OIL RECOVERY CALCULATIONS

MIDDLE LANE PENNSYLVANIAN POOL
LEA COUNTY, NEW MEXICO

BASIC DATA:

Porosity	6.2%
Water Saturation	33 %
Formation Volume Factor	1.70
Recovery factor	35 %
Net pay	20 feet

CALCULATIONS:

Original Oil in Place
$$= \frac{(7758)\ (\emptyset)\ (1-Sw)}{FVF}$$

$$= \frac{(7758)\ (0.062)\ (1-0.33)}{1.70}$$

$$= 190 \text{ bbl./acre foot}$$

Recoverable Oil
$$= \text{Original Oil in Place X Recovery Factor}$$

$$= 190 \text{ X } 0.35$$

$$= 66.5 \text{ bbl/acre-ft}$$

Recoverable Oil/Acre
$$= 66.5 \text{ X Net Feet of Pay}$$

$$= 66.5 \text{ X } 20$$

$$= 1330 \text{ barrels/acre}$$

40 Acre Recovery
$$= 53,200 \text{ barrels}$$

80 Acre Recovery
$$= 106,400 \text{ barrels}$$