

**SAMSON RESOURCES COMPANY  
MINIS 2 FEDERAL #1  
SOUTHEAST HAT MESA - DELAWARE POOL  
SECTION 2-T21S-R32E  
LEA COUNTY, NEW MEXICO**

**DRAINAGE AREA CALCULATION :**

$$\text{AREA} = \text{EUR} / (7,758 \text{ bbl/ac-ft} \times h \times \phi \times (1 - S_w) \times 1/\text{Boi} \times \text{Rec Factor})$$

**DATA :**

EUR =	761,000 BBL	(Rate vs Time Curve - Simulation)
h =	20 ft	(Well Logs)
$\phi$ =	19%	(Well Logs)
S <sub>w</sub> =	32%	(Well Logs)
Boi =	1.283 RB/STB	(Correlation)
Rec Factor =	20%	(Boone Toolkit)

**CALCULATION :**

$$\text{AREA} = 761,000 / (7,758 \text{ bbl/ac-ft} \times 20 \times 19\% \times (1 - 32\%) \times 1/1.283 \times 20\%)$$

**AREA = 244 acres**