

JAN 26 1976

UNITED STATES DEPARTMENT OF GEOLOGICAL SURVEY



SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

OIL & GAS CONS. COM. GEOLOGICAL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK DRILL [X] DEEPEN [] PLUG BACK []

B. TYPE OF WELL OIL WELL [] GAS WELL [X] OTHER [] SINGLE ZONE [X] 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'

16. NO. OF ACRES IN LEASE 640 Ac

17. NO. OF ACRES ASSIGNED TO THIS WELL Not spaced

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1st well 4550' TV, 5200' MD

19. PROPOSED DEPTH 4550' TV, 5200' MD

20. ROTARY OR CABLE TOOLS Rotary

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

22. APPROX. DATE WORK WILL START* When appl rec'd Est. 9/22/75

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#	Total	400 sx
		20 & 23#	Depth	

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 cmtd 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 \$ 75.00 Filing Fee, per Colorado Oil & Gas Cons. Comm. Rules and Regulations, paid by 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.

SIGNED [Signature] TITLE Dist. Prod. & Drlg. Supt. DATE 9/8/75

PERMIT NO. APPROVAL DATE APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE JAN 23 1976

CONDITIONS OF APPROVAL, IF ANY: Approval Notice STATE 046 (coll)

5. LEASE DESIGNATION AND SERIAL NO. C - 10488

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME Sheep Mtn Unit

8. FARM OR LEASE NAME Sheep Mountain

9. WELL NO. 5-10

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

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

12. COUNTY OR PARISH Huerfano

13. STATE Colorado

17. NO. OF ACRES ASSIGNED TO THIS WELL Not spaced

20. ROTARY OR CABLE TOOLS Rotary

22. APPROX. DATE WORK WILL START* When appl rec'd Est. 9/22/75

*See Instructions On Reverse Side