

OIL RECOVERY CALCULATIONS
IN BE PENNSYLVANIAN POOL
LEA COUNTY, NEW MEXICO

FLUID AND FORMATION DATA

Porosity = 6.20%
 Water Saturation = 29%
 Net Pay = 13.0 ft.
 Recovery Factor = 40% Oil in Place
 FVF = 1.76

OIL IN PLACE (Bbls./Ac. Ft.)

$$\frac{(7758 \frac{\text{Bbls.}}{\text{Ac.Ft.}}) (0.0620) (0.71)}{1.76} = 194 \frac{\text{Bbls.}}{\text{Ac.Ft.}}$$

RECOVERABLE OIL (Bbls./Ac. Ft.)

$$(194 \frac{\text{Bbls.}}{\text{Ac.Ft.}}) (0.40) = 77.6 \frac{\text{Bbls.}}{\text{Ac. Ft.}}$$

OIL IN PLACE (Bbls./Ac.)

$$(194 \frac{\text{Bbls.}}{\text{Ac.Ft.}}) (13.0 \text{ ft.}) = 2522 \frac{\text{Bbls.}}{\text{Ac.}}$$

RECOVERABLE OIL (Bbls./Ac.)

$$(2522 \text{ Bbls./Ac.}) (0.40) = 1008.8 \frac{\text{Bbls.}}{\text{Ac.}}$$

EX 8

	40 Ac.	80 Ac.
OIL IN PLACE. (Bbls.)	100,880	201,760
RECOVERABLE OIL (Bbls.)	40,352	80,704