

Submit to Appropriate  
District Office  
State Lease - 5 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 Department

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

Form C-105  
Revised 1-1-89

MAR 15 '90

WELL API NO.

30-005-62751

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

LG 5246

7. Lease Name or Unit Agreement Name

Pathfinder AFT State

8. Well No.

6

9. Pool name or Wildcat

Undes. Siluro-Ordovician

Diablo Fusselman

WELL COMPLETION OR RECOMPLETION REPORT AND LOG D.

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

YATES PETROLEUM CORPORATION (505) 748-1471

3. Address of Operator

105 South 4th St., Artesia, NM 88210

4. Well Location

Unit Letter F : 1980 Feet From The North Line and 1980

Feet From The West Line

Section 21

Township 10S

Range 27E

NMPM

Chaves

County

10. Date Spudded  
12-26-89

11. Date T.D. Reached  
1-17-90

12. Date Compl. (Ready to Prod.)  
3-5-90

13. Elevations (DF & RKB, RT, GR, etc.)  
3852.5' GR

14. Elev. Casinghead

15. Total Depth  
6900'

16. Plug Back T.D.  
6857'

17. If Multiple Compl. How  
Many Zones?

18. Intervals  
Drilled By

Rotary Tools  
X

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name  
6407' Siluro-Ordovician

20. Was Directional Survey Made  
No

21. Type Electric and Other Logs Run  
CNL/FDC; DLL; LSS

22. Was Well Cored  
No

CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB/FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|---------------|-----------|-----------|------------------|---------------|
| 8-5/8"      | 24#           | 1430'     | 12 1/4"   | 700 sx           |               |
| 5 1/2"      | 15.5 & 17#    | 6900'     | 7-7/8"    | 785 sx           |               |
|             |               |           |           |                  |               |
|             |               |           |           |                  |               |
|             |               |           |           |                  |               |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE   | DEPTH SET | PACKER SET |
|------|-----|--------|--------------|--------|--------|-----------|------------|
|      |     |        |              |        | 2-7/8" | 6329'     | 6329'      |
|      |     |        |              |        |        |           |            |
|      |     |        |              |        |        |           |            |

26. Perforation record (interval, size, and number)

6407' - 3 Sand Jet Holes

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

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED  
6407' w/500g. 15% acid.

PRODUCTION

|                                      |                                                                                |                             |                           |                   |                          |                                             |                            |
|--------------------------------------|--------------------------------------------------------------------------------|-----------------------------|---------------------------|-------------------|--------------------------|---------------------------------------------|----------------------------|
| 28. Date First Production<br>1-26-90 | Production Method (Flowing, gas lift, pumping - Size and type pump)<br>Flowing |                             |                           |                   |                          | Well Status (Prod. or Shut-in)<br>Producing |                            |
| Date of Test<br>3-5-90               | Hours Tested<br>1                                                              | Choke Size<br>16/64"        | Prod'n For<br>Test Period | Oil - Bbl.<br>7   | Gas - MCF<br>104         | Water - Bbl.<br>No Gauge                    | Gas - Oil Ratio<br>14857/1 |
| Flow Tubing Press.<br>1700           | Casing Pressure<br>Pkr                                                         | Calculated 24-<br>Hour Rate | Oil - Bbl.<br>168         | Gas - MCF<br>2500 | Water - Bbl.<br>No Gauge | Oil Gravity - API - (Corr.)<br>40° (est)    |                            |

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

Sold - connected to pipeline 3-9-90.

