

**Surface**  
**Federal**

**Minerals**  
**Federal**

**Name**  
**HMU 6-13D (J6SEB)**

**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	1372	/	1335
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**9.625" - 36# - 55 Grade - 8 Round**

Cement to surface with:

Lead: 355 sxs 12.5 Glass G 2.11 ft³/sk

Tail: 134 sx, 15.8, Class G 1.17 ft³/sk

Total: 489 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	-	/	-
Mesaverde Marker	5425	/	5153
Williams Fork	6064	/	5755
Top Gas	7127	/	6794
Coal Ridge	8197	/	7864
Rollins	8951	/	8618
Cozzette	9527	/	9194
Corcoran	9691	/	9358
Permit TD	10291	/	9958

Production Casing	10291	/	9958
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**4.5" - 11.6# - 80 Grade - Buttress**

Cement with:

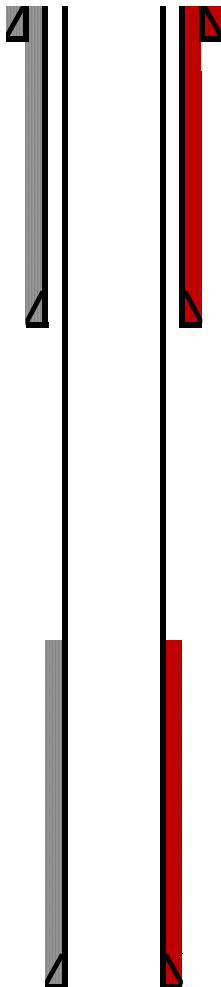
Lead: 424 sx, 12 TXI, 1.79 ft³/sk

Tail: 655 sx, 13 TXI, 1.43 ft³/sk

Total: 1079 sx

(volume includes 30% excess)

**Casing &**  
**Hole size**



**Actual**  
**Conditions**  
**(MD / TVD)**

**16" Conductor @ 64'**

Cement to surface with 5 yds redi-mix (114 sks)

Wasatch	Surface /	Surface
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**12.25" Surface Hole 1408 / 1366.63**

Surface Casing	1389	/	1348.84
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**9.625" - 36# - 55 Grade - 8 Round**

Cemented to surface with

Lead: 357 sks 12.5ppg Class G 2.11 ft³/sk

Tail: 135 sks 15.8ppg Class G 1.16 ft³/sk

Total: 492 sks

70 bbls cement return to surface

**7.875" Production Hole 7174 / 6843.2**

**TOC from CBL: 4820 / 4581.12**

Ohio Creek	5394	/	5121
Mesaverde Marker	5394	/	5121
Williams Fork	5957	/	5652
Top Gas	7054	/	6723
Coal Ridge	8089	/	7758
Rollins	8832	/	8501
Cozzette	9381	/	9049
Corcoran	9561	/	9229
Actual TD	10171	/	9839

Production Casing	10154	/	9822
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**4.5" - 11.6# - P110/ 80 Grade - Varoughneck**

Cement with:

Lead 536 sks, 12 ppg, TXI, 1.79 ft³/sk

Tail 488 sks, 13 ppg, TXI, 1.88 ft³/sk

Total: 859 sks