

## AOR BOUNDARY CONDITIONS DESCRIPTION

### CTV V

#### AoR Boundary Condition

##### *Site Geology and Hydrology*

The project involves injecting CO<sub>2</sub> into the [REDACTED]

[REDACTED] Structure in the area is characterized as [REDACTED]

(Upper

Confining Zone and Internal Barrier are described in the **Attachment A**). [REDACTED]

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The Class VI injection wells will target injection in the [REDACTED] (Upper Injection Zone) and [REDACTED] (Lower Injection Zone). Well data, open-hole well logs (**Figure 2**), core data, and 2-D and 3-D seismic lines were used to define the subsurface geological characteristics of stratigraphy, lithology, and rock properties. [REDACTED]

#### *Boundary Conditions*

The following boundary conditions were applied to the two simulation model domains:

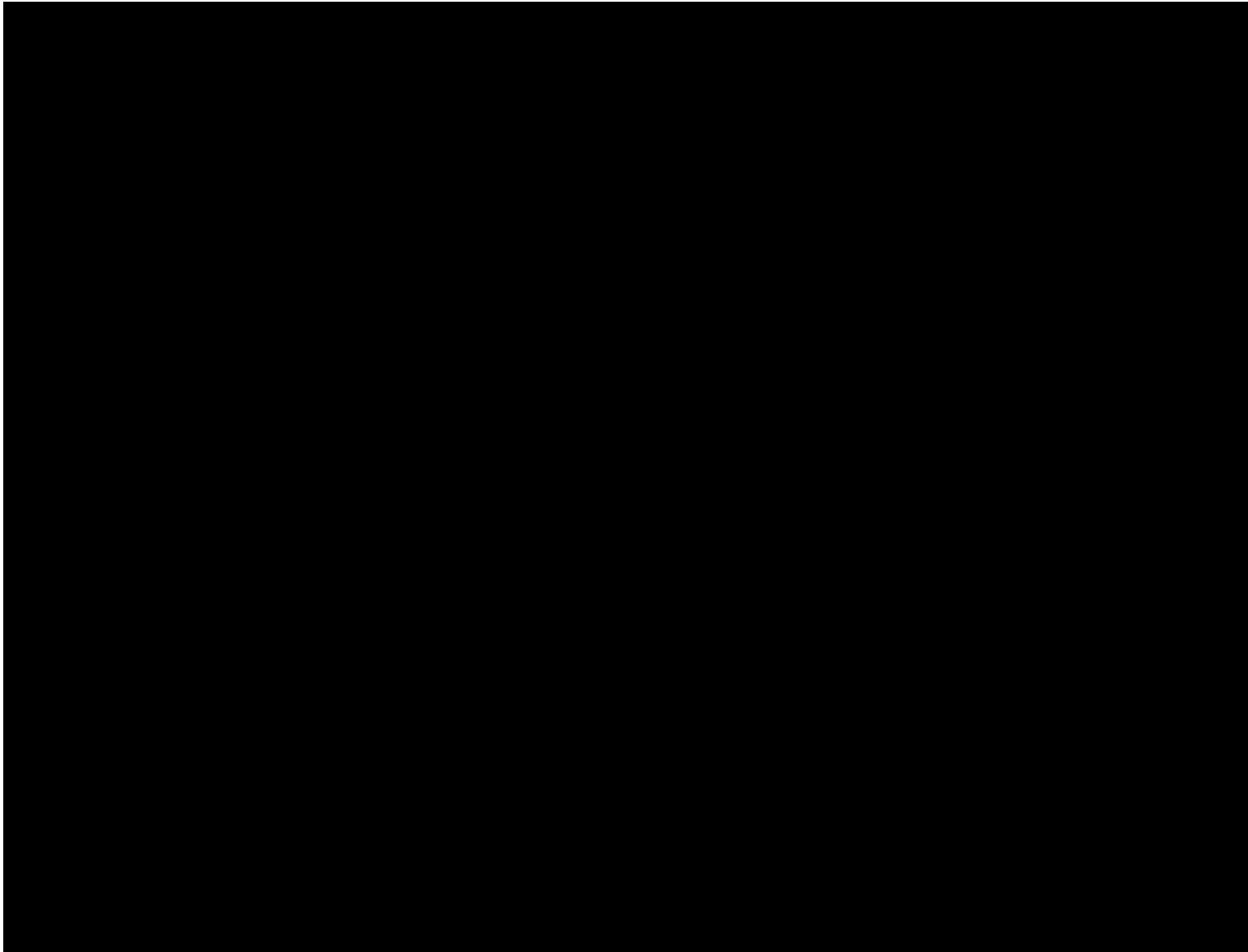
1. The Upper Injection Zone model has open-boundary conditions

over the model domain.

