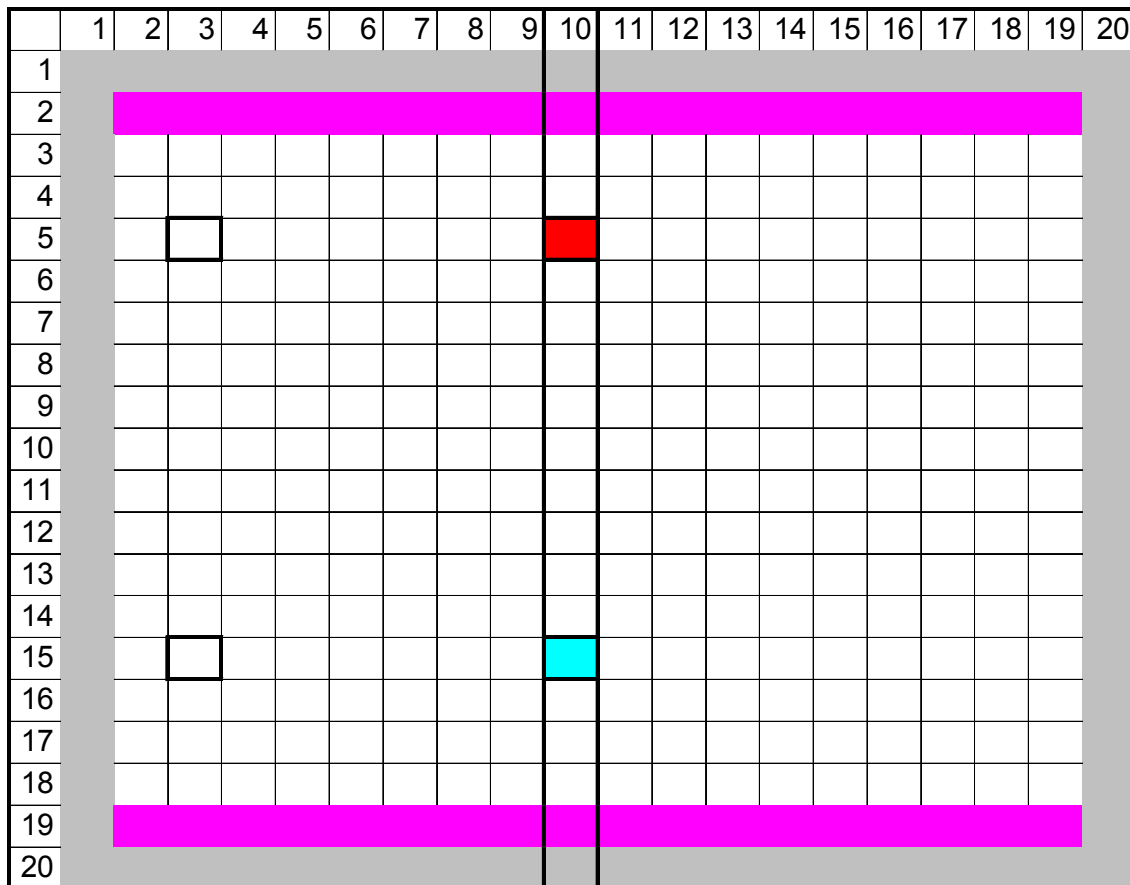


These six configurations can be studied to determine where the injection well should be located relative to the production well.

For this study we will use a 20 x 20 grid with: $\Delta x = 500\text{m}(1640 \text{ ft})$; $\Delta y = 200\text{m} (656 \text{ ft})$.;
 $K = 16.6 \text{ m/day} (54.0 \text{ ft/day})$; $a_L=50\text{m} (164.0 \text{ ft})$;
 $a_T=5\text{m}(16.4 \text{ ft})$; $n=0.35$; $Q_{\text{drink}} = 2.8 \text{ MGD} (4.33 \text{ cu.ft./sec})$



Casing Failure Simulation - Case 1; 20 x 20 Grid

10,1,20,20,3200,1,7,1,100,2,9,2,0,0,0,0,0,0

2.0,0.001,0.30,164.0,0.0,0.0,0.0,1640.0,1640.0,0.10,0.49,1.0

10,15 Observation Well

10,15,4.3333,0.00 Pumping Well

10,5, -0.0000,1000.00 Injection Well (-0031 for breach)

