DRILLING PLAN

Attachment to BLM Form 3160-3
ARCO Permian
Well: West Brushy Federal #1
660'FNL, 330'FEL
Section 8-T26S-R29E
Eddy County, New Mexico

1. Surface Geological Formation

Yates Formation (Sand and Anhydrite)

2. Estimated Tops of Geological Markers

Formation	TVD
Salt	700'
Base Salt/Anhydrite	2825'
Bell Canyon	2845'
Cherry Canyon	3725'
Brushy Canyon	5000'

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

Sands above 500' Water

4. Pressure Control Equipment

Interval, TVD	Pressure Control Equipment
0'-580'	No pressure control required
580'-TD	11", 2M psi double ram preventer, or; 11" 2M psi annular preventer

Exhibits 1, 2 and 3 show a double ram 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

	Hole Size	Interval M.D.	Casing Size	Weight & Grade
Surface	11"	0'-580'	8-5/8"	24# J-55
Production	7-7/8"	580-5500'	5-1/2"	15.5# J-55

Cement Program: (Actual volumes will be based on caliper log when available)

Surface - Cement to surface with total of +/- 600 cu ft as follows:
Lead Slurry - 120 sks Class "C" + 35/65 Poz + 6% Bentonite
Tail Slurry - 195 sks Class "C" + 2% $CaCl_2$