

# DRILLING PLAN

Attachment to BLM Form 3160-3

ARCO Permian

Well: West Brushy Federal "5" # 3

1980' FNL & 660' FEL

UNIT H

Section 5, T26S-R29E

Eddy County, New Mexico

## 1. Surface Geological Formation

Yates Formation (Sand and Anhydrite)

## 2. Estimated Tops of Geological Markers

| <u>Formation</u>    | <u>TVD</u> |
|---------------------|------------|
| Salt                | 700'       |
| Base Salt/Anhydrite | 2825'      |
| Bell Canyon         | 2845'      |
| Cherry Canyon       | 3725'      |
| Brushy Canyon       | 5000'      |

## 3. Estimated Tops of Possible Water, Oil, Gas or Mineral:

|                               |            |
|-------------------------------|------------|
| Sands above 500'              | Water      |
| Cherry Canyon & Brushy Canyon | Oil or Gas |

## 4. Pressure Control Equipment

| <u>Interval, TVD</u> | <u>Pressure Control Equipment</u>                                    |
|----------------------|--|
| 0' – 580'            | No pressure control required   |
| 580' – TD            | 11", 2M psi double ram preventer, or<br>11" 2M psi annular preventer |

Exhibits 1, 2 and 3 show the BOP stack arrangement, the choke manifold arrangements and the BOP specifications, respectively. The BOPE will be hydraulically tested per BLM requirements outlined by Onshore Oil and Gas Order No. 2. Pipe rams and blind rams, if a double ram preventer is used, will be functioned on each trip out of the hole. All BOPE checks and tests will be witnessed by ARCO's representative and will be noted on the IADC daily drilling report. Accessories to BOPE will include an upper kelly cock, lower kelly cock, and floor safety valve; all with pressure rating equivalent to the BOP stack.

## 5. Proposed Casing and Cementing Program

|            | <u>Hole<br/>Size</u> | <u>Interval<br/>M.D.</u> | <u>Casing<br/>Size</u> | <u>Weight &amp;<br/>Grade</u> |
|------------|----------------------|--------------------------|------------------------|-------------------------------|
| Surface    | 11"                  | 0'-580'                  | 8-5/8"                 | 24.0# J-55                    |
| Production | 7-7/8"               | 580'-5500'               | 5-1/2"                 | 15.5# J-55                    |