

Reservoir Data Sheet  
Wildcat Atoka Field

State of New Mexico Oil Conservation Division  
Case No. 9796  
Hearing Date: November 15, 1989  
MEC Exhibit No. \_\_\_\_\_

Average Porosity, $\phi$	14%
Average Water Saturation, $S_w$	25%
Gas Gravity	0.698
Reservoir Temperature, $T$	188°F
Initial Reservoir Pressure, $P_i$	7254 psia
Initial Gas Compressibility Factor, $Z_i$	1.19
Standard Temperature	60°F
Standard Pressure	13.2 psia
Initial Gas Formation Volume Factor, $B_{gi}$	371 SCF/ft <sup>3</sup>
Recovery Factor, $RF$	0.80
Unit Recoverable Gas-in-Place, $RGIP$ (1)	1358 MCF/ACFT

$$\begin{aligned}(1) \text{ RGIP} &= 43.56 (\phi)(1-S_w)(B_{gi})(RE) \\ &= 43.56 (0.14)(1-.25)(371)(0.80) \\ &= 1358 \text{ MCF/ACFT}\end{aligned}$$

BEFORE EXAMINER	
OIL CONSERVATION DIVISION	
Mitchell	EXHIBIT NO. 7
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