

File Act/007/004  
Folder #4

# PRICE RIVER COAL COMPANY

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

0041



February 25, 1985

CERTIFIED RECEIPT REQUESTED  
Certified No. P713 199 238

Mr. Mark Humphery  
Utah Coordinator  
Office of Surface Mining  
Brooks Towers  
1020 - 15th Street  
Denver, CO 80202

**RECEIVED**

MAR 04 1985

**DIVISION OF OIL  
GAS & MINING**

Re: Compliance with remaining permit conditions

Dear Mr. Humphery:

The following responses should address the final four permit conditions Nos. 1, 2, 9 and 11.

Condition No. 1

*The applicant must provide a plan to sample refuse materials prior to placement of soil material to determine the absence of acid- or toxic-forming materials. The plan must include proposed analyses and a physical sampling plan and must be submitted to OSM and UDOGM within ninety (90) days of permit approval.*

Such sampling would be relatively simple. The refuse material is reasonably homogeneous by the time it is finally placed. Four to five grab samples will be collected per acre and mixed. The final sample will be sent to a soil laboratory and tested for the following parameters:

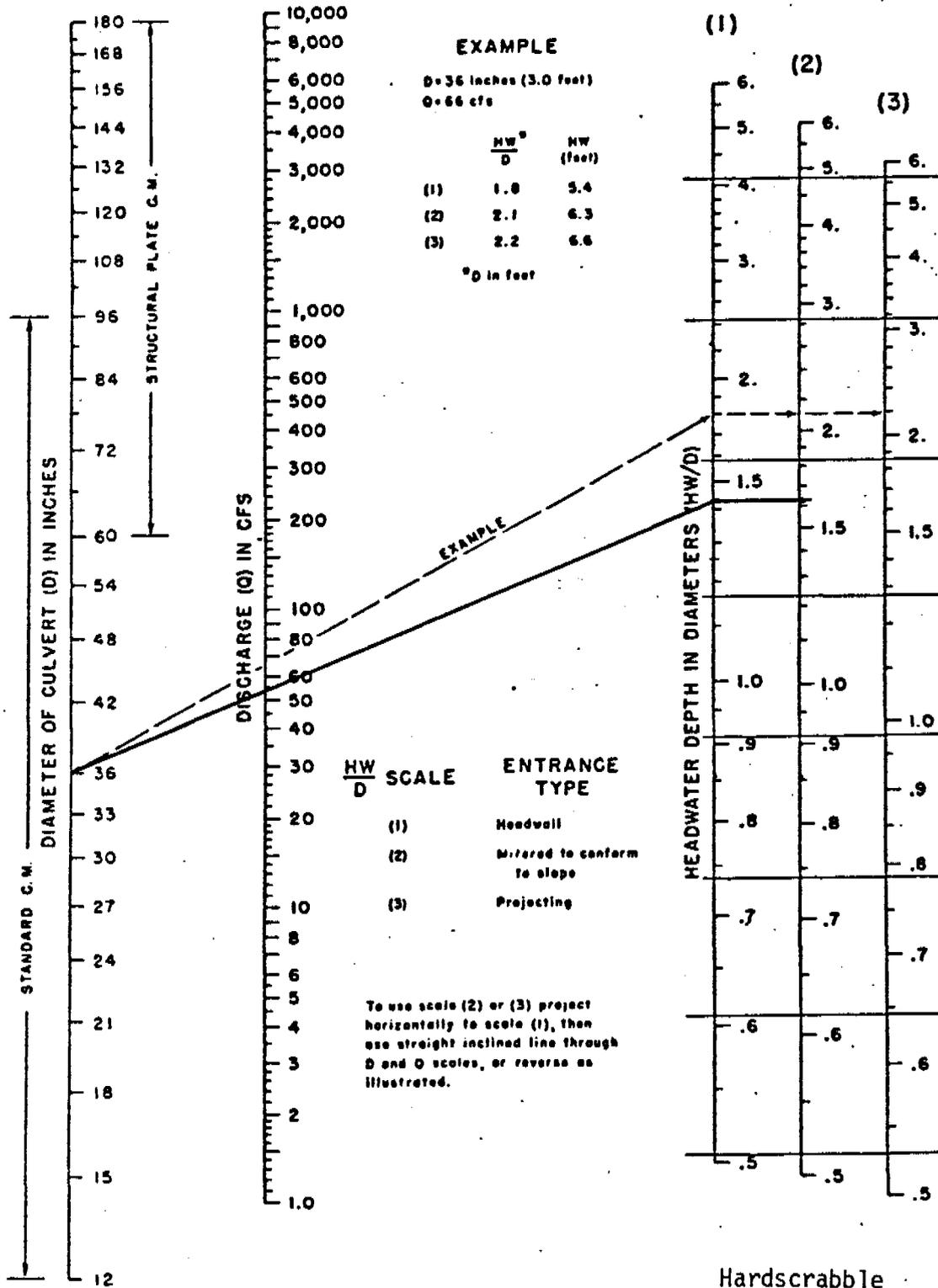
|     |  |
|-----|--|
| pH  | B  |
| EC  | Pb   |
| Ca  | N  |
| Mg  | P  |
| Na  | K  |
| SAR | S  |
| SE  | Partical size distribution: 6" to 200 mesh |

