DRAINAGE AREA CALCULATIONS
JALMAT & EUMONT FIELDS

AVERAGE POROSITY (Ø) = 11%
AVERAGE WATER SATURATION (Sw) = 39%
RESERVOIR TEMPERATURE = 85° F

INITIAL BHP; PI = 1300#

$P_R = \frac{P}{P_C} = \frac{1300}{669} = 1.94$; $T_R = \frac{T}{T_C} = \frac{545}{382} = 1.43$; $Z = 0.79$

ABANDONMENT BHP; PA = 100#

$P_R = \frac{100}{669} = 0.15$; $T_R = 1.43$; $Z = 0.98$

INITIAL BG_I; $\frac{.02829\ ZT}{P} = \frac{.02829\ (0.79)\ 545}{1300} = \frac{1}{BG_I}$; $BG_I = 106.7\ SCF/FT^3$

ABANDONMENT BG_A; $\frac{.02829\ (0.98)\ 545}{100} = \frac{1}{BG_A}$; $BG_A = 6.6\ SCF/FT^3$

RECOVERABLE GIP/A'F = $43560\ (Ø)(1-S_W)(BG_I-BG_A)$ =

$= 43560\ (.11)(1-.39)(106.7-6.6) = 292{,}600\ SCF/A'F$

$$\text{DRAINAGE AREA} = \frac{\text{RECOVERABLE GAS}}{(\text{RECOVERABLE GAS/A'F})(\text{NET PAY})} = \text{ACRES}$$

WELL LOCATION			ULTIMATE RECOVERY	NET PAY	DRAINAGE AREA
SECTION	UNIT	NO.	(MMSCF)	(FT)	(ACRES)
11	B	14	1975	180	37.5
11	K	62	1925	148	44.5
11	E	42	6550	77	290.7
11	M	36	11750	91	441.3
12	N	7	5000	163	104.8
14	D	11	4200	138	104.0
14	F	28	550	184	10.2

EXHIBIT NO. 5
CASE NO. 9275
DATE DECEMBER 16, 1987