

UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

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

| 1a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> JUNE 22 DEEPEN 53 AM '83 PLUG BACK <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                             |                | 5. LEASE DESIGNATION AND SERIAL NO.<br>NM 13997                                     |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|---------------|--------------------------------|----------------|-----------------|---------------|--------------------|---------|---------|-----|------|--------|-----|--------|-----------|-------|--------------------------------|--------|--------|-------|-------|---------------------|
| b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                      |                | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 2. NAME OF OPERATOR<br>J.C. Williamson                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 7. UNIT AGREEMENT NAME                                                              |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 3. ADDRESS OF OPERATOR<br>P.O. Box 16 Midland, Texas 79702                                                                                                                                                                                                                                                                                                                                                                                                                            |                | 8. FARM OR LEASE NAME<br>EP-USA                                                     |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface: 660' 3" 1980' C<br>1980' FEL & 660' FSL<br>At proposed depth: 660' 3" 1980' C<br>1980' FEL & 660' FSL                                                                                                                                                                                                                                                                     |                | 9. WELL NO.<br>4                                                                    |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br>14 Miles SE of Malaga, New Mexico                                                                                                                                                                                                                                                                                                                                                                            |                | 10. FIELD AND POOL, OR WILDCAT<br>Brushy Draw - District                            |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)<br>660'                                                                                                                                                                                                                                                                                                                                                         |                | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Section 26, 9<br>T-26-S, R-28-E |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 16. NO. OF ACRES IN LEASE<br>280                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                | 12. COUNTY OR PARISH<br>Eddy                                                        |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>40                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 13. STATE<br>New Mexico                                                             |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.<br>660'                                                                                                                                                                                                                                                                                                                                                                 |                | 19. PROPOSED DEPTH<br>6250'                                                         |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 20. ROTARY OR CABLE TOOLS<br>Rotary                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>2889.8                            |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 22. APPROX. DATE WORK WILL START*<br>August 15, 1983                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 23. PROPOSED CASING AND CEMENTING PROGRAM                                           |               |                                |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| <table border="1"><thead><tr><th>SIZE OF HOLE</th><th>SIZE OF CASING</th><th>WEIGHT PER FOOT</th><th>SETTING DEPTH</th><th>QUANTITY OF CEMENT</th></tr></thead><tbody><tr><td>17 1/2"</td><td>12 3/4"</td><td>35#</td><td>350'</td><td>925 sx</td></tr><tr><td>11"</td><td>8 5/8"</td><td>24# &amp; 32#</td><td>2900'</td><td>150 sx tie back to base of sal</td></tr><tr><td>7 7/8"</td><td>4 1/2"</td><td>10.5#</td><td>6250'</td><td>1450 sx in 2 stages</td></tr></tbody></table> |                |                                                                                     |               | SIZE OF HOLE                   | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT | 17 1/2" | 12 3/4" | 35# | 350' | 925 sx | 11" | 8 5/8" | 24# & 32# | 2900' | 150 sx tie back to base of sal | 7 7/8" | 4 1/2" | 10.5# | 6250' | 1450 sx in 2 stages |
| SIZE OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SIZE OF CASING | WEIGHT PER FOOT                                                                     | SETTING DEPTH | QUANTITY OF CEMENT             |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 17 1/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12 3/4"        | 35#                                                                                 | 350'          | 925 sx                         |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 11"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8 5/8"         | 24# & 32#                                                                           | 2900'         | 150 sx tie back to base of sal |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |
| 7 7/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 1/2"         | 10.5#                                                                               | 6250'         | 1450 sx in 2 stages            |                |                 |               |                    |         |         |     |      |        |     |        |           |       |                                |        |        |       |       |                     |

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 vertical depths. Give blowout preventer program, if any.

24. SIGNED Ruby Dine TITLE Production Secretary DATE 6/16/83

(This space for Federal or State office use)

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

APPROVED BY A. D. L... TITLE \_\_\_\_\_ DATE 8/1/83

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

# ILLEGIBLE

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form No. 1  
Supersedes C-128  
1-1-79

