



Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

July 20, 1998

Mr. Dave Talbott
Apache Corporation
2000 Post Oak Blvd, Ste 100
Houston, TX 77056

RE: Inclination Report
NEDU #231
Sec 2; T-21-S; R-37-E

Unit M
3800/S & 1200/W
30-025-34411

Gentlemen:

The following is an inclination survey on the above referenced well located in Lea County, New Mexico:

| | |
|--------------|--------------|
| 205' - 0.50 | 3131' - 0.50 |
| 632' - 0.50 | 3594' - 0.75 |
| 998' - 0.50 | 4185' - 1.00 |
| 1402' - 0.75 | 4679' - 1.00 |
| 1700' - 1.00 | 5176' - 0.75 |
| 1979' - 0.75 | 5675' - 1.00 |
| 2289' - 0.75 | 6176' - 0.75 |
| 2540' - 1.25 | 6661' - 0.75 |
| 2820' - 0.50 | 6940' - 0.75 |

Sincerely,

Rebecca Edwards

Rebecca A. Edwards
Administrative Assistant

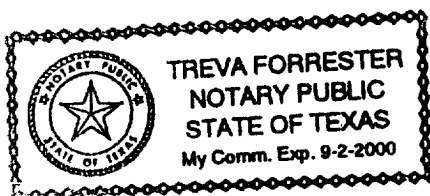
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 20th day of July, 1998 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

Treva Forrester

NOTARY PUBLIC



Submit to Appropriate
District Office
State Lease-6 copies
Fee Lease-5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

WELL API NO.

30-025-34411

5. Indicate Type of Lease

☒ STATE

☐ FEE

6. State Oil & Gas Lease No.

22503

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

☒ OIL WELL

☐ GAS WELL

☐ DRY

☐ OTHER

b. Type of Completion:

☒ New Well

☐ Workover

☐ Deepen

☐ Plug Back

☐ Diff. Resvr.

☐ Other

7. Lease Name or Unit Agreement Name

Northeast Drinkard Unit

2. Name of Operator

Apache Corporation

8. Well No.

231

3. Address of Operator

2000 Post Oak Blvd., Ste. 100, Houston, Texas 77056-4400

9. Pool name or Wildcat

Eunice N. Blinebry-Tubb-Drinkard

4. Well Location

Unit Letter Lot 13 : 3800 Feet From The South Line and 1200 Feet From The West Line
Section 2 Township 21S Range 37E NMPM Lea County

10. Date Spudded
6/29/98

11. Date T.D. Reached
7/11/98

12. Date Compl. (Ready to Prod.)
8/12/98

13. Elevations (DF & RKB, RT, GR, etc.)
3484' GR

14. Elev. Casinghead

15. Total Depth
6940

16. Plug Back T.D.
6847

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

Blinebry 5746 - 5966

Drinkard 6718 - 6798

20. Was Directional Survey Made

NO

21. Type Electric and Other Logs Run

GR-CNL / CBL

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# | 1382 | 11" | 410 sx / Circ 125 sx | |
| 5-1/2" | 17# | 6940 | 7-7/8" | 1450 sx / Circ 146 sx | |
| | | | | | |
| | | | | | |
| | | | | | |

24. LINER RECORD

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

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|--------|-----------|------------|
| 2-7/8" | 6810 | |
| | | |
| | | |

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

Blinebry 5746-66, 70-86, 5830-46, 50-60, 94-5916, 40-66

4" - 220 holes

Drinkard 6718-23, 36-40, 50-58, 68-82, 86-98

4" - 86 holes

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

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|----------------|--|
| 5746 - 5860 | Frac w/10000 gals gel/30100# 16/30 sand |
| 5894 - 5966 | Acidize w / 2500 gals 15% HCL |
| | Frac w/ 10000 gals gel/30120# 16/30 sand |
| 6718 - 6798 | Acidize w / 2500 gals 15% HCL |
| | Frac w/19400 gals gel/35000# 16/30 sand |

PRODUCTION

| | | | | | | | | |
|-----------------------|-----------------|---|------------------------|------------|--------------|-----------------------------|--------------------------------|--|
| Date First Production | | Production Method (Flowing, gas lift, pumping - Size and type pump) | | | | | Well Status (Prod. or Shut-in) | |
| 8/13/98 | | Pumping - 1.5" Rod Insert | | | | | Producing | |
| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio | |
| 8/26/98 | 24 | | | 37 | 24 | 270 | 649 | |
| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - (Corr.) | | |
| | | | | | | 37.4 | | |

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

Sold

Test Witnessed By

Apache Corporation

30. List Attachments

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

Debra J. Anderson

Printed
Name

Debra J. Anderson

Title

Engineering Tech.

Date 10/6/98

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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☒ STATE

☐ FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

NE Drinkard Unit

1. Type of Well:

☒ OIL WELL

☐ GAS WELL

☐ OTHER

2. Name of Operator

APACHE CORPORATION

3. Address of Operator

2000 POST OAK BLVD., SUITE 100, HOUSTON, TX 77056-4400

8. Well No.

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9. Pool name or Wildcat

Eunice N. (BTD)

4. Well Location

Unit Letter Lot 13 : 3800' Feet From The South Line and 1200' Feet From The West Line
Section 2 Township 21S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3484' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

☐ Perform Remedial Work

☐ Plug and Abandon

☐ Temporarily Abandon

☐ Change Plans

☐ Pull or Alter Casing

☐ Other

☐ Remedial Work

☐ Altering Casing

☒ Commence Drilling Operations

☐ Plug and Abandonment

☐ Casing Test and Cement Job

☒ Other-Surf. & Prod. Csg.

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)
SEE RULE 1103.

6/29/98 MIRU. Spud well @ 6:00 p.m.'

6/30/98 Drld. 11" hole to 1382'. Ran 32 jts. 8-5/8" 24#, J-55 csg. Cmt'd w/ 410 sxs PBCZ. Circ. 125 sxs to pit.

7/12/98 Drld. 7-7/8" hold to 6940'. Ran 161 jts. 5-1/2" 17#, J-55, LT&C csg. Cmt'd w/ 950 sxs Interfill "C" & 500 sxs Premium 50/50 POZ. Top of float collar @ 6847'. Top of float shoe @ 6938'. Circ. 146 sxs to pit.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Deborah K. Hoyt

TITLE

Engineering Technician

DATE 7/15/98

TYPE OR PRINT NAME

Deborah K. Hoyt

TELEPHONE NO. 713-296-7152

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY CHRIS WILLIAMS

TITLE

DATE

JUL 22 1998

CONDITIONS OF APPROVAL DISTRICT I SUPERVISOR