

September 9, 2003

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: James D. Smith, Environmental Scientist III/Hydrology

RE: Technical Field Visit, Phase II Reclamation, Energy West Corp., Des Bee Dove Mine, C/015/017

Other Attendees: Pete Hess, PFO
Chuck Semborski, Energy West Corp.

Date & Time: Tuesday, February 11, 2003, 1:00 p.m. – 3:00 p.m.

PURPOSE:

To observe the progress of Phase II reclamation, and specifically to examine the “the slope above (northeast) of the access road immediately below the Phase I cattle trail” where extra soil had been removed the previous week (see FV_0204).

OBSERVATIONS:

1. Photos are in M:/Files/Coal/015017.dbd/IMAGES/ 02112003
2. The steep surface exposed where the extra soil was removed last week is not bedrock, but it is the same consolidated colluvial material found on the slopes throughout the canyon. This material is not friable, not easily broken by excavating equipment. Pete Hess was asked to participate because of his experience as a mining engineer. After examining the area where the extra soil was removed, Mr. Hess was of the opinion that the area will be stable (attached photo P0000830).

TECHNICAL FIELD VISIT

3. Concrete debris – from the thrust blocks that anchored the bypass culvert - is being removed from the cattle trail.
4. Boulders ($D_{50} = 4$ ft) are being placed over the Deseret portals and against the portal and pad faceup. Larger boulders ($D_{50} = 6$ ft) are being placed at the front of the structure to anchor it (attached photo P0003104). There was a discussion as to how D_{50} is determined for such large boulders: there was no definitive answer, the operator and contractor asserting the determination to be a function of rock density and mass rather than strictly of size. A PE is to certify whether the structure meets design and performance specs. (The design calculations in Appendix 15 indicate that $D_{50} = 1$ ft to be adequate and that the larger sized materials used provide a safety factor = 4.0.)

RECOMMENDATIONS/CONCLUSIONS:

The area where the extra soil was removed will be stable and will not compromise the integrity of the cattle trail. Other reclamation work appears to be following the MRP. There are no recommendations at this time, other than continuing inspections on a weekly basis.

cc: All Attendees
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P0000830 - Area where soil was removed from between the cattle trail segments.



P0003104 - D₅₀ 4-ft material next to wall and D₅₀ 6-ft on outslope side.