



# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
ROSWELL DISTRICT OFFICE  
P.O. BOX 1397  
ROSWELL, NEW MEXICO 88201

101-35612  
3152.41 (065)

**MAR 16 1968**

Anadarko Petroleum Corporation  
P. O. Box 806  
Tulsa, OK 74201

Dear Sir:

Your application for Permit to Drill the Folewski Federal No. 2 well in the NE1/4NW1, sec. 31, T. 19 S., R. 32 E., Lea County, New Mexico, lease NM-35612, to a depth of 7000 feet to test the Delaware formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the Bureau of Land Management office checked on the attached special stipulations, in sufficient time for a representative to witness all cementing operations.

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those right in the subject lease which would entitle the applicant to conduct operations thereon.

Sincerely,

**Orig. Sgd. Francis R. Cherry, Jr.**

Francis R. Cherry, Jr.  
District Manager

Enclosure

cc:  
BMOCL - Hobbs - 2  
NM (067) - 1  
NM (067A) - 1  
NM (065) - 1

MAR 16 1988

2000 1000 1000 1000 1000

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Anadarko Petroleum Corporation

## 3. ADDRESS OF OPERATOR

P.O. Box 806 Eunice, New Mexico 88231

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface, ~~560'~~ FNL & 1980' FWL

Sec 31, T 19S, R 32E

At proposed prod. zone

610' ~~560'~~ FNL & 1980' FWL, Sec 31, T 19S, R 32E

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

610'

~~560'~~ FNL

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

## 16. NO. OF ACRES IN LEASE

320.81

## 19. PROPOSED DEPTH

7300' TVD

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DP, RT, GR, etc.)

3522.6' GR

## 22. APPROX. DATE WORK WILL START\*

March 15, 1988

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13 3/8"	48#	900'	Circulate
12½"	8 5/8"	24# & 28#	4400'	Tie back in 13 3/8" CIRCULATE
7 7/8"	5 1/2"	15.5#	7300'	Tie back in 8 5/8" csg 200' to 4200'

1. Rig up rotary tools, drill 17½" hole to 900'.
2. Run 900' of 13 3/8" csg. ~~Circulate cement.~~
3. Nipple up & set BOP.
4. Drill 12½" hole to 4400'.
5. Run 8 5/8" 24# csg to 2000' & 28# csg from 2000' to 4400' [CIRCULATE].
6. Drill 7 7/8" to 7300'.
7. Run 7300' of 5½" csg. Cement w/ enough cement to tie back in 200' to next size larger csg.

CONTINUED ON NEXT PAGE.

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

TITLE Area Supervisor

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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8. Complete as oil producer.
9. POP
10. Mud System

0' - 1100' Native fresh water mud  
1100' - 2700' Cut brine to control hole size in salt section  
Weight 10.0#/gal.  
2700' - 6000' Fresh water & paper for seepage.  
6000' - 7300' TD Fresh water gel (weight 8.6# gal)  
Paper to control seepage.

11. Testing & Logging Program

Testing - No DST's will be ran  
Logging - (Wireline) Cased hole GR-Compensated Neutron Log  
will be ran.

12. Potential Hazards - No above normal pressures are expected & none have been seen on wells which were drilled around above mentioned well. Any lost circulation problem should be eliminated by use of paper or other lost circulation materials. Any gas kick should be able to be contained by increasing mud weight.
13. Anticipated Starting Date and Duration - With approval of permit application, construction on drilling site pad could commence as of March 15 - April 15, 1988, with spud date to follow from 3 - 10 days later. TD depth should be reached in 10-12 days drilling time.

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HONORARY OFFICE**

Supervises the

1. *Chlorophyll a* and *Chlorophyll b* contents were determined by spectrophotometry using the method of Lichtenthaler and Whistler (1987). The absorbance of the chlorophyll extracts was measured at 663 nm and 646 nm. The concentrations of chlorophyll *a* and chlorophyll *b* were calculated using the following equations:

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

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (See 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.



TERMINATION

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

John C. England

John C. English

Area Supervisor

Anadarko Petroleum Corp

February 16, 1988

I hereby certify that the well located shown on this plat was plotted from field notes or 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.

