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C.V. SPUR
MINE PLAN ADDENDUM
THICKENER OVERFLOW POND

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MINE PLAN ADDENDUM
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GENERAL

The preparation plant at C.V. Spur washes the raw coal and recirculates the wash water through a 120-foot diameter static thickener for clarification purposes. This thickener contains some 900,000 gallons of water and fine refuse. If the thickener were to malfunction and require immediate draining, the existing surface drainage system at C.V. Spur would possibly become overloaded by the volume of inflow. Therefore, it has become necessary to build an additional pond to be used strictly for the purpose of containing the thickener water in the event of emergency drainage. This pond will not be used as a sedimentation pond, nor will it have an overflow, since it is designed for total containment of the thickener water.

CONSTRUCTION

The topsoil (approximately six (6) inches) was removed prior to disturbance of the pond area. This soil was placed on the Topsoil Pile at the southwest corner of the property. The pile has since been reseeded and a berm was placed downslope for added protection of the topsoil. The pond was then dug out below ground level, with the earth removed used as a berm around the structure. The berm serves two purposes:

- 1) To allow a safety factor for volume of storage; and,
- 2) To prevent runoff from entering the pond and reducing storage capacity.

The edges have been graded and sloped to drain away from the pond. A 12-inch line will be installed to carry the thickener water directly to the pond, eliminating an open ditch for this purpose.

The pond measures 150 feet long by 120 feet wide by seven (7) feet deep, giving a storage volume of 945,000 gallons. Since the thickener can contain a maximum of 900,000 gallons of liquid, and since no less than twenty percent (20%) of this volume is sediment, the pond will contain all possible thickener drainage.

MAINTENANCE

If the overflow pond receives water from the thickener, this water will be pumped at a controlled rate from the pond into the settling/filtering ponds where it will be cleaned and recirculated into the plant washing system. The pump to be used is a gas-powered portable type, capable of pumping approximately 220 gpm. If sediment collects in the pond to a depth of two (2) feet or more, it will be cleaned with a dragline or other suitable device and disposed of on the existing refuse pile on site.

The area around the pond will be maintained to prevent runoff from entering this pond, but allowing it to enter the normal sedimentation ponds below.

ENVIRONMENTAL

As mentioned above, the existing topsoil was removed and stockpiled prior to disturbance of this area. It should also be noted that this pond construction took place within an area previously designated as disturbed; therefore, no additional disturbed area was added as a result of this construction.

The purpose of this pond is to prevent the overloading of the existing "closed" drainage system at C.V. Spur, thus reducing the possibility of an overflow from the property. Therefore, the entire purpose of this pond is to protect the hydrologic regime around C.V. Spur.

RECLAMATION

Upon initiation of final reclamation activities at C.V. Spur, this pond will be reclaimed, and the ground level restored to approximate original contour. The material taken from the ground to build the pond has been stored in the berms. This material will be placed back in the hole to restore the contour. Topsoil will be spread over the reclaimed area and the area will be reseeded with the approved seed mixture.

Since this pond is in the same general area of the sedimentation ponds, the schedule of reclamation and reseeded will be the same as discussed in the main body of the C.V. Spur Mining and Reclamation Plan previously submitted.

PLANS

The location of the new overflow pond is shown on the attached map. Design details and cross-sections of the pond are shown on the attached drawing.