

Well Name: Alp Fee 24-6A (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 Casing978 / 960 9.625" - 36# - 55 Grade - 8 Round Cement to surface with: Lead: 250 sxs 12.5 Glass G 2.11 ft³/sk Tail: 134 sx, 15.8, Class G 1.17 ft³/sk Total: 384 sx (volume includes 80% excess)		Surface Casing1045' / 1017' 9-5/8" 36" J55 LTC Cemented to surface with Lead: 245 sxs 12.5# G at 2.11 ft³/sk Tail 150 sxs 15.8# G at 1.16 ft³/sk Total: 395 sxs
8.75" Hole to Top of Gas 7.875" Hole to TD		8.75" Hole to 5970' MD 7.875" Production Hole
TOC requirement 500ft above TOG		TOC from CBL: 2490' MD
Ohio Creek4078 / 3913 Mesaverde Marker4078 / 3913 Williams Fork4942 / 4736 Top Gas6025 / 5796 Coal Ridge7081 / 6852 Rollins7871 / 7642 Cozzette- / - Corcoran- / - Permit TD8121 / 7892		Ohio CreekNot picked Mesaverde Marker4107 / 3932 Williams Fork4957 / 4754 Top Gas5998 / 5776 Coal Ridge7060 / 6836 Rollins7873 / 7650 CozzetteN/A / N/A CorcoranN/A / N/A Actual TD8068' / 7844'
Production Casing8121 / 7892 4.5" - 11.6# - 80 Grade - Buttress Cement with: Lead: 112 sx, 12 TXI, 1.79 ft³/sk Tail: 434 sx, 13 TXI, 1.43 ft³/sk Total: 546 sx (volume includes 30% excess)		Production Casing8047' / 7824' 4.5" 11.6# S80 BTC Cement with: Lead: 668 sxs 12.5# TXI at 1.58 ft³/sl Tail: 317 sxs 13# TXI at 1.88 ft³/sl Total: 985 sxs