2-Ram Capping Stack vs. 3-Ram Capping Stack

**2-Ram Capping Stack**
- Shut In Only

- 2 BOP rams
- Capping Stack and Transition Spool with Mule Shoe deployed as single unit
- No side outlets
  - No fail open
  - No ability to vent pressure
  - No ability to relieve differential pressure across rams
- No hydrate mitigation
- Hard shut in

<table>
<thead>
<tr>
<th><strong>3-Ram Capping Stack</strong></th>
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<tbody>
<tr>
<td>Collection with Ability to Shut In</td>
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- 3 BOP rams
- Capping Stack and Transition Spool with Mule Shoe deployed as separate units
- 2 side outlets
  - Fail open
  - Ability to vent pressure
  - Ability to relieve differential pressure across rams
- Hydrate mitigation
- Soft shut in
- Pressure sensor

Source: TREX 141115, 144630