

Reservoir Data Sheet  
East Gem Morrow Field

State of New Mexico Oil Conservation Division

Case No. 9796

Hearing Date: November 15, 1989

MEC Exhibit No. \_\_\_\_\_

Average porosity, $\phi$	10%
Average water saturation, $S_w$	30%
Gas Gravity	0.6461
Reservoir Temperature, $T$	215 °F
Initial Reservoir Pressure, $P_i$	6412 psia
Initial Gas Compressibility Factor, $Z_i$	1.12
Standard Temperature, $T_s$	60 °F
Standard Pressure, $P_s$	13.2 psia
Initial Gas Formation Volume Factor, $B_{gi}$	336 SCF/ft <sup>3</sup>
Recovery Factor, $RF$	0.50
Unit Recoverable Gas-in-Place, $RGIP$ (1)	512 MCF/ACFT

$$\begin{aligned}(1) \quad RGIP &= 43.56 (\phi)(1-S_w)(B_{gi})(RF) \\ &= 43.56 (0.10)(1-0.30)(336)(0.50) \\ &= 512 \text{ MCF/ACFT}\end{aligned}$$

BEFORE EXAMINER	
OIL CONSERVATION DIVISION	
<u>Mitchell</u>	EXHIBIT NO. <u>9</u>
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