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

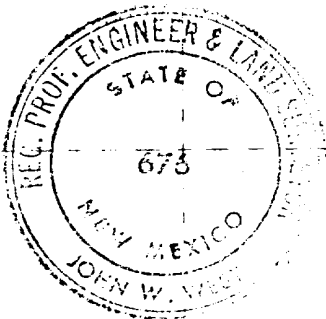
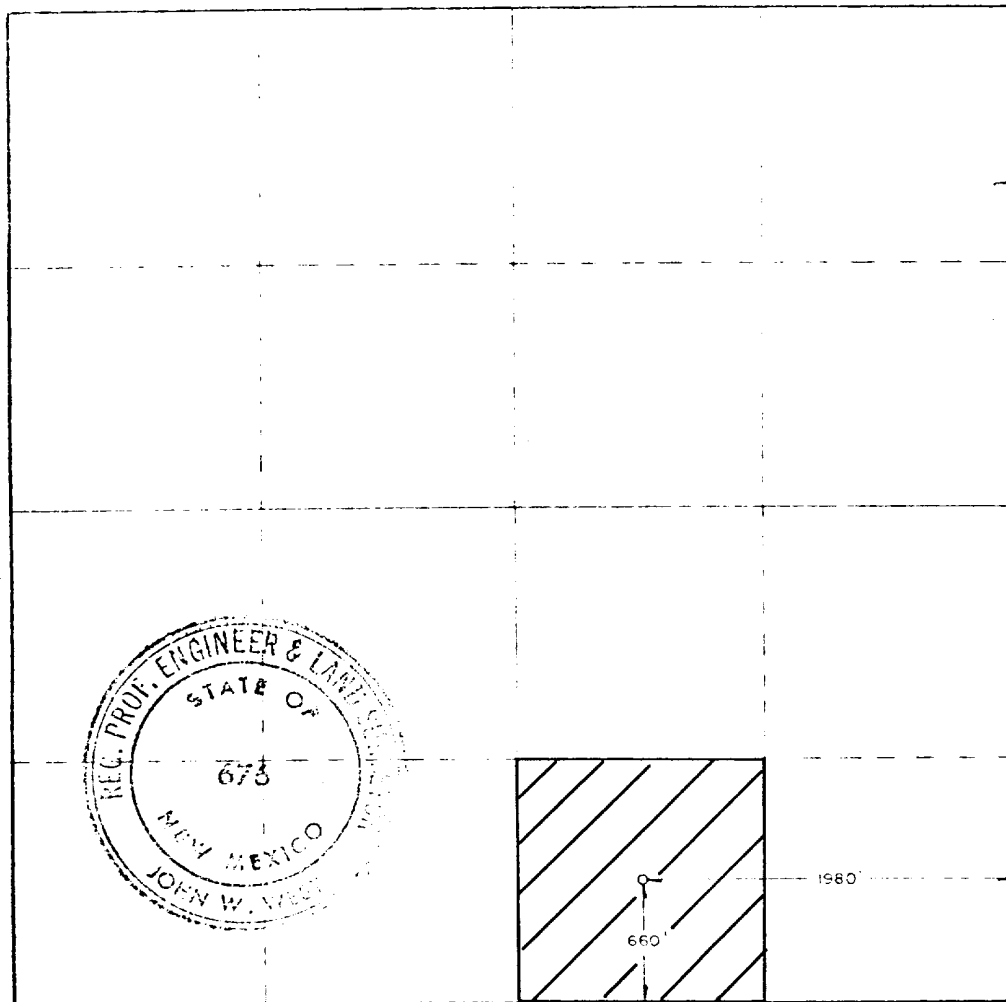
|                  |                      |             |         |                                      |   |
|------------------|----------------------|-------------|---------|--------------------------------------|---|
| J. C. Williamson |                      | E. P. USA   |         | RECEIVED                             | 4 |
| 0                | 26                   | 26 South    | 29 East | JUN 22 9 54 AM '83                   |   |
| 660              | south                | 1980        | east    | BND OF LAND MGMT<br>ROSWELL DISTRICT |   |
| 2889.8'          | BRUSHY CANYON (DEL.) | BRUSHY DRAW | 40      |                                      |   |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty) N/A
- 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? N/A

Yes      No      If answer is "yes," type of consolidation N/A

If answer is "no," list the owners and tract descriptions which have actually been consolidated (use reverse side of this form if necessary) N/A

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



### CERTIFICATION

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

*Roxy Wise*  
Roxy Wise

Production Secretary

J. C. Williamson

6/20/83

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

June 6, 1983

Registered Professional Engineer and Land Surveyor

Certificate No.

John W. West, NM L.S. 676

# SUPPLEMENTAL DRILLING DATA

J. C. WILLIAMSON  
WELL EP-USA FEDERAL #4

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BUR. OF LAND MGMT  
ROSWELL DISTRICT

1. SURFACE FORMATION: Quaternary Alluvium

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

|                   |       |
|-------------------|-------|
| Rustler Anhydrite | 450'  |
| Lamar Shale       | 3000' |
| Ramsey Sand       | 3025' |
| Olds Sand         | 3025' |
| Top Cherry Canyon | 4150' |
| Top Brushy Canyon | 5100' |

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

|                           |                              |
|---------------------------|------------------------------|
| Fresh Water               | above 30'                    |
| Delaware (oil)            | 3025'                        |
| Brushy Canyon (oil)       | 5100' - 5150', 5600' - 5650' |
| Lower Brushy Canyon (oil) | 6150' - 6200'                |

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on Form 9-331 C.

