

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 ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-045288
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
2. NAME OF OPERATOR Allen K. Trobaugh		7. UNIT AGREEMENT NAME Comm # SW-491
3. ADDRESS OF OPERATOR 509 First Nat'l Bank Bldg., Midland, Texas 79701		8. FARM OR LEASE NAME Mallard-Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2086' FSL & 554' FEL of Section 33 At proposed prod. zone Same		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 Mi. west of Crossroads, New Mexico		10. FIELD AND POOL, OR WILDCAT Vada Penn
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 554'		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 33, T-9-S, R-34-E, N.M.P.M.
16. NO. OF ACRES IN LEASE 40		12. COUNTY OR PARISH Lea
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE New Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		19. PROPOSED DEPTH 10,000
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* February 1, 1970
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 4238 GR		
23. PROPOSED CASING AND CEMENTING PROGRAM		

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17	13-3/8"	54	400	400
11	8-5/8"	24, 28 & 32	4,000	350
7-7/8	4 1/2 or 5 1/2	11.60 or 17	10,000	350

After penetrating "Bough C" formation: Drill Stem Test "Bough C", run Gamma Ray-Acoustic logs to total depth. If commercial production is indicated, cement casing at total depth. Perforate Bough C zone and acidize with approximately 3,000 gallons and complete. If non-commercial, plug and abandon.

Shaffer Double BOP to be installed after cementing surface casing through completion.

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 Allen K. Trobaugh TITLE Operator DATE 1-20-70

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
JAN 23 1970
ARTHUR R. BROWN

*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.