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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

|  |
|--|
| 5A. Indicate Type of Lease   |
| STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 5. State Oil & Gas Lease No.   |

|   |  |   |  |
|---|--|---|--|
| APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK   |  |   |  |
| 1a. Type of Work  |  | 7. Unit Agreement Name                                    |  |
| b. Type of Well<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                |  | 8. Farm or Lease Name<br>CORDELIA HARDY                   |  |
| 2. Name of Operator<br>MOBIL PRODUCING TX. & N.M. INC.  |  | 9. Well No.<br>1  |  |
| 3. Address of Operator<br>NINE GREENWAY PLAZA, SUITE 2700, HOUSTON, TEXAS 77046   |  | 10. Field and Pool, or Wildcat<br>PADDOCK (PADDOCK)       |  |
| 4. Location of Well<br>UNIT LETTER E LOCATED 2310 FEET FROM THE NORTH LINE<br>AND 330 FEET FROM THE WEST LINE OF SEC. 29 TWP. 21S RGE. 37E NMPM |  | 12. County<br>LEA   |  |
| 19. Proposed Depth<br>5400  |  | 19A. Formation<br>PADDOCK                                 |  |
| 20. Rotary or C.T.<br>ROTARY  |  | 21. Elevations (Show whether DF, RT, etc.)<br>3483-GROUND |  |
| 21A. Kind & Status Plug. Bond<br>ON FILE  |  | 21B. Drilling Contractor<br>UNKNOWN                       |  |
| 22. Approx. Date Work will start<br>ASAP  |  |   |  |

| 23. PROPOSED CASING AND CEMENT PROGRAM |                |                 |               |                 |          |
|--|----------------|-----------------|---------------|-----------------|----------|
| SIZE OF HOLE                           | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
| EXISTING 11"                           | 9-5/8"         | 40#             | 1344'         | 310             | SURFACE  |
| 8-1/4"                                 | 7"             | 32#             | 2625'         | 175             | 2070'    |
| PROPOSED -----                         | 5-1/2" LINER   | 15.5#-K-55      | 5400'         | CIRCULATE       | SURFACE  |

This well is presently completed as a non-commercial producer in the Penrose Skelly Grayburg Pool. Permission is requested to abandon this zone, deepen to 5400', set liner from top to bottom and complete in the Paddock. Procedures for completing this work are attached.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed A. D. BOND Title REGULATORY TECHNICIAN SUPERVISOR Date 5/22/84

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

MAY 28 1984

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

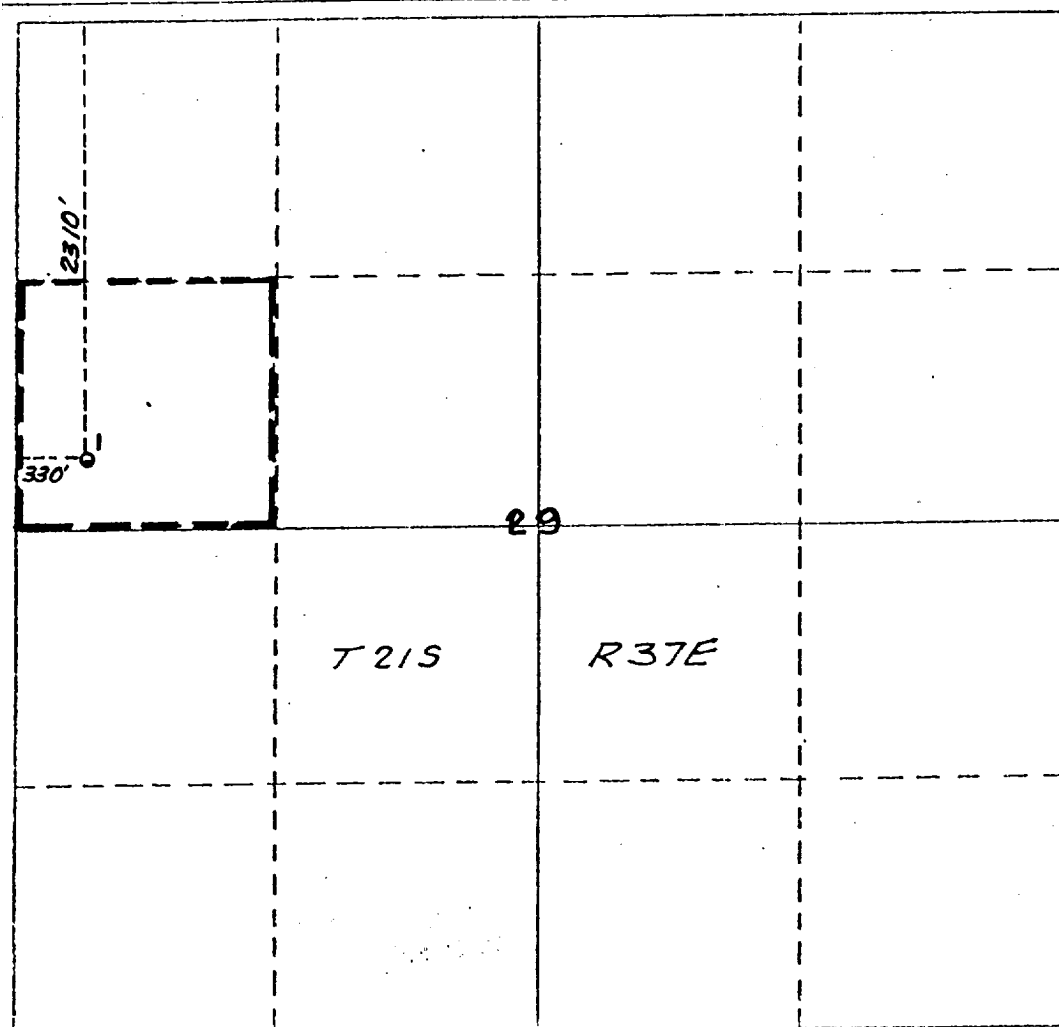
|   |                                       |                                |                                       |                      |
|---|---------------------------------------|--------------------------------|---------------------------------------|----------------------|
| Operator<br><b>MOBIL PRODUCING TX. &amp; N.M. INC.</b>  |                                       | Lease<br><b>CORDELIA HARDY</b> |                                       | Well No.<br><b>1</b> |
| Unit Letter<br><b>E</b>   | Section<br><b>29</b>                  | Township<br><b>21S</b>         | Range<br><b>37E</b>                   | County<br><b>LEA</b> |
| Actual Footage Location of Well:<br><div style="display: flex; justify-content: space-between;"> <span>330 feet from the WEST line and</span> <span>2310 feet from the NORTH line</span> </div> |                                       |                                |                                       |                      |
| Ground Level Elev.<br><b>3483</b>   | Producing Formation<br><b>PADDOCK</b> | Pool<br><b>PADDOCK</b>         | Dedicated Acreage:<br><b>40</b> Acres |                      |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



