

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

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, WY 82602

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

At surface

1100' FSL & 1185' FWL

At proposed prod. zone

Mesaverde (Cliff House)

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

31 miles south of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

1100'

16. NO. OF ACRES IN LEASE

320

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.

None

19. PROPOSED DEPTH

6200' OTD

20. ROTARY OR CABLE TOOLS

N.A.

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

6493' G.L.

22. APPROX. DATE WORK WILL START*

Immediately

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#	724'	490 Sx. (Set in 1976)
7-7/8"	5-1/2"	15.5#	6201'	850 Sx. (Set in 1976)

6225' T.D. (Subject well has been S.I. pending engineering evaluation since 4-21-77.)
(Jicarilla & Graneros zones were not completed as they were non-commercial.)

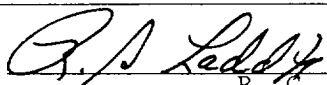
Union Oil Company of California proposes to abandon the non-commercial Jicarilla and Graneros zones and recomplete in the Mesaverde (Cliff House) zone, as follows:

MIRU service unit. Install BOP. Release packer, reset at 5600', and squeeze perfs 6058', 6061', 6088-95', and 6100-6110' with 100 sacks cement. Displace cement to 5700'. POOH with tubing and packer. Run PDC log and perforate Cliff House, 2399-2409', 2425-2427', 2431-2433', 2441-2443', 2447-2455', and 2459' with 1 spf using 4" casing jet. Run tubing with packer and set at 2300'. Swab test "natural". Treat all perfs 2399-2459' with 1000 gallons regular 15% acid with 2 ball sealers/bbl. acid pumped. Swab test. POOH with tubing and packer. Sand frac perfs 2399-2459' with 50,000 gallons gelled 2% KCl water and 50,000# 20-40 sand/gallon at 40 bpm rate down 5-1/2" casing. Run tubing and packer. Swab test.

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



R. G. Ladd, Jr.

TITLE District Drilling Supt.

DATE 8-10-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



AUG 15 1977