Test Witnessed By  
Paul Hanes

30. List Attachments

DST's, Deviation Survey, Logs

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 *Juanita Goodlett*

Printed  
Name

Juanita Goodlett

Title Production Supv. Date 3-12-90

# 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

T. Anhy \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 T. Yates \_\_\_\_\_  
 T. 7 Rivers \_\_\_\_\_  
 T. Queen \_\_\_\_\_  
 T. Grayburg \_\_\_\_\_  
 T. San Andres 1436  
 T. Glorieta 2618  
 T. Paddock YESO 2700  
 T. Blinebry \_\_\_\_\_  
 T. Tubb \_\_\_\_\_  
 T. Drinkard \_\_\_\_\_  
 T. Abo 4890  
 T. Wolfcamp 5568  
 T. Penn Clastic 6238  
 T. Cisco (Bough C) 6110

T. Canyon \_\_\_\_\_  
 T. Strawn \_\_\_\_\_  
 T. Atoka \_\_\_\_\_  
 T. Miss 6287  
 T. Devonian \_\_\_\_\_  
 T. Silurian \_\_\_\_\_  
 T. Montoya \_\_\_\_\_  
 T. Simpson \_\_\_\_\_  
 T. McKee \_\_\_\_\_  
 T. Ellenburger \_\_\_\_\_  
 T. Gr. Wash \_\_\_\_\_  
 T. Delaware Sand \_\_\_\_\_  
 T. Bone Springs \_\_\_\_\_  
 T. Siluro-Ordovician-6375  
 T. Precambrian -6870  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_

### Northwestern New Mexico

T. Ojo Alamo \_\_\_\_\_  
 T. Kirtland-Fruitland \_\_\_\_\_  
 T. Pictured Cliffs \_\_\_\_\_  
 T. Cliff House \_\_\_\_\_  
 T. Menefee \_\_\_\_\_  
 T. Point Lookout \_\_\_\_\_  
 T. Mancos \_\_\_\_\_  
 T. Gallup \_\_\_\_\_  
 Base Greenhorn \_\_\_\_\_  
 T. Dakota \_\_\_\_\_  
 T. Morrison \_\_\_\_\_  
 T. Todilto \_\_\_\_\_  
 T. Entrada \_\_\_\_\_  
 T. Wingate \_\_\_\_\_  
 T. Chinle \_\_\_\_\_  
 T. Permian \_\_\_\_\_  
 T. Penn "A" \_\_\_\_\_

T. Penn. "B" \_\_\_\_\_  
 T. Penn. "C" \_\_\_\_\_  
 T. Penn. "D" \_\_\_\_\_  
 T. Leadville \_\_\_\_\_  
 T. Madison \_\_\_\_\_  
 T. Elbert \_\_\_\_\_  
 T. McCracken \_\_\_\_\_  
 T. Ignacio Otzte \_\_\_\_\_  
 T. Granite \_\_\_\_\_  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_  
 T. \_\_\_\_\_

### OIL OR GAS SANDS OR ZONES

No. 1, from \_\_\_\_\_ to \_\_\_\_\_  
 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              |
|------|------|----------------------|--------------------------|------|------|----------------------|------------------------|
| 0    | 725  | 725                  | Surface, Redbeds         | 4890 | 5410 | 520                  | Sh, Anhy               |
| 725  | 1220 | 495                  | Redbeds, Anhy            | 5410 | 5670 | 260                  | Sh, Dolo               |
| 1220 | 1430 | 210                  | Lm, Dolo                 | 5670 | 5900 | 230                  | LS                     |
| 1430 | 1540 | 110                  | Anhy, Dolo, Sh           | 5900 | 6240 | 340                  | LS, Sh                 |
| 1540 | 1950 | 410                  | Anhy, Dolo               | 6240 | 6380 | 140                  | LS, Sh, Cht, Dolo      |
| 1950 | 1990 | 40                   | Anhy, Dolo, Sd           | 6380 | 6870 | 490                  | Dolo, cht              |
| 1990 | 2140 | 150                  | Dolo                     | 6870 | 6900 | 30                   | Dolo, Cht, Granite, SS |
| 2140 | 2520 | 380                  | Dolo, Lm                 |      |      |                      |                        |
| 2520 | 2620 | 100                  | Dolo, Anhy               |      |      |                      |                        |
| 2620 | 3134 | 514                  | Sd, Anhy, Dolo, Sh       |      |      |                      |                        |
| 3134 | 3440 | 306                  | Salt, Anhy, Dolo, Sh, Sd |      |      |                      |                        |
| 3440 | 3540 | 100                  | Dolo, Anhy               |      |      |                      |                        |
| 3540 | 3600 | 60                   | Salt, Anhy               |      |      |                      |                        |
| 3600 | 3690 | 90                   | Anhy, dolo               |      |      |                      |                        |
| 3690 | 3770 | 80                   | Salt, Dolo, Anhy         |      |      |                      |                        |
| 3770 | 4150 | 380                  | Dolo, Anhy               |      |      |                      |                        |
| 4150 | 4600 | 450                  | Dolo, Anhy, Sd           |      |      |                      |                        |
| 4600 | 4890 | 290                  | Anhy, Dolo               |      |      |                      |                        |

