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file 015/017 #2

utah power & LIGHT COMPANY
1407 West North Temple
P.O. Box 899
Salt Lake City, Utah 84110

January 26, 1989

RECEIVED
JAN 30 1989
DIVISION OF
OIL, GAS & MINING

Mr. John Whitehead
Permit Supervisor
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Whitehead:

In regards to your letter of December 27, 1988, enclosed are Pages 2-74 and 2-75 revised 1/26/89. This updates the Des-Bee-Dove permit to include monitoring of No. 41 Alpine Spring and No. 57 Flag Lake Spring.

Please call if you have questions.

Sincerely,

David Smaldone
Director of Permitting,
Compliance and Services
Mining Division

DS:bb:6153
Enclosure

b. Deer Creek

(1) Above the mine: (Approximately 600 feet upstream from the mine facility.) 200 feet North, 800 feet West of the Southeast corner of Section 10, Township 17 South, Range 7 East.

(2) At Permit: (Approximately 5,000 feet downstream from the mine facility.) 480 feet South, 3360 feet East of the Northwest corner of Section 1, Township 17 South, Range 7 East.

(3) Below the Mine: (Approximately 12,000 feet downstream from the mine facility.) 480 feet South, 3360 feet East of the Northwest corner of Section 1, Township 17 South, Range 7 East.

c. Meetinghouse Canyon - South Fork: Approximately 200 feet upstream from the north and south convergence.) 800 feet North, 1500 feet East of the Southwest corner of Section 35, Township 16 South, Range 7 East.

B. Groundwater Hydrology

1. East Mountain Springs (see attached Map 2-10A for spring locations.) (These springs are associated with the Deer Creek, Cottonwood/Wilberg and Des-Bee-Dove Mine's spring monitoring program.)

Burnt Tree *
Elk Spring *
Sheba Springs *
Ted's Tub
79-2
79-10 *
79-15
79-23 *
79-24
79-26 *
79-28 (Flag Lake)
79-29 *
79-34
79-35 *
79-38
79-40
80-41
80-43
80-44 *
80-46 *

80-47
82-51
82-52 *
84-56 *
89-60 (Alpine Spring)

* Recession Study Springs

2. Surface Piezometric Data

   a. Rilda Canyon (see attached Map 2-10 for locations) (associated with the Deer Creek Mine)
      P1
      P2
      P3
      P4
      P5
      EM-47
   b. Cottonwood Creek (associated with the Cottonwood/Wilberg Mine)

3. In-Mine

   a. Deer Creek Mine (see attached Map 2-11 for locations)
      (a) 3rd South "B" xc-21
      (b) 3rd North xc-41
   b. Wilberg/Cottonwood Mines (see attached Map 2-11A for locations)
      (a) 2nd South xc-11
      (b) 4th East xc-24

II. <u>Monitoring Schedule</u>

A. Field Measurements: Listed below are the sites which will be monitored by UP&L Mining Division in accordance with the guidelines established by DOGM; i.e.,
   - Date
   - Flow
   - pH
   - Temperature
   - Dissolved oxygen
   - Specific conductivity

1. Cottonwood Canyon Creek (Cottonwood/Wilberg Mine)

   a. Cottonwood Canyon Creek - USGS Flume
   b. Grimes Wash
      (1) Right Fork
      (2) Left Fork
      (3) Below the mine

2. Huntington Canyon Drainage (Deer Creek Mine)

   a. Deer Creek
      (1) Above the mine