



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 107  
Roswell, New Mexico 88240

May 13, 1974

Anadarko Production Company  
P. O. Box 247  
Hobbs, New Mexico 88240

Gentlemen:

Your Application for Permit to Re-Enter well No. 1 Teas Yates Unit Tract No. 15 in the ~~NE 1/4~~ sec. 14, T. 20 S., R. 33 E., Lea County, New Mexico, lease ~~MM~~ 12744, to a depth of 3,517 feet for completion in the Yates formation in the Potash Area is hereby approved.

One copy of the application is returned herewith. Please notify the District Engineer, Geological Survey, Hobbs, New Mexico, in sufficient time for a representative to witness all cementing operations. The Hobbs office telephone number is (505) 393-3612.

Sincerely yours,

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

Enclosure

cc: Regional Manager, Denver  
Area Mining Supervisor (2)  
NMOCC-Hobbs (2) (w/2 cys. Notice) ✓  
Hobbs  
Roswell (2)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 Re-entry    DEEPEN     PLUG BACK

b. TYPE OF WELL  
OIL WELL     GAS WELL     OTHER  Water Input    SINGLE ZONE     MULTIPLE ZONE

2. NAME OF OPERATOR  
**Anadarko Production Company (See Note 1)**

3. ADDRESS OF OPERATOR  
**P. O. Box 247, Hobbs, New Mexico 88240**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
**1980' FSL & 660' FEL**  
At proposed prod. zone  
**Same as above**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**30 miles SW of Hobbs, New Mexico**

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
**660'**

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**1770'**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**3601**

5. LEASE DESIGNATION AND SERIAL NO.  
**NM-12744**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**Teas Yates Unit**

8. FARM OR LEASE NAME  
**Tract No. 15**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Teas Yates**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**14-T20S-R33E**

12. COUNTY OR PARISH    13. STATE  
**Lea    N. Mexico**

16. NO. OF ACRES IN LEASE  
**1160**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**40**

19. PROPOSED DEPTH  
**To old TD 3517'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

22. APPROX. DATE WORK WILL START\*  
**5/15/74**

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-5/8"	7"	20#	1000'	150% excess-circulate to surf. Circulate to surface
6-1/4"	4 1/2"	10.5#	3517'	

See Attached Prognosis.

Note 1 - Formerly Spartan Drilling Co. Federal No. 1

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

24. SIGNED [Signature] TITLE Div. Eval. Engr. DATE 4/18/74

(This space for Federal or State office use)

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

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

CONDITIONS OF APPROVAL, IF ANY:

## Instructions

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

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

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

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

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

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

ANADARKO PRODUCTION COMPANY  
DRILLING PROGNOSIS

HOUSTON DIVISION

SOUTHERN REGION

Lease: Teas Yates Unit

Well No. 15-1

Field: Teas Yates

State: New Mexico

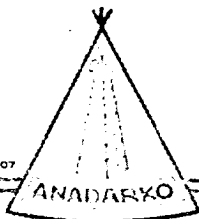
Location: 1980' FSL & 660' FEL Section 14-T20S-R33E, Lea County,  
New Mexico

RE-ENTRY AND COMPLETION PROGRAM

1. Pull marker.
2. Rig up well servicing unit and reverse circulation equipment.
3. Clean out with 9-5/8" bit to surface casing point approximately 1000'. Mud will be salt saturated to prevent hole enlargement.
4. Run approximately 1000' of 7" 20# casing. Cement with 50% excess to bring cement to ground level. Cement will be mixed using salt saturated water and shall contain 1% CaCl.
5. Casing and water shut off tests shall be made with water before and after drilling the plug. Cement will stand 12 hours with pressure and 24 hours before drilling the plug. Hydraulic pressure of 600 psi will be applied. If a drop of 100 psi or more occurs within 30 minutes, corrective measures will be applied.
6. Install and nipple up double ram BOP before drilling the plug on surface casing. Test BOP to 1500 psi.
7. Clean out to TD of 3517', using 6¼" bit. Run Gamma Ray Compensated Neutron log and caliper.
8. Run 3517' of 4½" 10.5# J-55 casing. Casing will be bond coated through the pay section. Cement with adequate volume of casing to bring cement to the surface. Cement will be mixed using salt saturated water and shall contain 1% CaCl.

9. Casing and water shut off tests shall be made after 24 hours of setting time. Hydraulic pressure of 1000 psi will be applied. If a drop of 100 psi or more occurs within 30 minutes, corrective measures will be applied.
10. Perforate as required and break down perfs with a minimum volume of acid.
11. Run 3300' of 2-3/8" salta PVC lined tubing with tension packer. Connect up injection wellhead. Place well on injection.

GENERAL OFFICE  
P. O. BOX 9317  
FORT WORTH, TEXAS 76107



**A N A D A R K O   P R O D U C T I O N   C O M P A N Y**  
TWO GREENWAY PLAZA EAST, SUITE 410, HOUSTON, TEXAS 77046, (713) 626-7610

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April 18, 1974

United States Geological Survey  
P. O. Box 1157  
Hobbs, New Mexico 88240

Gentlemen:

Following is the "Plan of Development" for the re-entry and completion of the Anadarko Production Company Teas Yates Unit Tract 3 Well No. 4, located 990' FNL and 1650' FEL of Section 13, Township 20 South, Range 33 East, Lea County, New Mexico.

