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MMO.C.D. COPY

## United States Department of the Interior

GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210 JAN 14 1980

O. C. D. ARTESIA, OFFICE January 11, 1980

Anadarko Production Company P. O. Box 67 Loco Hills, New Mexico 88255

the following conditions:

ANADARKO PRODUCTION COMPANY Friend Federal No. 1 1980 FNL 660 FWL Sec. 21 T.13S R.31E Chaves County Lease No. NM 17594

Above Data Required on Well Sign

Gentlemen:

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 2,700 feet to test the Queen formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and

- 1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
- 4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 5. Cement behind the 8-5/8" casing must be circulated.
- 6. Special stipulations: No new disturbances in the southwest corner of the caliche pit (archaeological problem), and no drilling between April 1 and May 31.
- 7. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.



Sincerely yours, George H. Stewart Acting District Engineer

| Form 9-331 C                                                            | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ).C.D. COP              | Y SUBMIT IN TR                                            | IPLI .*     | Fo          | rm approv<br>løet Burea | ed.<br>u No. 42–R1             | 425.     |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------|-------------|-------------|-------------------------|--------------------------------|----------|
| (May 1963)                                                              | UNIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ED STATES               | (Other instruc<br>reverse si                              |             |             | 005                     |                                | 25       |
|                                                                         | DEPARTMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OF THE INTE             | RIOR                                                      |             |             |                         | AND SEBIAL                     | NO.      |
|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GICAL SURVEY            |                                                           |             |             | ¥. N.                   | 17594                          |          |
| APPLICATION                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | PEN, OR PLUG B                                            | ACK         | 6. IE INDIA | N, ALLOTTE              | E OR TRIBE NA                  | ME       |
| APPLICATION                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | O DRIEL, DEE            | RECEIV                                                    | ED.         | 5 4 5       | REEMENT                 | N A XIT IN                     |          |
| DRIL                                                                    | L 🗶 🔄 🖓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         | PEOG-BA                                                   |             |             | C.D.D.D.B.Q.I           |                                |          |
| b. TYPE OF WELL<br>OLL GAS                                              | s (W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         | SINGLE NOV 1ZOTE                                          | 170 I       | E. PARM O   | R LEASE NA              | <u>್ಷ ನೇಶಿಸಿ</u><br>MBA ನಿಶ್ಚಿ |          |
|                                                                         | SIL OTHER C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <del>. C. D.</del>      |                                                           | 13-4        | atter i t   | grim                    | l Tedera                       | 1        |
| Anadarka Produ                                                          | ction Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .SIA, OFFICE            | U.S. GEOLOGICAL                                           | SURVEY      | 9. WEEL N   | 10.                     | - # 3 10<br>• 11 1 1           |          |
| 3. ADDRESS OF OPERATOR                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | ARTESIA, NEW N                                            | IEXICO      | <u> </u>    | ATER POOL               | OB WILDCAT                     |          |
| P. O. Box 67,                                                           | Loco Hills, Ne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mexico 8623             | Store requirements.*)                                     |             |             |                         | ck guenn                       |          |
| 4. LOCATION OF WELL (Re<br>At surface                                   | igen <sup>4</sup> WI.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A 660" Full Se          | ic. 21, T135, R3                                          | LE.         | 11. SBC., T |                         | BER                            |          |
|                                                                         | r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chaves (                | county, New Mexid                                         | 10          | AND S       | URVEY OR                | 135 - 11                       | r        |
| At proposed prod. zone                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                           |             | <u> 1 j</u> |                         |                                |          |
| 14. DISTANCE IN MILES A                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                           | T.          | E Car       | L 3                     | H 18. STATE                    |          |
|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | North of Malja          | NO. OF ACRES IN LEASE                                     |             | E ACEES AS  |                         | Not No                         | HICO     |
| 15. DISTANCE FROM PROPO<br>LOCATION TO NEAREST<br>PROPERTY OR LEASE L   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 660*                    | 480                                                       | TOTI        | WELL        |                         | 3 114<br>1990<br>1997          |          |
| PROPERTY OR LEASE L<br>(Also to nearest drig<br>18. DISTANCE FROM PROP  | , unit line, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                       | PROPOSED DEPTH                                            | 20. ROTAL   | RT OR CABLI | E TOOLS                 |                                |          |
| 18. DISTANCE FROM PROF<br>TO NEAREST WELL, DE<br>OR APPLIED FOR, ON THI | RILLING, COMPLETED,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6226*                   | 2700'                                                     |             | Blot        | ್ರ್ ಎ                   |                                |          |
| 21. ELEVATIONS (Show whe                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                           |             | - E         | - 10 E                  | VOLK WHLL ST                   |          |
|                                                                         | 4118.9 GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                                                           |             | <b>Uec</b>  |                         | 15, 1979                       |          |
| 23.                                                                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PROPOSED CASING         | AND CEMENTING PROGR                                       | AM          |             |                         |                                |          |
