

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

September 9, 1981

P. O. Box 670
Hobbs, NM 88240

Re: Application for Permit to Drill
South Shugart Deep Federal Unit #1,
Eddy County, New Mexico

U. S. Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201

Gentlemen:

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

Well: South Shugart Deep Federal Unit #1

- (1) Location: 760' FNL & 1980' FWL, Section 4-T19S-R31E, Eddy County, New Mexico
- (2) Elevation of Unprepared Ground: 3586' GL
- (3) Geologic Name of Surface Formation: Quarternary Alluvium
- (4) Type Drilling Tools: Rotary
- (5) Proposed Drilling Depth: 14,000'
- (6) Estimated Tops of Geologic Markers: Rustler 800'; Yates 2500'; Delaware Mtn Group 4400'; Bone Spring Lime 6600'; 3rd Bone Spring Sd 9800'; Cisco 10,200'; Canyon 10,400'; Strawn 10,700'; Atoka 11,000'; Morrow Lime 11,300'; Chester 12,300'; Devonian 13,000'
- (7) Estimated Depth at which Anticipated Gas or Oil-Bearing Formations Expected: Delaware Mtn Group 4400'; 3rd Bone Spring Sd 9800'; Canyon 10,400'; Strawn 10,700'; Atoka 11,000'; Morrow Lime 11,300'; Devonian 13,000'.
- (8) Casing Program and Setting Depths:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>
Surface	13-3/8"	48#	H-40	500'
Intermediate	9-5/8"	36#	S-80	4,000'
Production	5 1/2"	17#	S-95, N-80, K-55	14,000'

