

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

DUGAN PRODUCTION CORP.

3. ADDRESS OF OPERATOR

P O Box 208, Farmington, NM 87401

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

1980' FNL - 1980' FWL

At proposed prod. zone

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

12 miles north of Shiprock, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1980'

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. $\pm \frac{1}{4}$  mile

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

5434' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 8-3/4"       | 7"             | 20#             | 60'           | 12 sx              |
| 6-1/4"       | 4 1/2"         | 10.5#           | 1150'         | 50 sx              |

Plan to drill well with air to test the Gallup Formation.

In productive, plan to set 4 1/2" casing, selectively perforate, sand oil frac,  
clean out after frac, run 2-3/8" tbg. and rods, put well on production.Plan to use Regan hydraulic bag type BOP while drilling, plan to use master  
valve while completing well.

GAS NOT DEDICATED

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hogan

9. WELL NO.

51

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREAF  
Sec 32 T32N R17W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

OFFICE\*  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

16. NO. OF ACRES IN LEASE

2228.2

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

19. PROPOSED DEPTH

1200'

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START\*

ASAP

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

Jerry McHugh

TITLE

Well Site Coordinator

DATE 5-12-82

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED  
AS AMENDED

JUN 18 1982

JAMES F. SIMS  
DISTRICT ENGINEER

NMOCC