

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

6. LEASE DESIGNATION AND SERIAL NO.

NM - 12852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Federal 27 "A" #1

9. API WELL NO.

30 - 041 - 20832

10. FIELD AND POOL, OR WILDCAT

North Bluit Wolfcamp (gas)

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

Sec 27, T7S, R37E

12. COUNTY OR PARISH

Roosevelt

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 ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☒ Other

2. NAME OF OPERATOR

H.L. Brown Operating L.L.C.

3. ADDRESS AND TELEPHONE NO.

300 W Louisiana, Midland, Texas 79702

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

At surface 660' FNL & 1980' FWL

At top prod. interval reported below 996' FNL & 1957' FWL Unit C

At total depth 2616' FNL & 1939' FWL

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

4-18-00

16. DATE T.D. REACHED

5-1-00

17. DATE COMPL. (Ready to prod.)

7-06-00

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)\*

4058' GL, 4075' KB

19. ELEV. CASING HEAD

4058' GL

20. TOTAL DEPTH, MD & TVD

9200'

21. PLUG, BACK T.D., MD & TVD

8890'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

100%

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*

Wolfcamp (open-hole) 8060' MD, 7979' TVD

25. WAS DIRECTIONAL SURVEY MADE

yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

none

27. WAS WELL CORED

no

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 |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 13-3/8"           | 48# H-40        | 519'           | 17-1/2"   | 500 sx, cement circulated       | --            |
| 8-5/8"            | 32# J-55        | 3810'          | 12-1/4"   | 1800 sx, cement circulated      | --            |
| 5-1/2"            | 17# K55/N80     | 9200'          | 7-7/8"    | 1130 sx, TOC @ 5475' by         | temp. survey  |

29. LINER RECORD

| SIZE       | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------------|----------|-------------|---------------|-------------|------|----------------|-----------------|
| 3-1/2", 8# | 7654'    | 8200'       | none          | --          | --   | none           | --              |

31. PERFORATION RECORD (Interval, size and number)

4-3/4" open hole: 7989' - 9700' MD

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 7734' - 9700'       | 7000 gals 15% NEFE               |

33. PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N FOR TEST PERIOD OIL-BBL GAS-MCF.

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL-BBL GAS-MCF. WATER-BBL

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

ACCEPTED FOR RECORD

WELL STATUS (Producing or shut-in)

shut in

WATER-BBL GAS-OIL RATIO

DEC 5 2002

ARMANDO A. LOPEZ

TEST WITNESSED BY ENGINEER

35. LIST OF ATTACHMENTS

corrected 3160-5, deviation survey, well bore schematic

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

SIGNED Robert McNaughton

TITLE Petroleum Engineer

DATE 11-26-02

\*(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.

# LEAM DRILLING SYSTEMS

## Survey Report

Company: LEAM DRILLING SYSTEMS  
 Well: D3783-MID  
 Wellpath: LEAM STEERING TOOL  
 Date: 5/23/2000  
 Time: 14:12  
 Location: SIO FEDERAL 22 AND 1700 North  
 Section: 22  
 Township: 1700 North  
 Range: 103 East  
 Survey: LEAM STEERING TOOL  
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 Survey: LEAM STEERING TOOL

Survey: LEAM STEERING TOOL

Start Date:

5/23/2000

Company: LEAM DRILLING SYSTEMS

Engineer:

STEVE WHEAT

Tool:

Well: D3783-MID

Well Position: +N-S 0.00 ft Northing: 812714.10 ft Latitude: 33 11 60.00 N  
 From Slot: +E-W 0.00 ft Easting: 1392327.55 ft Longitude: 103 19 60.00 W  
 Position Uncertainty: 0.00 ft

