

0009

### Document Information Form

Mine Number: C/007/016

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To: DOGM

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Person N/A

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Date Sent: November 08, 1983

Explanation:

Memo to Coal file

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cc:

File in: C/007, 016, Internal

Refer to:

- Confidential
- Shelf
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Date \_\_\_\_\_ For additional information

November 8, 1983

Memo to Coal File:

RE: Technical Staff Site Visit  
Beaver Creek Coal Company  
Gordon Creek #2 Mine  
ACT/007/016, Folder No. 2 & 7  
Carbon County, Utah

On November 3, 1983, Tom Munson, John Whitehead and Bart Kale visited the Gordon Creek #2 Mine site accompanied by Dan Guy and Scott Raymond of Beaver Creek Coal Company. The purpose of the visit was to view, discuss and clarify several matters contained in the Hydrology Section of the Draft Technical Analysis for the Gordon Creek #2 Mine site. The various matters covered during the visit are denoted in the following paragraphs.

#### Water Truck Fill-up Area

Adequate sediment control at this site can be accomplished by a berm separating the disturbed area from the North Fork of the Gordon Creek stream channel. This area must be included as part of the surface facilities and shown on a map (perhaps as a separate addendum of similar scale to Plate 3-1). Other considerations such as reclamation, bonding, etc., should be incorporated into the mine plan where appropriate.

Additionally, in the narrative and plans for the truck fill-up area, the spillway for the small dam in the stream must be addressed. Sizing for a 25-year, 24-hour peak flow must be demonstrated as well as addressing other pertinent sections of UMC 817.49 (Impoundments).

#### Old Fan Site

The old fan site east of the main minesite can be adequately dealt with from a hydrology perspective if the following considerations are incorporated into the mine plan.

- A. Sediment control via the existing catch basin must be properly included in the plan and supported with calculations. This should include, at a minimum, sizing of the catch basin (cross-sections included) based on projected sediment contributions to the basin and adequate storage space to contain the 10-year, 24-hour runoff event.
- B. Sizing, including undisturbed drainage areas, and maintenance of the undisturbed diversion (terrace above the fan site) with calculations to support the diversion's ability to handle the 10-year, 24-hour rainfall runoff event must be included in the mine plan. Cross-sections of the ditch must also be included as well as measures to be employed to assure separation of undisturbed and disturbed drainage.

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- C. The site must be incorporated into the mine plan as a portion of the surface facilities (e.g., including it as a separate addendum of similar scale to Plate 3-1).
- D. Other considerations, such as reclamation, bonding, etc., should be incorporated into the plan where appropriate.

#### Sediment Pond Discharge Device

The configuration of the conveyor belting used to convey water discharged from the sediment pond is not adequate to safely pass the design event. A 24-inch culvert extension to convey the sediment pond discharge to the stream channel would be an acceptable discharge configuration. It will be necessary to provide velocity calculations and plans for energy dissipation of sediment pond outflows at the point of the stream channel.

Additionally, it was observed that the inlet end of the discharge device was virtually blocked by sediment. It appeared that the inlet was too near the embankment necessitating continued cleaning or extension of the inlet orifice further away from the embankment.

#### Bryner Canyon Undisturbed Diversion

The entire length of the Bryner Canyon diversion was checked for erosion potentials and there are two points which will require erosion protection measures. The area where the ditch empties back into the natural channel (near the septic tank area) is quite steep and will require implementation of protection measures.

The second area in need of protection measures is a section of the ditch near the coal stockpile where a relatively steep drop off occurs.

Plans and supporting calculation will need to be incorporated into the mining plan to address these two areas.

The remainder of the diversion appeared stable and at a gradual enough slope that erosion protection measures will not be necessary.

#### Alluvial Valley Floors

The potential alluvial valley floor (AVF) site on the lease area of the Gordon Creek #2 Mine associated with Beaver Creek was viewed. The determination of no history of farming use as well as a negligible potential support for production from farming was confirmed.

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North Fork Bryner Canyon

The North Fork of Bryner Canyon was walked by Tom Munson. A small flow, less than .1 cfs, was observed in the channel upstream of the diversion culvert. This was the only contributing flow to Bryner Canyon. It was observed that this flow was not passing through the North Fork of Bryner Canyon diversion culvert, but instead was ponding and infiltrating in the area preceding the culvert. When questioned on why this phenomenon was occurring, Dan Gry of Beaver Creek Coal Company, stated that the flow was seeping into the workings of the old Sweets Mine. When questioned if this water resurfaced elsewhere, no indication was given that it surfaced elsewhere.

Beaver Creek Coal Company should incorporate a description of this situation into the mine plan under Background Hydrologic Information, UMC 783.13(a)(1). An assessment of where this water is going must be included in this assessment.

In addition to the above-noted observations for the technical analysis, the stock pond adjacent to the existing #2 Mine was viewed with respect to commitments made by Beaver Creek personnel to clean out and install an improved spillway for the pond to provide sediment control for the Southwest Lease exploration construction. The pond had not been cleaned out nor the spillway enhanced even though major construction activities were underway on the Southwest Lease facilities.



JOHN J. WHITEHEAD  
RECLAMATION HYDROLOGIST

JJW/btb

cc: Dan Gry, Beaver Creek Coal Company  
Scott Raymond, Beaver Creek Coal Company  
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