RESERVOIR DEPLETION RATES
AS A FUNCTION OF PRODUCING GOR

AT 2000 PSIA RESERVOIR PRESSURE:

R_s	=	846 SCF/STB
B_T	=	1.632 RB/STB
Z	=	.8
T	=	575° R
1 MCF_s	=	.8638 RB

AT 142 BOPD AND 284 MCFPD: GOR = 2000/1

SOLUTION GAS = 142 * 846/1000 = 120.1 MCFPD

FREE GAS = 284 – 120.1 = 163.9 MCFPD

TOTAL VOIDAGE = 142 * 1.632 + 163.9 * .8638 = 373.3 RBPD

AT 142 BOPD AND 710 MCFPD: GOR = 5000/1

FREE GAS = 710 – 120.1 = 589.9 MCFPD

TOTAL VOIDAGE = 142 * 1.632 + 589.9 * .8638 = 741.3 RBPD

TOTAL VOIDAGE IS NEARLY DOUBLED AT 5000/1 GOR.

ORYX

Oryx Energy Company

*ALL DATA FROM FLUID SAMPLE OF THE PARDUE FARMS #1

NMOCD CASE NO. 10226
AUGUST 29, 1991
EXHIBIT NO. 10