
| <u>Herman Oeding</u> | REASON FOR WORK<br><u>To plug back from Viola to the Mississippi and perf 4211-4217'</u><br><u>in an attempt to increase oil production.</u> |                          |   |

|  |                                      |   |                                      |
|--|--------------------------------------|---|--------------------------------------|
| APPROPRIATION NO.<br><u>None</u>   | AMOUNT REQUESTED<br><u>\$ 4,400.</u> | APPROXIMATE EXPENDITURE<br><u>\$ 4,400.</u> | ESTIMATED MONTHS TO PAY OUT          |
| WORK PERFORMED BY<br><u>Pratt Well Service, Halliburton &amp; P.G.A.C.</u> |                                      | DATE WORK COMMENCED<br><u>1-11-57</u>       | DATE COMPLETED<br><u>See Summary</u> |

PRODUCTION BEFORE  
Was being used as temp salt wtr disp well for Herman Oeding #2

POTENTIAL TEST AFTER  
None - See Summary

|  |   |                                      |
|--|---|--------------------------------------|
| PREVIOUS T. D.<br><u>4524</u>                            | P.B.T.D.<br><u>None</u>                       | MEASURING POINT<br><u>1711' - DF</u> |
| PRESENT T. D.<br><u>4524</u>                             | P.B.T.D.<br><u>4426'</u>                      | MEASURING POINT<br><u>1711' - DF</u> |
| PREVIOUS PRODUCING DEPTH(S)<br><u>Open hole 4517-24'</u> | PRESENT PRODUCING DEPTH(S)<br><u>4211-17'</u> |                                      |
| CHANGE(S) IN CASING RECORD<br><u>None</u>                |   |                                      |

SUMMARY OF OPERATIONS  
Pulled 2" tbg. Ran 2" tbg w/Halliburton DC Retainer. Set cement retainer @ 4426'. Sq  
op hole 4217-24' w/50 ex. Max press 3500#. Rev out 15 ex. Pulled 2" tbg. Bailed hole  
dry. Test dry 2 hrs. Ran G/R Log. Perf 4211-17' w/24 ballats (1/2"). Tested 1 hr w/  
bailer - 5 gals wtr + show of oil. Good show of gas. SI 12 hrs. Bailed 3 gals oil + 30  
gals mdy wtr w/good show of gas in 1 hr. Ran 2" tbg to 4208'. Acid perms 4211-17' w/250  
gals MCA thru 2" tbg. Max press 900#, min 850#, final 850#. Rate 1/4 BPM 5 min SI 500#.  
Viscfrac perms 4211-17' w/5000# sd + 5000 gals lse oil thru 5-1/2" csg. Break w/oil @  
2150#. Rate 18 BPM - 25 bbls. Max press 2100#, min 2050#, rate 18 BPM. Over finish w/50 BO,  
5 min SI 700#, total load 375 bbls + 6 BAW. Swbd 20 BLO + NW 1 hr. Fl 155 BLO + 75 BSW in  
15 hrs. 20/64" choke, GV 1020 MCFPD, TP 390#, CP 1100#, Fl 5 more days, last day no test.  
TP Off, CP 1200#, Ran rods & POP. Pmpd 5 BLO + 20 BSW 6 hrs. No gas. CP 200#, TP Off (-94 BLO)  
 (Over)

USE REVERSE SIDE IF ADDITIONAL SPACE IS NEEDED

Orig: Dist  
 of: WBP MUCB  
 EID File

Pmpd 19 BLO + 170 BW - 24 hrs (-75 BLO). GV 734 MCF; CP 150# 14 x 54 x 1-1/4" pmp.  
 Pmpd 11 BLO + 200 BW - 24 hrs (-64 BLO) GV 877 MCF, CP 120# on 1-16-57 and has been SI  
 since that date. On 10-3-57 this office sent request to P & A to Company.

