

**UTAH POWER & LIGHT COMPANY**

1407 WEST NORTH TEMPLE STREET

P. O. BOX 899

SALT LAKE CITY, UTAH 84110

September 4, 1980

State of Utah  
Department of Natural Resources  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

On July 10, 1980 the Division of Oil, Gas & Mining issued three violations of State regulations at the Des-Bee-Dove Mines (violations are attached).

Abatement schedules were not made a part of the corrective work required.

Mr. Shingleton (UP&L Co.) telephoned Mary Kay Stein of your staff, and she placed September 4, 1980 as the deadline for submittal.

Violation No. 1. The work was completed within the specified time--July 24, 1980--and was abated.

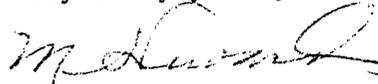
Violation No. 2. Sedimentation control structures have been constructed, as shown on the enclosed aerial photograph enlargement.

Violation No. 3. Enclosed find narratives and an aerial photograph describing the permit area, area of disturbance, sedimentation control facilities, and a final reclamation plan.

Although the pumphouse facility was not included in the 211 Report, it must be noted that these facilities are legal occupants of a U.S. Forest Service Special Use Permit, as shown on the plan view drawing.

Please accept this report, together with the enclosed drawings, as a complete response to the requirements for abatement of the three violations issued July 10, 1980.

Very truly yours,



M. Heward, Manager  
Mining and Exploration

MH:jl  
Enclosures  
MH:CES:jl:2156

UTAH POWER & LIGHT COMPANY  
DES-BEE-DOVE MINES  
RECLAMATION PLAN FOR VIOLATION  
INSPECTION DATED JULY 10, 1980

Pump House--Water Line--Access Roads

On completion of mining of the Des-Bee-Dove Mines, estimated to be on or about the year 1993, it is planned to begin restoration work.

Pump House

A cinder block ten (10') x fifteen (15') x eight (8') building with a slab floor housing an electric pump shall be salvaged and removed from the permit area.

The electric service pole and wire shall be removed and salvaged by Utah Power & Light Company.

Both pad and spur road fifteen (15') x seventy (70') access from the paved haul road will be scarified and bladed to conform to its original contour.

The area shall be mulched and seeded to meet existing vegetational cover. (See seeding mixture and application requirements.)

Water Line

Presently, water is pumped from the pump house to an underground reservoir (sump) located in the Deseret Mine via a six (6") aluminum irrigation pipe line.

Upon removal of the pump house, the surface laid pipe shall be removed.

Approximately sixteen hundred (1,600') feet of side cut road will require stabilizing. This section of access road lies above the paved haul road between the pump house and the main mine area. Stabilizing shall include removing any existing culverts and restoring cross drainages, outsloping road bed and scarifying the entire road bed.

Water bars shall be installed per U.S. Forest Service specifications.

Seeding, mulching and fertilizing shall be applied in amounts and mixtures as stated in Seed, Mulching and Fertilization Requirements.

#### Access Road

An access road approximately one thousand (1,000') feet in length used for unloading water trucks, adjacent to the pump house shall be reclaimed as follows:

Culverts shall be removed.

Roadbed scarified and bladed including leveling of sedimentation structures, if any, and barrow areas.

Seeding, mulching and fertilizing shall be applied in amounts and mixtures as stated in Seed, Mulching, and Fertilization Requirements.

### Alternate Plan #1

These facilities (pump house and water line) were required because of the dry nature of the mines. Water is needed to mine coal (hydraulics and dust suppression).

In the Wilberg Mine (an adjacent mine), water is generated as coal is mined and has sufficient amounts to supply itself and also the needs of the Des-Bee-Dove Mines. The problem is drilling a water line through a fault that separates the mine.

It is planned that future mining in the Wilberg will contact this fault at which time a connection for water will be attempted.

If successful, the external water system no longer will be needed and will be removed and reclaimed at that time.

### Alternate Plan #2

After mining and reclamation work begins, the pump and water line may be used to supply forced watering for initial plantings to enhance successful revegetation of the portal areas.

After plant establishment, the pump and water line shall be removed as previously described.

SEEDING, MULCHING AND FERTILIZATION REQUIREMENTS

- Season: For best use of seasonal moisture, planting is recommended during the late fall months.
- Soil Preparation: Soils should be broken and loose to a depth of at least twelve inches (12").
- Fertilizer: Till in about 100 lbs. of triple super phosphate and 70 lbs. ammonium nitrate per acre prior to seeding.
- Mulching: Mulch with straw or native grass hay at the rate of one (1) ton per acre and, if possible, mulch should be knitted in to the planting bed by means of a disc harrow.
- Seeding: Broadcast and harrow seed mixture applied at a 20 lbs./acre rate.

Recommended Native Species for Reclamation After  
Termination of Mining

Grass

Western Wheatgrass	<u>Agropyron smithii</u>
Whitmer Beardless Wheatgrass	<u>Agropyron inerme</u>
Bluebunch Wheatgrass	<u>Agropyron spicatum</u>
Salina Wildrye	<u>Elymus salinus</u>
Indian Ricegrass	<u>Oryzopsis hymenoides</u>
Blue Grama	<u>Bouteloua gracilis</u>

Shrub

Utah Serviceberry	<u>Amelanchier utahensis</u>
Antelope Bitterbrush	<u>Purshia tridentata</u>
Desert Bitterbrush	<u>Purshia glandulosa</u>
True Mountain Mahogany	<u>Cercocarpus montanus</u>
Winterfat	<u>Ceratoides lanata</u>
Fourwing Saltbush	<u>Atriplex canescens</u>
Black Sagebrush	<u>Artemisia nova</u>
Green Ephedra	<u>Ephedra viridis</u>

Forb

Utah Sweetvetch	<u>Hedysarum boreale</u> var <u>utahensis</u>
Lewis Flax	<u>Linum lewisii</u>
Palmer Penstemon	<u>Penstemon palmeri</u>

Sedimentation Control Facilities

UP&L map CM-10316-DS shows the disturbed area including all affected surface facilities. Area size is approximately one acre as calculated below:

$$\begin{aligned} \text{Pad } 100' \times 300' &= 30,000 \text{ ft.}^2 \\ \text{Road } 14' \times 600' &= \underline{8,400 \text{ ft.}^2} \\ &38,400 \text{ ft.}^2 \\ 38,400 \text{ ft.}^2 &\div 435,600 \text{ ft.}^2/\text{acre} \\ &= \underline{0.9 \text{ acre}} \end{aligned}$$

Runoff and sediment control will be accomplished as follows: The pad and access road will be graded and shaped with a two percent (2%) to the right hand side. Dirt berm will be installed on both sides of the pad and access road. A 2' wide by 2' deep ditch will also be made along the right hand side of the road and pad to channel water to the sedimentation basin. Straw dikes will be installed every 100' to dissipate velocity and control erosion. (See Typical Section Drawing CS-391A.) All surface runoff from the affected area will be channeled through sedimentation facilities before being discharged to the stream channels. Two sedimentation basins are to be constructed. One will catch the runoff from the immediate pumphouse area.

Basin Size: 10' Wide  
10' Long  
5' Deep

The second basin will trap all surface water from the pad and access road.

Basin Size: 15' Wide

20' Long

5' Deep

Straw filter will be installed in both basins.