

|                        |  |
|------------------------|--|
| NO. OF COPIES RECEIVED |  |
| DISTRIBUTION           |  |
| SANTA FE               |  |
| FILE                   |  |
| U.S.G.S.               |  |
| LAND OFFICE            |  |
| OPERATOR               |  |

Form C-105  
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease  
State  Fee

5. State Oil & Gas Lease No.  
E-9089

1a. TYPE OF WELL  
OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. TYPE OF COMPLETION  
NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESVR.  OTHER \_\_\_\_\_

2. Name of Operator  
Humble Oil & Refining Company

7. Unit Agreement Name  
---

8. Farm or Lease Name  
New Mexico State BW

3. Address of Operator  
P. O. Box 2100, Hobbs, New Mexico 88240

9. Well No.  
4

10. Field and Pool, or Wildcat  
Tobac Pennsylvanian

4. Location of Well  
UNIT LETTER J LOCATED 1988 FEET FROM THE South LINE AND 1997 FEET FROM

THE East LINE OF SEC. 16 TWP. 8-S RGE. 33-E NMPM

12. County  
Chaves

15. Date Spudded 2-14-65 16. Date T.D. Reached 3-15-65 17. Date Compl. (Ready to Prod.) Dry Hole

18. Elevations (DF, RKB, RT, GR, etc.) 4398 D. F. 19. Elev. Casinghead ---

20. Total Depth 9100 21. Plug Back T.D. Surface 22. If Multiple Compl., How Many No

23. Intervals Drilled By Rotary Tools 0-9100 Cable Tools ---

24. Producing Interval(s), of this completion - Top, Bottom, Name  
---

25. Was Directional Survey Made No

26. Type Electric and Other Logs Run  
Gamma-Ray, Sonic

27. Was Well Cored No

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|----------------|-----------|-----------|------------------|---------------|
| 10-3/4"     | 32.75          | 391       | 15"       | 375 Sxs.         | ---           |
| 7-5/8"      | 24             | 3612      | 9-7/8"    | 500 Sxs.         | ---           |
| 4-1/2"      | 9.5 & 11.6     | 9100      | 6-3/4"    | 300 Sxs.         | 6280          |

29. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|------|-----|--------|--------------|--------|
| ---  | --- | ---    | ---          | ---    |

30. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|------|-----------|------------|
| ---  | ---       | ---        |

31. Perforation Record (Interval, size and number)  
8983-8985, 8989, 8990 with one radioactive jet shot per depth, selective fired. 8983-8985, 8989, 8990 with one radioactive jet shot per depth, selective fired. 8983-8985, 8989, 8990 with one radioactive jet shot per depth, selective fired.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED  
8983-8990 | Spotted 250 gals. acetic acid over: Had trouble with acid job, reversed out acetic acid. 8983-8990 | Spotted 250 gals. Reg. 15% Inhibited acid over perf.; Had trouble with acid job, reversed out inhibited acid.

33. Date First Production --- Production Method (Flowing, gas lift, pumping - Size and type pump) Dry Hole Well Status (Prod. or Shut-in) ---

Date of Test --- Hours Tested --- Choke Size --- Prod'n. For Test Period --- Oil - Bbl. --- Gas - MCF --- Water - Bbl. --- Gas-Oil Ratio ---

Flow Tubing Press. --- Casing Pressure --- Calculated 24-Hour Rate --- Oil - Bbl. --- Gas - MCF --- Water - Bbl. --- Oil Gravity - API (Corr.) ---

34. Disposition of Gas (Sold, used for fuel, vented, etc.) --- Test Witnessed By ---

35. List of Attachments  
See One Supplemental sheet.

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Dist. Adm. Supvr. DATE June 25, 1965

### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

#### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

##### Southeastern New Mexico

##### Northwestern New Mexico

|                                      |                        |                             |                        |
|--------------------------------------|------------------------|-----------------------------|------------------------|
| T. Anhy _____                        | T. Canyon _____        | T. Ojo Alamo _____          | T. Penn. "B" _____     |
| T. Salt _____                        | T. Strawn _____        | T. Kirtland-Fruitland _____ | T. Penn. "C" _____     |
| <del>XXXXXX</del> Rustler 1848 _____ | T. Atoka _____         | T. Pictured Cliffs _____    | T. Penn. "D" _____     |
| T. Yates _____ 2364                  | T. Miss _____          | T. Cliff House _____        | T. Leadville _____     |
| T. 7 Rivers _____                    | T. Devonian _____      | T. Menefee _____            | T. Madison _____       |
| T. Queen _____ 3041                  | T. Silurian _____      | T. Point Lookout _____      | T. Elbert _____        |
| T. Grayburg _____                    | T. Montoya _____       | T. Mancos _____             | T. McCracken _____     |
| T. San Andres _____ 3549             | T. Simpson _____       | T. Gallup _____             | T. Ignacio Qtzte _____ |
| T. Glorieta _____ 4946               | T. McKee _____         | Base Greenhorn _____        | T. Granite _____       |
| T. Paddock _____                     | T. Ellenburger _____   | T. Dakota _____             | T. _____               |
| T. Blinebry _____                    | T. Gr. Wash _____      | T. Morrison _____           | T. _____               |
| T. Tubb _____ 6419                   | T. Granite _____       | T. Todilto _____            | T. _____               |
| T. Drinkard _____                    | T. Delaware Sand _____ | T. Entrada _____            | T. _____               |
| T. Abo _____ 7310                    | T. Bone Springs _____  | T. Wingate _____            | T. _____               |
| T. Wolfcamp _____                    | T. _____               | T. Chinle _____             | T. _____               |
| <del>XXXXXX</del> Hueco 8123 _____   | T. _____               | T. Permian _____            | T. _____               |
| T. Cisco (Bough C) _____ 8971        | T. _____               | T. Penn. "A" _____          | T. _____               |

