

**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)
ϕ =	19%	(Well Logs)
S _w =	32%	(Well Logs)
Boi =	1.283 RB/STB	(Correlation)
Rec Factor =	20%	(Boone Toolkit)

CALCULATION :

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

$$\text{AREA} = 244 \text{ acres}$$