



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

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April 6, 1995

**TO:** Daron Haddock, Permit Supervisor,  
 Pamela Grubaugh-Littig, Permit Coordinator

**FROM:** Jess Kelley, Reclamation Specialist JK #2

**RE:** Review and Approval of Overland Connection Conveyor, Trail Mountain Mine, PacifiCorp, ACT/015/009-94D, Folder #2, Emery County, Utah

**SYNOPSIS**

The permittee first submitted this amendment for Division approval on July 27, 1994. By this amendment, the permittee proposes to build a conveyor to connect the Trail Mountain and Cottonwood mines, a conveyor portal and diesel access portal for the Cottonwood mine, and a small, temporary crane pad and road just below the conveyor portal.

The Division found a number of deficiencies in the first amendment submittal and notified the permittee of those deficiencies. The permittee then resubmitted the amendment to the Division on February 2, 1995. This memorandum contains this writer's analysis of the February 2 submittal. The analysis is in a form in which it can be incorporated directly into the current Technical Analysis (TA) of this site and thus update it to include the facilities and practices contained in the amendment.

The connection conveyor will be enclosed in a steel tube built atop support towers and will span the canyon between the Trail Mountain tippie and the Cottonwood Mine. The conveyor will connect the coal handling systems of the two mines and will serve to transport run-of-mine coal from the Trail Mountain Mine to the coal loadout system of the Cottonwood Mine. The coal will then be loaded into trucks by the Cottonwood mine's coal handling facilities and hauled to the Hunter Power Plant.

The new conveyor portal will accommodate the connection conveyor. The new diesel access portal will provide direct access to the Cottonwood Mine from the Trail Mountain Mine. The road and pad will provide access for a crane which will be used in the construction of the conveyor.

Since all of the new surface facilities are connected with the operations of both mines, most of this amendment was submitted as one package. However, the new facilities are divided at the boundary between the two mines and, therefore, part of the conveyor tube and one of its support towers are the only things to be added to the Trail Mountain Mine



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plan. The portals, the crane access road and pad, and all the earthwork are within the Cottonwood permit area.

## ANALYSIS

### **MAPS, PLANS, AND CROSS SECTIONS OF RESOURCE INFORMATION**

Regulatory Reference: 30 CFR Sec. 783.24, 783.25; R645-301-323, -301-411, -301-521, -301-622, -301-722, -301-731.

#### **Analysis:**

##### **Existing Structures and Facilities Maps**

The overland conveyor amendment (94D) consists of 5 facilities, all in Cottonwood Canyon adjacent to the Trail Mountain minesite: a diesel access portal, a belt portal, an aerial conveyor enclosed in a steel tube, and 2 steel support structures on concrete footings to support the aerial conveyor. The aerial conveyor spans Cottonwood Canyon from the Trail Mountain Mine tipple to the belt portal and carries run-of-mine coal from the Trail Mountain Mine to the coal loadout system of the Cottonwood Mine. One of the conveyor support structures is on the Trail Mountain Mine property and the other is on the Cottonwood property. The diesel access portal is on the Cottonwood property and provides direct access to the Cottonwood Mine workings from the Trail Mountain property.

The overland conveyor facilities, along with the rest of the facilities of the Trail Mountain Mine, will be shown on Plate 3-1--Surface Facilities Map. The overland conveyor facilities are also shown in greater detail on Plates C-5, GA-2, L-1 and L-4, all of which are construction and engineering drawings which are found in the Cottonwood Mine plan. When the overland conveyor project is completed, the location and alignment of the new facilities will be surveyed and Plate 3-1--Surface Facilities Map will be updated and sent to the Division.

#### **Findings:**

The plan fulfills the requirements of this section. However, as a condition of this permit, the permittee must commit to do the following in accordance with the requirements of:

**R645-301-521.100**

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When the overland conveyor project is completed, the location and alignment of the new facilities must be surveyed and Plate 3-1--Surface Facilities Map must be updated and sent to the Division. The permittee has committed to do this in a July 20, 1994 letter from PacifiCorp Senior Environmental Engineer Val Payne to the Division.