Hole for surface casing will be drilled to a depth below fresh water zones. Surface casing will then be run to bottom and cemented to the surface to protect fresh water zones. 12 3/4" pipe will be run and cemented at 350 feet.

8 5/8" pipe will be run and cemented at 2900 feet, prior to entering delaware section.

12 3/4" surface casing will be cemented to the surface with 425 sacks of Class "C" cement.

8 5/8" protection casing will be cemented with 150 sacks of Class "C" cement at 2900 feet.

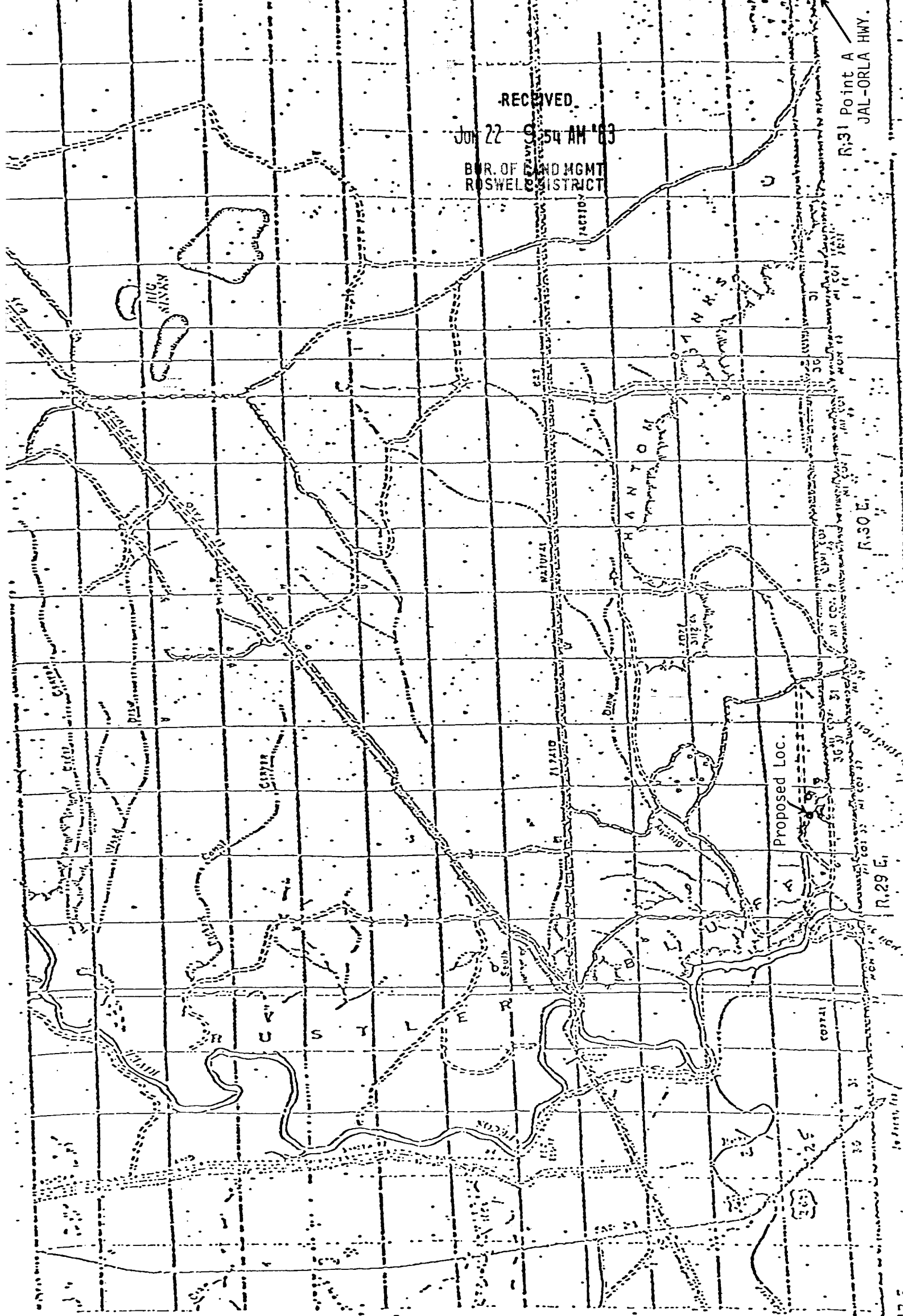
4 1/2" production casing will be cemented at a total depth or shallower if significant shows are encountered in the Brushy Canyon formation, with 1350 sacks Class "C" cement 50-50 poz in 2 stages with DV tool set at 4600 feet.