# ARTESIA FISHING TOOL COMPANY

P. O. BOX ~~84~~ PHONE (505) 746-6651  
470

ARTESIA, NEW MEXICO 88210

RECEIVED

MAR 15 '90

ARTESIA, NM  
88210

January 24, 1990

Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210

Re: Pathfinder AFT State #6  
1980' FNL & 1980' FWL  
Sec. 21, T10S, R27E  
Chaves County, New Mexico

Gentlemen:

The following is a Deviation Survey for the above captioned well.

| DEPTH | DEVIATION |
|-------|-----------|
| 499'  | 1/4°      |
| 898'  | 1/2°      |
| 1430' | 1/4°      |
| 1922' | 2°        |
| 2415' | 1 1/4°    |
| 2940' | 1°        |
| 3440' | 2°        |
| 3968' | 1 1/4°    |
| 4465' | 1 3/4°    |
| 5295' | 3°        |
| 5646' | 2 1/2°    |
| 6171' | 1 3/4°    |
| 6440' | 1 1/2°    |
| 6900' | 1 1/2°    |

Very truly yours,

  
B. N. Muncy Jr.  
Secretary

STATE OF NEW MEXICO §  
COUNTY OF EDDY §

The foregoing was acknowledged before me this 24th day of January, 1990.

  
NOTARY PUBLIC



MARTIN YATES, III  
1912 - 1985  
FRANK W. YATES  
1936 - 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

RECEIVED  
MAR 15 1985  
S. P. YATES  
CHAIRMAN OF THE BOARD  
JOHN A. YATES  
PRESIDENT  
PEYTON YATES  
EXECUTIVE VICE PRESIDENT  
RANDY G. PATTERSON  
SECRETARY  
DENNIS G. KINSEY  
TREASURER  
A. C.  
ARTESIA, N.M.

DRILL STEM TESTS

Pathfinder AFT State #6, LG 5246  
1980' FNL & FWL, Sec. 21-10S-27E  
Chaves County, NM

DST #1 6360-6440' (80'): TIMES - 30-60-60-180-60. RECOVERY: 60' oil and gas cut drilling mud, 90' mud cut oil and 1641' oil. SAMPLER: 2.9 cfg, 350 cc oil, pressure 500 psi, BHT 125°. PRESSURES: Depth: 6433. IHP 3449, IFP (30"), 125-213, ISIP (60") 2199, 2nd FP (60") 338-412, FSIP (180"), 2199, FFP (60") 525-650, FHP 3439.

DST #2 6452-6467' (15'): TIMES - 30-60-60-180-60. RECOVERY: 560' oil, 116' heavy oil and gas cut mud. SAMPLER: .90 cfg, 530 cc oil and pressure 190. BHT 126°, PRESSURES: Depth: 6463. IHP 3508, IHP (30") plugging, ISIP (60") 2480, 2nd FP (60") 144-173, FSIP (180") 2499, FFP (60") 2326, FHP 3527