

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

PETROLEUM DEVELOPMENT CORPORATION

3. ADDRESS OF OPERATOR

9720 B Candelaria NE, Albuquerque, New Mexico

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

At surface

1730' from the west line, 1850' from the north line; Sec. 10,
T19S, R32E.

At proposed prod. zone

Same

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

11 miles south of Maljamar, New Mexico

15. DISTANCE FROM PROPOSED*

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

18. DISTANCE FROM PROPOSED LOCATION*

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

none

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

13,100'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

20. ROTARY OR CABLE TOOLS

Rotary

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

3658 G. L.

22. APPROX. DATE WORK WILL START*

October 15, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
28"	20"	conductor	40'	5 yds. concrete
17-1/2"	13-3/8"	54.5#	400'	450 sx.
11"	8-5/8"	32# & 24#	4200'	2100 c.f.
7-7/8"	5 1/2"	17# & 20#	13,100'	700 sx.

Set 13-3/8" casing at approximately 400'; circulate cement to surface. WOC 8 hrs. Test BOP and surface casing to 500# for 30 min. before drilling out. Drill 11" hole to approximately 4200'; set and cement 8-5/8" intermed. casing, bringing top of cement at least back to base of surface casing. WOC 12 hrs. Test 8-5/8" casing and BOP to 3000#. Drill 7-7/8" hole to 13,100', testing all significant shows of oil or gas. Set 5-1/2" casing at approximately 13,100'. See attached mud program. Complete by jet perforating indicated pay intervals and acidizing or fracturing, as need is indicated.

A J500-Series BOP and Hydrill with remote controls will be used. A rotating drilling head, PVT and flow sensors will be used for drilling Wolfcamp and below. See attached supplemental multi-point drilling plan; mud program, Exhibit "E". See attached preventer layout, Exhibit "D".

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on new 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

Vice President

DATE

9/16/77

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL:

Unless Drilling Operations have
Commenced, this drilling approval
Expires 1-21-78

*See Instructions On Reverse Side

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING

APPROVED
AS AMENDED
OCT 21 1977
ARTHUR R. BROWN
DISTRICT ENGINEER

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