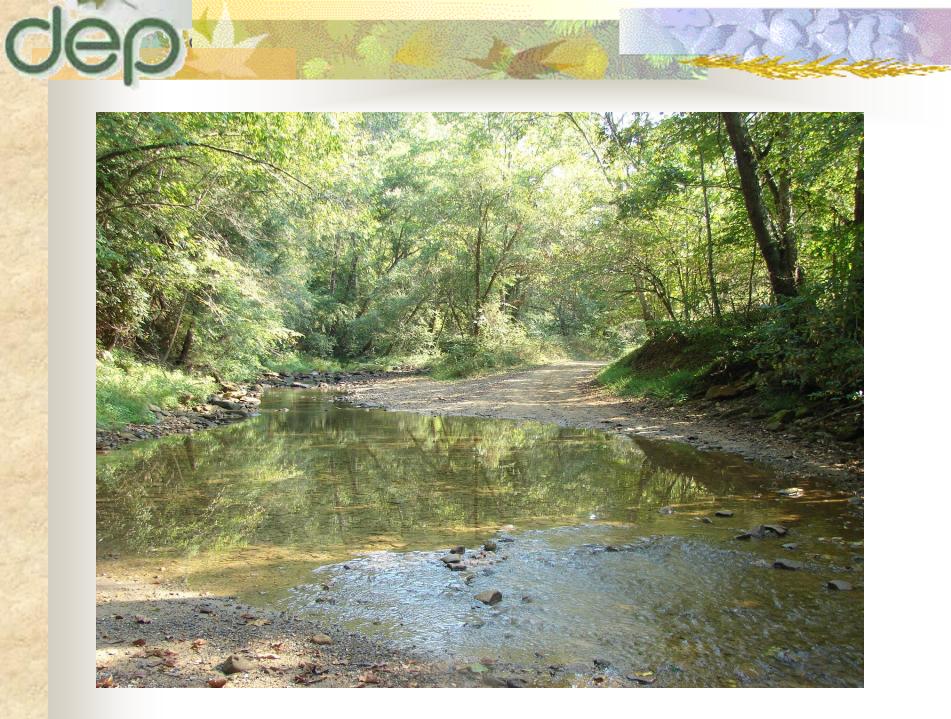
WEST VIRGINIA EROSION AND SEDIMENT CONTROL





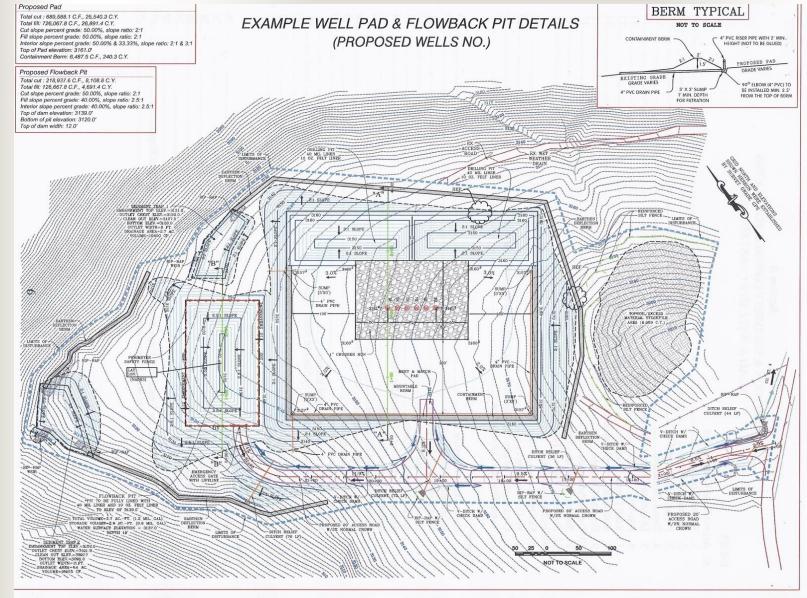




PERMIT APPLICATION REQUIREMENTS

- Erosion and Sediment Control Plan: Over 3 acres disturbed, excluding pipelines and roads, must be certified by 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 .

HORIZONTAL WELL PAD



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.

BARRIER@FILTER STRIP

SEDIMENT

SEDIMENT BARRIER



SEDIMENT BARRIER







SOIL STOCKPILING



SEDIMENT TRAP H20 CONTROL



SPREADER

CULVERT @ LEVEL



ROAD CONSTRUCTION

CONTROL

ROCK CHECKS H₂0



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.







HYDROSEEDING



SEDIMENT CONTROL



SEDIMENT CONTROL







WEST VIRGINIA EROSION AND SEDIMENT CONTROL

