

## Well Name: MCU 21-4CC (M16W)

### Permit Estimated Formation Tops (MD / TVD)

16" Conductor @ 60'

Cement to surface with 5 yds redi-mix

Wasatch	Surface / Surface
14.75"	Hole to 200' MD
12.25"	Hole to Surf TD

Surface Casing	1117 / 1100
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9.625" - 36# - 55 Grade - 8 Round

Cement to surface with:

Lead: 287 sxs 12.5 Glass G 2.11 ft<sup>3</sup>/sk

Tail: 134 sx, 15.8, Class G 1.17 ft<sup>3</sup>/sk

Total: 421 sx

(volume includes 80% excess)

8.75" Hole to Top of Gas

7.875" Hole to TD

TOC Requirement 200 ft above Mesa V

Ohio Creek	6492 / 6326
Mesaverde Marker	6492 / 6326
Williams Fork	7283 / 7095
Top Gas	8143 / 7943
Coal Ridge	9272 / 9072
Rollins	10068 / 9868
Cozzette	- / -
Corcoran	- / -
Permit TD	10318 / 10118

Production Casing	10318 / 10118
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4.5" - 11.6# - 80 Grade - Buttress

Cement with:

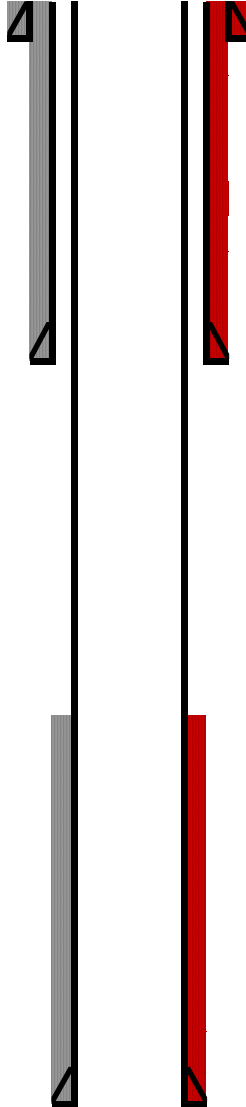
Lead: 413 sx, 12 TXI, 1.79 ft<sup>3</sup>/sk

Tail: 450 sx, 13 TXI, 1.43 ft<sup>3</sup>/sk

Total: 863 sx

(volume includes 30% excess)

### Casing & Hole size



### Actual Conditions (MD / TVD)

16" Conductor @ 40'

Cement to surface with 5 yds redi-mix

Wasatch	Surface/ Surface
14.75"	to 186' MD
12.25"	Surface Hole

Surface Casing	1131' / 1113'
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9-5/8" 36" J55 LTC

Cemented to surface with

Lead: 277 sxs 12.5# G at 2.11 ft<sup>3</sup>/sk

Tail 149 sxs 15.8# G at 1.16 ft<sup>3</sup>/sk

Total: 426 sxs

8.75" Hole to 7252' MD

7.875" Production Hole

TOC from CBL: 5210' MD

Ohio Creek	Not picked
Mesaverde Marker	6507 / 6335
Williams Fork	7293 / 7101
Top Gas	8138 / 7939
Coal Ridge	9263 / 9063
Rollins	10068 / 9868
Cozzette	N/A / N/A
Corcoran	N/A / N/A
Actual TD	10245' / 10044'

Production Casing	10223' / 10022'
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4.5" 11.6# S80 BTC

Cement with:

Lead: 474 sxs 12# TXI at 1.79 ft<sup>3</sup>/sk

Tail: 330 sxs 13# TXI at 1.88 ft<sup>3</sup>/sk

Total: 804 sxs