

North Hume 5 Fed No. 1
Sec. 5, T16S, R34E
Lea County, New Mexico

I. Estimated Gross Ultimate Recovery

Cumulative Production to 6-30-89 123,533 BO

Remaining Reserves

= 84 BOPD @ 47%/yr decline to 3 BOPD E.L. *Some Water*

= 46,568 BO

Gross Ultimate Recovery = 170,101 BO

II. Reservoir Data and Estimated Drainage

$\phi = 11.87\%$ $S_w = 11.93\%$ Net Pay = 10' $Bo_i = 1.462$

Estimated Recovery Factor = 20%

$$\begin{aligned}\text{Drainage (Acres)} &= \frac{\text{GUR} \times Bo_i}{7758 \times \text{Net Pay} \times \phi \times (1-S_w) \times \text{Est Recov \%}} \\ &= \frac{170101 \times 1.462}{7758 \times 10' \times .1187 \times (1-.1193) \times .20} \\ &= 153.3 \text{ Acres}\end{aligned}$$

GBN:sl-1085

BEFORE EXAMINER CATANACH	
OIL CONSERVATION DIVISION	
<i>Santa Fe</i>	EXHIBIT NO. <u>5</u>
CASE NO. <u>9175 + 9354</u>	

N. H. 5 FEDERAL 000001
 HUME WOLF CAMP, NORTH NC
 SANTA FE ENERGY OPER PAR
 LEA NM
 56 16S 34E FIRST PROD: 01-87 CUM BOIs 115422
 150, 025, 16S34E05600NC LAST PROD: 03-89 CUM Mcf 123636

SANTA FE ENERGY