| SIZE OF HOLE                                                            | SIZE OF CASING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | WEIGHT PER FOOT         | SETTING DEPTH                                             |             |             | TIT OF CEM              | ENT                            |          |
| 12-1/4"                                                                 | 8-5/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24#                     | 350*                                                      |             | 250_ax      | <u> </u>                | -12                            | <u>5</u> |
| 7-7/8"                                                                  | 4-1/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10.5                    | 2700'                                                     | _           | 250 sk      |                         | <u> </u>                       |          |
|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                           |             |             |                         | 은 성명<br>일도 2                   | <b>1</b> |
| 1. Rig up ro                                                            | tary tools.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                                                           |             |             |                         |                                |          |
| a 1.11 A.                                                               | and many second se | 50', set and            | circulate or rea                                          | dy-mix      | coming t    | to sur                  | face.                          |          |
| on 8-5/8"                                                               | casing. Insta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ill and test S          | eries 900 Double                                          | Rait Ny     | aras fin    |                         | <b>제 10. 19</b> 기<br>가 분 같     |          |
| Preventor                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EI 26751                |                                                           |             |             |                         |                                |          |
| 3. Drill to                                                             | 2575'; core 257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | metalv 2700'.           | run Open Hole 1                                           | .0g.        |             |                         | 39.<br>29.                     |          |
| 4. Drill to<br>5. Set and C                                             | ement 4' casis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e on T. D.              |                                                           | -<br>-      |             |                         | 이 <del>데 길 가</del><br>1일 - 친   |          |
| 6 Destants                                                              | box asidira                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tecture treat           | well.                                                     |             |             |                         |                                |          |
| 7. Run 2-3/8                                                            | " tubing and pa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | icker if produ          | ction is gas or                                           | 2-3/8°      | tubing.     | POLL                    |                                |          |
| hole pump                                                               | and rods if pi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | reduction 18 0          | }≩≟a<br>Sammante                                          | É           | 5 - 5.<br>3 |                         |                                |          |
| 8. Install C                                                            | hristmas Tree (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | et bombroff ada         | r Ffamilier e e                                           |             |             | 8                       |                                |          |
| 9. Place Wel                                                            | T of brookerso                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *•                      |                                                           | -           | 1.58        |                         |                                |          |
|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                           | -<br>       |             |                         |                                |          |
|                                                                         | - PROPOSED PROCESS - IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | proposal is to deepen   | or plug back, give data on                                | present pro | ductive son | e and prop              | ozed new pro                   | ductive  |
| zone. If proposal is to                                                 | drill or deepen direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ally, give pertinent de | or plug back, give data on<br>ata on subsurface locations | and measur  | ed and true | vertical de             | prin A Give b                  | olowout  |
| preventer program, if an 24. Ori                                        | iginal Signed by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |                                                           |             |             | <del>20 44</del>        | <u> </u>                       |          |
| Jet Jet                                                                 | rry E. Buckles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         | Area Supervis                                             | ot 🗍        | р           | Oct                     | ober 12,                       | 1979     |
| SIGNED                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                           |             |             | <u>-</u>                |                                |          |
| (This space for Fed                                                     | leral or State office use)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                                                           |             | S S S       | 2011<br>1912<br>1917    |                                |          |
| PERMIT NO.                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | APPROVAL DATE                                             | ;           |             | <u></u>                 | <u> </u>                       |          |
|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (it)                    |                                                           | :<br>!      |             |                         |                                |          |
| APPROVED BY                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TITLE                   |                                                           |             |             | ATE                     |                                |          |
| CONDITIONS OF APPRC                                                     | JVAL, IF ANY :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e de la seconda de la   |                                                           |             |             |                         |                                |          |
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Constant and a second

