

submit to Appropriate District Office  
State Lease - 6 copies  
Lease - 5 copies  
District I  
625 N. French, Hobbs, NM 88240  
District II  
11 South First, Artesia, NM 87210  
District III  
000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-105  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

WELL API NO.  
**30-015-32530**

5. Indicate Type Of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
**E-07437 0002**

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

a. 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  
**Marathon Oil Company**

3. Address of Operator  
**P.O. Box 552 Midland, TX 79702**

4. Well Location

7. Lease Name or Unit Agreement Name  
**Indian Hills Unit**

8. Well No.  
**50**

9. Pool name or Wildcat  
**Indian Basin Upper Perm Associated**

Unit Letter **K** : **1821** Feet From The **South** Line and **2092** Feet From The **West** Line

Section **16** Township **21-S** Range **24-E** NMPM **Eddy** County

|                                                                                                  |                                         |                                                    |                                                                    |                                                          |
|--------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|
| 10. Date Spudded<br><b>1/22/03</b>                                                               | 11. Date T.D. Reached<br><b>2/20/03</b> | 12. Date Compl. (Ready to Prod.)<br><b>3/11/03</b> | 13. Elevations (DF & RKB, RT, GR, etc.)<br><b>4135 KB; 4118 GL</b> | 14. Elev. Casinghead                                     |
| 15. Total Depth<br><b>8700' (8526 TVD)</b>                                                       | 16. Plug Back T.D.<br><b>8677'</b>      | 17. If Multiple Compl. How Many Zones?             | 18. Intervals Drilled By<br><b>All</b>                             | Rotary Tools<br><b>All</b>                               |
| 19. Producing Interval(s), of this completion - Top, Bottom, Name<br><b>7950-8354 Upper Perm</b> |                                         |                                                    |                                                                    | 20. Was Directional Survey Made<br><b>yes - attached</b> |
| 21. Type Electric and Other Logs Run<br><b>Dual Spaced Spectral Neutron Gamma Ray</b>            |                                         |                                                    |                                                                    | 22. Was Well Cored<br><b>No</b>                          |

| 23. CASING RECORD (Report all strings set in well) |                |           |           |                           |               |
|----------------------------------------------------|----------------|-----------|-----------|---------------------------|---------------|
| CASING SIZE                                        | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD          | AMOUNT PULLED |
| 9-5/8"                                             | 36#, J-55      | 1815'     | 12-1/4"   | 1025 <b>sx</b> to surface |               |
| 7"                                                 | 23 & 26#, K-55 | 8700'     | 8-3/4"    | 1245 <b>sx</b>            |               |
|                                                    |                |           |           |                           |               |
|                                                    |                |           |           |                           |               |
|                                                    |                |           |           |                           |               |

| 24. LINER RECORD |     |        |              |        | 25. TUBING RECORD |           |            |
|------------------|-----|--------|--------------|--------|-------------------|-----------|------------|
| SIZE             | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE              | DEPTH SET | PACKER SET |
|                  |     |        |              |        | 3-1/2"            | 8627'     |            |
|                  |     |        |              |        |                   |           |            |

|                                                                                                                                                                                                                 |                                                 |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|
| 26. Perforation record (interval, size, and number)<br><br>7950-7970, 8004-8024, 8034-8054, 8064-8074, 8102-8108, 8152-8172, 8194-8214, 8222-8242, 8258-8278, 8290-8300, 8304-8324, 8334-8354, 2 jsp, 544 holes | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. |                               |
|                                                                                                                                                                                                                 | DEPTH INTERVAL                                  | AMOUNT AND KIND MATERIAL USED |
|                                                                                                                                                                                                                 | 7950-8354                                       | 17000 gals 17% OCA            |
|                                                                                                                                                                                                                 |                                                 |                               |

28. PRODUCTION

|                                         |                                                                                        |                                                    |                        |                          |                         |                             |                                |
|-----------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------|------------------------|--------------------------|-------------------------|-----------------------------|--------------------------------|
| Date First Production<br><b>3/13/03</b> | Production Method (Flowing, gas lift, pumping - Size and type pump)<br><b>SUB PUMP</b> | Well Status (Prod. or Shut-in)<br><b>Producing</b> |                        |                          |                         |                             |                                |
| Date of Test<br><b>3/13/03</b>          | Hours Tested<br><b>24</b>                                                              | Choke Size                                         | Prod'n For Test Period | Oil - Bbl.<br><b>188</b> | Gas - MCF<br><b>975</b> | Water - Bbl.<br><b>1858</b> | Gas - Oil Ratio<br><b>5186</b> |
| Flow Tubing Press.<br><b>250</b>        | Casing Pressure<br><b>200</b>                                                          | Calculated 24-Hour Rate                            | Oil - Bbl.             | Gas - MCF                | Water - Bbl.            | Oil Gravity - API -(Corr.)  |                                |

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
**Sold**

Test Witnessed By

30. List Attachments  
**Logs for Vertical hole & sidetrack, Inclination survey, & Deviation Survey**

31. 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

Signature *Ginny Larke* Printed Name **Ginny Larke** Title **Engineer Technician** Date **4/2/03**

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division 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 25 through 29 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