### Survey

| Station | Delta N | Delta E | Delta S | Delta W  | Delta X | Delta Y | Delta Z | Delta T | Delta U | Delta V | Delta W | Delta X |
|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 7710.90 | 2.40    | 199.65  | 7708.33 | -130.99  | -14.96  | 130.99  | 0.00    | 0.00    | 0.00    | 131.84  | 186.52  |         |
| 7798.00 | 17.70   | 192.70  | 7793.84 | -145.71  | -18.51  | 145.71  | 17.59   | 17.57   | -7.98   | 146.88  | 187.24  |         |
| 7830.00 | 23.70   | 186.00  | 7823.77 | -156.87  | -20.25  | 156.87  | 20.13   | 18.75   | -20.94  | 158.17  | 187.36  |         |
| 7860.00 | 31.90   | 184.40  | 7850.28 | -170.79  | -21.49  | 170.79  | 27.44   | 27.33   | -5.33   | 172.14  | 187.17  |         |
| 7892.00 | 43.50   | 186.50  | 7875.56 | -190.23  | -23.39  | 190.23  | 36.47   | 36.25   | 6.56    | 191.66  | 187.01  |         |
| 7923.00 | 44.50   | 188.00  | 7897.86 | -211.59  | -26.11  | 211.59  | 4.66    | 3.23    | 4.84    | 213.19  | 187.04  |         |
| 7955.00 | 43.60   | 185.30  | 7920.86 | -233.68  | -28.69  | 233.68  | 6.51    | -2.81   | -8.44   | 235.44  | 187.00  |         |
| 7987.00 | 49.10   | 169.00  | 7943.02 | -256.64  | -27.40  | 256.64  | 40.57   | 17.19   | -50.94  | 258.10  | 186.09  |         |
| 8047.00 | 67.10   | 178.30  | 7974.64 | -307.02  | -22.20  | 307.02  | 32.71   | 30.00   | 15.50   | 307.82  | 184.14  |         |
| 8078.00 | 77.70   | 185.80  | 7984.01 | -336.48  | -23.31  | 336.48  | 41.22   | 34.19   | 24.19   | 337.28  | 183.96  |         |
| 8110.00 | 88.30   | 188.90  | 7987.91 | -367.93  | -27.38  | 367.93  | 34.49   | 33.12   | 9.69    | 368.94  | 184.26  |         |
| 8173.00 | 92.50   | 185.50  | 7987.47 | -430.41  | -35.27  | 430.41  | 8.58    | 6.67    | -5.40   | 431.85  | 184.68  |         |
| 8237.00 | 91.20   | 185.00  | 7985.40 | -494.10  | -41.12  | 494.10  | 2.18    | -2.03   | -0.78   | 495.81  | 184.76  |         |
| 8268.00 | 87.70   | 185.70  | 7985.70 | -524.96  | -44.01  | 524.96  | 11.51   | -11.29  | 2.26    | 526.80  | 184.79  |         |
| 8299.00 | 87.70   | 186.20  | 7986.94 | -555.77  | -47.23  | 555.77  | 1.61    | 0.00    | 1.61    | 557.77  | 184.86  |         |
| 8332.00 | 87.20   | 185.30  | 7988.41 | -588.57  | -50.53  | 588.57  | 3.12    | -1.52   | -2.73   | 590.74  | 184.91  |         |
| 8364.00 | 87.60   | 184.20  | 7989.86 | -620.43  | -53.18  | 620.43  | 3.65    | 1.25    | -3.44   | 622.70  | 184.90  |         |
| 8396.00 | 87.60   | 183.50  | 7991.20 | -652.33  | -55.32  | 652.33  | 2.19    | 0.00    | -2.19   | 654.67  | 184.85  |         |
| 8428.00 | 88.00   | 183.40  | 7992.43 | -684.25  | -57.25  | 684.25  | 1.29    | 1.25    | -0.31   | 686.64  | 184.78  |         |