## **OPERATION PLAN**

### **MINING OPERATIONS AND FACILITIES**

Regulatory Reference: 30 CFR Sec. 784.2, 784.11; R645-301-231, -301-526, -301-528.

#### **Analysis:**

##### **Facilities and Structures**

The overland conveyor facilities are described on pages 3-2, 3-3, and 3-10 of Appendix 3-10. The overland conveyor facilities, along with the rest of the facilities of the Trail Mountain Mine, will be shown on Plate 3-1--Surface Facilities Map. The overland conveyor facilities are also shown in greater detail on Plates C-5, GA-2, L-1 and L-4, all of which are construction and engineering drawings which are found in the Cottonwood Mine plan. When the overland conveyor project is completed, the location and alignment of the new facilities will be surveyed and Plate 3-1--Surface Facilities Map will be updated and sent to the Division..

The overland conveyor amendment (94D) consists of 5 facilities, all in Cottonwood Canyon adjacent to the Trail Mountain minesite: a diesel access portal, a belt portal, an aerial conveyor enclosed in a steel tube, and 2 steel support structures on concrete footings to support the aerial conveyor. The aerial conveyor spans Cottonwood Canyon from the Trail Mountain Mine tibble to the Cottonwood belt portal and carries run-of-mine coal from the Trail Mountain Mine to the coal loadout system of the Cottonwood Mine. One of the conveyor support structures is on the Trail Mountain mine property and the other is on the Cottonwood property. The diesel access portal is on the Cottonwood property and provides direct access to the Cottonwood Mine workings from the Trail Mountain property.

No coal, overburden, excess spoil, or coal mine waste is disposed of at the overland conveyor site and no excess spoil is generated by the overland conveyor facilities.

#### **Findings:**

The plan fulfills the requirements of this section. However, as a condition of this

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permit, the permittee must commit to do the following in accordance with the requirements of:

**R645-301-521.100**

When the overland conveyor project is completed, the location and alignment of the new facilities must be surveyed and Plate 3-1--Surface Facilities Map must be updated and sent to the Division. The permittee has committed to do this in a July 20, 1994 letter from PacifiCorp Senior Environmental Engineer Val Payne to the Division.

**EXISTING STRUCTURES:**

Regulatory Reference: 30 CFR Sec. 784.12; R645-301-526.

**Analysis:**

See **MINING OPERATIONS AND FACILITIES** above.

**RELOCATION OR USE OF PUBLIC ROADS**

Regulatory Reference: 30 CFR Sec. 784.18; R645-301-521, -301-526.

**Analysis:**

The overland conveyor facilities are all within 100 feet of the Emery County Cottonwood Canyon road. Emery County was notified of this and gave its approval. Since coal mining operations in connection with the Trail Mountain Mine were approved and conducted in this area prior to the construction of the overland conveyor facilities, it was not necessary to repeat the public notice procedures of R645-103-234 before approval of the overland conveyor amendment (94D).

**Findings:**

The plan fulfills the requirements of this section.

## **ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES**

Regulatory Reference: 30 CFR Sec. 784.24, 817.150, 817.151; R645-301-521, -301-527, -301-534, -301-732.

### **Analysis:**

A conveyor, enclosed in a 10-foot diameter steel tube, spans Cottonwood Canyon from the Trail Mountain Mine tippie to the Cottonwood belt portal and carries run-of-mine coal from the Trail Mountain Mine to the coal loadout system of the Cottonwood Mine. The conveyor tube is supported by 2 steel support structures, one of which is on the Trail Mountain Mine property and the other of which is on the Cottonwood property.

### **Findings:**

The plan fulfills the requirements of this section.

## **SPOIL AND WASTE MATERIALS**

Regulatory Reference: 30 CFR Sec. 701.5, 784.19, 784.25, 817.71, 817.72, 817.73, 817.74, 817.81, 817.83, 817.84, 817.87, 817.89; R645-100-200, -301-210, -301-211, -301-212, -301-412, -301-512, -301-513, -301-514, -301-521, -301-526, -301-528, -301-535, -301-536, -301-542, -301-553, -301-745, -301-746, -301-747.

