

RECOVERY CALCULATIONS
EAST LUSK (BONE SPRING) FIELD
LEA COUNTY, NEW MEXICO

$$\begin{aligned}\text{OSTOIP} &= \frac{7758 \phi (1-S_w)}{B_o} \\ &= \frac{7758 \times .065 \times (1-.3)}{1.37} \\ &= 257.7 \text{ STB/AF}\end{aligned}$$

Assuming 160-acre drainage

OIP 160 Ac. :	257.7 x 16 x 160 = 659,700 STB		
Ult. Rec. :	200,000 STB	Current Rec. :	105,000 STB
Rec. Eff. :	30.3% of OSTOIP	Rec. Eff. :	15.9% of OSTOIP

Assuming 80-acre drainage

OIP 80 Ac. :	257.7 x 16 x 80 = 329,900		
Ult. Rec. :	200,000 STB	Current Rec. :	105,000 STB
Rec. Eff. :	60.6% of OSTOIP	Rec. Eff. :	31.8% of OSTOIP

Assuming 40-acre drainage

OIP 40 Ac. :	257.7 x 16 x 40 = 164,900		
Ult. Rec. :	200,000 STB	Current Rec. :	105,000 STB
Rec. Eff. :	121.2% of OSTOIP	Rec. Eff. :	63.7% of OSTOIP

SUN OIL COMPANY	
DALLAS REGION	
EAST LUSK (BONE SPRING) FIELD	
LEA COUNTY, NEW MEXICO	
RECOVERY CALCULATIONS	
Case No. 5443	Ex. No. 27
April 28, 1976	

BEFORE EXAMINER STAMPS	
OIL OPERATING PERMIT	
SUN	27
CASE NO.	5443
Submitting Date	28 April 76