Drainage Radius Calculation

- Standard Gas-in-Place formula
 - Rearranged the formula to solve for area, A
 - Substituted G_i as UltG_n / RF Where $UltG_p$ is ultimate gas produced and RF is recovery factor

Formula Inputs – calculated per well ۲

Ultimate recovery per well

Forecasted individual well remaining gas reserves using exponential decline method

- Ultimate gas production calculated from gas produced plus forecasted remaining gas reserves
- Porosity height (phih) calculated from Whiting's net pay map
- Recovery factor, initial water saturation, and temperature from Oxy's August 2010 Exhibit
- Initial reservoir pressure from Broadhead's published pressure regions for Bravo Dome Area
- z-factor from SPE Monograph, "Practical Aspects of CO2 Flooding"
- Formula Output ۰
 - Calculate Area in acres
 - Convert acres to feet assuming circular drainage radius

Reliant Exhibit #16

$G_i = 1546.2 \phi (1 - S_w) p_i A h/(z_i T)$

- G_i = initial gas-in-place at standard conditions, MCF phi = porosity
- Sw = initial water saturation
- p_i = initial reservoir pressure, psia
- A = area, acres
- h = reservoir height, ft
- z_i = gas compressibility at initial reservoir condition, dimensionless
- T = reservoir temperature, Rankin