

DRILLING PLAN

Attachment to BLM Form 3160-3

ARCO Permian

Well: Barclay Federal #29

1980'FNL, 1980'FEL

Section 1-T23S-R31E

Eddy County, New Mexico

1. Surface Geological Formation

Quaternary Formation

2. Estimated Tops of Geological Markers

<u>Formation</u>	<u>TVD</u>
Rustler	865'
Castile	1200'
Lamar Shale	4540'
Bell Canyon	4575'
Cherry Canyon	5650'
Brushy Canyon	7000'
Bone Spring	8425'

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

Sands above 800'	Water
Cherry & Brushy Canyon	Oil or Gas

4. Pressure Control Equipment

<u>Interval, TVD</u>	<u>Pressure Control Equipment</u>
0'-860'	No pressure control required
860'-TD	11", 3M psi double ram preventer with 3M psi annual 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 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</u> <u>Size</u>	<u>Interval</u> <u>M.D.</u>	<u>Casing</u> <u>Size</u>	<u>Weight &</u> <u>Grade</u>
Surface	17-1/2"	0'-860'	13-3/8"	48.0# H-40
Intermediate	11"	0-4600'	8-5/8"	32.0# J-55
Production	7-7/8"	0-8450'	5-1/2"	15.5# J-55