| 8492.00 | 90.40   | 181.40  | 7993.33 | -748.17  | -59.93  | 748.17  | 4.88    | 3.75    | -3.12   | 750.57  | 184.58  |         |
| 8556.00 | 91.00   | 180.70  | 7992.54 | -812.16  | -61.10  | 812.16  | 1.44    | 0.94    | -1.09   | 814.45  | 184.30  |         |
| 8619.00 | 89.30   | 180.30  | 7992.38 | -875.15  | -61.65  | 875.15  | 2.77    | -2.70   | -0.63   | 877.32  | 184.03  |         |
| 8683.00 | 89.30   | 180.50  | 7993.16 | -939.15  | -62.09  | 939.15  | 0.31    | 0.00    | 0.31    | 941.20  | 183.78  |         |
| 8746.00 | 89.40   | 179.10  | 7993.88 | -1002.14 | -61.87  | 1002.14 | 2.23    | 0.16    | -2.22   | 1004.05 | 183.53  |         |
| 8811.00 | 90.60   | 179.10  | 7993.88 | -1067.13 | -60.85  | 1067.13 | 1.85    | 1.85    | 0.00    | 1068.87 | 183.26  |         |
| 8874.00 | 90.50   | 178.80  | 7993.27 | -1130.12 | -59.70  | 1130.12 | 0.50    | -0.16   | -0.48   | 1131.69 | 183.02  |         |
| 8938.00 | 89.90   | 179.20  | 7993.05 | -1194.11 | -58.58  | 1194.11 | 1.13    | -0.94   | 0.62    | 1195.54 | 182.81  |         |
| 9000.00 | 89.80   | 178.80  | 7993.21 | -1256.10 | -57.50  | 1256.10 | 0.67    | -0.16   | -0.65   | 1257.41 | 182.62  |         |
| 9064.00 | 89.40   | 178.60  | 7993.66 | -1320.08 | -56.05  | 1320.08 | 0.70    | -0.62   | -0.31   | 1321.27 | 182.43  |         |
| 9128.00 | 90.50   | 178.80  | 7993.71 | -1384.06 | -54.60  | 1384.06 | 1.75    | 1.72    | 0.31    | 1385.14 | 182.26  |         |
| 9191.00 | 91.20   | 178.70  | 7992.78 | -1447.04 | -53.22  | 1447.04 | 1.12    | 1.11    | -0.16   | 1448.02 | 182.11  |         |
| 9254.00 | 90.50   | 179.40  | 7991.84 | -1510.02 | -52.18  | 1510.02 | 1.57    | -1.11   | 1.11    | 1510.92 | 181.98  |         |
| 9317.00 | 90.30   | 179.90  | 7991.40 | -1573.02 | -51.79  | 1573.02 | 0.85    | -0.32   | 0.79    | 1573.87 | 181.89  |         |
| 9382.00 | 88.80   | 179.40  | 7991.91 | -1638.02 | -51.40  | 1638.02 | 2.43    | -2.31   | -0.77   | 1638.82 | 181.80  |         |
| 9444.00 | 89.70   | 178.60  | 7992.73 | -1700.00 | -50.31  | 1700.00 | 1.94    | 1.45    | -1.29   | 1700.74 | 181.70  |         |
| 9508.00 | 89.80   | 177.90  | 7993.01 | -1763.97 | -48.36  | 1763.97 | 1.10    | 0.16    | -1.09   | 1764.63 | 181.57  |         |
| 9572.00 | 89.80   | 177.70  | 7993.23 | -1827.92 | -45.90  | 1827.92 | 0.31    | 0.00    | -0.31   | 1828.50 | 181.44  |         |
| 9635.00 | 90.00   | 177.60  | 7993.34 | -1890.87 | -43.32  | 1890.87 | 0.35    | 0.32    | -0.16   | 1891.36 | 181.31  |         |
| 9669.00 | 90.00   | 177.50  | 7993.34 | -1924.84 | -41.87  | 1924.84 | 0.29    | 0.00    | -0.29   | 1925.29 | 181.25  |         |
| 9700.00 | 90.00   | 177.50  | 7993.34 | -1955.81 | -40.51  | 1955.81 | 0.00    | 0.00    | 0.00    | 1956.23 | 181.19  |         |