## Northeastern New Mexico

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| T. Anhy _____                         | T. Canyon _____ <b>8144' /7992'</b> |
| T. Salt _____                         | T. Strawn _____                     |
| B. Salt _____                         | T. Atoka _____                      |
| T. Yates _____                        | T. Miss _____                       |
| T. 7 Rivers _____                     | T. Devonian _____                   |
| T. Queen _____ <b>431'</b>            | T. Silurian _____                   |
| T. Grayburg _____                     | T. Montoya _____                    |
| T. San Andres _____ <b>1184'</b>      | T. Simpson _____                    |
| T. Glorieta _____ <b>2840'</b>        | T. McKee _____                      |
| T. Paddock <b>6740'nd/6644'tvd</b>    | T. Ellenburger _____                |
| T. Blinebry _____                     | T. Gr. Wash _____                   |
| T. Tubb _____                         | T. Delaware Sand _____              |
| T. Drinkard _____                     | T. Bone Springs _____               |
| T. Abo _____ <b>7155'nd/7041'tvd</b>  | T. _____                            |
| T. Wolfcamp _____ <b>7168' /7054'</b> | T. _____                            |
| T. Penn _____ <b>7930' /7786'</b>     | T. _____                            |
| T. Cisco (Bough C) <b>7930/7786</b>   | T. _____                            |

|                             |                        |
|-----------------------------|------------------------|
| T. Ojo Alamo _____          | T. Penn. "B" _____     |
| T. Kirtland-Fruitland _____ | T. Penn. "C" _____     |
| T. Pictured Cliffs _____    | T. Penn. "D" _____     |
| T. Cliff House _____        | T. Leadville _____     |
| T. Menefee _____            | T. Madison _____       |
| T. Point Lookout _____      | T. Elbert _____        |
| T. Mancos _____             | T. McCracken _____     |
| T. Gallup _____             | T. Ignacio Otzte _____ |
| Base Greenhorn _____        | T. Granite _____       |
| T. Dakota _____             | T. _____               |
| T. Morrison _____           | T. _____               |
| T. Todilto _____            | T. _____               |
| T. Entrada _____            | T. _____               |
| T. Wingate _____            | T. _____               |
| T. Chinle _____             | T. _____               |
| T. Permian _____            | T. _____               |
| T. Penn "A" _____           | T. _____               |

## OIL OR GAS SANDS OR ZONES

No. 1, from 7930 to 8500  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from ----- to -----  
No. 4, from ----- to -----

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ----- to ----- feet -----  
 No. 2, from ----- to ----- feet -----  
 No. 3, from ----- to ----- feet -----

## LITHOLOGY RECORD ( Attach additional sheet if necessary)

| From | To   | Thickness<br>in Feet | Lithology                     | From | To | Thickness<br>in Feet | Lithology |
|------|------|----------------------|-------------------------------|------|----|----------------------|-----------|
| 6000 | 6600 | 600                  | Limestone                     |      |    |                      |           |
| 6600 | 7100 | 500                  | Interbedded lime & sandstone  |      |    |                      |           |
| 7100 | 7500 | 400                  | Shale                         |      |    |                      |           |
| 7500 | 7860 | 360                  | Interbedded limestone & shale |      |    |                      |           |
| 7860 | 8200 | 340                  | Dolomite                      |      |    |                      |           |
| 8200 | 8540 | 340                  | Interbedded Dolomite & shale  |      |    |                      |           |

Well Name and Number: Indian Hills #50

Location: Sec. 16,T 21S,R 24E, Eddy County

Operator: Marathon

Drilling Contractor: McVay Drilling Company



The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

| <u>Degrees @ Depth</u> |      | <u>Degrees @ Depth</u> |      | <u>Degrees @ Depth</u> |      |
|------------------------|------|------------------------|------|------------------------|------|
| 1 3/4                  | 235  | 1 1/2                  | 7149 | 15 1/2                 | 6211 |
| 1 1/2                  | 482  | 1 1/2                  | 7466 | 15 1/2                 | 6464 |
| 1/2                    | 987  | 1 1/4                  | 7958 | 16 1/4                 | 6656 |
| 1/2                    | 1425 | 1 3/4                  | 8540 | 16                     | 6846 |
| 3/4                    | 1776 | 1                      | 3744 | 16 3/4                 | 7037 |
| 3/4                    | 1999 | 5                      | 3841 | 15 1/4                 | 7228 |
| 1/2                    | 2251 | 5 1/4                  | 3872 | 15 1/2                 | 7322 |
| 1                      | 2564 | 5 3/4                  | 3935 | 17 1/4                 | 7545 |
| 3/4                    | 2913 | 9 1/4                  | 4154 | 16 3/4                 | 7734 |
| 1/2                    | 3324 | 12 1/2                 | 4312 | 15 1/2                 | 7862 |
| 3/4                    | 3798 | 14 3/4                 | 4440 | 15 3/4                 | 7924 |
| 1/2                    | 4272 | 15 3/4                 | 4755 | 16 1/2                 | 8241 |
| 1                      | 4777 | 16 1/4                 | 4945 | 16 1/4                 | 8367 |
| 2 3/4                  | 5278 | 15 3/4                 | 5069 | 15 1/2                 | 8492 |
| 3                      | 5405 | 16                     | 5196 | 15 1/4                 | 8555 |
| 2 1/4                  | 5689 | 16 1/2                 | 5387 | 14 1/2                 | 8697 |
| 1 3/4                  | 5942 | 15                     | 5545 |                        |      |
| 2                      | 6227 | 17 1/4                 | 5640 |                        |      |
| 1 1/4                  | 6737 | 15 1/4                 | 5957 |                        |      |

Drilling Contractor: McVay Drilling Company

By: Jan Hays

Subscribed and sworn to before me this 25th day of February, 2003

Tina Aleman  
Notary Public

My Commission Expires: 8-16-05

Lea County, New Mexico