

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                                              |                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1a. TYPE OF WORK<br><b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>                                                        | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>NM-0555225</b>                      |
| b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                          |
| 2. NAME OF OPERATOR<br><b>Sun Oil Company</b>                                                                                                                                                                | 7. UNIT AGREEMENT NAME                                                        |
| 3. ADDRESS OF OPERATOR<br><b>P. O. Box 1861, Midland, Texas 79701</b>                                                                                                                                        | 8. FARM OR LEASE NAME<br><b>Sandoval-Federal</b>                              |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*<br>At surface <b>330' FNL &amp; 2310' FWL of Section 24</b><br>At proposed prod. zone <b>Same</b>              | 9. WELL NO.<br><b>1</b>                                                       |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br><b>Approximately 16 miles Southwest of Cuba</b>                                                                                     | 10. FIELD AND POOL, OR WILDCAT<br><b>Wildcat</b>                              |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)<br><b>330-ft.</b>                                                                      | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br><b>Sec. 24, T18N, R3W</b> |
| 16. NO. OF ACRES IN LEASE<br><b>200</b>                                                                                                                                                                      | 12. COUNTY OR PARISH<br><b>Sandoval</b>                                       |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL                                                                                                                                                                       | 13. STATE<br><b>New Mexico</b>                                                |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.<br><b>First Well</b>                                                                           | 19. PROPOSED DEPTH<br><b>8650</b>                                             |
| 20. ROTARY OR CABLE TOOLS<br><b>Rotary</b>                                                                                                                                                                   | 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br><b>Ground 6562.0 ft.</b>    |
| 22. APPROX. DATE WORK WILL START*<br><b>May 1, 1971</b>                                                                                                                                                      |                                                                               |

| 23. PROPOSED CASING AND CEMENTING PROGRAM |                |                 |               |                    |
|-------------------------------------------|----------------|-----------------|---------------|--------------------|
| SIZE OF HOLE                              | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
| 15"                                       | 13-3/8"        | 48#             | 350           | Circulate          |
| 12-1/4"                                   | 8-5/8"         | 24 & 28#        | 3150          | 350 sacks          |
| 7-7/8"                                    | 5-1/2"         | 15.5 & 17#      | TD            | 400 sacks          |

- Set 13-3/8" OD Surface Casing at approximately 350. Circulate cement to surface.
- Set 8-5/8" OD intermediate casing at 3150' or approximately 40' into Morrison section. Use sufficient cement to cover bottom 1000-ft. Run electric logs before running casing.
- Drill to anticipated total depth of 8650' in the Basement. Set 5-1/2" OD casing at total depth. Exact casing point to be determined by lower most producing zone.
- Cement 5-1/2" casing with sufficient cement to extend minimum of 500' above uppermost productive interval.
- Completion procedure to be determined by results of electric logs, cores, and/or drill stem tests.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true depths. Give blowout preventer program, if any.

24. *W. E. Westbrook, Jr.* SIGNED **W. E. Westbrook, Jr.** TITLE **Dist. Drlg. Engineer** DATE **4-21-71**

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

## Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is directed to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for special instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

All distances must be from the outer boundary of the Section.

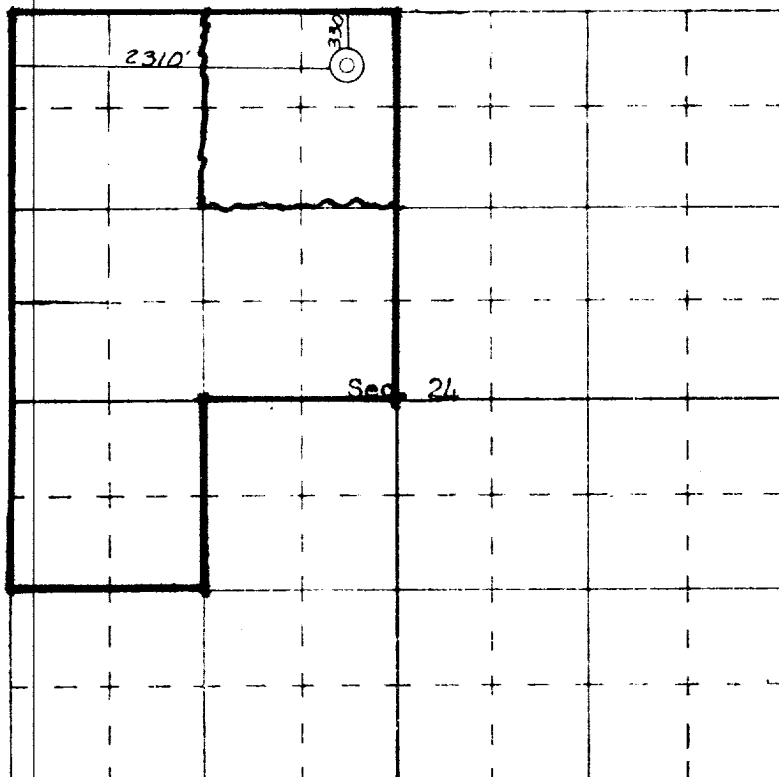
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330 NORTH 2310 WEST

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APR 26 1971  
OIL CON. COM.  
DIST. 3

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**SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.**