Condition No. 2

*The applicant shall either complete reclamation of Goose Island by August 31, 1985, and Hardscrabble Canyon and Soubelly Gulch by December 31, 1986; or complete installation of culverts specified below according to design approved by OSM August 31, 1985 at Goose Island and by December 31, 1986 in Hardscrabble Canyon and Soubelly Gulch. Designs for the new culverts (structures) shall be submitted to the regulatory authority for approval within ninety (90) days of permit approval. The specific structures included are : culverts 1 (including diversions D-1, D-4, and D-6) and culverts 3 and 10 in Soubelly Gulch.*



Chart 2-53: HEADWATER DEPTH FOR C.M.P. CULVERTS WITH INLET CONTROL

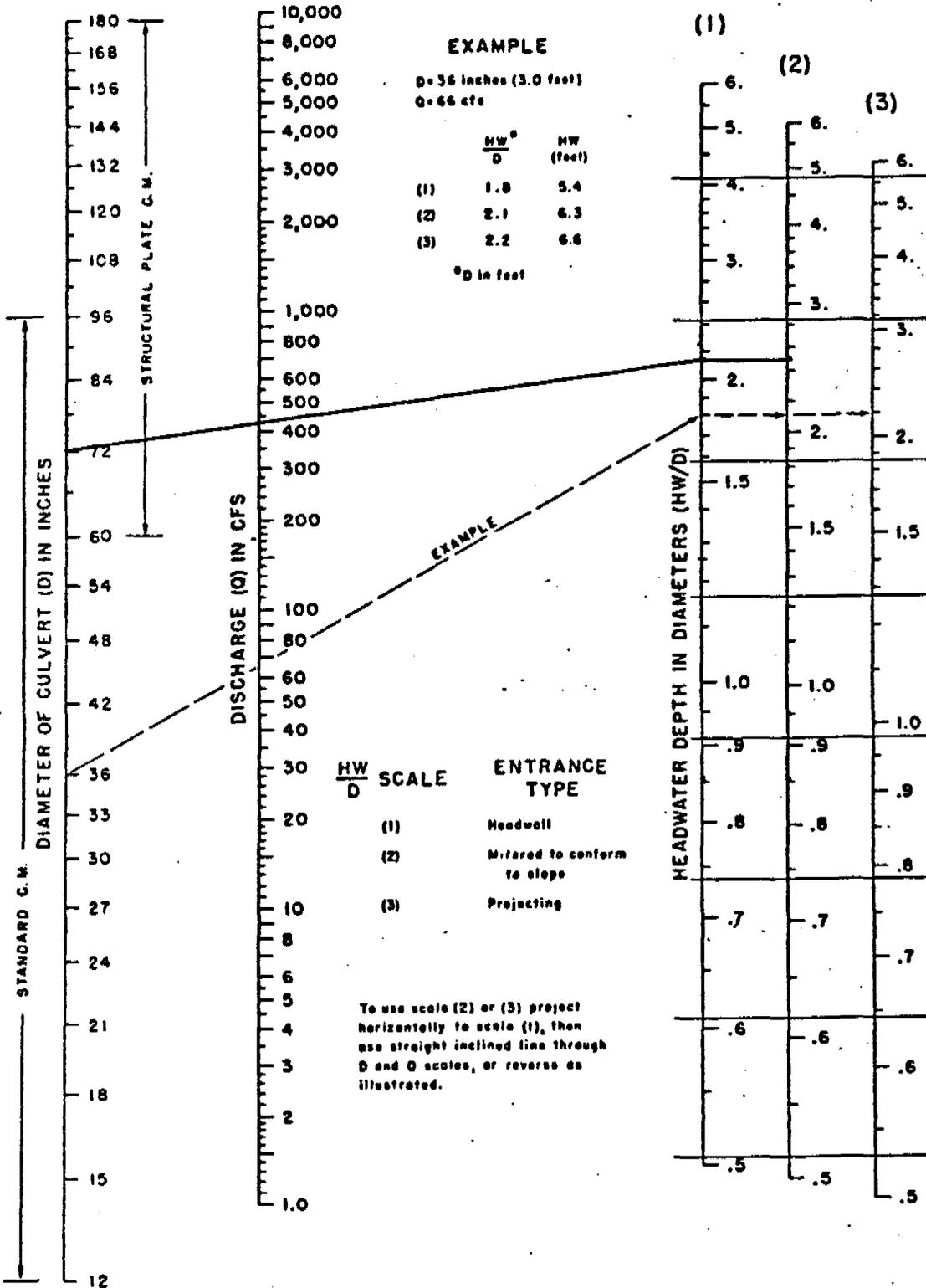


Hardscrabble

C-3

Figure 3.3-15

Chart 2-53: HEADWATER DEPTH FOR C.M.P. CULVERTS WITH INLET CONTROL



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The reclamation of the Goose Island area was completed in November 1984 eliminating the need to upgrade Diversions D-1 and D-4 and Culvert C-1. Changes to the drainage pattern, attendant to reclamation activities have reduced the basin size flowing to these structures as follows:

| Structure Number | Peak Flow Capacity (cfs) | Former Basin Size (Acres) | Present Basin Size (Acres) | Peak Runoff 10-yr/24-hr Storm (cfs) |
|------------------|--------------------------|---------------------------|----------------------------|-------------------------------------|
