

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Dept.

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO.  
30-015-31477

5. Indicate Type of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
V-5009

7. Lease Name or Unit Agreement Name  
HIGH NITRO STATE COM

8. Well No.

9. Pool name or Wildcat  
*South Empire Morrow*

**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 RESVR ☐ OTHER ☒

2. Name of Operator  
MURCHISON OIL & GAS, INC.

3. Address of Operator  
1100 MIRA VISTA BLVD.

4. Well Location  
Unit Letter D : 660 Feet From The NORTH Line and 660 Feet From The WEST Line  
Section 12 Township 17S Range 28E NMPM EDDY County

10. Date Spudded 12/29/00  
11. Date T.D. Reached 1/24/01  
12. Date Compl. (Ready to Prod.) 3/5/01  
13. Elevations (DF & RKB, RT, GR, etc.) GL 3608 KDB 3630  
14. Elev. Casinghead 3608

15. Total Depth 10308  
16. Plug Back T.D. 10260  
17. If Multiple Compl. How Many Zones?  
18. Intervals Drilled By Rotary Tools Cable Tools  
X

19. Producing Interval(s), of this completion - Top, Bottom, Name  
10048 10158 MORROW  
20. Was Directional Survey Made  
NO

21. Type Electric and Other Logs Run  
COMPENSATED NEUTRON DENSITY, LATERLOG MICRO CFL GR  
22. Was Well Cored  
NO

**23. CASING RECORD (Report all strings set in well)**

| CASING SIZE | WEIGHT LB/FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|---------------|-----------|-----------|------------------|---------------|
| 13-3/8      | 68            | 403       | 17-1/2    | 355 SXS          |               |
| 9-5/8       | 40 & 36       | 2395      | 12-1/4    | 900 SXS          |               |
| 5-1/2       | 20            | 10305     | 8-3/4     | 1510 SXS         |               |
|             |               |           |           |                  |               |
|             |               |           |           |                  |               |

| 24. LINER RECORD |     |        |              |        | 25. TUBING RECORD |           |            |
|------------------|-----|--------|--------------|--------|-------------------|-----------|------------|
| SIZE             | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE              | DEPTH SET | PACKER SET |
|                  |     |        |              |        | 2-3/8             | 9943      | 9943       |
|                  |     |        |              |        |                   |           |            |

26. Perforation record (interval, size, and number)  
10048-52 4' 16 HOLES 10155-58 3' 12 HOLES  
10118-26 8' 32 HOLES  
10130-34 4' 16 HOLES

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.  
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED  
10048-10158 2500 GAL 7 1/2% MORROW ACID  
10048-10158 20000# 20/40 ECONO PROP W/  
60 TONS CO<sub>2</sub>, 12 MCF N<sub>2</sub>, 180  
BBL GEL w/ 30% METHANOL

**28. PRODUCTION**

Date First Production 3/15/01  
Production Method (Flowing, gas lift, pumping - Size and type pump) FLOWING  
Well Status (Prod. or Shut-in) SHUT-IN

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|--------------|--------------|------------|------------------------|------------|-----------|--------------|-----------------|
| 3/4/01       | 12 HRS       | 3/4"       |                        | 1          | 325       | 1            | 325             |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - (Corr.) |
|--------------------|-----------------|-------------------------|------------|-----------|--------------|-----------------------------|
| 45 PSI             | 0               |                         | 2          | 650       | 2            | 56                          |

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
FLARED  
Test Witnessed By  
TOMMY FOLSOM

30. List Attachments  
COMPENSATED NEUTRON DENSITY, LATERLOG MICRO CFL GR

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 *Michael S. Daugherty* Printed Name MICHAEL S. DAUGHERTY Title V P OPERATIONS Date 3/13/01

# INSTRUCTION

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

|                               |                        |
|-------------------------------|------------------------|
| T. Anhy _____                 | T. Canyon _____ 8586   |
| T. Salt _____                 | T. Strawn _____ 9252   |
| B. Salt _____                 | T. Atoka _____ 9708    |
| T. Yates _____                | T. Miss LIME 10174     |
| T. 7 Rivers _____             | T. Devonian _____      |
| T. Queen _____ 1415           | T. Silurian _____      |
| T. Grayburg _____ 1660        | T. Montoya _____       |
| T. San Andres _____ 2210      | T. Simpson _____       |
| T. Glorieta _____ 3580        | T. McKee _____         |
| T. Paddock _____              | T. Ellenburger _____   |
| T. Blinbry _____              | T. Gr. Wash _____      |
| T. Tubb _____                 | T. Delaware Sand _____ |
| T. Drinkard _____             | T. Bone Springs _____  |
| T. Abo _____ 5656             | T. _____               |
| T. Wolfcamp _____ 6869        | T. _____               |
| T. Penn _____                 | T. _____               |
| T. Cisco (Bough C) _____ 7998 | T. _____               |

### Northwestern New Mexico

|                             |                        |
|-----------------------------|------------------------|
| 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 _____ 10048 _____ to _____ 10158 _____ | No. 3, from _____ to _____ |
| No. 2, 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 |
|-------|-------|----------------------|--------------------|------|----|----------------------|-----------|
| 2210  | 3580  | 1370                 | DOLOMITE           |      |    |                      |           |
| 3580  | 3766  | 186                  | DOLOMITE & SAND    |      |    |                      |           |
| 3766  | 4966  | 1200                 | DOLOMITE           |      |    |                      |           |
| 4966  | 5093  | 127                  | DOLOMITE & SAND    |      |    |                      |           |
| 5093  | 5656  | 563                  | DOLOMITE           |      |    |                      |           |
| 5656  | 6869  | 1213                 | DOLOMITE & SHALE   |      |    |                      |           |
| 6869  | 10046 | 3177                 | LIME & SHALE       |      |    |                      |           |
| 10046 | 10174 | 128                  | LIME, SAND & SHALE |      |    |                      |           |
| 10174 | 10308 | 134                  | LIME & SHALE       |      |    |                      |           |