

**CHESAPEAKE OPERATING INC  
LOST TANK 16 FEDERAL 4  
SECTION 16-T21S-R32E  
LEA COUNTY, NEW MEXICO**

**DATA :**

|                                  |                  |
|----------------------------------|------------------|
| Reservoir Pressure (Est)         | 3,050 psia       |
| Reservoir Temperature (Est)      | 130 degrees F    |
| Oil Gravity                      | 39.7 degrees API |
| Gas Gravity                      | 0.85             |
| Boi                              | 1.485 rb/stb     |
| Porosity                         | 0.14             |
| Water Saturation                 | 0.72             |
| h                                | 118 ft           |
| Recovery Factor                  | 0.18             |
| Maximum Over Production (Volume) | 14,628 bbl       |

**CALCULATION :**

$A = (\text{Volume} / (7,758 \text{ bbl/ac-ft} \times h \times \text{Porosity} \times (1 - \text{Water Saturation}) \times 1/\text{Boi} \times \text{Recovery Factor}))$

$A = (14,628 \text{ bbl} / (7,758 \text{ bbl/ac-ft} \times 118 \text{ ft} \times 0.14 \times (1 - 0.72) \times 1/1.485 \text{ rb/stb} \times 0.18))$

$A = 3.4 \text{ ac}$