| D-4              | 143                      | 540.3                     | 4.5                        | 1.13                                |
| C-1              | 32                       | 552.7                     | 21.7                       | 5.47                                |

Diversion D-1 was eliminated by reconstruction of the main channel through the Goose Island area.

Should reclamation of Hardscrabble not continue according to plan, the following structures will be upgraded: Culverts C-3 and C-4 and Diversion D-6. Attached Exhibit 3.3-10 shows location and design details for upgraded structures C-3 and C-4. Design details for Culverts C-3 and C-4 and Diversion D-6 in Hardscrabble Canyon and Culverts C-3 and C-10 are provided as follows. Designs are based on information, formulae and assumptions are found in Chapter VII, pp. 7-61 through 7-76.

#### Hardscrabble Canyon

##### Culvert C-3 - For undisturbed drainage area HC-3

Area: 61.3 acres

Peak Discharge: 23.18 cfs - 10-yr/24-hr storm

Try 36" cmp with 5' H.W., mirrored headwall  
(see attached nomograph; Figure 3.3-15)

Flow capacity about 54 cfs; adequate

##### Culvert C-4 - For undisturbed drainage areas HC-9, 4, 5, 3, 8

Area: 625.1 acres

Peak Discharge: 207.22 cfs - 10-yr/24-hr storm

Try 72" cmp with 15' H.W., mirrored headwall  
(see attached nomograph; Figure 3.3-13)