\*See Instructions On Reverse Side

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| e action by either<br>use of this form<br>issued by, or may<br>tations. Consult<br>tations. Consult<br>verse side, show-<br>y offices,<br>2 zone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Instructions<br>m certain well operations, as indicated, on all types of lands and leases for appropriate action by slither<br>ad/og State laws and regulations. Any necessary special instructions concerning the use of this form<br>local, area, or regional procedures and practices, either are abown below or will be issued by, or may<br>local, area or regional procedures and practices, either are abown below or will be issued by, or may<br>local, area or regional procedures and practices, either are abown below or will be issued by, or may<br>leave subsurface location or to a new reservoir, use this form with appropriate notations. Consult<br>reposals or reports on the well.<br>In Federal or Indian land should be described in accordance with Federal requirements. Consult local<br>of by rederal or Indian land or lease description. 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| <b>General:</b> This form is designed for submitting proposals to perform certain well operations, as in<br>a Federal or a State agency, or both, pursuant to applicable Federal and/og State laws and regulation<br>and the number of contes to be submitted, particularly with regard to local, area, or regional proced<br>be obtained from, the local Federal and/or State office.<br>If the proposal is to redrill to the same reservoir at a different subsurface location or to<br>applicable State or Federal regulations concerning subsequent work proposals or reports on the well<br>term 1: If these are no applicable State requirements, locations on Federal or Indian land should<br>sublicable State or Federal regulations concerning subsequent work proposals or reports on the well<br>let 4: If there are no applicable State requirements, locations on Federal or Indian land should<br>State or Federal office Instructions.<br>Item 4: If needed only when of the subsection.<br>Item 14: Needed only when of the surveyed location of well cannel readily be found by road from the indian of<br>the roads to, and the surveyed location of well cannel readily be found by road from the indian of<br>them 15 and 18: If well is to be, or has been directionally drilled, fire distances for subsurface.<br>Items 15 and 18: If well is to be, or has been directionally drilled, fire distances for subsurface.<br>Items 22: Consult applicable Federal or State regulations, or anordering the officials honcenting and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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NEW MERICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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| MADARKO PRODUCTION COMPANY       Friend Federal       Image: County         Interest Section 2       Tommaking       31 Frist       County         If a section of Wall;       13 South       31 Frist       Charge         Bottom of Wall;       Producting Formation       Producting Formation       Producting Formation         Dutline the acreage dedicated to the subject well by colored pencil of hachare marks on the platbeliov.       RECEIVED         If more than one lease is dedicated to the well, outline each and identify the ownership thereoffbuth us to work interest and royalty).       JAN 14 1980         If more than one lease is dedicated to the well, outline each and identify the ownership thereoffbuth us to work interest and royalty).       JAN 14 1980         If more than one lease is dedicated to the well, outline each and identify the ownership thereoffbuth us to work interest and royalty).       JAN 14 1980         If many is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary).       Market descriptions which have been consolidated. (Use reverse side this form if necessary).         No, If answer is "royal". The owner and tract descriptions which have been consolidated. (Use reverse side this form if necessary).       If answer is "no," list the owners and tract descriptions which have been approved by the Curmation.         No, If answer is "no," list the owners and tract descriptions which have been consolidated. (Use reverse side of neacoid neotecoid neotecoid neotecoid neacoid neotecoid nea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                                        | All distances must be from              | a the easter boundaries of the | Section.                                       |                           |
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| al Postoge Lection of Vali:<br>280 test term the North ince and 660 test term in West investigation of Valid Strength Stre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nEn<br>Letter                |                                        |                                         |                                |                                                |                           |
| P80         test from the<br>M Level Elev.         North         tax and<br>Desile Caprock. Queen         West         tax           Outline the acreage dedicated to the subject well by colored pencil or hackare marks on the plat below.<br>RECEIVED         RECEIVED         Image: Advances of the subject well by colored pencil or hackare marks on the plat below.<br>RECEIVED           If more than one lease is dedicated to the well, outline each and identify the ownership thereofflow has to work<br>interest and royalty).         JAN 14 1980           If more than one lease is dedicated to the well, outline each and identify the ownership thereofflow has to work<br>interest and royalty).         JAN 14 1980           If more than one lease is dedicated to the well, outline each and identify the ownership thereofflow has to work<br>interest and royalty).         JAN 14 1980           If more than one lease is dedicated to the well, outline each and identify the ownership thereofflow has to work<br>interest and royalty.         JAN 14 1980           If more than one lease is dedicated to the well, outline each and identify the owners and tract descriptions which have actually been consolidated. (I'se reverse side<br>inform in receaseary)         No. If answer is "yes." type of consolidation           If asswer is "no." list the owners and tract descriptions which have actually been consolidated. (I'se reverse side<br>increase are the well well unit all interests have been consolidated for the owner and be approved by the Communitization, unitization,<br>side of showner degrade to be well well.           Readarko         RECEIVED<br>NOV I 9 19979         Hereby certify ther the midemation or<br>the of sho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •.                           |                                        |                                         | Jitast                         | Chaves                                         |                           |
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| 4115-9       Queen       40       40         Outline the acreage dedicated to the subject well by colored pencil or backure marks on the platybelow.<br>RECEIVED       40       40         If more than one lease is dedicated to the well, outline each and identify the ownership thereof(Buth as to work interest and royalty).       JAN 14 1980         If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, antization, force-pooling, etc?       ARTESIA, OFFCE         Yee       No       If answer is "no?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if accessary.)         No, allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, uniti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nd Level Elev.               |                                        |                                         | 1001 1103                      |                                                |                           |
