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PRICE RIVER COAL COMPANY

P.O. BOX 629 HELPER, UTAH 84526 (801) 472-3411

AUG 6 1984

July 31, 1984

DIVISION OF OIL
GAS & MINING

CERTIFIED RECEIPT REQUESTED
Certified No. P290 262 302

Mr. Wayne Hedburg
Permit Supervisor
Division of Oil, Gas, and Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: DOGM letter of 7-5-84 and subsequent telephone discussion on 7-30-84
concerning minor modification of Crandall Canyon Pond 014

Dear Mr. Hedburg:

Based upon clarifications provided during our joint telephone conversation with
Mr. Suchoski on 7-30-84, the following additional information is provided.

1. Pond Capacity Determinations

Description of final surface condition

- 9.0 acres paved or covered by buildings - CN 90
- 4.5 acres gravel pad including west outside storage, water tank pad,
area east of #2 shaft - CN 85
- 0.5 acres revegetated including on-site bench faces, berms, office
landscaping - CN 65

CN 90 = 1.01" R.O.; 10-year, 24-hour storm
 CN 85 = 0.75" R.O.; 10-year, 24-hour storm
 CN 65 = 0.15" R.O.; 10-year, 24-hour storm

$$\left(\frac{1.01 \times 9}{12}\right) 43,560 = 32,997 \text{ ft.}^3$$

$$\left(\frac{0.75 \times 4.5}{12}\right) 43,560 = 12,251 \text{ ft.}^3$$

$$\left(\frac{0.15 \times 0.5}{12}\right) 43,560 = 272 \text{ ft.}^3$$

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Sediment Storage

43,560 x 0.035 x 5 ac. (non-paved area only*) = 7,623 ft.³

Total capacity needed (final site configuration):

32,997
12,251
272
<u>7,623</u>
53,143 ft. ³

Proposed capacity: 60,343 ft.³

*It was mutually agreed that sediment storage capacity was unnecessary for paved areas.

the stage-capacity curve for the proposed pond is attached. An as-built plan and actual stage-capacity curve will be prepared soon after construction.

2. Other Construction Approvals

You have requested that we obtain construction approvals from UDH and the State Engineers Office.

The plans have been provided to Steven McNeal of Water Pollution Control at the State Health Department. He has assured me that the approval of his office is forthcoming.

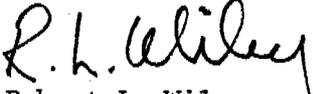
The State Engineers Office approved the embankment of this pond in September of 1982 presuming proper installation of a percolation barrier. The approval was based, at that time, on a proposed water impoundment exceeding 10 feet with 1:1 interior slopes. The presently proposed pond impounds only 6 feet of water with interior slopes of 2.5:1. The percolation barrier will exceed the thickness required by their 1982 approval. The present proposal is a more conservatively designed structure well within the envelope of the State Engineers prior approval.

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Please provide immediate approval of this modification so that we might complete construction before this winter. Should you have any further questions please contact me by phone.

Sincerely yours,

PRICE RIVER COAL COMPANY


Robert L. Wiley
Environmental Engineer

RLW:jp

Enclosure

cc: Steve McNeal, UDH
K. Hutchinson
File