Flow capacity about 425 cfs; adequate

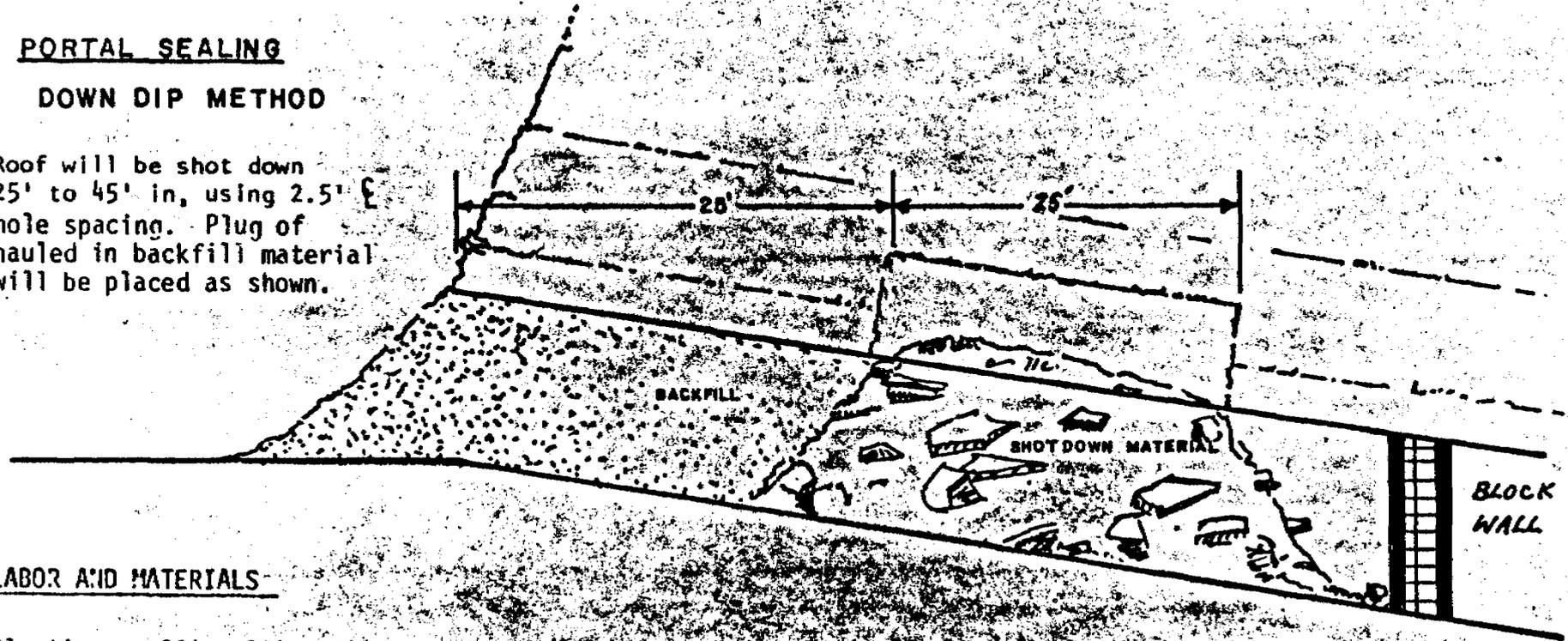
REVISIONS

REVISED 12-84 ELW.

PORTAL SEALING

DOWN DIP METHOD

Roof will be shot down 25' to 45' in, using 2.5' hole spacing. Plug of hauled in backfill material will be placed as shown.



LABOR AND MATERIALS

Blasting - 20' x 20' x 6' area  
@ 2.5' hole pattern - 64 holes

Hole Drilling: 1 man, 1 shift = \$ 150.00  
Compressor & Stoper 300.00

Loading & Shooting:  
1 man, 1 shift = 150.00

Powder 100.00  
Caps 100.00  
Shot Wire 2.50

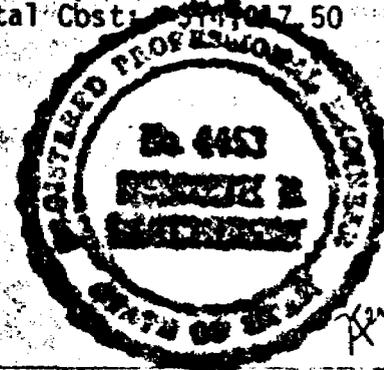
NOTE: There are 7 down dip portals on the permit area.

