

**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 =	945,000 BO	(Rate vs Time Curve - Simulation)
h =	20 ft	(Well Logs)
ϕ =	0.19	(Well Logs)
S _w =	0.32	(Wells Logs)
Boi =	1.283	(Correlation)
Rec Factor =	0.28	(Simulation)

CALCULATION :

$$\text{AREA} = 945,000 \text{ st bbl} / (7,758 \text{ bbl/ac-ft} \times 20 \text{ ft} \times 0.19 \times (1 - 0.32) \times 1/1.283 \text{ res bbl/st bbl} \times 0.28)$$

$$\text{AREA} = 216 \text{ acres}$$