

SPRINKLE FED #1

VOLUMETRIC CALCULATIONS

$$\bar{\phi} = 11.6 \quad h = 30$$

$$\bar{S}_w = 37\%$$

$$B_t = 1.559 \quad \text{Recovery Factor} = .12$$

$$R = 7758 \quad \frac{h \bar{\phi} (1 - S_w) (R.F.) A}{B_t}$$

Recoverable Oil:

For 40 Acres

$$R = \frac{30 (.116) (1 - .37) (.12) (40)}{1.559} (7758)$$

$$R = 52 \ 368 \ \text{BO}$$

BEFORE EXAMINER STOCKER	
OIL CONSERVATION DIVISION	
1-9-86	EXHIBIT NO. 8
CASE NO. 8783	

SPRINKLE FED #2

DRAINAGE CALCULATIONS

$$\phi = 10.3 \%$$

$$h = 23$$

$$S_w = 48.5 \%$$

$$b_t = 1.483 \text{ RB/STB}$$

$$R.F. = 12 \%$$

For 40 acres

$$R = \frac{7758 (.103) (1-.485) (23) (40) (.12)}{1.483}$$

$$R = 30,635 \text{ BBL}$$

90,000

\$ 26 - (25 percent)

(Will Drain more than 40 acres)

BEFORE EXAMINER STOGNER	
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CASE NO. 8783	