#### FORMATION RECORD (Attach additional sheets if necessary)

| From | To   | Thickness in Feet | Formation          | From | To | Thickness in Feet | Formation |
|------|------|-------------------|--------------------|------|----|-------------------|-----------|
| 0    | 1800 | 1800              | Red Bed            |      |    |                   |           |
| 1800 | 2340 | 540               | Anhydrite and Salt |      |    |                   |           |
| 2340 | 3588 | 1248              | Anhydrite          |      |    |                   |           |
| 3588 | 7297 | 3709              | Lime               |      |    |                   |           |
| 7297 | 7391 | 94                | Lime and Shale     |      |    |                   |           |
| 7391 | 7720 | 329               | Shale              |      |    |                   |           |
| 7720 | 9100 | 1380              | Lime               |      |    |                   |           |
|      | T.D. |                   |                    |      |    |                   |           |

SUPPLEMENTAL WELL INFORMATION

NAME OF WELL AND NUMBER New Mexico State BW, Well No. 4

POOL COMPLETED IN Dry Hole

PERFORATED INTERVAL ---

STIMULATIONS: 8983-8990, acidized w/250 gals. 15% Inhibited acid over perf. 8983-8990, acidized w/250 gals. Reg. 15% Inhibited acid over perf. 8983-8990, squeezed with 75 sxs. incor. neat cement. 8983-8990, spotted 250 gals. Reg. 15% Inhibited acid over perf., had trouble with acid job, reversed out inhibited acid. 8983-8990, spotted 250 gals. Reg. 15% Inhibited acid over perf.; had trouble with acid job reversed out Inhibited acid. 8983-8990, spotted 250 gals. Reg. 15% Inhibited acid; had trouble with acid job, reversed out acid. 8983-8990, acidized w/250 gals. Reg. 15% Inhibited acid. 8983-8990, acidized with 3000 gals. N. E. acid. 8983-8990, acidized with 5000 gals. Dowell retarded acid.

POTENTIAL TEST

| DATE | CHOKE SIZE | HOURS TESTED | BBLs/DAY |     | % OF ES&W | GAS MCF /DAY | GOR | TEG PR OR S P M     |  |  | CORRECTED GRAVITY |
|------|------------|--------------|----------|-----|-----------|--------------|-----|---------------------|--|--|-------------------|
|      |            |              | FLUID    | OIL |           |              |     | CSG PR OR L. STROKE |  |  |                   |
|      | None       | taken        |          |     |           |              |     |                     |  |  |                   |

DRILL STEM TESTS

| NO. | RESERVOIR  | INTERVAL TESTED |    | PRESSURES |          |        | RECOVERY - FEET | RUN BY |
|-----|------------|-----------------|----|-----------|----------|--------|-----------------|--------|
|     |            | FROM            | TO | I. SI.    | F. FLOW. | F. SI. |                 |        |
|     | None taken |                 |    |           |          |        |                 |        |
|     |            |                 |    |           |          |        |                 |        |
|     |            |                 |    |           |          |        |                 |        |
|     |            |                 |    |           |          |        |                 |        |
|     |            |                 |    |           |          |        |                 |        |

CORES: None

LOGS: Gamma Ray - PGAC - from 9100 to surface on 3-15-65.  
Sonic - PGAC - from 9100 to 3612 on 3-15-65.

UNSUCCESSFUL COMPLETION ATTEMPTS: FROM --- TO ---  
(SEE DAILY DRILLERS REPORTS FOR SQUEEZES OR BRIDGES.)

Remarks: Plugs set as follows: Plug #1 from 9100 to 8990 with 20 sxs. cmt., Plug #2 from 6300 to 6200 with 20 sxs. cement, plug #3 from 4946 to 4846 with 25 sxs., Plug #4 from 3660 to 3560 with 25 sxs. cement and Plug #5 from 40 to surface with 10 sxs. cement.

Mud laden fluid between plugs. Dry hole marker installed per NMOCC requirement.

# HUMBLE OIL & REFINING COMPANY

Hobbs, New Mexico  
March 30, 1965

Listed below are the Deviation Tests taken on New Mexico State "BW",  
Well No. 4

| <u>DEPTH</u> | <u>DEGREES OF DEVIATION</u> |
|--------------|-----------------------------|
| 1600         | 3/4                         |
| 2020         | 1/2                         |
| 2600         | 1/4                         |
| 3390         | 1-1/4                       |
| 3600         | 1                           |
| 4130         | 1                           |
| 4400         | 3/4                         |
| 4700         | 1/2                         |
| 5030         | 1                           |
| 5870         | 1                           |
| 5900         | 1/2                         |
| 6160         | 1                           |
| 6360         | 1                           |
| 6580         | 1-1/2                       |
| 6800         | 1                           |
| 7050         | 1                           |
| 7200         | 3/4                         |
| 7380         | 1                           |
| 7700         | 1                           |
| 8020         | 1/4                         |
| 8120         | 1/2                         |
| 8200         | 1/2                         |
| 8280         | 3/4                         |
| 8460         | 1                           |
| 8550         | 1-1/4                       |
| 8670         | 1                           |
| 8800         | 1                           |
| 8980         | 1/4                         |
| 9100         | 1/2                         |

HUMBLE OIL & REFINING COMPANY

BY *E. Harris*  
District Adm. Supvr.

SWORN TO and subscribed before me this 30th day of March, 1965

ANITA KAY FARGIER

*Anita Kay Fargier (Chandler)*  
Notary Public  
Lea County, New Mexico

MY COMMISSION EXPIRES JANUARY 20, 1967