Volumetric Analysis
Tonto "14" State No. 1 and No. 2
Airstrip (Bone Spring) Field

Meridian - Tonto "14" State No. 1 (Completed 4/85)

If EUR = 225,000 BO as indicated by performance decline curve analysis

h_{net} = 43'
$\emptyset_{avg}$ = 4.0%
B_{oi} = 1.06 RB/STB
S_w = 32%
R_f = 25% (assumed since not sure of drive mechanism, Solution Gas Drive = ±15% and Water Drive = ±40%)

$$ROIP = (7758)(A)(h)(\emptyset)(1-S_w)\left(\frac{1}{Boi}\right)(R_f)$$

or,
$$A = \frac{(ROIP)(Boi)}{(7758)(h)(\emptyset)(1-S_w)(R_f)}$$

$$A = \frac{(225{,}000)(1.06)}{(7758)(43')(0.04)(1-0.32)(0.25)} = 105.1 \text{ acres}$$

Meridian - Tonto "14" State No. 2 (Completed 3/86)

If EUR = 150,000 BO as indicated by performance

h_{net} = 28'
$\emptyset_{avg}$ = 4%
B_{oi} = 1.06 RB/STB
S_w = 30%
R_f = 25%

$$A = \frac{(150{,}000)(1.06)}{(7758)(28')(0.04)(1-0.30)(0.25)} = 104.6 \text{ acres}$$

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
MERIDIAN EXHIBIT NO. 5
CASE NO. 9037