

Marcellus Operations Guiding Principles

FLAMMABLE ATMOSPHERES

- Natural gas encountered during drilling is flared or vented away from the work area
- During completions and flowback, flammable zones are established in areas where natural gas and condensate will be flared or vented
- Natural gas liquids (condensates) produced during flowback are stored in flammable zones during flowback and removed after flowback

HIGH PRESSURE SYSTEMS

- All equipment and components used in pressurized systems are appropriately rated and capable of operating under the maximum rated pressure
- High pressure pumps and equipment are only used when necessary and appropriate for the task
- Equipment used for pressurized services is tested for integrity

PIT DESIGN & OPERATION

- Prior to construction, potential pit locations are evaluated to establish suitability
- Pits are engineered and designed to be stable and impervious
- Pits are inspected to establish that they are constructed as designed
- Inspections are conducted regularly to evaluate pit integrity

WELL CONTROL

- EQT maintains a minimum of two barriers at all times between the open producing formation and the atmosphere
- A responsible person with a well control certification from an accredited training program is on site during drilling and completions
- Blowout preventers are tested prior to being placed into service
- Remote actuators are maintained for blowout preventers away from the rig and not tied to the rig hydraulic system

WELL DESIGN & CONSTRUCTION

- Wells are designed to protect fresh groundwater and prevent natural gas migration
- Surface casing is installed and the void outside of the casing is filled with cement
- If cement circulation to the surface is not possible for the surface casing, EQT installs baskets at appropriate depths and then grouts the annulus to surface to create a barrier between subsurface zones



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EQT Corporation

EQT Plaza
625 Liberty Avenue
Suite 1700
Pittsburgh, PA
15222-3111

412.553.5700

www.eqt.com