

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

LEASE DESIGNATION AND SERIAL NO.

NO-G-0651-1134

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Huerfanito Unit

8. FARM OR LEASE NAME, WELL NO.

Huerfanito Unit 78M

9. API WELL NO.

30-045-28971

10. FIELD AND POOL, OR WILDCAT

Blanco MV/Basin Dk

11. SEC. T., R., M., OR BLOCK AND SURVEY  
ON AREA

Sec 36, T-27-N, R-9-W

NMPM

12. COUNTY OR  
PARISH

San Juan

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. CENVR. ☐ Other ☐

070 FARMINGTON, NM

2. NAME OF OPERATOR

Meridian Oil Inc.

3. ADDRESS AND TELEPHONE NO.

PO Box 4289, Farmington, NM 87499 505-326-9700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

1545'FSL, 1270'FEL

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

OIL CON. DIV. FEB 1 0 1994

15. DATE STUDIED 07-09-93 16. DATE T.D. REACHED 07-21-93 17. DATE COMPL. (Ready to DIST. 3) 09-06-93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6161'GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6676' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL. HOW MANY\* 2 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* Mesa Verde 4294-4617 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

1EL, CDL/CNL, ML

27. WAS WELL CORED

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

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 8 5/8"            | 24.0#           | 216'           | 12 1/4"   | 189 cl.ft.                      |               |
| 4 1/2"            | 11.6#           | 6676'          | 7 7/8"    | 2119 cl.ft.                     |               |
|                   |                 |                |           |                                 |               |
|                   |                 |                |           |                                 |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2 3/8" | 6506'          |                 |

31. PERFORATION RECORD (Interval, size and number)

4294-4617 w/0.28" holes 1 spf 34 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 4294-4617'          | 141,800#sand;                    |
| 1300'               | 520 cu.ft. cmt squeeze           |
| 650'                | 641 cu.ft. cmt squeeze           |

33. PRODUCTION

|                                   |                                                                                                                          |                                               |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| DATE FIRST PRODUCTION<br>09-06-93 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>flowing, capable of commercial hydrocarbon prod. | WELL STATUS (Producing or shut-in)<br>shut in |
| DATE OF TEST<br>01-11-94          | HOURS TESTED<br>3 hrs                                                                                                    | CHOKED SIZE<br>3/4"                           |
| FLOW. TUBING PRESS.<br>780        | CASING PRESSURE<br>1201                                                                                                  | CALCULATED 24-HOUR RATE<br>1598               |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

to be sold

TEST WITNESSED BY

K. Culbertson

ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS

temp. survey

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data. Regulatory Representative

SIGNED

TITLE

FARMINGTON DISTRICT OFFICE

\*(See Instructions and Spaces for Additional Data on Reverse Side)

GEORGE C. MARRERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP         |                  |
|-----------|-----|--------|-----------------------------|------|-------------|------------------|
|           |     |        |                             |      | MEAS. DEPTH | TRUE VERT. DEPTH |
|           |     |        |                             |      |             |                  |

White, cr-gr ss.

100% sh. interbedded w/taught, gry, lime. 3.85.

only very coarse, coal, grn silts, fine  
coal grs. tight, fine gr ss.

lin. 617, line 40n, right ss.

White, waxy chalky bentonite

gray fn. gm silty, glauconitic sd stone  
w/drk gray shale

ss. - Giv. fine-grn. dense sil ss.

Mid-dark env fine arts carb sh & (2001)

Med-light gry, very fine gr ss w/frequent  
breaks in lower part of formation

1111

id. gray to brown calc carb micac glauc

[illegible][illegible]

Lt to dk gry foss carb sl calc sl silty

Important: Ben and I are the legal top of Mesa Verde in New Mexico (North of the Chacra line)

(October 1990)

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BUREAU OF LAND MANAGEMENT

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(See other In-  
structions on  
reverse side)

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API WELL NO.

