

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

SF-078563

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Love

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

~~Escondido Field~~ W.C.P.C.

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

L Sec. 23, T24N-R7W

12. COUNTY OR PARISH 13. STATE

Rio Arriba

New Mexico

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

Grace Petroleum Corporation

3. ADDRESS OF OPERATOR 3 Park Central, Suite 200

1515 Arapahoe Street, Denver, CO 80202

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

At surface 1850' FSL and 790' FWL

At proposed prod. zone

RECEIVED

MAR 05 1982

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

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80 (Current)

160 (Proposed)

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

6726 DF 6714' GL

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
12-1/4"	8-5/8"	24#	195'	125 SX
7-7/8"	4-1/2"	9.5#	5640'	100 SX

Propose to plug back from Gallup oil zone to Pictured Cliffs gas zone as follows:

1. Kill Gallup zone, ND Wellhead, NU BOP
2. POOH with tubing, laying down cement plugs as follows:
5628' (PBTD) - 5200' (35 SX)
~~2500-2740' (20 SX)~~ - See modification below
3. Set CIBP @ 2150'. Dump 2 SX cement. - Pressure test casing. If casing leaks, repair leak before producing well.
4. Perforate Pictured Cliffs zone 1995'-2010', 2070'-2090' W/2 SPF.
5. Run tubing with retrievable packer and set at + 1950'.
6. Fracture treat zone and swab test.
7. POOH with packer, RIH with tubing to 1950'. ND BOP, NU Wellhead.

Perforate 4 1/2" casing at 3618' and spot cement plug inside and outside casing from 3618' to 3518' to cover top of Mesaverde.

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

Sr. Operations Engineer

DATE

March 1, 1982

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF

APPROVED

MAR 11 1982

For JAMES F. SIMS
DISTRICT ENGINEER

AS AMENDED

*See Instructions On Reverse Side

NMOCC

Kill 104 for plug