100

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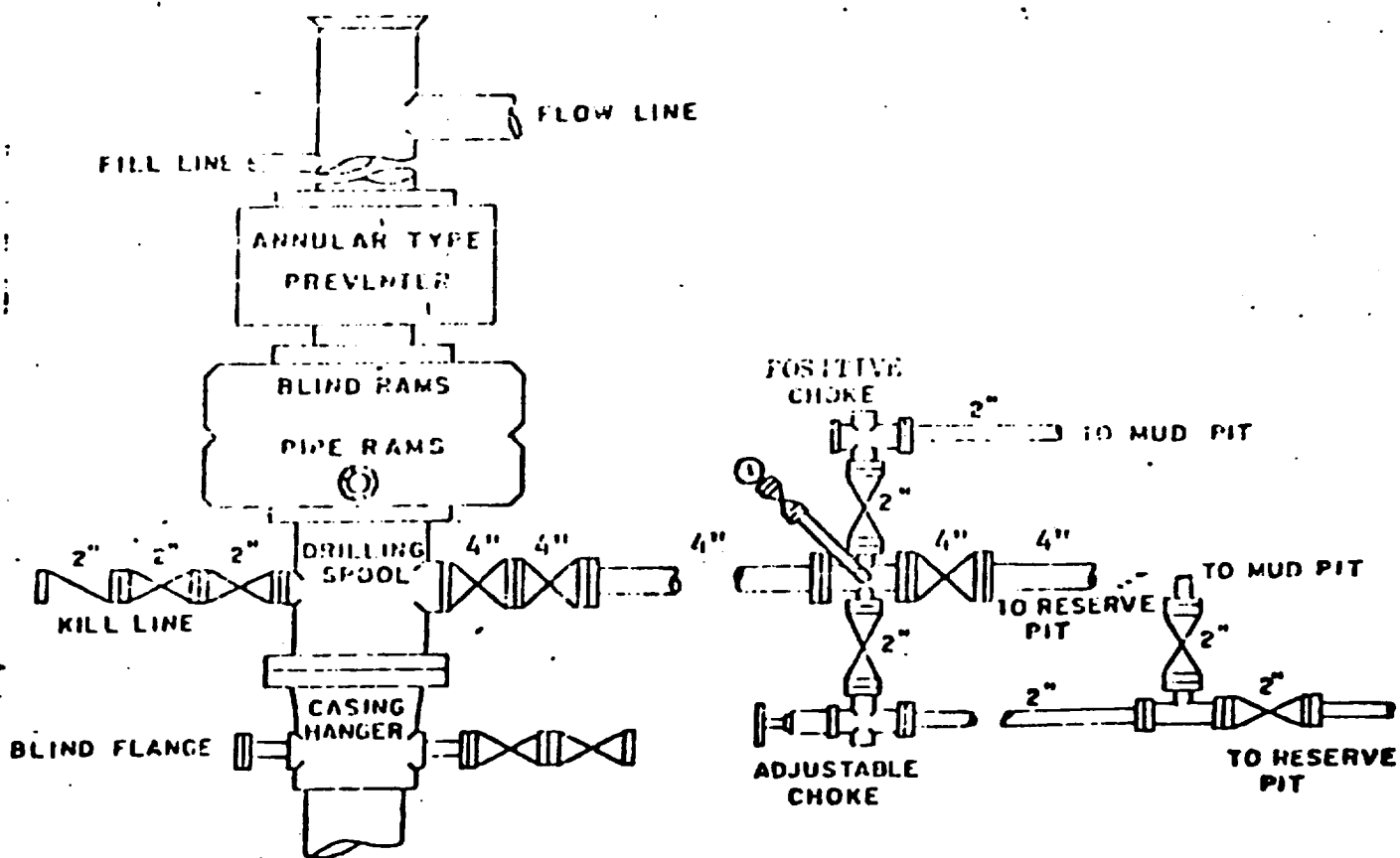
$$f(x) = \frac{1}{2} \left( \frac{1}{x} + \frac{1}{x^2} \right) = \frac{1}{2} \left( x^{-1} + x^{-2} \right) \quad \text{for } x \neq 0$$

02 1 2 3 4 5 6 7 8 9 10 11 12

*[Signature]*

Certificate No	JOHN W WEST	678
	RONALD W BOSCH	323

3000 lb. WP BOP  
 12" Shaffer Type B Hydraulic BOP 5000 PSI  
 10" GK Hydrill 3000 WP  
 80 Gallon - 5 Station Keeney Accumulator  
 3000 lb. WP Choke Manifold





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