

BEFORE EXAMINER STOGNER

OIL CONSERVATION DIVISION

Covina EXHIBIT NO. 10

CASE NO. 10417

CALCULATION OF DRAINAGE RADIUS
CEMETARY AREA

BHP = 3900 PSI
BHT = 178 DEG F
SG = 0.65
Tc = 373.969
Pc = 670.906
Z = 0.917

NEARBURG - HUBER FED 1

" " " "

EST.

CALC.

"

"

$$\frac{P_s V_s}{Z_s T_s} = \frac{P_r V_r}{Z_r T_r}$$

$$V_r = \frac{P_s V_s Z_r T_r}{Z_s T_s P_r}$$

$$V_r = \frac{15 * .917 * 638 * V_s}{1 * 520 * 3900}$$

$$V_r = 0.004327 V_s$$

ADJUSTING FOR 85% RECOVERY FACTOR

$$V_r = \frac{0.004327 V_s}{0.85}$$

$$V_r = 0.005091 V_s \text{ (BCF)}$$

$$V_r = 5091 * 1000 * V_s \text{ (cu ft)}$$

$$r^2 = \frac{5091 * 1000 * V_s}{\pi * \phi * t * (1-S_w)}$$

ANPC - PAN CANADIAN 1

Vs = 2.6 BCF
t = 34 ft
 ϕ = 10 %
r = 1286 ft 120 ac.

NEARBURG HUBER 2 (3-20-25)

Vs = 0.8 BCF
t = 14 ft
 ϕ = 6 %
Sw = 20 %
r = 1389 ft 139 ac.

TEXACO 1 ST. K (28-19-25)

Vs = 1.7 BCF
t = 22 ft
 ϕ = 6 %
Sw = 15 %
r = 1567 ft 177 ac.

NEARBURG BOYD ST 26M (26-19-25)

Vs = 1.1 BCF (1.8 BCF)
t = 12 ft
 ϕ = 10 %
Sw = 20 %
r = 1363 ft (1744 ft)
128 ac. 220 ac.

SANTA FE-EXXON ST 1

Vs = 0.12 BCF
t = 34 ft
 ϕ = 6 %
Sw = 35 %
r = 383 ft 10 ac.

NEARBURG HILLARD 1 (35-19-25)

Vs = 0.2 BCF
t = 30 ft
 ϕ = 6 %
Sw = 30 %
r = 507 ft 18 ac.

NEARBURG HUBER FED 1

Vs = 6.5 BCF
t = 50 ft
 ϕ = 12 %
Sw = 20 %
r = 1482 ft 158 ac