RESERVE ESTIMATE

McElvain-Federal #1 EK Bone Spring Field ** Lea County, New Mexico

Pressure history is not available at this time and production history is too short to use for reserve estimation. Therefore a volumetric calculation of reserves is all that is available at this time.

It is assumed that the reservoir energy is primarily solution gas. Gas Oil Ratio is measured at approximately 500/1. Other estimates are made from log data.

$$OIP = \frac{7758 \ (\emptyset) \ (1-Sw)}{B}$$

Where: OIP = Stock Tank Oil in place-B/ac. ft. $\emptyset = 13\%$ from log data Sw = 50% from log data B = 1.4 estimated

$$OIP = \frac{7758 (.13) (.50)}{1.4} = 360 \text{ B/ac. ft.}$$

Recovery Factor (Solution Gas Drive) - 20% Estimate

Recoverable 0il in place - $360 \times 20 = 72 \text{ B/ac. ft.}$

Pay thickness - 20 ft. - based on log data

Reserves per 80 ac. - 72 B/ac. ft. X 20 ft. X 80 ac. = 115,200 Bbls.

Prepared 2-17-75 for original hearing ylind 5
on oppliestion for Special Pool rules ... 5442

Exhibit #5