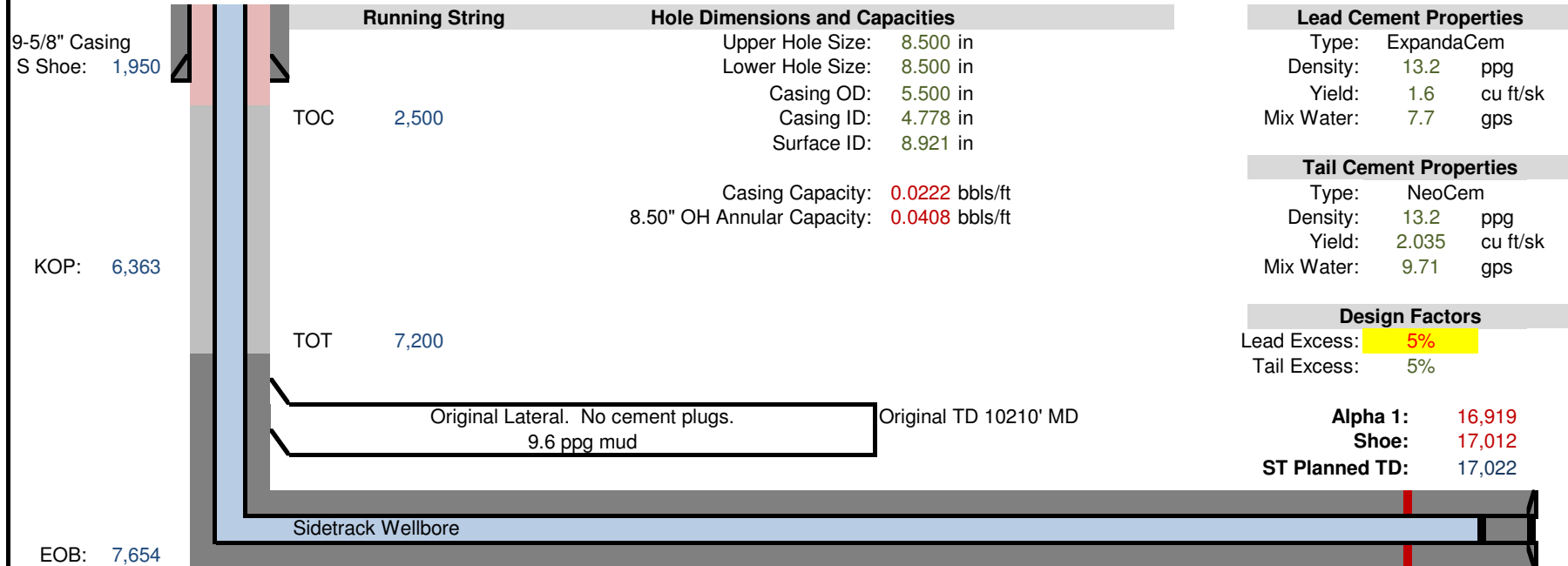


## Centennial State G34-618 ST

### 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