#### CERTIFICATION

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

Name

**A. D. BOND**

Position

**Regulatory Technician Supervisor**

Company **Mobil Producing TX. & N.M. Inc.**

Date

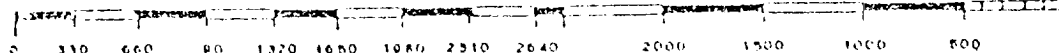
**5/22/84**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.



WORKOVER PROCEDURES  
FOR  
MOBIL PRODUCING TX. & N.M. INC.

CORDELIA HARDY WELL #1  
UNIT E, SEC. 29, T21S, R37 E  
LEA COUNTY, NEW MEXICO

- 1) MIRU PU. POH w/ rods & pump.
- 2) NU BOP & Test. (8"-3000# Mechanical type BOP w/ Master Gate & Pipe Rams). POH w/ Tbg.
- 3) MIRU Reverse Unit. GIH w/ 6-7/8" Bit & 4½". Drill Collars. Displace hole w/ 2% KCl. Wtr.
- 4) Drill 6-1/8" hole to 5400' w/ 2% KCl Wtr. (Note, if lost circ occurs in Penrose Skelly Grayburg zone, sqz. as necessary prior to continuing drilling.)
- 5) Circ. & condition hole 2-4 hrs. prior to logging. POH.
- 6) Run OH logs as follows:
  - Run 1: GR + Compensated Neutron - 5400' to Surface + Formation Density + Caliper (minimum 3 arm caliper required). - 5400 to 3625'.
  - Run 2: GR + BHC Sonic + Caliper - 5400' to 3625'.
  - Run 3: GR + DLL + Microlog - 5400' 3625'.
- 7) GIH & condition 2 hrs. w/ 2% KCl Wtr. POH.
- 8) GIH w/ Float Shoe + 1 jt + 4½" csg + Float Collar + 4½" csg. (Run centralizers every other jt on bottom 4 jts. + every jt 100' above & below potential pays). Run csg from TD (=5400') to surface.
- 9) Cmt csg to surf. w/ Howco Lite CL H w/ 1/4# Flocele/sx (+ 12.7#/gal., 1.84 cu.ft./sx yield) + ClC w/ .3% Halad 9 from 5400' to 4900'. (20 to 30% excess above hole vol. up to 7" csg shoe @ 3625'). Reciprocate csg while cmt'ing, if possible.
- 10) WOC, min. 12 hrs. Drill out to TD & Test csg prior to perf'ing.
- 11) Perf. as directed - Prod Geol. to choose perf's.

MWDeer  
5/14/84