

Re: Application for Permit to
Drill Proposed Murphy Federal #1
Eddy County, New Mexico

We are submitting the information requested which should
accompany application for permit to drill the subject well.

1. Location: 660' FSL and 1980' FEL of Section 12,
Township 20 South, Range 27 East,
Eddy County, New Mexico.
2. Elevation of Unprepared Ground: 3315.9' GR
3. Geologic Name of Surface Formation:
4. Type of Drilling Tools: Rotary Tools
5. Proposed Drilling Depth: 11,300'
6. Estimated tops of Geologic Markers: Yates 600', Delaware 2425',
Bone Springs 4600',
Wolfcamp 8575', Atoka 10,300',
Morrow 10,825', Barnett 11,275'
7. Estimated Depths at which anticipated gas or oil
bearing formation are expected: Bone Springs 5500'-6500'
Wolfcamp 8970'-9060'
Atoka 10,625'-10,700'
Morrow 11,050'-11,250'
8. Casing Program and Setting Depth:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>
Surface	13 3/8"	48#	H-40	0-600'
Intermediate	8 5/8"	24# & 32#	K-55	0-2800'
Production	4 1/2"	13.5#	N-80	0-2,300'
	4 1/2"	11.6#	N-80	2,300'-5,200'
	4 1/2"	11.6#	J-55	5,200'-7,500'
	4 1/2"	11.6#	N-80	7,500'-10,000'
	4 1/2"	13.5#	N-80	10,000'-11,300'