

Well Name: Alp Fee 24-12D (J24NW)

| Permit Estimated Formation Tops (MD / TVD) | Casing & Hole size | Actual Conditions (MD / TVD) |
|---|-----------------------|--|
| 16" Conductor @ 60' Cement to surface with 5 yds redi-mix | | 16" Conductor @ 40' Cement to surface with 5 yds redi-mix |
| WasatchSurface / Surface 14.75" Hole to 200' MD 12.25" Hole to Surf TD | | WasatchSurface/ Surface |
| 12.25" Surface Hole | | |
| Surface Casing1297 / 1239 9.625" - 36# - 55 Grade - 8 Round Cement to surface with: Lead: 335 sxs 12.5 Glass G 2.11 ft³/sk Tail: 134 sx, 15.8, Class G 1.17 ft³/sk Total: 469 sx (volume includes 80% excess) | | Surface Casing1315' / 1236' 9-5/8" 36" J55 LTC Cemented to surface with Lead: 325 sxs 12.5# G at 2.11 ft³/sk Tail 150 sxs 1'sxs 15.8# G at 1.16 ft³/sk Total: 475 sxs |
| 8.75" Hole to Top of Gas 7.875" Hole to TD | | 8.75" Hole to 6238' MD 7.875" Production Hole |
| TOC requirement 500ft above TOG | | TOC from CBL: 3800' MD |
| Ohio Creek4275 / 3821 Mesaverde Marker4275 / 3821 Williams Fork5180 / 4613 Top Gas6368 / 5767 Coal Ridge7405 / 6804 Rollins8143 / 7542 Cozzette8719 / 8118 Corcoran8958 / 8357 Permit TD9458 / 8857 | | Ohio CreekNot picked Mesaverde Marker4423 / 3936 Williams Fork5158 / 4613 Top Gas6356 / 5780 Coal Ridge7412 / 6836 Rollins8220 / 7644 CozzetteN/A / N/A CorcoranN/A / N/A Actual TD8363' / 7786' |
| Production Casing9458 / 8857 4.5" - 11.6# - 80 Grade - Buttress Cement with: Lead: 112 sx, 12 TXI, 1.79 ft³/sk Tail: 640 sx, 13 TXI, 1.43 ft³/sk Total: 751 sx (volume includes 30% excess) | | Production Casing8320' / 7742' 4.5" 11.6# S80 BTC Cement with: Lead: 699 sxs 12.5# TXI at 1.58 ft³/sk Tail: 307 sxs 13# TXI at 1.88 ft³/sk Total: 1006 sxs |