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**Utah
power**
& LIGHT COMPANY

MINING DIVISION

Field Office

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April 30, 1987

Mr. Tom Munson
UTAH STATE DIVISION of
OIL, GAS & MINING
3 Triad Center
Salt Lake City, UT 84180-1204

Dear Tom:

As we discussed in our meeting on April 13, Utah Power & Light Company is desirous of revising its Hydrologic Monitoring Program. It is our contention that the data collected to date more than adequately define the flow characteristics and quality of the springs relative to baseline data; therefore, we propose to modify our Monitoring Program as follows:

1. Only the springs located within or immediately adjacent to areas overlying coal to be mined in the next five (5) years or areas overlying previously mined areas will be monitored [except that the thirteen (13) discharge recession curve springs will all be monitored regardless of location].
 - A. Each Annual Hydrologic Monitoring Report will include a map which will show previously mined areas and areas to be mined in the upcoming five (5) years. The springs to be monitored in the upcoming year will be identified from the map.
 - B. New springs will be added each year based on the new areas to be mined in the upcoming five (5) years.
 - C. Springs will cease to be monitored when 1) it has been determined that mining induced subsidence has stabilized and that the spring monitoring indicates stable hydrologic conditions, and 2) it is mutually agreed by UP&L and the Division that monitoring should be terminated.
 - D. The springs will be monitored in July and as many as are accessible will be monitored in October.
 - E. Each spring will be measured for the following parameters:
 1. Quantity of discharge
 2. pH (Field Measurement)

CC ~~XXXXXXXXXX~~
T. MUNSON
J. WHITEHEAD
R. SMITH
J. WHITEHEAD

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DIVISION OF
OIL, GAS & MINING

3. Temperature (Field Measurement)
4. Conductivity (Field Measurement)
5. Dissolved oxygen (Field Measurement)
6. Alkalinity (Total)
7. Chloride
8. Conductivity
9. Fluoride
10. pH
11. Solids, Total Dissolved
12. Solids, Total Suspended
13. Sulfate
14. Turbidity
15. Total Cation
16. Total Anion
17. Calcium
18. Iron
19. Magnesium
20. Potassium
21. Sodium

F. In 1987 the following springs will be monitored under the program:

1. 79-38
2. 79-12
3. 79-24
4. 79-2
5. 80-43
6. 79-40
7. 80-41
8. 80-47
9. 79-15
10. 79-34
11. 82-51

II. The thirteen (13) springs identified for discharge recession curve monitoring will be monitored monthly, access permitting, each year between June and November.

A. The springs include:

1. 79-29
2. 79-10
3. 79-35
4. 84-56
5. 80-44
6. Burnt Tree
7. 82-52
8. 79-23
9. Sheba
10. Elk
11. 79-26

12. 80-46
 13. Rilda Canyon Wells
- B. The springs will be measured once a year in accordance with the parameters listed for spring monitoring under item I. E. of this document.
- C. Springs will be measured monthly for the following parameters:
1. Discharge
 2. Specific conductivity (Field Measurement)
 3. Temperature (Field Measurement)
 4. pH (Field Measurement)
 5. Total Hardness
 6. Carbonate
 7. Total Manganese
- III. All other portions of our Hydrologic Monitoring, both surface and underground, will remain unchanged and as listed in the approved Plan.

I am submitting this to you so that you may understand our intent. If you are in agreement with the changes, we will submit a formal modification to our Monitoring Plan. Please contact me if you have any questions and when you have determined that the changes listed are acceptable.

Sincerely,


Rodger C. Fry
Director of Exploration

RCF/sh/858
cc: C. Semborski