| Outline the acreage dedicated to the subject well by colored pencil of hackure marks on the platbelow.<br>RECEIVED<br>If more than one lease is dedicated to the well, outline each and identify the ownership thereoftboth us to work<br>interest and royalty).<br>If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consu-<br>dated by communitization, unitization, force-pooling, etc?<br>Yes No If answer is "yes," type of consolidation<br>If necessary.<br>No If answer is "res," type of consolidation<br>If necessary.<br>No, allowable will be assigned to the well until all interests have been consolidated (typ communitization, unitization<br>no, allowable will be assigned to the well until all interests have been consolidated (typ communitization, unitization<br>no, allowable will be assigned to the well until all interests have been consolidated (typ communitization, unitization<br>no, allowable will be assigned to the well until all interests have been consolidated (typ communitization, unitization<br>no, allowable will be assigned to the well until all interests have been consolidated (typ communitization, unitization<br>NoU'l 1 9 1979<br>If answer is "res," the the information to<br>be of on phone downless of the the information to<br>the of the information to<br>RECEIVED<br>NOU'l 1 9 1979<br>I. hereby certify ther the well focation<br>than an this plat was planed from for<br>the of court or was and the the set of the<br>well we court or who has a of the<br>the of court or was planed from for<br>the of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4118.9                       | Que                                    | en                                      | Caprock Queen                  | 00                                             |                           |
| If more than one lease is dedicated to the well, outline each and identify the ownership thereoff buth as to work interest and royalty).       JAN 14 1980         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?       ARTESIA, OFFICE         Yee       No       If answer is "yee," type of consolidation       ARTESIA, OFFICE         If answer is "not" list the owners and tract descriptions which have actually been consolidated (the reverse side this form if necessary.)       No       If answer is "not" list the owners and tract descriptions which have been consolidated (the communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approach by the Commission of the set of my howledge and ballet.         No       I Set of my howledge and ballet.         No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Outline th                   | e ecreace dedi                         | cated to the anhiest well               |                                |                                                | A.T.                      |
| dated by communitization, unitization, force-pooling, etc?       ARTESIA, OFFICE         Yes       No       If answer is "yes," type of consolidation         If answer is "no," list the owners and tract descriptions which have actually been consolidated. (I'se reverse side this form if necessary.)         No, ellowable 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 Communication or torned haven is true and complete to its? of my inswitedge and ballet.         NoV 1 9 1979       Its: SEED OBIGAL SURVED         NoV 1 9 1979       Jerry 1. Buckles         Prostore       ArtESIA, NEW MEXCO         Artesia, New MEXCO       Artesion its true and complete to its? of my inswitedge and ballet.         Wig HE: grow       Prostore         Wig HE: grow       Wig HE: grow         Wig HE: grow       Wig HE: grow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2. If more th<br>interest an | an one lease i<br>nd royalty).         | is dedicated to the well,               | outline each and identify      | RECEIVED<br>the ownership there<br>JAN 14 1980 | of (both as to work in    |
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| CERTIFICATION<br>RECEIVED<br>NOV 1 9 1979<br>U.S. GEOLOGICAL SURVEY<br>ARTESA, NEW MEXICO<br>I.M. 17594<br>I.M. 17                                                                                                                                                                                                                                                                                                                                                       | No.allowab<br>forced-pool    | le will be assig                       | med to the well until all in            | iterests have been cons        | olidated (by commun                            | itization unitization     |
| RECEIVED<br>NOV 1 9 1979<br>U.S. GEOLOGICAL SURVEY<br>ARTESSA, NEW MEXICO<br>I.M. 17594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              | ······································ |                                         | i<br>t                         | CE                                             | RTIFICATION               |
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| I.M. 17594<br>.M. 17597<br>.M. 17597<br>.M. 17597<br>.M. 17597<br>.M. 17597<br>.M. 17597                                                                                                                                                                                                                                                                                                                      | ,086                         | ţ.                                     |                                         | 1                              |                                                | 1                         |
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| M. 17594       Anadarko Production         Date       October 19, 1979         I hernby certify that the well facatili shown on this plat was platted from free notes of actual surveys made by me under my supervision, and that the sar under my supervision, and that the sar is true and carrect to the best of m knowledge and belief.         OCTANNEL       OCTANNEL         OCTANNEL       Date Surveyed         OCTANNEL       October 15, 1979         HERSCHEL       October 15, 1979         HERSCHEL       October 15, 1979         Herstered Professional Engineer and/or Land Surveyor       October 16, 1979         Will Hom and Correct for the base of m down and the surveyor       October 15, 1979                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                        |                                         |                                |                                                | upervisor                 |
| Me 17294<br>2<br>1 hereby certify that the well location<br>shown on this plat was plotted from free<br>notes of actual surveys mode by me<br>under my supervision, and that the son<br>is true and correct to the best of m<br>knowledge and belief.<br>Date Surveyed<br>October 15, 1979<br>Registered Professional Engineer<br>and/or Land Surveyor<br>Stat Monard Area<br>Stat Monard Ar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60'-                         |                                        |                                         | 1                              |                                                | lea Durit i traini        |
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| under my supervision, and that the sam<br>is true and correct to the best of m<br>knowledge and belief.<br>Date Surveyed<br>HERSCHEL<br>HERSCHEL<br>UNES<br>UCCI MULTING 3640<br>Registered Professional Engineer<br>and/or Land Surveyor<br>Star Montaves (Strue)<br>Star Montaves                                                                                                                                                                                                                                                                                                                                                                                                                |                              | 1                                      |                                         | 1                              |                                                | • • • • • • • • • • • • • |
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Anadarko Production Company 100% Working Interest

