

**Vortex 12-53-3-1, API# 05-073-06535 – Plugging Summary:**

1. Cement first plug that covers the Marmaton from 5983'-5851' 40 sx 15.8# 1.15yd Neat cement with Retarder and friction reducer.
2. 2nd plug covers from 3736'-3604', 40 sx pumped of 15.8# 1.15 yd Neat cement with retarder and friction reducer.
3. 3rg plug covers from 3035' - 2903', 40 sx pumped of 15.8# 1.15 yd Neat cement with retarder and friction reducer.
4. 4th plug covers from 1325'- 1160', 50 sx of 15.8# 1.15 yd Neat cement no additives.
5. Halliburton pumped 15sx 15.8ppg 1.15cf/sk cement, displaced with 2blls water, last plug set at 50'-128'.