

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐ Re-Enter X DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. NAME OF OPERATOR

Atlantic Richfield Company

3. ADDRESS OF OPERATOR

501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

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

At surface

Unit "F" (SE NW) - 1500' f/North & 1450' f/West lines Sec. 14

At proposed prod. zone

Approx same.

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

15. DISTANCE FROM PROPOSED* 1190' f/Lse line
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 1140' f/drlg unit
(Also to nearest drlg. unit line, if any)16. NO. OF ACRES IN LEASE
1440±17. NO. OF ACRES ASSIGNED
TO THIS WELL (Chacra 160 ac)
160 (My 2 per 320 ac)18. DISTANCE FROM PROPOSED LOCATION* 666' ENE f/
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. #4 in SW NW(Un.E)19. PROPOSED DEPTH
Est. PB 6500'20. ROTARY OR CABLE TOOLS
Well Servicing Unit

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

5990' GR

22. APPROX. DATE WORK WILL START*

When appl rec'd
Est. 11/9/76

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	10-3/4"	32#	250'	200 sx (Already set)
9-7/8"	7-5/8"	26.4#	2474'	210 sx (Already set)
6-1/4"	4-1/2"	10.5 & 11.6#	6811'	185 sx (Already set)

This well was drilled by Tenneco in Dec. 1966 and Jan. 1967, setting casing as shown above. T.D. was 6817'. The Dakota was perforated, treated, and tested non-productive. It has been temp. abandoned since that time.. Indicated top of cement outside 4-1/2" casing is 3950'. Top of Dakota perfs is 6626'.

It is proposed to MI service unit w/ BOP, rev. circ equip, and tanks. Set retainer at approx 6500' and squeeze Dakota perfs (6626-6795' overall), leaving cement in casing below retainer; Perf casing @ 3950' & squeeze cement up thru Cliff House; Run bond log; Clean out cement; Selectively perforate Mesaverde 4574-4658' and frac; Set BP 4100'; Perforate Mesaverde 3912-16 & 3928-36' and frac; Set BP 3500'; Perforate 3280' & squeeze cement above Chacra; Perforate Chacra 3195-3200' & 3218-27', acidize and frac; Run bit and clean out to below Mesaverde perforations; Set Baker Mod. "D" packer approx 3880'; Run 2-3/8" tubing w/ seal assy, land in packer; Swab in and complete producing Mesaverde thru 2-3/8" tubing and Chacra thru tubing-casing annulus.

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

W. A. Walther, Jr.

(This space for Federal or State office use)

TITLE Operations Manager

DATE 10/21/76

PERMIT NO.

APPROVAL

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
OCT 28 1976
OIL CON. COM.
DIST. 3

*See Instructions On Reverse Side