

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SUNDRY

NOTICE

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

HIXON DEVELOPMENT COMPANY

3. ADDRESS OF OPERATOR % Earth Sciences Company

510 Bank of the Southwest, Amarillo, Texas 79109

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

At surface

660' FNL 660' FEL Sec. 17

At proposed prod. zone

Lower Gallup

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

23 miles south of Farmington, New Mexico

16. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

660'

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

2310'

16. NO. OF ACRES IN LEASE

280

19. PROPOSED DEPTH

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

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

6240 DF 6228 GR

22. APPROX. DATE WORK WILL START*

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 6 1/2" | 7" | 20-23 1/2 | 4915 | 175 sacks |
| | | | | |
| | | | | |

This well was drilled from depth of 4943' to depth of 5950' drilling a 6 1/2" hole. Schlumberger electric logs were run to a depth of 5948' and the top of Dakota sand was logged at 5938'. The 4 1/2" 9.57 casing was set at 5948' and cemented 110 sacks. Perforated 5772' to 5777' and from 5755' to 5768' and acidized with 1000 gallons 15% acid. Recovered by swabbing 5 to 8 barrels water per hour with no gas. Set bridging plug at 5710' and perforated casing from 5683' to 5694' and from 5660' to 5667'. From these perforations swabbed dry with no show of gas. Perforated 5639' to 5643' and after perforating still no show of gas. Acidized 1000 gallons 7 1/2 acid and from these three perforated sections swabbed water at the rate of 15 to 18 barrels per hour with only a vapor of gas. Set bridging plug at 5653' and ran tubing setting packer at 5615' and tested perforated zone from 5639' to 5643'. After acidizing with 500 gallons swabbed water at the rate of 14 to 15 barrels per hour. Placed 25 sack cement plug from 5653' to 5441'. Cut off 4 1/2" casing at 4720' and pulled. Plan to attempt to put well back on production again from the Lower Gallup formation.

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

TITLE

Geologist

DATE

11/5/74

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

NOV 15 1974

*See Instructions On Reverse Side