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OIL CONSERVATION DIV.

This Data Sheet is provided as a Supplement to our "Application for Permit to Drill" - Friend Federal Well #1.

1. Location: 1980' FNL & 660' FWL Sec. 21, T13S, R31E, Chaves County, New Mexico

2700'

- 2. Elevation: 4118.9 GL
- 3. Geological Name of Surface Formation: Recent (Quatenary)
- 4. Type of Drilling Tools to be Utilized: Rotary
- 5. Proposed Drilling Depth:
- 6. Tops of Important Geological <sup>Parkers:</sup> Anhydrite 870' Salt - Top 965' Salt - Bottom 1540' Yates 1900' Queen 2575'
- 7. Estimated Depths of Anticipated Water, Oil or Gas: 2575' to 2675'
- 8. <u>Casing Program</u>: 8-5/8", 24#, K-55, ST&C @ 350' (New) 4-1/2", 10.5#, K-55, ST&C @ 2700' (New)
- 9. Setting Depth of Casing & Amount & Type of Cement:

8-5/8" @ 350' cemented with 250 sx Class C w/2% CaCL 4-1/2" @ 2700' cemented w/250 sx Class C w/6 # salt/sx & 2% gel

- 10. Specifications for Pressure Control Equipment: BOP will consist of Shaffer Type E 10" Series 900 BOP with 4" Blind Rams, kill line and choke manifold, Koomey Hydraulic Controls and accumulator with remote controls. When nippling up, test BOP and Choke Manifold to 1500 psi. Operate BOP equipment once a day, or as directed by Company Representative.
- 11. <u>Mud System</u>: Drill with Native Mud to 2200'. Add Zeogel to increase viscosity to 34 sec; add Drispac to lower water loss to 8 - 12 cc; do not control weight (anticipated weight = 9.4#/gal.)
- 12. Testing, Logging & Coring Program:
  - A. Testing: Possible DST in Queen Sands 2575' 2675'
  - B. Coring: Will core Queen Sands 2575' 2675'
  - C. Logging: Run Dual Laterolog & Compensated Neutron-Density Log in Open Hole ( T. D.
- 13. Potential Hazards: None are expected. Gas might be encountered in Queen Sands while coring; above described BOP should take care of any blowout problems. Numerous wells have been drilled in this area without problems.
- 14. Anticipated Starting Date & Duration: Construction of drillsite pad is planned during December, 1979. The spud date will be approximately Dec. 15, 1979. Approximately six days will be required to complete the drilling operations. Another 30 days will be required for completion work.
- 15. Other Facets: None

