

October 23, 2003

TO: Internal File

THROUGH: Daron R. Haddock, Permit Supervisor

FROM: Priscilla Burton, Environmental Scientist III/Soils.

RE: Technical Field Visit, Reclamation Mine #1 Breakout in South Fork Eccles Creek, Canyon Fuel Company, LLC., Skyline Mine, C/007/005

Other Attendees: Dan Meadors, General Manager
Doug Johnson, Mine Engineer

Date & Time: October 17, 2003

PURPOSE: To observe the reclamation of Mine #1 portal pad and highwall.

OBSERVATIONS:

Reclamation of the portal pad and highwall is almost complete. The final slope is estimated to be 1.84h:1v, a little steeper than 50% grade. The coal mine waste placed against the coal seam and has been covered with greater than five feet of fill. The contractor, Terry Brotherson Excavation (Mount Pleasant, Utah), has been working the fill from north to south at the site. The 1,300 Tons of mine waste is deeply buried in the fill and was placed in six-inch lifts with a dozer. Subsoil from Electric Lake and topsoil was also placed in six-inch lifts with the dozer.

We discussed compaction and the need to create an uncompacted rooting zone. Gouging for moisture retention and to loosen the compacted surface layer has been completed on about half the surface of the reclaimed pad. Prior to gouging a layer of straw mulch was placed on the surface and crimped in with gouging. The gouges appear to be random and are an appropriate depth (18 inches or so).

TECHNICAL FIELD VISIT

The site was then seeded and another layer of straw mulch was applied. Loose straw covers the gouged area, sometimes to a depth of six inches. The excess straw was removed from the site on Monday, October 20th (personal communication with Keith Zobel, the consulting project manager, on 10/20/2003).

Silt fences were well maintained along the road into the site and along the creek in the active work area.

The total fill required for the 0.46-acre pad site was 8,340 cu yds (personal communication from Doug Johnson 10/23/2003). In total, 285 truckloads of lake sediments were transported to the site. Based on truck records and cycle times, Mr. Johnson indicated:

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|---|---------------------|--|
| 1 | Waste transported | = 2,440 cu yds |
| 2 | Lake sediments | = 2,565 cu yds (30% of the 8,340 cu yd fill) |
| 3 | Land bridge subsoil | = 605 cu yds |
| 4 | Topsoil (to date) | = 2,975 cu yds |

Electronic images of the reclamation were saved to a disc and delivered to the Division on October 22, 2003. They are filed with the 2003 Incoming folder.

RECOMMENDATIONS/CONCLUSIONS:

Excess topsoil and subsoil should be used to reduce cut of the road leading south from the site and to reduce the cut at the "knob" topsoil storage area.