1. Existing Roads - The existing lease roads and U.S. Highway No. 180 are indicated on the attached plat. Points of entrance to the lease from U.S. No. 180 are also indicated.
2. Planned Access Roads - Existing roads will be repaired and used.
3. Well Locations - All well locations are indicated on the attached plat.
4. Lateral Roads to Location - Road information is covered in No. 1 and 2 above.
5. Tank Battery and Flow Lines - Water distribution lines will connect to a main trunk line approximately 1300' South of the well, and will be 2" fiberglass pipe capable of withstanding available injection pressure.
6. Location and Type of Water Supply - All water necessary for the drilling operations will be hauled to the location by truck transport.
7. Method of Handling Waste Disposal - All wastes including cuttings, garbage and trash will be disposed of by burying.

8. Location of Camps - No camps are planned.
9. Location of Airstrips - No airstrips are planned.
10. Drilling Rig Layout - A workover rig with reversing unit will be used. No pits are contemplated.
11. Plans for Restoration of Surface - Any land surface disturbed will be leveled. Other requirements of U.S.G.S. and N.M.O.C.C. will be complied with.
12. Other Information - The proposed well is in a developed oil field. Other wells in this area are responding to an active waterflood. The proposed location is in an area of very sandy grazing land.

Your approval of this application will serve to help provide additional oil for energy at a time when our energy supply is short.

Yours very truly,

M. F. Nelson  
Area Supervisor

MFN/aw





NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

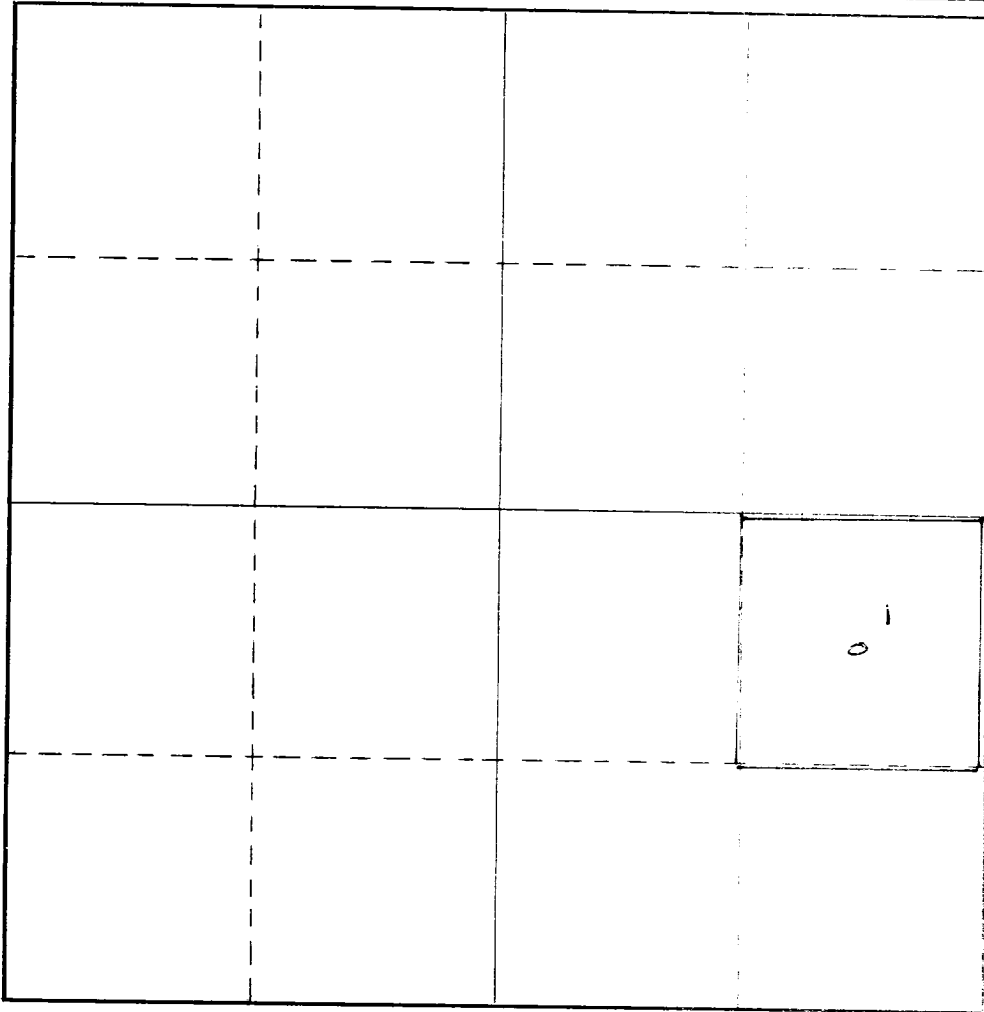
All distances must be from the outer boundaries of the Section.

Operator <b>Anadarko Production Company</b>			Lease <b>Teas Yates Tr. 15</b>		Well No. <b>1</b>
Unit Letter <b>I</b>	Section <b>14</b>	Township <b>20S</b>	Range <b>33E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>South</b> line and <b>660</b> feet from the <b>East</b> line					
Ground Level Elev. <b>3601' DF</b>	Producing Formation <b>Yates</b>		Pool <b>Teas Yates</b>		Dedicated Acreage: <b>40</b> Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  
 Yes    No   If answer is "yes," type of consolidation \_\_\_\_\_

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

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



CERTIFICATION

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

Name  
*[Signature]*

Position  
**Area Supervisor**

Company  
**Anadarko Production Co.**

Date  
**May 6, 1974**

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

Date Surveyed \_\_\_\_\_

Registered Professional Engineer and/or Land Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_

