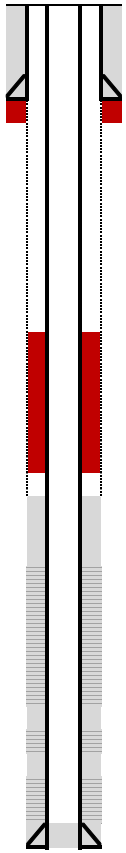
ISOLATION REQUIREMENTS FOR TYPICAL WELLS

Date 04/18/2016 **COGCC Document No.** 2056120

FIELD NAME **SHEEP CREEK**
FIELD NUMBER **77200**

LOCATION
Basin Piceance
Township(s) 9S
Range(s) 92W

Depth	Formation/Member
0	Alluvium/ Landslide Deposits/ U. Wasatch
1,000	
2,000	
	Wasatch G
3,000	
	L. Wasatch
4,000	
	Ohio Creek
	U. Mesaverde
5,000	
6,000	Top of Gas
7,000	
	Rollins
8,000	
	Cozzette
	Corcoran



Casing and Cement Coverage

New Surface Casing Standard
Minimum 5% TVD (10% recommended) or cover all apparent water resources in the U. Wasatch, whichever is more stringent. Recommend 1,000 ft or greater based on potential water resources apparent on induction logs.

New Cement Standard
Cement must provide coverage across Ohio Creek and 200 ft above L. 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

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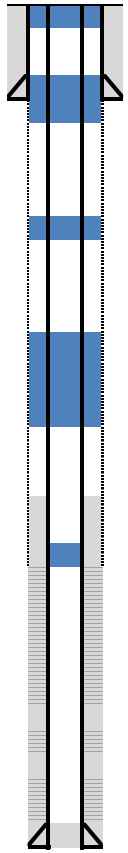

Plug Placement

Surface plug

Surface casing shoe plug
Set deeper shoe plug if casing depth < 1,000 ft

Stabilization squeeze plug (use if separation between plugs above and below are > 3,000 feet)

Squeeze plug across Ohio Creek and across L. Wasatch (top of plug 200 ft above L. Wasatch)

Plug above Mesaverde Group Completions