



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Womerton, Director
Temple A. Reynolds, Executive Engineer
Dianne R. Nielson, Ph.D., District Engineer

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 15, 1985

Mr. Chris Shingleton
Utah Power and Light Company
P. O. Box 899
Salt Lake City, Utah 84110

Dear Mr. Shingleton:

Re: Review of NOV N84-2-22-1 for the Des-Bee Dove/Wilberg Haul Road, Utah Power and Light Company, Des-Bee-Dove Mine, ACT/015/017, Folder No. 2, Emery County, Utah

You submitted to the Division plans to route drainage off of the Des-Bee-Dove/Wilberg Haul Road on December 21, 1984. The following comments or concerns initiate from a review of this submittal.

The methodology selected to determine the adequacy of the culverts to pass the necessary peak flow is acceptable. The following questions come from certain information which is lacking in your designs.

There are as follows:

1. The culvert installation associated with NOV # 84-2-22-01, namely the rock dissipaters shown at the outlet of these culverts, must be sized to reflect the exit velocities expected from the design flows. The suggested rock sizes for these dissipaters are as follows:
 - a. Area # 1a and # 1b
 - b. Area # 2
 - c. Area # 3a and # 3b
 - d. Area # 4

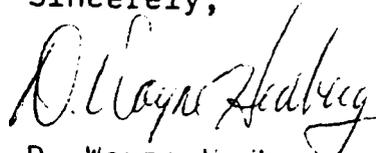
Road Drainage Areas	Exit Velocities(fps)	Suggested Rock Sizes
1a & 1b	15.59	36"
2	14.9	30"
3a	13.65	24"
3b	13.06	24"
4	9.17	12"

Page 2
Mr. Chris Shingleton
January 15, 1985

2. Several culverts existing under the road currently are plugged or have been plugged with sediment. The applicant must provide a means for controlling this problem, whether it be energy dissipators upstream of the culverts in the form of rock gabions or other alternative means of sediment control. Stations 219, 219 + 50, and Station 131 have been noted as obvious problem areas.
3. An approved maintenance schedule to check for signs of significant erosion must be implemented by the applicant along the length of the road, including records kept for two consecutive seasons. These inspections must take place during the months of May, July and September and be subject to inspection by the regulatory authority. These records must include a check list of the 22 culverts by station and should note signs of significant erosion at the outlets and any culverts plugged with sediment at the inlets. Any significant erosion in roadside ditches and associated downslopes must also be noted.
4. Within 30 days of an observed erosion problem noted by the regulatory authority or applicant, the applicant must submit a plan to mitigate the problem associated with any culverts or ditches, and implement this plan upon approval from the regulatory authority.
5. Within 30 days of permit approval, the applicant must submit the scheduled maintenance procedures for the Des-Bee-Dove/Wilberg Junction road.

A response to these questions and conditions must be received by the Division within fifteen days of receipt of this letter. Any questions or concerns please feel free to give as a call.

Sincerely,



D. Wayne Hedberg
Permit Supervisor/
Reclamation Hydrologist

TM:jvb
cc: M. Humphrey
A. Klein
W. Swain
R. Daniels
M. Boucek
J. Helfrich
S. Pruitt

0099R-11