### **Analysis:**

#### **Excess spoil**

No coal, overburden, excess spoil, or coal mine waste is disposed of at the overland conveyor site and no excess spoil is generated by the overland conveyor facilities.

### **Findings:**

The plan fulfills the requirements of this section.

**MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS**  
Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632,  
-301-731, -302-323.

**Analysis:**

The overland conveyor amendment (94D) consists of 5 facilities, all in Cottonwood Canyon adjacent to the Trail Mountain minesite: a diesel access portal, a belt portal, an aerial conveyor enclosed in a steel tube, and 2 steel support structures on concrete footings to support the aerial conveyor. The aerial conveyor spans Cottonwood Canyon from the Trail Mountain Mine tipple to the belt portal and carries run-of-mine coal from the Trail Mountain Mine to the coal loadout system of the Cottonwood Mine. One of the conveyor support structures is on the Trail Mountain Mine property and the other is on the Cottonwood property. The diesel access portal is on the Cottonwood property and provides direct access to the Cottonwood Mine workings from the Trail Mountain property.

The overland conveyor facilities, along with the rest of the facilities of the Trail Mountain Mine, will be shown on Plate 3-1--Surface Facilities Map. The overland conveyor facilities are also shown in greater detail on Plates C-5, GA-2, L-1 and L-4, all of which are construction and engineering drawings which are found in the Cottonwood Mine plan. When the overland conveyor project is completed, the location and alignment of the new facilities will be surveyed and Plate 3-1--Surface Facilities Map will be updated and sent to the Division.

**Findings:**

The plan fulfills the requirements of this section. However, as a condition of this permit, the permittee must commit to do the following in accordance with the requirements of:

**R645-301-521.100**

When the overland conveyor project is completed, the location and alignment of the new facilities must be surveyed and Plate 3-1--Surface Facilities Map must be updated and sent to the Division. The permittee has committed to do this in a July 20, 1994 letter from PacifiCorp Senior Environmental Engineer Val Payne to the Division.

**RECLAMATION PLAN**

**ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES**

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Regulatory Reference: 30 CFR Sec. 701.5, 784.24, 817.150, 817.151; R645-100-200, -301-513, -301-521, -301-527, -301-534, -301-537, -301-732.

**Analysis:**

See **ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES** in **OPERATION PLAN** above.

## **BONDING AND INSURANCE REQUIREMENTS**

Regulatory Reference: 30 CFR Sec. 800; R645-301-800, et seq.

**Analysis:**

**Determination of bond amount.**

The estimated cost of reclaiming the overland conveyor facilities is \$4,865. This estimate is shown on pages 3-63 and 3-69 of the overall reclamation cost estimate for the site. This added reclamation cost brought the overall reclamation cost estimate to \$919,309, in 1999 dollars. Since the reclamation surety bond for this site was in the amount of \$1,000,000 at the time of the construction of the overland conveyor, it was unnecessary to revise the bond.

**Findings:**

The plan fulfills the requirements of this section.

## **SUMMARY OF PERMIT CONDITIONS**

As determined in the analysis and findings of this Technical Analysis, approval of the plan is subject to the following Permit Conditions. The applicant is subject to compliance with the following Permit Conditions and must commit to comply with the requirements of these conditions as referenced in the approved Permit.

Accordingly, as a condition of this permit, the permittee must commit to do the following in accordance with the requirements of:

**R645-301-521.100**

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When the overland conveyor project is completed, the location and alignment of the new facilities must be surveyed and Plate 3-1--Surface Facilities Map must be updated and sent to the Division. The permittee has committed to do this in a July 20, 1994 letter from PacifiCorp Senior Environmental Engineer Val Payne to the Division.

**FINDINGS/RECOMMENDATIONS**

It is recommended that this amendment be approved, subject only to the Permit Condition listed under **SUMMARY OF PERMIT CONDITIONS** above.

CC: Daron Haddock  
Pamela Grubaugh-Littig

CONVEYOR.AMD