

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

August 9, 1979

P. O. Box 670
Hobbs, NM 88240

Re: Application for Permit to Drill
Patterson Federal No. 1,
Lea County, New Mexico

U. S. Geological Survey
P.O. Box 1157
Hobbs, New Mexico 88240

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Patterson Federal Well No. 1

- (1) Location: 660' FNL and 660' FEL Section 4-T19S-R32E, Lea County, New Mexico.
- (2) Elevation of Unprepared Ground: 3679.7' GL
- (3) Geologic Name of Surface Formation: Quarternary alluvium.
- (4) Type Drilling Tools: Rotary.
- (5) Proposed Drilling Depth: 10,900'.
- (6) Estimated Tops of Geologic Markers: Salt 1250', Basalt 2700', Delaware 5600', Bone Spring 7150', Wolfcamp 10,370'.
- (7) Estimated Depths at Which Anticipated Gas or Oil-Bearing Formations Expected:
 - (a) Bone Springs section 7150' to 10,370' may produce oil.
 - (b) Wolfcamp section 10,370' to 10,900' may produce oil.
- (8) Casing Program and Setting Depths:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>
Surface	11-3/4"	42#	H-40	400'
Intermediate	8-5/8"	24#	K-55	2,900' 4200'
Production	5-1/2"	17#	N-80, K-55	10,900'