5. PRESSURE CONTROL EQUIPMENT:

Pressure control equipment will consist of a double ram hydraulically controlled blow out preventer.

6. CIRCULATING MEDIUM:

The circulating medium will be fresh water down to 350 feet and brine water in the rest of the hole.



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BOR. OF LAND MGMT  
ROSWELL DISTRICT

Proposed Loc.

Point A  
JAL-ORLA HWY.

R. 30 E.

R. 29 E.

EXHIBIT "A"  
J. C. Williamson  
EP-USA  
Well #4

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JUN 22 9 54 AM '83

BUR. OF LAND MGMT  
ROSWELL DISTRICT

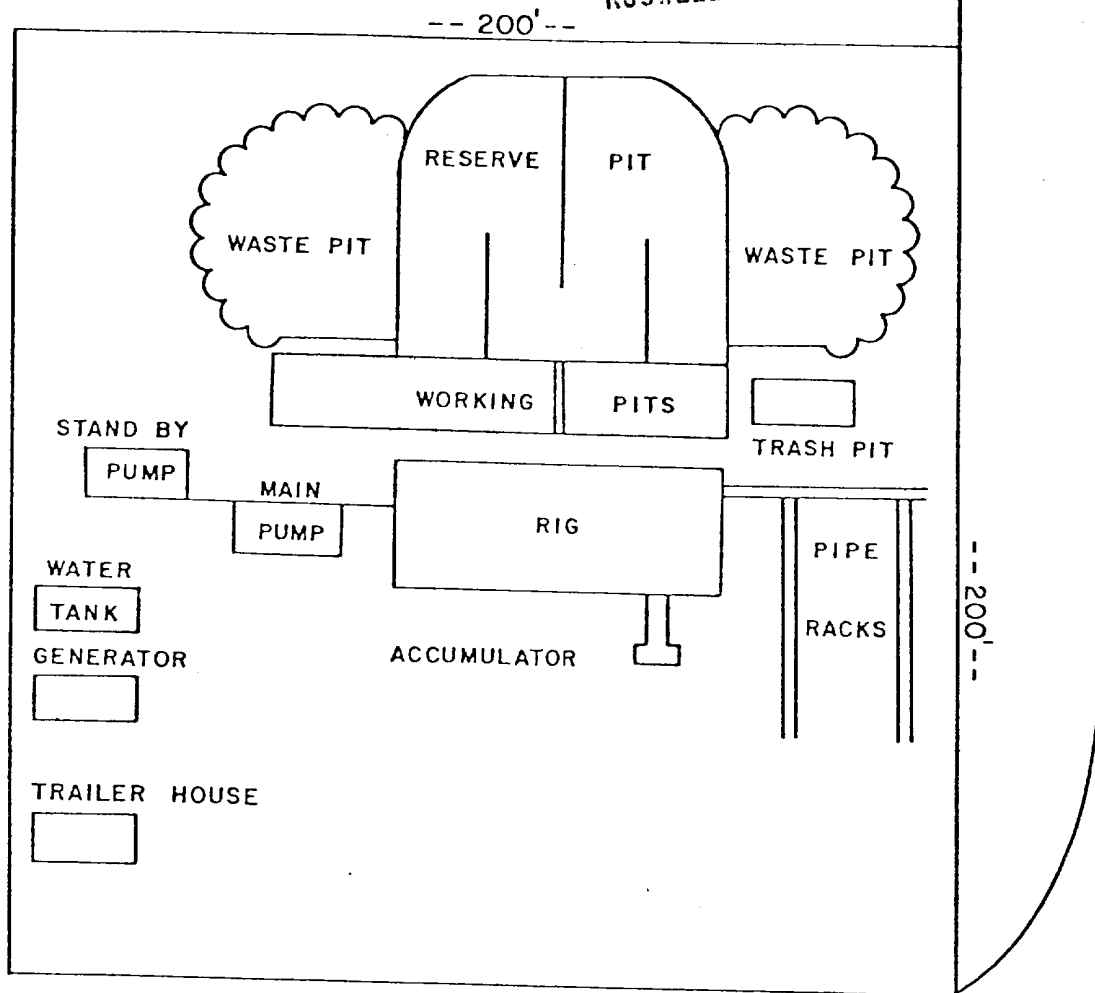


EXHIBIT "D"  
1980' FEL & 660' FSL  
J. C. Williamson  
EP-USA #4