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MAGNOLIA PETROLEUM COMPANY  
WELL RECORD

SECTION NO. 11 - FORMATION RECORD: Data taken from Geological Record

| FORMATION          | DEPTH       | SUB-SEA | SOURCE      |
|--------------------|-------------|---------|-------------|
| Douglas            | 3390' Corr. | -1679'  | Samples CAM |
| Lansing            | 3574'       | -1862'  | "           |
| Mississippi        | 4209'       | -2498'  | "           |
| Kinderhook         | 4333'       | -2622'  | "           |
| Viola              | 4518'       | -2807'  | "           |
| Rotary Total Depth | 4526'       |         |             |

2' down hole correction

| FORMATION   | DEPTH | SUB-SEA | SOURCE       |
|-------------|-------|---------|--------------|
| Douglas     | 3396' | -1685'  | Schlumberger |
| Lansing     | 3574' | -1862'  | "            |
| Mississippi | 4209' | -2498'  | "            |
| Kinderhook  | 4333' | -2622'  | "            |
| Viola       | 4519' | -2808'  |              |

SECTION NO. 12 - PLUGGING AND ABANDONMENT RECORD:

WORK-OVER COMMENCED: September 16, 1954 - Tompkins Drilling Co.,  
 WORK-OVER COMPLETED: October 4, 1954 - Great Bend, Kansas  
 PURPOSE OF WORK-OVER: To squeeze off excessive formation water in Viola Zone, drill out cement and recomplete in the Viola Zone.  
 HISTORY OF WORK-OVER: Moved in cable tools and rigged up; pulled rods & tub; cleaned out to bottom @ 4524'; squeezed open hole 4517-4524' w/100 sx DOC cmnt, 6200#, thru 2" tub w/retainer set @ 4502', returned 77 sx & pulled 2" tub, W.O.C. drilled retainer and cmnt to 4524'; bailed 3/4 BSWPH off bottom for 11 hrs; ran 2" tub w/retainer @ 4500' and squeezed open hole 4517-4524' w/50 sx DOC cmnt, 5600#, returned 5 sx & pulled 2" tub, W.O.C. drilled retainer & cmnt to 4518', tested NS; bailed fluid level to 2500', ran bail test, no fill up; drilled cmnt to 4520'; bailed 15 gal oil per hr for 3 hrs, NW; bailed to 1700' off bottom; no change, bailed 19 gal oil & 5 gal water per hr off bottom; bailed hole to 1000' off bottom, test off bottom 3 hrs 15 gal oil per hr - NW; swbd to 500' off bottom; test w/bailer on bottom 15 gal oil per hr w/trace of water; water broke in, fill up to 1200' off bottom; test w/swb 5 hrs 800' off bottom 1/2 BO & 4 1/2 BWPB; ran 2" tub w/retainer @ 4492'; squeezed open hole 4517-4520' w/50 sx DOC cmnt, 4100#, 43 sx out, pulled 2" tub, W.O.C.; drilled retainer and cmnt to 4519', cmnt got hard; bailed hole to 1400' off bottom; bailed hole to bottom; tested w/bailer 2 gal oil per hr for 6 hrs, NW; shot open hole 4517-19' w/3 1 1/8" holes; test w/bailer 4 gal oil per hr for 3 hrs NW; bailed 2 gal oil per hr for 3 hrs; drilled from 4519-4520' (PB) bailed for 3 hrs 2 gal oil per hr; shot open hole 4517 to 4520' w/6 1 1/8" holes; bailed 3 hrs 2 gal oil per hr, NW; ran 1 bbl acid thru csg; bailed 2 gal oil per hr for 8 hrs; acidized thru 2" tub w/packer @ 4486' w/250 gal open hole 4517-20', 1200#-4000# average 2000#; swbd 19 BLO & 4 BAW in 9 hrs; swbd 14 gal new oil & 14 gal acid water per hr for 4 hrs; pulled 2" tub; test w/bailer 15 gal oil & 2 gal acid water per hr for 2 hrs; acidized open hole 4517-20' thru 2" tub w/packer @ 4486' w/500 gal acid 1600-1800# zero in 5 min after pump shut down; swbd thru 2" tub 25 gal Load Oil & 12 gal Acid Water per hr; swbd 14 BO & 108 BW in 8 hr; 2000' fluid in hole, pulled 2" tub & packer, ran 2" tub & rods and put on pump. (PBD 4520') PROD BEFORE 70BO & 70 BSWPD PROD AFTER 54 BO & 246 BSWPD

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SUPERVISED BY: H. G. Brelsford, MPCo Production Foreman