

Drainage Pattern Calculations

Elliptical N10-N40 Degrees East

Studies have found a 3 to 1 directional permeability effect on drainage patterns in the San Juan Basin.

Equation for the Area of an Ellipse: $\text{PI} * a * b = \text{Area}$

$b = 1/3$ of a

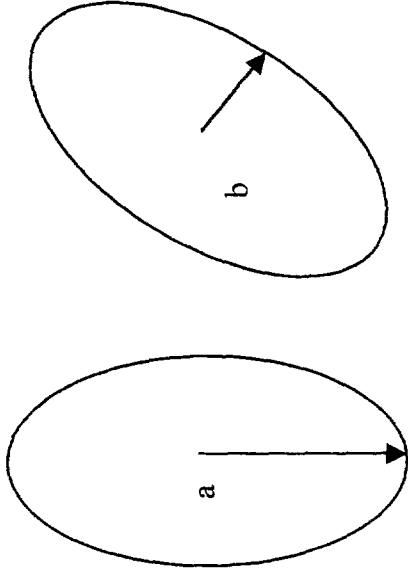
Area = 160 acres = 6,969,600 ft^2

$\text{PI}/3 * a^2 = 6,969,600 \text{ ft}^2$

Solving for a in feet

$a = 2580'$ Long Radius

$b = 859'$ Small Radius



Rotation based upon Fracture Permeability Direction

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