

0059

FILE
ACT/015/018B
#3

UTAH POWER & LIGHT COMPANY

1407 WEST NORTH TEMPLE STREET
P. O. BOX 899
SALT LAKE CITY, UTAH 84110

February 22, 1983

Mr. Cy Young
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Cy:

In response to your concern of the Wilberg's waste rock disposal site expansion, we submit that the technical review afforded site No. 1 also applies to site No. 2 (see Wilberg's permit application).

As for surface runoff protection, we have modified drawing CM-10361-WB to show how a small diversion ditch would carry the runoff waters away from the project storage area. A sample of the calculations are attached.

If you require further information, please call me.

Sincerely,



C. E. Shingleton
Director of Services
Mining and Exploration

CES:bb:3767
Encl.

RECEIVED
FEB 22 1983

DIVISION OF
OIL GAS & MINING

RUNOFF CALCULATION

Given:

1. Area 4.5 acres
2. 10 year, 24 hour event - 1.5 inches ✓
3. SCS runoff curve number - 79

$$Q = \frac{(P-0.2 S)^2}{P + 0.8 S} = \frac{(1.5-0.2 \cdot 2.65)^2}{1.5+0.8 \cdot 2.65} = \frac{.94}{3.62} = .259$$

$$Q = .26 = \text{runoff}$$

$$q_p = \frac{0.681 \cdot 4.5 \cdot .26}{L = 13} = \frac{.8}{.13} = 6.13 \text{ CFS}$$

L = 7% slope 1000 feet distance

Temporary diversion to carry 6.13 second feet is sized at 1.0 feet deep and 2.0 feet wide.

It is noted this size ditch will exceed the needs by a factor of 4. *WHERE 24.*

CES:bb
2-22-83