

GAS IN PLACE CALCULATION FOR GROSS ACRE-FT
ABOVE EXISTING AVERAGE GAS/WATER CONTACT DESCRIBED

By Monsanto at -3528 '
Sec. 36, T.21S., R.23E.

Gross Pay Above Original Gas and Water Described by Monsanto @ -3750'	151,098 Acre-ft
Gross Pay Remaining Above Existing Average Gas and Water Contact Described by Monsanto @ -3528'	16,438 Acre-ft
Monsanto Estimate of original gas in place in Sec. 36, T.21S., R.23E.	36.2 BCF

Gas In Place Calculation

Bgi = .005 Rcf/Scf
Res.Temp. = 146° F
Current Res. Pressure - 1700 psi
Current z Factor = .86

$$(36.2 \text{ BCF}) (.005 \text{ Rcf/Scf}) \left(\frac{16,435 \text{ Acre ft}}{151,098 \text{ Acre ft}} \right) \left(\frac{520^\circ \text{ R}}{606^\circ \text{ R}} \right) \left(\frac{1700 \text{ psi}}{4.7 \text{ psi}} \right) \left(\frac{1}{.86} \right)$$

= 2.3 BCF In Place Above Existing Av. Gas/Water Contact at -3528'

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico	
Case No. <u>8728</u>	Exhibit No. <u>8</u>
Submitted by <u>Amoco</u>	
Hearing Date <u>4/9/88</u>	