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John Whitehead
Mine file

CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



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RECEIVED
FEB 14 1986

February 12, 1986

**DIVISION OF
OIL, GAS & MINING**

Lowell P. Braxton, Administrator
Utah Division of Oil, Gas & Mining
355 West North Temple
#3 Triad Center Suite 350
Salt Lake City, Utah 84180-1203

#2

RE: Co-Op Bear Canyon Mine ACT/015/025
Stipulation Response 1/21/86

Dear Mr. Braxton:

Please find attached, Co-Op reply to the noted stipulations. If I can be of any further assistance, please feel free to call.

Sincerely,

Melvin A. Coonrod
Permitting & Compliance

cc Eldon Kingston
Nathan Atwood

FILE COPY

Stipulation 817.44-1-TM (Rock gabion)

Co-Op Reply:

Please find attached a rock gabion structure design which will be utilized by Co-Op for both interim and final reclamation (See figure 7-G).

Stipulation 817.57-1-TM (Electric Storage Shed)

Co-Op Reply:

The new location for the electric storage shed is located in the non-coal storage yard as pictured on Plate 2-2 Surface Facilities Map and is identified as Storage Depot.

Co-Op will remove the existing storage shed as soon as weather allows prior to May 31, 1986.

Stipulation 817.46-1-TM (By-pass Channels)

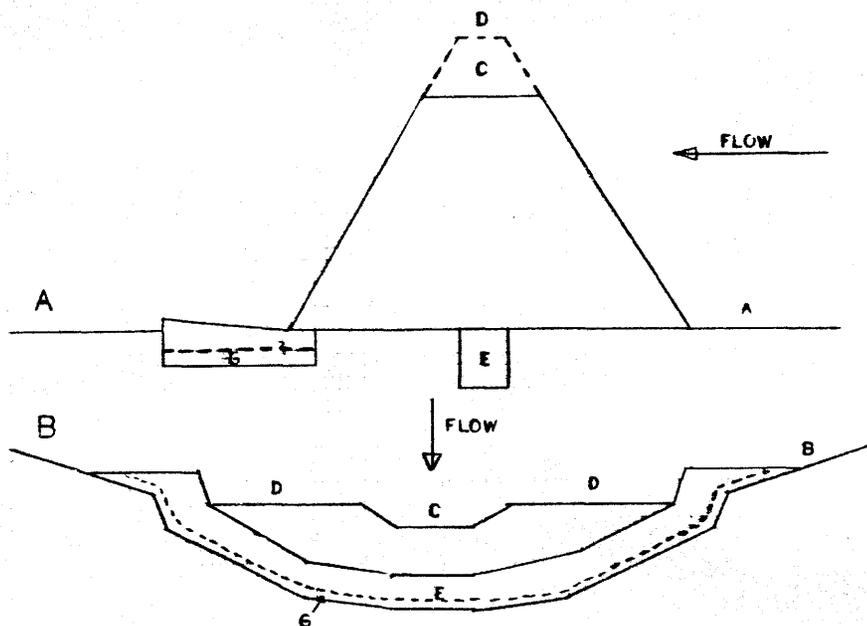
Co-Op Reply:

Each by-pass channel will be site specific in nature, and simply an extension of the existing drainage channels. They will be constructed and maintained as illustrated in Chapter 7 with the same cross-section design.

When vegetation is fully established on each reclaimed area, the channels will be brought back to original contour by utilizing a small crawler tractor, JD 450, with a six way dozer blade, allowing the opposing channel sides and berms to be drifted into the channel. By this method, additional disturbance will be minimized and the channels can then be revegetated utilizing the same methodology as discussed in Chapter 9. The only exception being those areas which are inaccessible to hydroseeding, and mulching. These areas will be drill seeded (where feasible), utilizing a crawler tractor with a 3 point hitch pulling a rangeland type drill. On a few isolated areas, it may be necessary to hand broadcast seed and rake in. These areas would be determined by slopes that would be in jeopardy of erosion due to a vertical alignment of seed furrows created by the drill.

The same seed mixes and rates of application will be utilized as are approved for final reclamation.

CROSS-SECTIONAL VIEW OF LOOSE ROCK CHECK DAM



Construction Plans for a Loose-Rock Check Dam

1. Section of the dam parallel to the centerline of the gully.
 2. Section of the dam at the cross section of the gully.
- A = original gully bottom; B = original gully cross section;
 C = spillway; D = crest of free board; E = excavation for key;
 F = excavation for apron; G = filter blanket.

Fig. - 7-B

IMPORTANT CONSIDERATIONS

1. A well-graded distribution of angular rock from 6-24 inches must be used. The angle of rest for this angular rock should correspond to a slope ratio not less than 1.5 to 1.0. The structure shall be 24-30 inches high. The angular rock shall be placed so as to form an 18-inch wide by 5-inch deep notch in the center of the creek channel to form a centralized spillway.
2. The keyway must be 24 inches wide and deep and excavated into the streambed and banks. The keyway into the banks must be 36 inches deep.
3. The apron section must be 10 feet long and placed with an adverse slope of six inches over the 10 foot length. A filter blanket (two inch minus material, six inches deep) must be placed under aprons. Riprap side slope protection measures for the length of the apron and two feet above the gabion crest must be included. The angle of rest for the 6-24 inch well-graded material used to construct the gabion must be strictly adhered to.

LOOSE ROCK CHECK DAM

DIV. OIL, GAS & MINING

APPROVED: TOM MUNSON

SCALE: NA

DRAWN: BUCHARD
REED

DATE: 11-1-85

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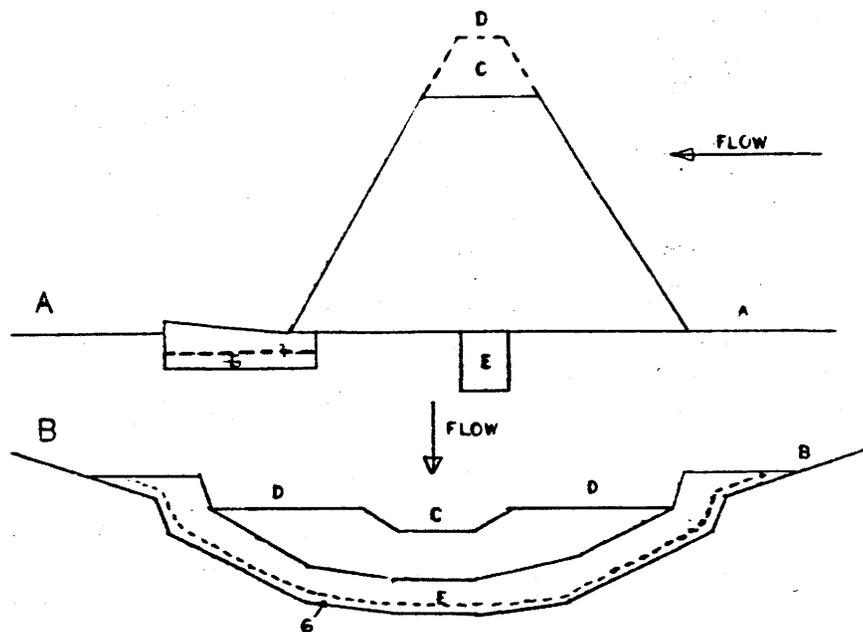
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LOOSE ROCK CHECK DAM

DIV. OIL, GAS & MINING

APPROVED: TOM MUNSON

SCALE: NA

DRAWN BY

DATE: 11-1-65