

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                                                         |  |                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|
| 1a. TYPE OF WORK<br>DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>                                                                                        |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>SR - 077651                        |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/> |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                      |
| 2. NAME OF OPERATOR<br>Astec Oil & Gas Company                                                                                                                                                                          |  | 7. UNIT AGREEMENT NAME                                                    |
| 3. ADDRESS OF OPERATOR<br>Dresser 570, Farmington, New Mexico                                                                                                                                                           |  | 8. FARM OR LEASE NAME<br>Richardson                                       |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface<br>1850' PNL, 1660 FEL, sec. 21, T-31N, R-12W<br>At proposed prod. zone<br>Same                              |  | 9. WELL NO.<br>5                                                          |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br>9                                                                                                                                              |  | 10. FIELD AND POOL, OR WILDCAT<br>Blanco Mesaverde                        |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)                                                                                                   |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec. 21, T-31N, R-12W |
| 16. NO. OF ACRES IN DEEPE                                                                                                                                                                                               |  | 12. COUNTY OR PARISH<br>San Juan                                          |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>320                                                                                                                                                                           |  | 13. STATE<br>New Mexico                                                   |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.<br>1660'                                                                                                  |  | 14. PROPOSED DEPTH<br>7260'                                               |
| 19. ROTARY OR CABLE TOOLS<br>Rotary                                                                                                                                                                                     |  | 20. APPROX. DATE WORK WILL START*<br>Sept. 1, 1965                        |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>6131 GL                                                                                                                                                               |  |                                                                           |

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH     | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|-------------------|--------------------|
| 6 1/4"       | 4 1/2"         | 10.5            | 5100-7260 (Liner) | 200 ax             |
|              |                |                 |                   |                    |
|              |                |                 |                   |                    |

## Propose to:

1. Pull tubing, run casing inspection log on present 7" casing set @ 5186: Present Mesaverde perforated zone 4876-5155.
2. Drill 6 1/4" hole to 7260' or to Dakota production zone.
3. Set 4 1/2" liner from 5100' to TD and cement back to top of liner. Note: 4 1/2" will be set to surface if inspection log shows excessive corrosion on 7" casing.
4. Perf and selectively frac Dakota and Point Lookout zones.
5. Set Model "D" packer above Dakota zone, run 2" tubing to Dakota with sliding sleeve in tubing string @ 5200' to be used to unload casing in the event Point Lookout zone logs off.

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. Original Signed By  
Carl E. Jamason  
SIGNED C. E. Jamason TITLE District Engineer DATE August 24, 1965

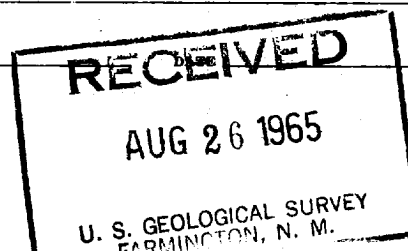
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY CEJ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



## 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.