Total Cost: \$2,002.50

Backfilling

250 yds<sup>3</sup> hauled and placed @ \$4.80/yd<sup>3</sup> = 1,200.00

TOTAL \$2,002.50



*James B. Hutchinson*



PRICE RIVER COAL COMPANY  
ENGINEERING DEPARTMENT  
HELPER, UTAH

A

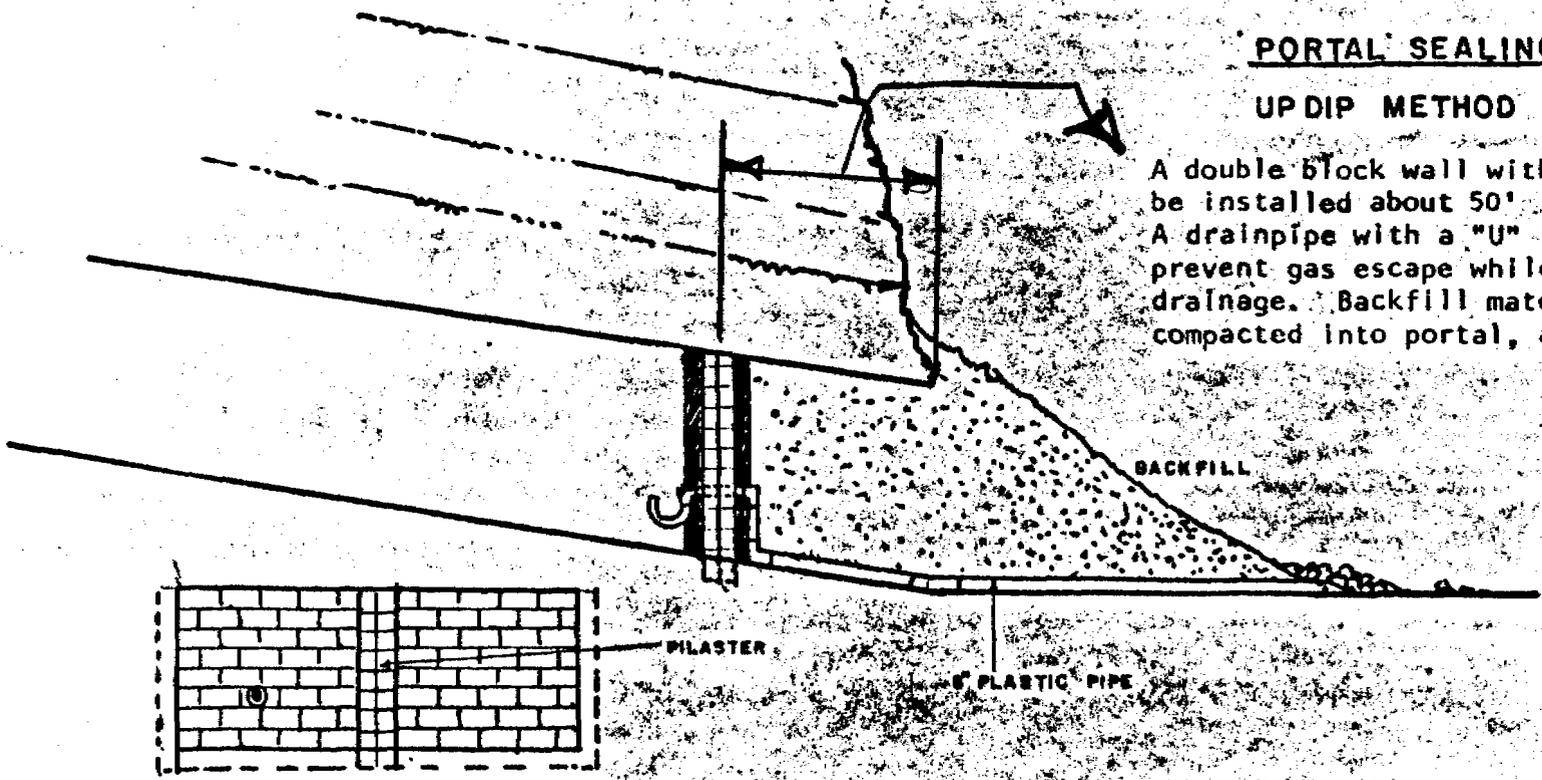
DRAWING NUMBER

REVISIONS

REVISED 12-21-83 *KW*

**PORTAL SEALING  
UP DIP METHOD**

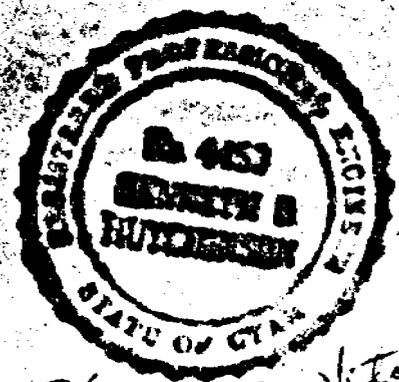
A double block wall with pilaster will be installed about 50' into portal. A drainpipe with a "U" tube inlet will prevent gas escape while allowing drainage. Backfill material will be compacted into portal, against wall.



**COSTS**

|   |  |   |                   |
|---|--|---|-------------------|
| 1. <u>Build Wall - 9' X 22'</u>               |  |   |                   |
| A.  | 520 blocks @ 76c ea.   | = | \$ 390.00         |
|   | Labor - 2 men, 1 shift   | = | 300.00            |
| B.  | <u>Sealing Wall</u>  |   |                   |
|   | 4 bags mortar @ \$10/ea.   | = | 40.00             |
|   | 4 bags cement @ \$20/ea.   | = | 80.00             |
|   | Labor - 1 man, 1/2 shift   | = | 75.00             |
|   | Subtotal   |   | \$ 885.00         |
| 2. <u>Install "U" Tube and Discharge Pipe</u> |  |   |                   |
|   | 35', 6" pipe @ \$4.00/ft. installed  | = | 140.00            |
|   | 6" plastic "U" tube assembly   | = | 150.00            |
|   | Installation: 1 man, 1/2 shift   | = | 75.00             |
|   | Subtotal   |   | 365.00            |
| 3. <u>Backfill</u>                            |  |   |                   |
|   | 200 yds <sup>3</sup> of material hauled and pushed into place @ \$4.80/yd <sup>3</sup> | = | 960.00            |
|   | <b>TOTAL</b>   |   | <b>\$2,210.00</b> |

