

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AUG 17 1979

30-015-20561

5. LEASE DESIGNATION AND SERIAL NO.

NM-3854

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

W. G. Smith Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Rock Tank ^{upper} Lower Morrow11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

13-23S-24E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☐ARTESIAN ☐

D.C.E.

PLUG BACK ☒

b. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐2. NAME OF OPERATOR **ARCO Oil and Gas Company**
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

Box 1710, Hobbs, New Mexico 88240

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

At surface

1650' FNL & 1650' FEL (Unit letter G)

At proposed prod. zone

as above

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

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*

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

19. PROPOSED DEPTH plugback

10,290'

20. ROTARY OR CABLE TOOLS

completion rig

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

3856' GR

22. APPROX. DATE WORK WILL START*

8/20/79

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---------------|----------------|-----------------|---------------|------------------------|
| 12 1/4" & 11" | 8-5/8" OD | 24# | 2498.25' | 1600 sx (circ to surf) |
| 7-7/8" | 5 1/2" OD | 20# | 10449.36' | 500 sx (TOC @ 7440') |

Propose to plug back & complete in the Upper Morrow and if unsuccessful attempt completion in the Strawn in the following manner:

1. Rig up, install BOP.
2. Perforate 9849-10,167' w/40 holes (Upper Morrow).
3. Treat perms w/4000 gals 7 1/2% MS acid w/500 SCF/bbl N₂.
4. Swab test for production. If unproductive in Upper Morrow, RIH w/cmt retr, set retr @ 9780', squeeze cmt perms 9849-10,167' w/100 sx LWL cmt followed by 50 sx Cl C cmt w/ 2% CaCl.
5. Perforate Strawn 8928-8938' w/1 JSPF. Treat perms w/1000 gals 7 1/2% MS acid w/500 SCF/bbl N₂. Swab test.

*Correction - name change
of lease*

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

John L. ...

TITLE

Dist. Drlg. Supt.

DATE

8/15/79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: