WEST VIRGINIA
EROSION AND SEDIMENT
CONTROL
Erosion and Sediment Control Plan: Over 3 acres disturbed, excluding pipelines and roads, must be certified by a registered engineer.

- Contain a narrative and set of drawings.
- The narrative must describe a general sequence of events, how and when each construction phase (clearing and grubbing etc.) will occur and describe stabilization methods to be used and timeframes when.
- The plan view drawings show the location of all proposed erosion and sediment control BMP’S in a scale of (1”-100’) or greater.
EXAMPLE WELL PAD & FLOWBACK PIT DETAILS
(PROPOSED WELLS NO.)

HORIZONTAL WELL PAD

PROPOSED PAD
- Total fill: 126,087.8 C.F., 26,494.4 C.Y.
- Cut slope percent grade: 50.00%, slope ratio: 2:1
- Fill slope percent grade: 50.00%, slope ratio: 2:1
- Top of Pad elevation: 3181.0'
- Containment Berms: 4,087.3 C.F., 949.3 C.Y.

PROPOSED FLOWBACK PIT
- Total fill: 24,582.7 C.F., 8,104.4 C.Y.
- Cut slope percent grade: 50.00%, slope ratio: 2:1
- Fill slope percent grade: 45.00%, slope ratio: 3:1
- Top of dart elevation: 3139.9'
- Bottom of pit elevation: 3120.0'
- Top of dart width: 12.7'
Permit Application Requirements

- Site Construction Plan: For sites 3 ac. or more disturbed, excluding pipelines and roads, plans must be certified by a registered engineer.
- Includes a vicinity map locating the site in relation to the surrounding area and roads.
- Plan view of site on a scale of (1”-100’) or greater, that provides existing topographic information on a contour interval that affords sufficient detail.
- Identifies proposed cut and fill areas with slope ratios.
- Includes cross-sections of length and width of the location with cut and fill volumes.
Sediment Barrier@Filter Strip
Sediment Barrier
GRIND STUMPS AND BRUSH
CLEARING AND GRUBBING
Sediment Trap H2O Control
Road Construction
Site Construction Criteria:

- Clear all woody material, brush, and trees from the site keeping clearing to the minimum necessary for construction.
- Topsoil shall be removed from construction areas and stockpiled for reuse during reclamation.
- Fill material shall be clean mineral soil, free of roots, stumps, sod, large rocks, frozen soil etc.
- Fill material will be placed in lifts over the entire length of the fill. Lift thickness shall be as thin as the suitable random excavated material will allow, typically from 6 to 12 inches.
- Each lift shall be compacted to a standard proctor density of at least 95% by compaction equipment or the hauling equipment.
- At the base of a fill slope a toe foundation will be constructed, and with each (50) vertical feet of slope a terraced bench shall be constructed.
Sediment control
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