

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

PRODUCTION DEPARTMENT

August 26, 1970

POST OFFICE BOX 1600

MIDCONTINENT DIVISION

W. R. WARDROUP  
DIVISION DRILLING SUPT.

HUMBLE'S SOUTH LEA UNIT NO. 1  
Section 17, T-26-S, R-36-E  
Lea County, New Mexico

Mr. Arthur Brown  
U. S. G. S.  
P. O. Box 1157  
Hobbs, New Mexico 88240

Dear Mr. Brown:

We recently performed a well test on our South Lea Unit No. 1, Section 17, T-26-S, R-36-E. Prior to testing the well, we asked for a flare permit for 150 MMCF of gas.

We stimulated the well on June 30, 1970, and flowed the well to clean it up. The rate declined from a maximum of 7.9 MMCF/D to 4.8 MMCF/D during the four days the well was cleaning up. The well was then shut in for 11-1/2 days and the buildup data analyzed.

It was at this time that we asked for a flare permit. We flowed the well at a rate of 3.00 MMCF/D for 9.33 days with total production of 28 MMCF of gas. The well was again shut in and the buildup data analyzed.

Our calculations and resulting interpretation of the buildup data indicate (1) that we have achieved good stimulation from our acid job; (2) the bulk formation permeability is very low - in the range of 0.1 millidarcies; (3) the reservoir is either limited or has a permeability restriction which severely limits the ability of the well to sustain a commercial production rate of gas.