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ACT-015-009

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
Manti-LaSal National Forest
350 East Main Street
Price, Utah 84501

2800
Lease No. U-082996
February 23, 1977



Mr. Ron W. Daniels
Division of Oil, Gas, and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

Dear Ron:

As per our telephone conversation of February 18, 1977, I am forwarding our Environmental Analysis Report on the Bell Mine in Cottonwood Canyon, and a section of our Manual dealing with flood frequency interval for design purposes. In the back of the Environmental Analysis Report is a hydrologic report on Cottonwood Drainage.

You will note that the frequency of failure for the present system is every two years. You will also note that our standards indicate the design for a 50-year flood, in this case 450 cfs. For a value of N equals 0.21 and critical slope equal to 1%, this flood would require a 96-inch culvert. A bridge would probably be more appropriate and could, depending on the length of the culvert required, be more economical.

I have also attached a letter to our Forest Supervisor from Ralph J. Blumer (USGS) for your information. It appears from your letter that Mr. Blumer may have misunderstood your letter.

We have scheduled the meeting with you for March 8, and will expect you at the Supervisor's Office at 10:30 A.M.

Sincerely,

WILLIAM H. BOLEY
Forest Engineer

Enclosures