NOTE: Two up dip portal seals on property will cost \$4,420.00.



*Kenneth B. Hutchinson*

**PRIGG RIVER COAL COMPANY  
ENGINEERING DEPARTMENT  
HELPER, UTAH**

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Diversion D-6 - From warehouse storage yard to downstream of Pond 009.  
Design for 100-yr, 24-hr storm so as to eliminate need for subsequent reclamation reconstruction.

Use all characteristics for design of reclamation channel RC-5 (see MRP Figure 3.3-23, p. 3-174).

### Sowbelly Canyon

Culvert C-3 - This culvert appears to be adequate at present for the 10-yr, 24-hr storm (see MRP Table 3.2-5, p. 3-111).

Culvert C-10 - To upgrade this structure a second 60" cmp will be added alongside the existing 60' cmp; doubling the capacity:  $2 \times 210 = 420$  cfs. Needed flow is 333 cfs. (see Table 3.2-5, p. 3-111).

### Condition No. 9

*Within ninety (90) days of permit approval, the applicant must submit a permanent portal-sealing plan for approval by the regulatory authority. The applicant must also notify the Bureau of Land Management to arrange for on-site inspections and reviews between management and personnel from the Branch of Solid Minerals at least ninety (90) days prior to the proposed closing date of any portal.*

The portal sealing plan included in PRCC's MRP (pp. 3-62, 3-63) has been reviewed with BLM's Allen Vance in the Price Utah office (11-84) and is changed according to the attached replacement Figures 3.1-3 and 3.1-4.

PRCC will make the proper notification to BLM regarding sealing of portals. ✓

### Condition No. 11

*The applicant shall participate in the U. S. Fish and Wildlife Service study program "Recovery of Endangered Fishes of the Upper Colorado River Basin", as determined necessary by the Service.*

*Regarding permit condition No. 11, the U.S. Fish and Wildlife Service has determined that Price River Coal Company must participate in the study program "Recovery of Endangered Fishes of the Upper Colorado River Basin." The extent of this participation is a one-time contribution of \$641.00 to the study program based on surface-water depletion. This has been discussed with Mr. Rob Wiley of your staff on several occasions.*

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Please find enclosed a check in the amount of \$641.00.

We hope these reponses now satisfy all permit conditions. As soon as we receive your response we will provide MRP inserts to include all exchanges since permit approval.

Very truly yours,

PRICE RIVER COAL COMPANY

*R. L. Wiley*  
Robert L. Wiley  
Environmental Engineer

RLW:jp

Enclosures

cc: G. Cook

K. Hutchinson

S. Linner, DOGM

(CERTIFIED MAIL  
No. P713 199 237)

**PRICE RIVER COAL COMPANY**

76 SO. MAIN STREET  
HELPER, UTAH 84526



FIRST INTERSTATE  
BANK OF UTAH  
MAIN OFFICE  
SALT LAKE CITY, UTAH

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1240

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| VENDOR NO. |
| 45800      |

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|---------|
| DATE    |
| 2/27/85 |

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| CHECK NO. |
| 30341     |

|             |
|-------------|
| AMOUNT      |
| *****641.00 |

The sum of 641 dol's 00 cts

PAY TO THE ORDER OF  
US FISH & WILDLIFE SERV.  
C/O OFFICE OF SURFACE MIN  
1020 15TH ST BROOKS TOWNS  
DENVER, CO 80202

*[Signature]*  
VOID AFTER 60 DAYS

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| CHECK NO. |
| 30341     |

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| AMOUNT   |
| \$641.00 |

| DATE    | INVOICE NO. | GROSS AMOUNT | DISCOUNT | NET AMOUNT | REMARKS |
|---------|-------------|--------------|----------|------------|---------|
| 2/25/85 | 7803        | 641.00       |          | 641.00     |         |
|         |             | 641.00       |          | 641.00     |         |

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