

1/16/97

DRILLING PLAN

Attachment to BLM Form 3160-3

ARCO Permian

Well: Hammond "17" Federal Com. #1

1992' FSL & 1796' FEL

Section 17-T18S-R27E

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>
Seven Rivers	120'
Queen	720'
San Andres	1420'
Glorietta	2940'
Tuff	3870'
Alco Shale	4720'
Abo Reef	5380'
Wellcamp Lime	6350'
Cisco/Penn Shale	7500'
Canyon	8050'
Strawn	8450'
Atoka Shale	9070'
Morrow Lime	9300'
Morrow Clastics	9400'
L. Morrow Marker	9470'
Chester Lime	9700'

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

Sands above 1000'	Water
Abo Reef	Oil or Gas
Morrow Sand	Gas / Condensate

4. Pressure Control Equipment

<u>Interval, TVD</u>	<u>Pressure Control Equipment</u>
0' - 1000'	No pressure control required

1000' - TD 11", 3M psi double ram preventer with 3M 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 will be functioned on each trip out of the hole. The annular preventer will be functioned once a week. All BOPE checks and tests will be