

# ISOLATION REQUIREMENTS FOR TYPICAL WELLS

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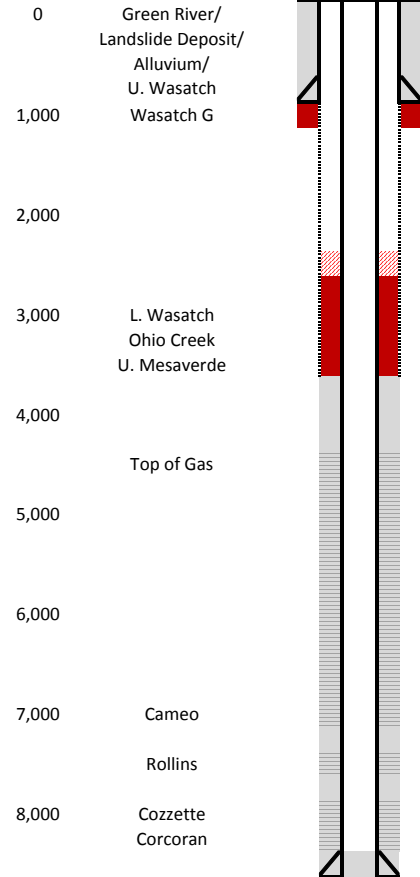
FIELD NAME MAMM CREEK  
FIELD NUMBER 52500

**LOCATION**

Basin Piceance  
Township(s) 5S to 8S  
Range(s) 91W to 93W

**Note:** Depths to formation tops differ significantly with changes of ground surface elevation and geologic structure across the field. Refer to the Stratigraphy chart on the Field Scout Card. These wellbore diagrams reflect average depths in a small portion of the field. Also refer to standards in adjacent fields for guidance.

**Depth Formation/Member**



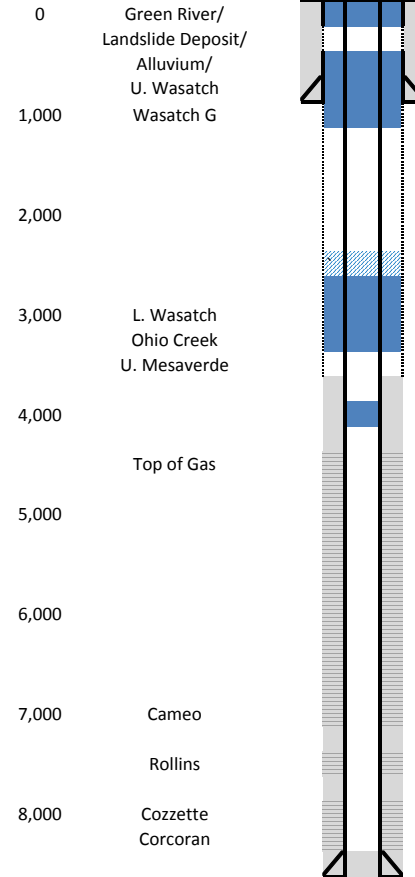
**Casing and Cement Coverage**

**New Surface Casing Standard**  
Minimum 10% TVD (15% in East Mamm Creek Area) or cover all apparent water resources in the Green River (if present) and U. Wasatch, whichever is more stringent

**New Cement Standard**  
Cement must provide coverage across Ohio Creek and Lower Wasatch, in addition to productive interval coverage. Increase to 500' above Lower Wasatch coverage if well is in Lower Wasatch 500' Coverage Area. Increase to 200' above Molina top in Atwell Gulch/Molina UIC area.

**Typical Older Well Configuration**  
TOC covers productive intervals, but cement coverage of U. Mesaverde, Ohio Creek and L. Wasatch may be lacking

**Depth Formation/Member**



**Plug Placement**

Surface plug  
Surface casing shoe plug  
Set deeper shoe plug if casing depth < 1,000 feet  
Squeeze plug across Ohio Creek and L. Wasatch (top of plug 500' above L. Wasatch if well is in Lower Wasatch 500' Coverage Area) Add Atwell Gulch and Molina in UIC area  
Stabilization squeeze plug (use if separation between plugs above and below are > 3,000 feet); not shown on this figure  
Plug in casing above Mesaverde Group Completions