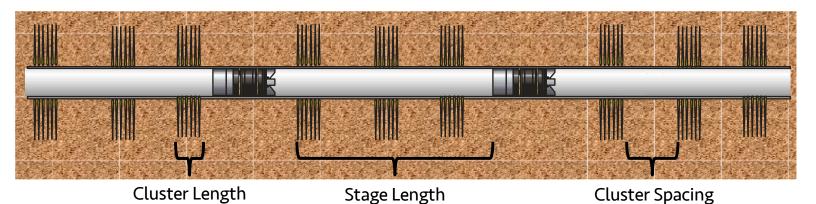
UNLIMITED Completion Operations Education Series

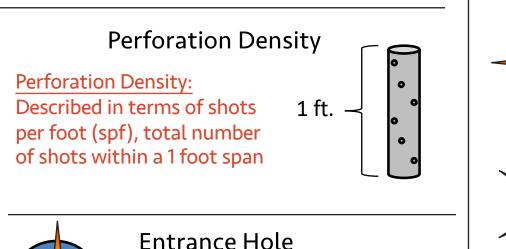
Perforating Terminology

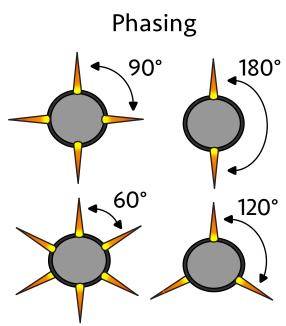


<u>Stage Length</u>: Distance from frac plug to top perforation, some companies may consider stage length as the distance from plug to plug

<u>Cluster Length</u>: Distance from bottom perforation to top perforation on a single perf gun

Cluster Spacing: Distance between clusters





Perforation Phasing: The angular separation between shots





Entrance Hole: The diameter of

the hole in the casing that the

perforation gun creates