

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.

LC-064118

6. IS INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

E. C. Hill "D" Federal

9. WELL NO.

6

10. FIELD AND POOL, OR WILDCAT

Teague Devonian

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

Sec. 34, T23S, R37E

12. COUNTY OR PARISH

Lea

13. STATE
New Mexico

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

Arch Petroleum Inc.

3. ADDRESS OF OPERATOR

10 Desta Dr., Ste. 420E, Midland, TX 79707

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

At surface

330 FEL & 2310 FSL, SECTION 34, T23S, R37E, UNIT I

At proposed prod. zone

Same

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

9 miles North of Jal

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

330

16. NO. OF ACRES IN LEASE

480

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

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

990

19. PROPOSED DEPTH

7650

20. ROTARY OR CABLE TOOLS

Rotary

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

3256.2 GR

22. APPROX. DATE WORK WILL START*

January 15, 1990

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	1175	750 sx - <u>circulated</u>
7 7/8	4 1/2	10.5# & 11.6#	7650	1430 sx

BOP PROGRAM: Shaeffer - Double, Hydraulic with accumulator, 10" - 900 Series - Type E with 11" opening. Tested daily.

MUD PROGRAM: 0-1200' Fresh spud mud; 8.7-9.4# gal; 33-35 Vis.; No WL.
1200-7000' Brine water; 10#/gal; 26-28 Vis.; No WL. If WL control - 10 cc or less; 32-35 Vis.
7000-7650' Possible mud up due to fluid loss; (9.2#) to 10.0#/gal; 34-38 Vis.; 30 cc WL.

CEMENT PROGRAM: Pump and plug method.

SURFACE: Guide shoe, float collar, 5 centralizers, 750 sx Class "C" w/2% CaCl + 1/4#/sx Flocele.

PRODUCTION: Guide shoe, float collar with Latch down baffle, DV Tool @ 4500', 24 centralizers, 650 sx Class "H" 50/50 poz w/0.5% Fluid Loss additive + 1/4#/sx Flocele, 730 sx Class H Lite w/0.5% Fluid Loss additive + 1/4#/sx Flocele; 115 Class "C" neat.

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

Operations Manager

DATE

12/04/89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Orig. Signed by Richard L. Man

TITLE

AREA MANAGER

DATE

1-5-90

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

JAN 08 1990

OCD
HOBBS OFFICE