

Susquehanna River Basin Commission

a water management agency serving the Susquehanna River Watershed



CONSUMPTIVE USE METERING PLAN FOR APPROVAL BY RULE §806.22(f)

This standard Consumptive Water Use Metering Plan provides the methodology that will be used to account for the quantity of water consumptively used at each drilling pad. The daily quantity of water consumptively used shall be the quantity of water used per drilling pad, per day, for well drilling and construction, fracture stimulation, and various well completion processes and appurtenances; used in hydrostatic, geophysical, and other testing; incorporated into products, byproducts, and wastes; evaporated from any holding ponds; and used for dust control. In addition, any surplus water (unused) discharged to the ground surface or mixed with flowback fluid will be considered and reported as being consumptively used.

If this metering plan does not describe the consumptive water use accounting procedure that will be used, then the natural gas company is required to submit its own consumptive use metering plan in lieu of this one.

All water used for drilling operations and construction, including water used for grout preparation; water incorporated into products, byproducts, or wastes; and water used for dust control will be metered directly from the retention pond/tanker, or will be measured by using the volume contained in the tanker trucks multiplied by the number of tanker trucks.

All freshwater used for hydrofracture stimulation will be accounted for using metering of the total volume of fluids injected into the well minus the known volume of hydrofracing additives used.

All water used for hydrostatic testing of conveyance lines will be calculated as the difference between the volume of the metered inflow and outflow from the piping being tested.

Water used during geophysical and other testing will be metered directly from the retention pond/tanker, or will be calculated from the known volume of the water supply tank. This consumptive use will be reported to the Commission as part of the total consumptive use associated with the nearest existing Commission-approved drilling pad.

Evaporative losses from storage impoundments will be included in the accounting for consumptive use and assigned to the nearest existing Commission-approved drilling pad. Evaporative losses will be calculated using the monthly evaporation values obtained from the Commission's standard "Pond Evaporation Calculation" worksheet (SRBC Form #74).

To ensure that the daily maximum consumptive use limit is not exceeded at any time, the natural gas company personnel will coordinate and review on a daily basis the planned water use activities. Water use volumes and scheduling will be adjusted to ensure the consumptive use limit is not exceeded.

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