



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340
(801) 359-3940 (Fax)

July 10, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: Jess Kelley, Reclamation Specialist *JK*

RE: 1996 Annual Report, PacifiCorp, Cottonwood/Wilberg Mine, ACT/015/019,
Folder #2, Emery County, Utah

SUMMARY:

The permittee submitted the 1996 Annual Report for Division approval on May 1, 1997.

TECHNICAL ANALYSIS:

This writer examined 4 sections of the Annual Report to determine whether or not they contained adequate information: 1) subsidence monitoring data, 2) certified sediment pond inspections, 3) certified refuse pile inspection, and 4) updated mine maps.

● Subsidence Monitoring Data

The subsidence monitoring program for this mine is done in conjunction with that of the Deer Creek Mine and the Des-Bee-Dove Mine, since all 3 are located adjacent to each other on East Mountain. Subsidence is measured by aerial photogrammetric survey methods and observed by annual helicopter reconnaissance flights. Raw subsidence data are included on a 4.5-inch floppy disc which accompanies the Annual Report. Also included in the Annual report are an underground workings map, a subsidence isogram, and 2 isogonal subsidence profiles for each area in which mining took place and where subsidence was monitored during 1996.

● Certified Sediment Pond Inspections

There are 4 sediment ponds associated with this site: the North Pond (#1) and the



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South Pond (#2), both of which are located at the actual mine site, the Exploration Site Pond, and the Waste Rock Detention Site Pond. All were inspected on December 13, 1996 by John Christensen, a professional engineer licensed and registered in the state of Utah. A certified inspection report is found in the Annual Report. This inspection revealed no evidence of instability, structural weakness, or other hazardous conditions.

- Certified Refuse Pile Inspection

There is one large refuse pile associated with this site. The refuse pile was inspected on December 18, 1996 by John Christensen, a professional engineer licensed and registered in the state of Utah. A certified inspection report is found in the Annual Report. This inspection revealed no evidence of instability, structural weakness, or other hazardous conditions.

- Updated Mine Maps

The Annual Report includes a map of the underground workings, updated through December of 1996. This map is entitled *Cottonwood Mine 1996 Production Map*.

RECOMMENDATION:

It is recommended that the subsidence monitoring data, the certified sediment pond inspection reports, the certified refuse pile inspection report and the updated mine map be accepted by the Division as satisfying the respective regulatory requirements for the Annual Report.

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