

Form 3160-4  
(November 1983)  
(formerly 9-330)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. E. sion

811 S. 1st Street

Artesia, NM 88210-2834

Form approved  
Budget Bureau No. 1004-0137

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
NM 29234

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Lotos "11" Federal  
Well #1

9. API Number  
30 015 28672

10. FIELD AND POOL, OR WILDCAT  
Wildcat Delaware

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA  
Sec 11, T24S, R31E

12. COUNTY OR  
PARISH

Eddy

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐  
1b. TYPE OF COMPLETION: NEW WORK DEEP- PLUG DIFF. RESVR. OTHER  
WELL ☒ OVER ☐ EN ☐ BACK ☐

2. NAME OF OPERATOR  
Sonat Exploration Co. - Midland

3. ADDRESS OF OPERATOR  
110 W. Louisiana, Suite 500, Midland, TX 79701 (915) 684-6381

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 330' FNL & 330' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED  
9-21-95

15. Date Spudded 4-15-98 16. Date T.D. Reached 4-26-98 17. DATE COMPL (Ready to prod.) 5-18-98 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 3489' 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 8455' 21. PLUG, BACK T.D., MD & TVD 8400' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. ROTARY TOOLS X 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD & TVD)\* Delaware/Brushy Canyon @ 8160-8206' 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-CCL 27. WAS WELL CORED no

| 28. CASING RECORD (Report all strings set in well) |                 |                |           |                  |               |
|----------------------------------------------------|-----------------|----------------|-----------|------------------|---------------|
| CASING SIZE                                        | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | Amount Pulled |
| 11 3/4"                                            | 42#             | 685'           | 14 3/4"   | 490 sx           | NONE          |
| 8 5/8"                                             | 24# & 32#       | 4300'          | 11"       | 1425 sx          | NONE          |
| 5 1/2"                                             | 17#             | 8455'          | 7 7/8"    | 1400 sx          |               |

| 29. LINER RECORD |          |             |               | 30. TUBING RECORD |                |                 |
|------------------|----------|-------------|---------------|-------------------|----------------|-----------------|
| Size             | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SIZE              | DEPTH SET (MD) | PACKER SET (MD) |
|                  |          |             |               | 2 7/8"            | 7630'          |                 |

| 31. PERFORATION RECORD (Interval, size and number)       |  | 32. ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc. |                                        |
|----------------------------------------------------------|--|---------------------------------------------|----------------------------------------|
| 8160-8182' (22', 88 shots) & 8190'-8206' (16', 64 shots) |  | DEPTH INTERVAL (MD)                         | AMT. AND KIND OF MATERIAL USED         |
|                                                          |  | 8160-8206'                                  | 1000 gals 7 1/2% NEFE HCL, 32,000 gals |
|                                                          |  |                                             | gals 30# borate XLG 2% KCL             |
|                                                          |  |                                             | 110,886# 20/40 sand                    |

| 33.* PRODUCTION       |                 |                                                                        |                         |            |              |                                      |               |
|-----------------------|-----------------|------------------------------------------------------------------------|-------------------------|------------|--------------|--------------------------------------|---------------|
| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) |                         |            |              | WELL STATUS (Producing or PRODUCING) |               |
| 5-19-98               |                 | pumping                                                                |                         |            |              | PRODUCING                            |               |
| DATE OF TEST          | HOURS TESTED    | CHOKE SIZE                                                             | PROD'N. FOR TEST PERIOD | OIL - BBL. | GAS - MCF.   | WATER - BBL.                         | GAS-OIL RATIO |
| 5-26-98               | 24              |                                                                        | 36                      |            | 46           | 90                                   | 1277          |
| FLOW. TUBING PRESS.   | CASING PRESSURE | CALCULATED 24-HOUR RATE                                                | OIL - BBL.              | GAS - MCF. | WATER - BBL. | OIL GRAVITY-API (CORR.)              |               |

34. DISPOSITION OF GAS sales (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS  
Inclination report & logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
915 684-6381

SIGNED

TITLE Ann E. Ritchie, Regulatory Agent

DATE

7-23-98

ACCEPTED FOR RECORD  
PETER W. CHESTER

AUG 1 1998

BUREAU OF LAND MANAGEMENT  
ROSWELL RESOURCE AREA

\*(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.

DISTR: BLM(6) NMOC(1)

7-23-98

Sonat Exploration Co.-Midland, Lotos "11" Federal, Well #1  
Sec 11, T24S, R31E, Eddy County, New Mexico

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, time tool open, flowing and shut in pressures, and recoveries):

| FORMATION           |       | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC. | GEOLOGIC MARKERS    |             |                                 |
|---------------------|-------|-------|--------|-----------------------------|---------------------|-------------|---------------------------------|
|                     |       |       |        |                             | NAME                | MEAS. DEPTH | TOP                             |
|                     |       |       |        |                             |                     |             | TRUE VERT. DEPTH<br>SubSeaDepth |
| Delaware Mtn. Group | 4389' | 8265' | 8265'  | Sand, shale, limestone      | Rustler             | 694'        | 694'                            |
|                     |       |       |        |                             | Delaware Mtn. Group | 4389'       | 4389'                           |
|                     |       |       |        |                             | Bone Springs Lime   | 8265'       | 8265'                           |

Sonat Exploration Com, y  
Lotos 11 Fed. #1  
Eddy Co., NM

STATE OF NEW MEXICO  
DEVIATION REPORT

|       |       |
|-------|-------|
| 372   | 3/4   |
| 685   | 1-3/4 |
| 982   | 1-1/4 |
| 1,499 | 1-1/2 |
| 1,947 | 3/4   |
| 2,446 | 1     |
| 2,944 | 1-1/4 |
| 3,413 | 1-1/2 |
| 3,910 | 2     |
| 4,300 | 1     |
| 4,794 | 1/2   |
| 5,266 | 3/4   |
| 5,761 | 3/4   |
| 6,114 | 1     |
| 6,575 | 1-1/4 |
| 7,042 | 1     |
| 7,530 | 1     |
| 8,029 | 1     |
| 8,455 | 1     |



By: Ray Peterson

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me  
this 5th day of May, 1998, by RAY PETERSON  
on behalf of PETERSON DRILLING COMPANY.



Notary Public for Midland  
County, Texas

My Commission Expires: 8/2/2000

