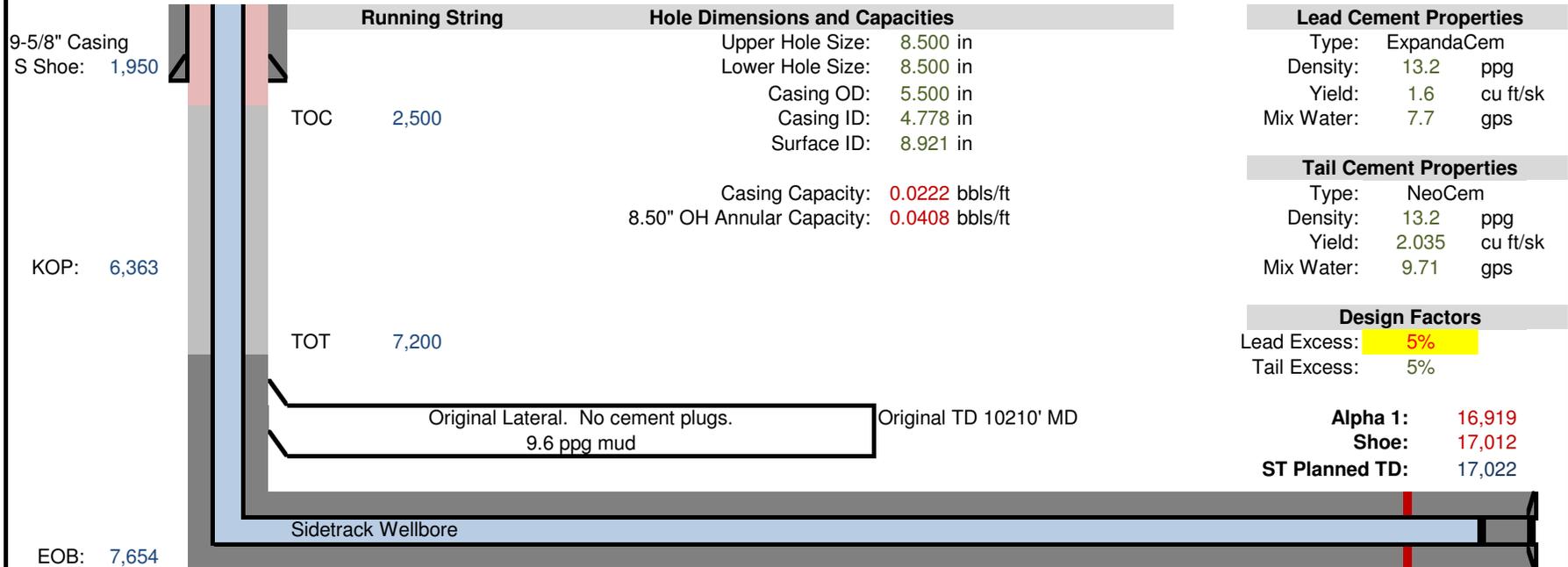


Centennial State G34-618 ST 5-1/2" Production String Cement Job



Note: Be sure to review cement calculations with the cement supervisor based on actual running string, cement yield, and pump time. **These are preliminary estimates only.**

Pump Schedule				Job Time (Estimate only)					
Tuned Spacer w/ Surfactant (11.5 ppg)	100.0	bbls		Spacer:	100	bbls	6 bpm	17	min
Lead Cement (13.2 ppg)	201.4	bbls	707 sks	Lead Cement:	201	bbls	7 bpm	29	min
Tail Cement (13.2 ppg)	421.2	bbls	1163 sks	Tail Cement:	421	bbls	7 bpm	60	min
Displacement (FW + Retarder):	377.3	bbls		Shutdown:	0	bbls	0 bpm	15	min
				Disp:	377	bbls	6 bpm	63	min
				TOTAL:	1100	bbls		183	min
								3.1	hrs