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A SAVAGE BROTHERS COMPANY

File ACT/015/017  
# 3 & 15 w/map  
1985

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MAY 12 1985  
DIVISION OF OIL  
GAS & MINING

May 9, 1985

Mr. Wayne Hedberg  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Dear Mr. Hedberg:

REGARDING: Des Bee Dove Mine Drainage Modification

This letter is our response to a request made by Sandy Pruit of your office concerning some erosion problems at our Des-Bee-Dove Mine.

The area of concern is located adjacent to the Beehive Mine sub-station. The road to East Mountain that serves as a drainage structure has failed allowing a concentration of water to be channeled through this area.

Therefore our plan constitutes the following:

- Size: 1.9 Acres (From Map 1)
- CN Number 85 (From MRP)
- 10 yrs 24 hr. precipitation 1.9 inches (From MRP)
- Peak flow during a 10 year 24 hour storm event is less than 5 cfs.

Using manning equation:

- Slope 50%
- Flowrate 5 c.f.s.
- A 8" diameter pipe will carry 8.58 c.f.s. which is greater than the 5 c.f.s. required.

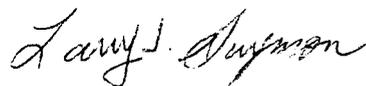
Therefore, the drainage plan for area #1 will be to install a 12" diameter culvert with inlet down the slope (see drainage plan).

Area #2: Some damage has occurred to the East Mountain access road causing water to concentrate in area #1.

To rectify this problem the drainage on the road will be repaired to function properly.

Your attention to this matter is appreciated.

Sincerely,



Larry J. Guymon  
Construction Manager

cc: Bill Zeller  
Ray Christensen  
Morgan Moon  
Tom Kerns  
Dale Grange  
Val Payne  
Chris Shingleton UP&L