

0056

PRICE RIVER COAL COMPANY

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January 12, 1983

RECEIVED
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Mr. Joe Lyons, Mining Hydrologist
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

**DIVISION OF
OIL, GAS & MINING**

Re: Clarification of Various DOGM Points of Concern on the Castle Gate
Drainage Control Modification as Requested by Phone on 1-11-83.

Dear Mr. Lyons:

We hope the following responses adequately address your additional
comments and concerns.

1. Riprap at outlet of Pond 011 - The pipe discharges into the riprap lining of the Barn Canyon diversion. Existing riprap is about 3' minus.
2. Dimensions of the concrete box culvert near guard shack - 8' X 10'.
3. Overflow pipe detail for Pond 011 - Riser pipe measures 5.6' from flow line of existing pipe to flow line (top) of riser pipe. The distance to the measured bottom from the flow line of the existing pipe is 4'. The bottom elevation is 6,145.4. There is an error in the drawing in the location of the pond bottom. It should be shown 1.5' lower on the same slope shown.
4. Revegetation of diversions and pond embankments - The embankment of Pond 011 is vegetated. Diversions and the embankment of Pond 012A and 012B will be seeded, if possible, in early spring 1983 or at the latest, in fall of 1983. Seed mix will be #2 or #3 as shown in Chapter 7 of the MRP, depending on the aspect of the sites.
5. Open ditch for last 100' of Barn Canyon diversion - The ditch will have a bottom width of 2'. The side slopes will be 1:1. Minimum depth at the outlet head wall will be 4'. Cross-sectional area (min.) will be 24 ft.². The ditch will be riprapped using 1' minus rock.
6. Small area drainages -

A. Northwest of the Substation

About 1/2 acre of revegetated bank drains directly to Barn Canyon. No runoff from the work areas drain across. The area is about 20' above the work area.

B. Water Treatment Plant and Secondary Potable Water Pond - about 1/3 acres.

Berms, bales and existing grade prevent drainage from the work site to this area. The area is mostly self-contained with the north vegetated bank draining to Barn Canyon.

C. Primary Water Intake Pond Area - about 2 acres.

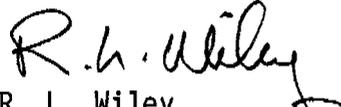
1.3 acres are taken up by the pond itself. The remaining 0.7 acres is made up by the access road (0.5 acres) and a small area to the southeast (0.2 acres) that is vegetated and drains to the 18" cnp south of the pond.

7. Drainage to Pond 011 from northern stacking tube area - Drainage will flow as shown on CGE-102 along both sides of road in shallow ditches (.5' to 1.5' deep). These ditches cross Barn Canyon on the edges of a 70' wide crossing that is confined within min. 2' berms on each side.
8. Pipe from truck grizzely - A new 6" smooth steel pipe has been installed to drain ponding water off the site.
9. Ditch to Pond 012B - Most of the ditch is existing. The cross-sectional area is 10-20 ft.². About 2 acres drain through this ditch to Pond 012B. About 160' of the ditch will be reconstructed to direct drainage to new pond 012B. The average cross-section is about 10 ft.². This should be adequate to carry the 1.5 cfs runoff from the ten-year, 24-hour storm. (Grade is about 1-1.5%)
10. Grade on culvert from Barn Canyon - The overall is 2% instead of 5%, however the inlet headwater is at least 48" instead of 29" and the outlet is non-confining. This configuration is still adequate for 15 cfs.

Should you have any further questions, please contact me.

Very truly yours,

PRICE RIVER COAL COMPANY


R. L. Wiley
Environmental Engineer

RLW:jp

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