

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

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

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

At surface

840'N, 735'E

At proposed prod. zone

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)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5900'

20. ROTARY OR CABLE TOOLS

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

6141'GL

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24.0#J-55	562'	350 sks. - surface
7 5/8"	5 1/2"	17.0#N-80	7898'	150 sks. - 1st stage
				200 sks. - 2nd stage

This well was originally completed in the Dakota formation and has been non-productive since 1971. It is therefore, intended to:

Move on rig and run logs to determine mechanical condition to see if well can be plugged back to the Mesa Verde formation. If the condition is satisfactory, plug back will be accomplished in the following manner -

Squeeze cement through Dakota perforations below a cement retainer and leaving 200' cement plug on top of the retainer.

Set 200' cement plug across top of the Mancos formation - PBTD will be 5900'.

The workover will then proceed, depending on the outcome of the logs in one of three alternatives -

- (1) Repair existing casing by squeeze cementing.
- (2) Run a new string of casing inside existing casing which will be cemented the full length of the casing string.
- (3) If mechanical conditions warrant plugging of the well will be accomplished in the (over)

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

A. G. Lises

TITLE

Drilling Clerk

DATE

October 26, 1977

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OCT 27 1977

*See Instructions On Reverse Side

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.

following manner:

Spot 200' cement plug across top of the Mesa Verde formation.

Perforate squeeze holes at the base of the Pictured Cliffs formation and pressure displace cement through squeeze holes leaving a 200' cement plug inside the casing.

Perforate squeeze holes at the base of the Ojo Alamo formation, spot cement and pressure displace cement through squeeze holes leaving 200' cement plug inside casing.

Perforate squeeze holes at 1000', spot a cement plug, pressure displace cement through squeeze holes leaving 200' cement plug inside casing.

Perforate squeeze holes at 650', spot cement plug, pressure displace cement through squeeze holes leaving 200' cement plug inside casing.

Place cement plug at the surface, install dry hole marker, clean location.

In either of Alternate No.'s 1 or 2, Mesa Verde pay zone will be selectively perforated and sandwater fractures.