EAST LOVING DELAWARE FIELD MATERIAL BALANCE CALCULATIONS

PURPOSE: DETERMINE RECOVERY FACTOR AS A FUNCTION OF CUMULATIVE GOR (Rp)

ASSUMPTIONS

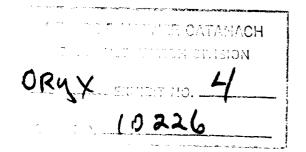
- 1) No initial gas cap
- 2) Negligible water influx
- 3) Significant free gas saturation develops

DATA:	Abandonment Pressure	Р	350 PSIA
	Abandonment Oil FVF	Во	1.171 RB/STB
	Initial Oil FVF	Boi	1.543 RB/STB
	Abandonment Gas FVF	Bg	.04131 CF/SCF
	Abandonment Solution GOR	Rs	281 CF/BBL
	Initial Solution GOR	Rsi	1108 CF/BBL

$$\frac{\text{P.ECOVERY}}{\text{I'ACTOR}} = \frac{\text{(Bo - Boi)} + (\text{Rsi - Rs)Bg}}{\text{Bo + (Rp - Rs)Bg}}$$

$$\frac{\text{RECOVERY}}{\text{FACTOR}} = \frac{(1.171 - 1.543) + (1108 - 281).04131}{1.171 + (\text{Rp} - 281).04131}$$

$$\frac{\text{FECOVERY}}{\text{FACTOR}} = \frac{818}{\text{Rp} - 252}$$





Oryx Energy Company

NMOCD CASE NO. <u>10226</u> FEBRUARY 21, 1991 **EXHIBIT NO.**