

DEPAR



RECEIVED

SEP 9 1975

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

COLO. OIL & GAS CONS. COMM.

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
 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
 NW NE - 640' f/North & 1330' f/East lines Sec. 10

At proposed prod. zone
 NE NW - 1000' f/North & 1700' f/West lines Sec. 10

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx 5 miles South of Gardner, Colo.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 640'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1st well

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 8304' GL, Ungr.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15-1/2"	10-3/4"	32.75#	250'	250 sx (Cmt to surface)
8-3/4"	5 1/2" or 7"	15.5# 20 & 23#	Total Depth	400 sx

Propose to deviate hole by directionally drilling from surface location approximately 2400' horizontally on a 250° to 270° azimuth, making bottom hole location approximately as above. Bottom hole location will be on Lease No. C-10646, in which Atlantic Richfield Company owns all interest. Purpose of deviating is to aid in determining if Little Sheep Mountain is of laccolithic type origin and if sediments are normal. Estimated formation tops are Dakota @ 3550'TV and Entrada @ 4150'TV. 10-3/4" surface casing to be set at approx 250' and cmt'd to surface; 8-3/4" hole directionally drilled to T.D. and well logged; if productive, set 5-1/2" or 7" casing with sufficient cement to protect all zones; productive zone(s) will be perforated, treated if necessary, and well completed.

Attachments: Certified Location Plat; Pertinent Drilling Information; Development Plan for Surface Use w/att.

\$ 75.00 Filing Fee, per Colorado Oil & Gas Cons. Comm. rules and Regulations, paid by *Blanket*
 Check No. 125529, dated 9-8-75.

2cc w/Check - Colorado Oil & Gas Cons. Comm.
 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 *[Signature]* TITLE Dist. Prod. & Drlg. Supt. DATE 9/8/75

(This space for Federal or State office use)

PERMIT NO. 75 789 APPROVAL DATE

APPROVED BY *[Signature]* TITLE DIRECTOR DATE SEP 10 1975

CONDITIONS OF APPROVAL, IF ANY:

5. LEASE DESIGNATION AND SERIAL NO.
C - 10646

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Sheep Mountain

9. WELL NO.
5

10. FIELD AND POOL, OR WILDCAT
Not designated. Sheep Mountain Area

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10-27S-70W, 6th RM

12. COUNTY OR PARISH
Huerfano

13. STATE
Colorado

DVR	<input checked="" type="checkbox"/>
FIP	<input checked="" type="checkbox"/>
HMM	<input type="checkbox"/>
JAM	<input checked="" type="checkbox"/>
JJD	<i>[Signature]</i>
GCH	<input type="checkbox"/>
CGM	<input type="checkbox"/>

*See Instructions On Reverse Side

A. P. I. NUMBER
05 055 6029

75-789