

## EXHIBIT 4

### CALCULATIONS SHOWING THE LENGTH OF TIME TO BEGIN TO DRAIN TO THE RESERVOIR BOUNDARY

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- **Results of Pressure Buildup Analysis on Snake Eyes #2 Well:**

*Done in early 1991*

$$K_g = 1.1 \text{ md}$$

- **Calculation of Time to Reach Psuedo-Steady-State Flow in a 320  
Ac Drainage Area (Advances in Well Test Analysis)**

$$t_{pss} = \frac{\phi u C_t A}{.0002637k} * t_{DA} \text{ ----- (2.24)}$$

$$t_{pss} = 1.43 \text{ yr}$$

**CONCLUSION:** It will take an unacceptable length of time  
to drain the reservoir.

Merrion Oil & Gas Corporation Case 10413 December 5, 1991
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