Henry No. 1 (Strawn)

A = acres

H = Reservoir Thickness (Ft.)

 \emptyset = Porosity (%)

 $S_{W} = Connate Water (%)$

BHP = Reservoir Pressure (psia)

T = Reservoir Temperature (°R)

Z = Compressibility Factor

Recoverable Volume of Gas (MCF) = (A)(H)(43.560)(ϕ)x(1-S_W) x $\frac{60+460}{T}$ x $\frac{BHP}{T}$ x $\frac{1}{Z}$ x RF

from P/Z curve - recoverable gas equals 9,450,000 MCF

9,450,000 MCF = (A)(75 ft)(43.560ft²/ac)(.059)(.61)
$$(60 + 460)(5,547)(1)(.81)$$
 (.81)

Solving for A

A = 342 acres

JRP:sh-586

