

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
 Box 289, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1290'S, 1340'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 WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6365' DF

22. APPROX. DATE WORK WILL START*

5. LEASE DESIGNATION AND SERIAL NO
 NM 04266 04226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 McManus

9. WELL NO.
 4

10. FIELD AND POOL, OR WILDCAT
 Blanco Pictured Cliffs

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 Sec. 19, T-26-N, R-8-W
 N. M. P. M.

12. COUNTY OR PARISH | 13. STATE
 San Juan | New Mexico

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	23.0#	99'	75 sx, circ. surface
7 7/8"	5 1/2"	14.0#	2060'	100 sx, calc. cmt. top @ 1380'
open hole section			2060-2149'	-----

This well is presently completed in the Pictured Cliffs formation at a total depth of 2149'. It is now intended to plug the PC because of non-commercial production and complete the Fruitland formation in the following manner:

Pull tubing. Set cement retainer at 2040' and squeeze off PC with cement. Top of PC @ 2060'. Pressure test 5 1/2" casing to 3500 psi.

Case #1: If press test holds; selectively perforate and sand water frac the Fruitland formation from 1930-42', 1968-78' and 1995-2008'. Cleanout and run a new string of 1 1/4" tubing.

Case #2: If press test fails; run a full string of 2 7/8" casing @ approximately 2040' and cement with sufficient volume to circulate cement to surface. WOC 18 hours. Selectively perforate and sand water frac the Fruitland formation as in Case #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.

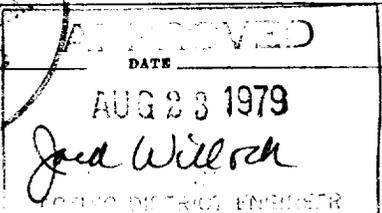
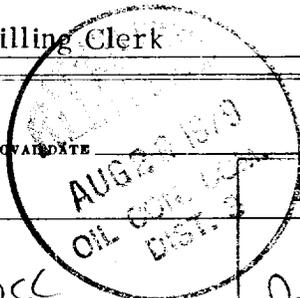
24. SIGNED [Signature] TITLE Drilling Clerk DATE July 31, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

deal