

# ISOLATION REQUIREMENTS FOR TYPICAL WELLS

Date 04/18/2016

COGCC Document No. 2056111

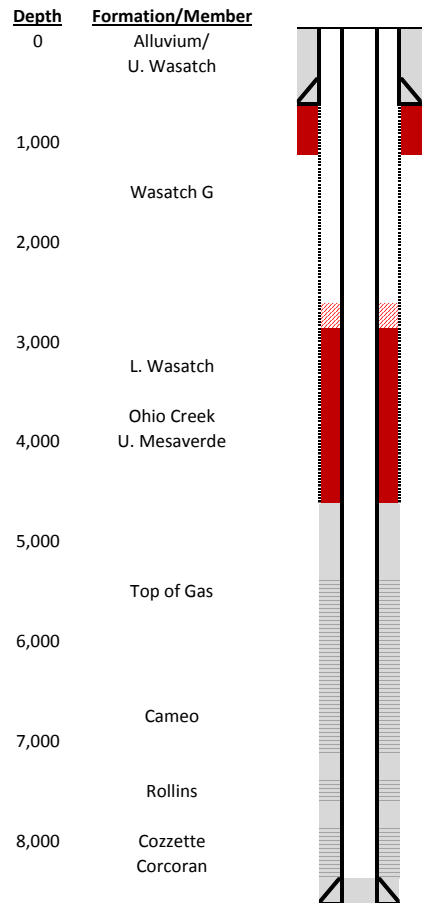
FIELD NAME ALKALI CREEK  
FIELD NUMBER 1950

**LOCATION**

Basin Piceance  
Township(s) 7S to 9S  
Range(s) 92W

**Notes:**

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. Cement isolation requirements of 200' above L. Wasatch are for Township 9S-92W, and cement isolation requirements of 500' above L. Wasatch are for 7S-92W and 8S-92W.

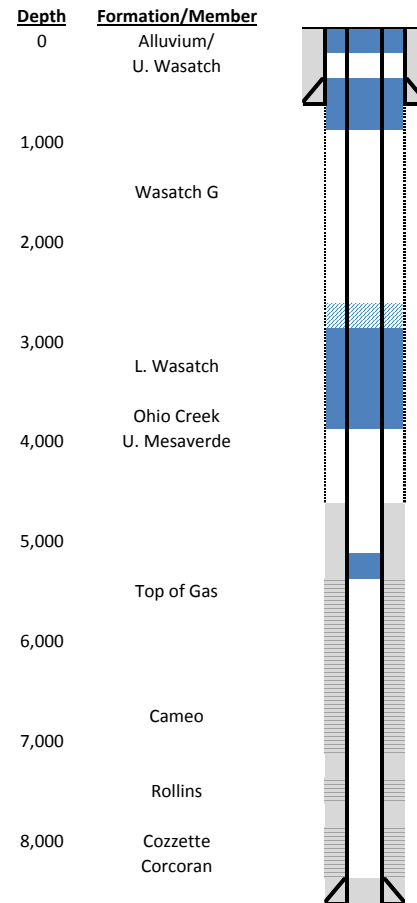


**Casing and Cement Coverage**

**New Surface Casing Standard**  
Minimum 10% TVD or cover all apparent water resources in the U. Wasatch, whichever is more stringent.

**New Cement Standard**  
Cement must provide coverage across Ohio Creek and Lower Wasatch (200'/500' above Lower Wasatch), in addition to productive interval coverage.

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



**Plug Placement**

Surface plug

Surface casing shoe plug  
Set deeper shoe plug if casing depth < 900 ft

Stabilization squeeze plug (use if separation between plugs above and below are > 3,000 feet); not shown on this figure

Squeeze plug across Ohio Creek and L. Wasatch (top of plug 200'/500' above L. Wasatch)

Plug in casing above Mesaverde Group Completions