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State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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August 9, 2002

Rick Olsen, General Manager
Canyon Fuel Company, LLC
P.O. Box 1029
Wellington, Utah 84542

Re: Approval of Culvert UC-4 Headwall Modification, Canyon Fuel Company, LLC, Dugout Canyon Mine, C/007/039-AM02I, Outgoing File

Dear Mr. Olsen:

The Division received your application to modify the headwall at the UC-4 culvert at the Dugout Canyon Mine on July 10, 2002 with additional information submitted on July 26, 2002. The amendment is hereby approved. Enclosed is a stamped incorporated copy of the amendment for insertion into your copy of the Mining and Reclamation Plan.

If you have any questions, please call Gregg Galecki at (801) 538-5260 or me at (801) 538-5325.

Sincerely,

A handwritten signature in black ink that reads "Daron R. Haddock".

Daron R. Haddock
Permit Supervisor

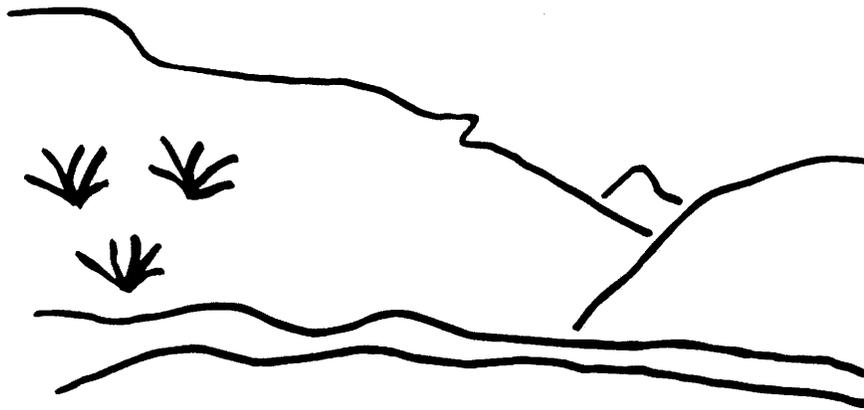
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Enclosure:

cc: Ran Singh, OSM
Tom Rasmussen, BLM
Mark Page, Water Rights w/o
Dave Ariotti, DEQ w/o
Derris Jones, DWR w/o
Steve Boyden, TLA w/o
Price Field Office

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State of Utah



Utah Oil Gas and Mining

Coal Regulatory Program

Dugout Canyon Mine
Culvert UC-4 Headwall Modification
C/007/039-AM02I
Technical Analysis
August 9, 2002

INTRODUCTION

TECHNICAL ANALYSIS

INTRODUCTION

The following review addresses changes to Chapter 7 – Hydrology and Appendix 5-6, due to modification of the culvert UC-4 headwall at the Dugout Canyon Mine facilities. The modification serves to fortify the existing headwall. The modification does not require revision to the culvert design calculations in Appendix 7-9. A drawing of the proposed modification and the stream alteration permit are included in the submittal for incorporation into the existing Appendix 7-9. Appendix 5-6 is a spreadsheet that estimates the reclamation costs. The Division originally received the submittal on July 10, 2002, and received additional bond information on July 26, 2002. Approval is recommended.

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INTRODUCTION

OPERATION PLAN

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Diversions

Undisturbed culvert UC-4, draining the East Fork of Dugout Creek above the mine, is currently designed to handle a 100-year/6-hour storm event. No modifications to the culvert sizing are proposed in the current permit application. The application proposes installing gabion baskets adjacent to the culvert to better armor the inlet of culvert UC-4. Gabion basket (9-gauge) filled with clean rock will surround the culvert and its headwall on three sides. Non-woven filter fabric will underlie the gabion baskets. A stream alteration permit (# 01-91-16SA) has been acquired, however no disturbance of the existing stream channel elevation is planned. Existing structures associated with the culvert (trash racks and trash pipes) will remain in place. The applicant commits to best management practices in minimize sedimentation and temporary erosion of the stream bank during construction.

Findings:

The information provided adequately addresses the minimum regulatory requirements of the Operation Plan – Hydrologic Information section of the regulations.

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OPERATION PLAN

RECLAMATION PLAN

RECLAMATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 784.14, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-301-512, -301-513, -301-514, -301-515, -301-532, -301-533, -301-542, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-733, -301-742, -301-743, -301-743, -301-750, -301-751, -301-760, -301-761.

Analysis:

Diversions

The applicant has submitted adjusted bond calculations to address the removal of the gabion baskets at reclamation in Appendix 5-6 – Reclamation Bond Estimate.

Findings:

The information provided adequately addresses the minimum regulatory requirements of the Reclamation Plan – Hydrologic Information section of the regulations.