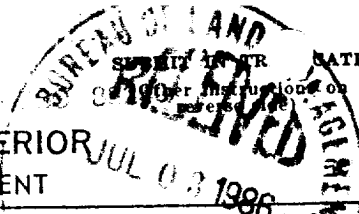


**COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

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 reentry ☐

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

MURPHY OPERATING CORPORATION

3. ADDRESS OF OPERATOR

P. O. Drawer 2648, Roswell, New Mexico 88202-2648

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

At surface

1980' FNL and 1980' FEL

At proposed prod. zone

same as above

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

14 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)

660'

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*

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

none

19. PROPOSED DEPTH

10,652'

20. ROTARY OR CABLE TOOLS

rotary

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

3631 G.R.

22. APPROX. DATE WORK WILL START\*

August 1, 1986

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	406'	300 sx. Class "H"
11"	8-5/8"	24# & 32#	4370'	1150 sxs. B-J lite & 250 sxs. Class "C"
7-7/8"	new 4-1/2"	11.6#	5050'	amt. necessary to bring TOC 200' into 8-5/8" casing.
7-7/8"	existing 4-1/2"	11.6# & 13.5#	5050'-13650'	910 sx. Class "H" TOC 9540'

This well was originally drilled to a total depth of 13,650' in November, December 1980 and January 1981 by Petroleum Development Corporation. The well was plugged in December 1982. It is proposed that the well be reentered and cement plugs, as outlined and shown on Exhibits "E" and "F" respectively, will be drilled to the top of the cement above the CIBP which is set at 10,652'. Approximately 5050' of 4-1/2" will be tied into the top of the existing 4-1/2" casing at approximately 5050'. A cement squeeze with amounts sufficient to bring the top of the cement at least 200' into the 8-5/8" casing will be performed. An additional cement squeeze will be performed to isolate the Bone Spring Sandstone from approximately 8500'-9540'. The pay zone(s) will be selectively perforated and stimulated for optimum production. Attached are:

- 1) Well Location and Acreage Dedication Plat
- 2) Supplemental Drilling Data
- 3) Surface Use Plan

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

Mark B. Murphy

TITLE President

DATE July 1, 1986

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Orig: Sgd: Charles S. P.

APPROVED BY

TITLE

DATE

7-17-86

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

\*See Instructions On Reverse Side

7909

RECEIVED  
JUL 21 1986  
GPO  
MAILS BRANCH