2. The Lower Injection Zone model has open-boundary conditions

over the model domain.

## **FIGURES**



**Figure 1.** Cross section showing stratigraphy and lateral continuity of major formations across the AoR.

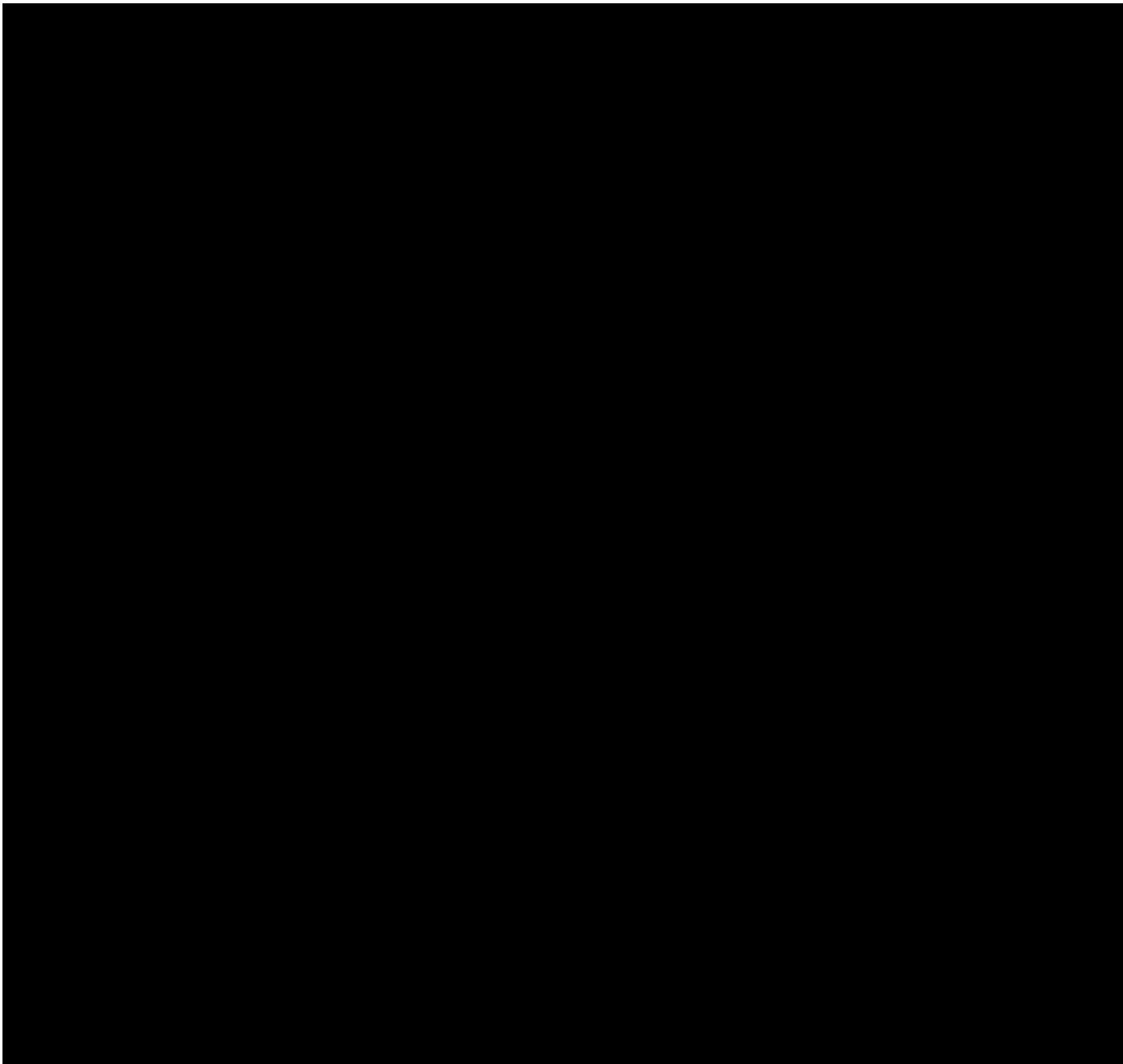


Figure 2. Location of wells with open-hole log data used to develop the static and computational models.