Scanlon Draw Prospect

Drainage Volume Calculation of 2H 19S-28E

L. Morrow "Orange" Reservoir

Estimates for the net reservoir being drained by well at 2H

Porosity (Por)	.09
Water Saturation (SW)	.25
Bottom-hole Temperature (BHT)	190°F
Gas Gravity	0.64
Initial Bottom-hole Pressure (Pi)	4500 psia
Initial Gas Formation Volume Factor (Bgi)	254 scf/cf
Estimated Abandonment Pressure (Pa)	500 psig
Abandonment Gas Form. Vol. Foc. (Bga)	28 scf/cf
Cum. prod (7/96)	1088 MMscf
Est. Ultimate Recovery (EUR)	2750 MMscf

$$\text{Drainage volume} = \frac{EUR}{(.04356)(Por.)(1-SW)(Bgi-Bga)}$$

$$= \frac{2750}{(.04356)(.09)(1-.25)(254-28)}$$

$$= 4138 \text{ Acft}$$

Using 15' average = 275 Ac

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case Nos. 11713 and 11758 Exhibit No. 2

Submitted by: Mewbourne Oil Company

Hearing Date: April 3, 1997