ISOLATION REQUIREMENTS FOR TYPICAL WELLS

Date 04/18/2016 **COGCC Document No.** 2056129

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.

. 0-1-7		
Depth 0 1,000	Formation/Member Green River/ Landslide Deposit/ Alluvium/ U. Wasatch Wasatch G	Casing an New Surface Casing Minimum 10% TVD Area) or cover all ap in the Green River (i whichever is more s
2,000		New Cement Standa Cement must provid Creek and Lower Wa productive interval of
3,000	L. Wasatch Ohio Creek U. Mesaverde	above Lower Wasate Lower Wasatch 500' to 200' above Molin Molina UIC area.
4,000		
5,000	Top of Gas	Typical Older Well C TOC covers producti coverage of U. Mesa and L. Wasatch may
6,000		
7,000	Cameo	
	Rollins	
8,000	Cozzette Corcoran	

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	<u>Depth</u> 0 1,000	Formation/Member Green River/ Landslide Deposit/ Alluvium/ U. Wasatch Wasatch G	
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.	2,000	L. Wasatch Ohio Creek U. Mesaverde	
Typical Older Well Configuration	4,000		н
TOC covers productive intervals, but cement coverage of U. Mesaverde, Ohio Creek and L. Wasatch may be lacking	5,000	Top of Gas	
	6,000		
	7,000	Cameo	
		Rollins	
	8,000	Cozzette Corcoran	

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