

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

Mesa Petroleum Co.

3. ADDRESS OF OPERATOR

1000 Vaughn Bldg. / Midland, TX 79701

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

At surface

1980' FNL & 1980' FWL

At proposed prod. zone

Same

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

Approx. 11 1/2 miles east and south of Lake Arthur, New Mexico

15. DISTANCE FROM PROPOSED*

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

1980'

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

N/A

16. NO. OF ACRES IN LEASE

920

19. PROPOSED DEPTH

8160'

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

3592.2 GR / 3609 RKB

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

The Wells Federal #1 has depleted the Atoka formation after producing a cumulative of only 2,054 BO and 119 MMCF. Therefore, it is proposed to recomplete the well to the Strawn or Wolfcamp Bursum formation. Propose to set CIBP @ 8400'± and dump 50' of cmt on top of CIBP. Perf two holes at 7300', go in hole w/EZ drill cmt retainer to perfed holes at 7300'. Spot 100 gals 15% HCL acid over holes. Pull retainer to 7200' and set. Break circ out 4-1/2 & 8-5/8" annulus. Cmt w/250 sx Halliburton Lite w/18% Salt, 4#/sk gilsonite, 1/4#/sk flocele, followed by 200 sx Class "C" w/18% salt. Run EZ drill cement retainer to 4200'±. Set retainer & break circ out 8-5/8" csg. Cmt through holes 4590-5100' w/200 gals mud flush followed by 900 sx Halliburton Lite w/18% salt, 4#/sk gilsonite & 1/4#/sk flocele + 150 sx Class "C" w/.6% Halad 9 & 2% CaCl. Run temperature survey. Drill cmt retainer at 4200' and cmt below & test csg to 500 psi. Perforate Strawn 8150-8160. Swab & test Strawn. Acidize, if necessary. If Strawn is noncommercial, set CIBP above zone w/50' cmt on top. Selectively perforate Wolfcamp Bursum 7146-7675'. Acidize perfs 7146-7675'. Flow and test until zone is cleaned up.

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

Cathy Hilgerson

TITLE Production Records Analyst

DATE 6/15/81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

XC: USGS(3), TLS, CEN RCDS, ACCTG, ED BANN, MEC, LAND, PARTNERS, FILE

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.

NM-7066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Wells Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Diamond Mound Atoka

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 11, T16S, R27E

12. COUNTY OR PARISH

Eddy New Mexico

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

22. APPROX. DATE WORK WILL START*

July 21, 1981

APPROVED

DATE

JUN 24 1981

JAMES A. GILLHAM
DISTRICT SUPERVISOR