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Blanco MV/Basin Dk

SEC. T. R. M. OR BLOCK AND SURVEY  
OR AREA

Sec 36, T-27-N, R-9-W  
NMPM

COUNTY OR  
PARISH

San Juan

STATE

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVER. ☐ Other ☐

3. NAME OF OPERATOR

Meridian Oil Inc.

4. ADDRESS AND TELEPHONE NO.

PO Box 4289, Farmington, NM 87499 505-326-9700

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

1545' FSL, 1270' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 07-09-93 16. DATE T.D. REACHED 07-21-93 17. DATE COMPL. (Ready to prod.) 09-06-93 18. ELEVATIONS (D.P., RKB, RT, GR, ETC.)\* 6161' GR 19. ELEV. CASING HEAD

20. TOTAL DEPTH, MD & TVD 6676' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 2 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 25. WAS DIRECTIONAL SURVEY MADE

Dakota 6378-6625

26. TYPES ELECTRIC AND OTHER LOGS RUN

IEL, CDL/CNL, ML

27. WAS WELL CORED

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

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 8 5/8"            | 24.0#           | 216'           | 12 1/4"   | 189 cu.ft.                      |               |
| 4 1/2"            | 11.6#           | 6676'          | 7 7/8"    | 2119 cu.ft.                     |               |
|                   |                 |                |           |                                 |               |
|                   |                 |                |           |                                 |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2 3/8" | 6506'          |                 |
|      |          |             |               |             |        |                |                 |
|      |          |             |               |             |        |                |                 |

31. PERFORATION RECORD (Interval, size and number)

6378-6575 w/1 spf 0.28" holes 22 holes  
6617-6625' w/2 spf 0.45" holes 16 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 6378-6575'          | 105,000# sand; foam and gel      |
| 6617-6625'          | 40400# sand; 12,906 gal fluid    |
| 1300'               | 520 cu.ft. cement squeeze        |
| 650'                | 641 cu.ft. cement squeeze        |

33. PRODUCTION

DATE FIRST PRODUCTION 09-06-93 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing, capable of commercial hydrocarbon prod. WELL STATUS (Producing or shut-in) shut in

DATE OF TEST 01-11-94 HOURS TESTED 3 hrs CHOKER SIZE 3/4" PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF 1279 WATER—BBL. GAS-OIL RATIO

FLOW, TUBING INCHES. 780 CARING PRESSURE 1201 CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF 1598 WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Hold, used for fuel, vented, etc.)

to be sold

TEST WITNESSED BY

K. Culbertson

35. LIST OF ATTACHMENTS

temp. survey

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data. ACCEPTED FOR RECORD 01-28-94

SIGNED

TITLE

DATE

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP         |                  |
|-----------|-----|--------|-----------------------------|------|-------------|------------------|
|           |     |        |                             |      | MEAS. DEPTH | TRUE VERT. DEPTH |

Cojo Alamo 1125' 1275' White, cr-gr ss.

Chaco 1292' 1300' Gry sh interbedded w/tight, gry, fine gr ss.

Frontier 1302' 1300' Dk gry-gr carb sh, coal, grn silts, tight med gry, tight, fine gr ss.

Fractured Chills 1997' 2164' Bn Gry, fine grn, tight ss.

Bluefanite Bentonite 2164' 2893' White, waxy chalky bentonite

Chacra 2893' 3580' Gry fn grn silty, glauconitic sd stone w/drk gry shale ss. Gry, fine-grn, dense sil ss.

Cliff House 3580' 3660' Med dark gry, fine gr ss, carb sh & coal

Cliff House 3660' 4115' Med light gry, very fine gr ss w/frequent sh breaks in lower part of formation

Mancoes 4115' 4145' Dark gry carb sh.

Gallup 4145' 4273' Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh.

Greenhorn 4273' 4325' Highly calc gry sh w/thin lmst.

Granetown 4325' 4425' Dk gry shale, fossil & carb w/pyrite incl.

Dakota 4425' 4425' Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay & shale breaks

\*Bluefanite Bentonite is the legal top of Mesa Verde in New Mexico (North of the Chacra line)