

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

Twin Arrow, Inc. ~~AND PETROLEUM INTERNATIONAL~~

3. ADDRESS OF OPERATOR

P. O. Box 948, Rangely, Colorado 81648

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface774<sup>1</sup> FEL, 1922<sup>1</sup> FNL, Section 12  
At proposed prod. zone

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

South of and 1.05 miles by road to Main St., Rangely Rio Blanco Colorado

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)774<sup>1</sup>

16. NO. OF ACRES IN LEASE

440

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

none

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.820<sup>1</sup>

19. PROPOSED DEPTH

3500<sup>1</sup>

20. ROTARY OR CABLE TOOLS

rotary

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

5511<sup>1</sup> GR

22. APPROX. DATE WORK WILL START\*

Sept. 1, 1976

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	24#	100 <sup>1</sup>	90 sacks

1. This well will be spudded in the very uppermost Mancos Shale.
2. This well will be drilled in the Mancos Shale for its entire depth.
3. No water is anticipated; oil or gas may be found in fractures in the shale between 2,000<sup>1</sup> and 3,500<sup>1</sup> below the surface.
4. Surface casing: Hole size- 8 3/4", Setting depth-100<sup>1</sup> or depth necessary to get below fresh water zone, Specifications-7", 24#, J-55, 8 RD thread, used; Anticipated pressure at setting depth-less than 20#, Cement from setting depth to surface  
Production casing (if required): Hole size 6 1/4", Setting depth- hung from surface casing by 5 1/2" slips set in casing head--hung to T.D., Specifications-5 1/2" O.D., J-55, 15.5#, 8-RD thread, new or used
5. Blowout preventer: Combination BOP and rotating head, 8", 3000#; see attached schematic diagram
6. Circulating medium: air

(Continued on reverse)

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

Manager

DATE

July 22, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(Orig. Sgd.) E. W. Guynn

TITLE

DISTRICT ENGINEER

DATE

OCT 05 1976

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Approval Notice - COLO. STATE OIL, GAS, AND

\*See Instructions On Reverse Side

FILE MINING



## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

7. **Auxilliary equipment:** A float valve (600#) is to be used in the bottom drill collar at all times. There will also be a drill string float valve (3000#) and the kelly hose will have a shut-off valve (600# W.P.) at floor level.
8. No well logs, testing or coring will be required.
9. No anticipated abnormal pressures or temperatures; no potential hazards expected.
10. Anticipated starting date: September 1, 1976  
Expected duration of operations: 20 days

U.S. GPO 782-331

SALT LAKE CITY, UTAH

JUN 26 1976

RECEIVED