



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 4-37.4 and 4-37.5 revised 1/26/89. This updates the Deer Creek permit to include monitoring of No. 41 Alpine Spring and No. 57 Flag Lake Spring.

Please call if you have questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Smaldone".

David Smaldone  
Director of Permitting,  
Compliance and Services  
Mining Division

DS:bb:6154  
Enclosure

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. Monitoring Schedule

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

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 \*