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Anadarko PRODUCTION COMPANY

Panhandle Eastern Company

P. O. Box 67 • Loco Hills, New Mexico 88255 • (505) 677-2411

October 15, 1979

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United States Geological Survey P. O. Drawer U Artesia, New Mexico 88210

NOV 1 9 1979

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

Gentlemen:

Following is the "Surface Use and Operation Plan" for the drilling of the Friend Federal #1 well for Anadarko.

This well is located 1980' FNL & 660' FWL Sec. 21, T13S, R31E, Chaves County, New Mexico.

1. <u>Existing Roads</u> - A samll scale map is attached (Exhibit #1). It shows the location of this well in relation to Maljamar, New Mexico Townsite. A larger scale map (Exhibit #2) shows State Highway #172 in blue. The existing caliche lease roads are shown in orange.

2. <u>Planned Access Road</u> - Only a short access road will be needed since an existing caliche road is located nearby. This proposed road is shown in green on Exhibit #2.

3. Location of Existing Wells - Existing wells are shown on enclosed map (Exhibit #2). No exploratory wells are being drilled within a two mile radius:

4. Location of Tank Batteries, Production Facilities and Lines - Exhibit #3 is a plat showing the proposed location of production facilities. The production facilities will be located on the drillsite pad.

5. Location and Type of Water Supply - The fresh water source is approximately 8 miles Southeast of location and consists of Ogallala formation fresh water. This water will be trucked to location as needed from an existing pipeline.

6. Source of Construction Material - Source of Caliche will probably be an existing Federal caliche pit located in Sec. 5 - approximately 3 miles South of this drilling site. This pit is shown on Exhibit #2 in green. Otherwise, we will seek permission to open a temporary pit at this new wellsite location which will then be immediately reclosed.

7. <u>Methods for Handling Waste Disposal</u> - The enclised drillsite plat (Exhibit #4) indicates location of reserve and rubbish pits. After sufficient time has elapsed to allow drilling fluids to dry, this pit will be closed and leveled.

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8. Ancillary Facilities - There are no camps or airstrip. planned.

9. <u>Well Site Layout</u> - Well site (Exhibit #4) has been staked and is indicated by red area on enclosed may (Exhibit #1). Drilling site is a sandy area covered by sparse native vegetation. Drilling pad will be leveled and only a minimum amount of caliche will be used initially when the well is drilled. Later, if a productive well is obtained, additional caliche will be added to support travel during all weather conditions.

Drilling site will essentially blend with the relatively flat terrain.

Cross-section of drillsite pad is shown below:



10. Plans for Restoration of Surface - Commercial Well:

<u>Re-shaped Topography</u> - Rubbish will be buried upon completion of well. All future trash will be removed by the individual generating same.

<u>Caliche Pad</u> - Caliche drilling pad will be essentially only a scrapeout until commercial production is established. Then it will be improved and consist of a total of 6" of caliche. This pad will remain intact until the well is abandoned. Road - This road will initially be scraped out and then improved with addit-

ional caliche only if commercial production is established. Timetable - The well should produce for several years.

Plans for Restoration of Surface - Plugged & Abandoned Well:

Surface damage will be kept to a minimum. The existing caliche road will require little or no repairs. The new road and location can be scraped off and a small amount of caliche used only where necessary. This road and location can easily be ripped up after the well is plugged.

11. Other Information - Topography is generally flat, surrounded by small sand dunes. Soil Characteristics - Unconsolidated sand. Flora - Sparse grass and weeds. Fauna - Rabbits, rats, micé, birds and snakes. Other Surface Use Activities - Leased grazing land. Surface Ownership - Federal land. Water Wells - None. Lakes, Streams and Ponds - None. Dwellings - A ranchhouse is located approximately 3 miles Southeast of this location. Other Faéilities - None. Archaeological Sites - None - Cleared by New Mexico Archaeological Services, Inc. Historical Sites - None. Cultural Sites - None.

12. Operator's Representative - Ozie W. Farris, Field Foreman for Anadarko - Office Phone - 677-2411 - Home Phone - 677-3230

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