

EXHIBIT
CALCULATION OF DISTANCE TO ANOMOLY

Thickness: $H = 74$ feet

Viscosity: $M = .35$ centipoise

Porosity: $\phi = 12\%$

Oil Compressibility: $= 14.61 \times 10^{-6}$

Time: $T = 1920$ minutes

Permeability: $K = 43$ millidarcies

Distance to anomaly: R_a

$$R_a = 1.57 \times 10^{-3}$$

$$\frac{KT}{\phi UC}$$

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$$\frac{43(1920)}{.12(.35)(15.61 \times 10^{-6})}$$

$$R_a = 554 \text{ feet}$$

using $C = 1.5$ $R_a = 783$ ft

Could be a porous barrier or water content, fault etc.

Cannot be orientated to a specific direction

BEFORE EXAMINER QUINTANA	
OIL CONSERVATION DIVISION	
PENNSYLVANIA	EXHIBIT NO. 19
CASE NO.	8727