

SAN JUAN 28 7 UNIT 226

N 36 28N 07W

30-039-20997

1110/S 1840/W

F



DRAINAGE RADIUS
Natani #17

R--radius of drainage in feet
 Gr--Recovered Gas (mcf) 88712
 Bg--Formation Volume Factor
 A--Acres
 Cs--Standard Atmospheric 14.7 psi @ 60 F 35.35
 φ--Porosity (%) 12%
 Ca--Coefficient, Cu Ft/Acre Ft 43560
 h--Height of net pay in feet 38
 Sw--Water saturation (%) 80%
 Rf--Recovery factor (%) 86%
 Z-- gas deviation factor
 T--Temperature R
 P--static bottom hole pressure (psi)

Bgi=C_s*P/Z*T 23.8047

Bga 3.3691

Bgi--gas formation factor-Initial

Bga--gas formation factor-abandonment

Cs 35.35
 P 350
 Z 0.945
 T 550

Cs 35.35
 P 52
 Z 0.992
 T 550

Rf=Bgi-Bga/Bgi 0.8585

$$A = G_r \cdot 1000 / C_a \cdot \phi \cdot h \cdot (1 - S_w) \cdot B_g \cdot R_f$$

109.27 Acres

$$A = \pi \cdot R^2 / 43560$$

$$R^2 = A \cdot 43560 / \pi$$

Radius =

1231 feet