

0047

**PLATEAU MINING COMPANY**

*File ACT/007/006*

**RECEIVED**

A Subsidiary of Getty Oil Company  
P O Drawer PMC Price, Utah 84501  
Telephone (801) 637-2875

JUL 11 1984

DIVISION OF OIL  
GAS & MINING

July 10, 1984

Mr. D. Wayne Hedberg  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

RE: NOV 84-4-7-6, No. 1 of 6

Dear Wayne:

Enclosed is a letter from Marvin Allen P.E., of Vaughn Hansen Associates, verifying that the 14-inch culvert is adequate to handle the flow in Ditch No. 16. Also attached are seven copies of Plate 1B, which is one of the maps included in the January 1984 submittal of the "Review of "As Built" Runoff and Sedimentation Control Plan". This plate shows the revision discussed in the enclosed letter and the addition of the 14-inch culvert in Ditch No. 16. Notice that the map is stamped by Marvin Allen, P.E.

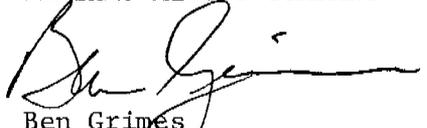
Because of construction restraints, we need to install a 12-inch culvert under the railroad tracks at the loaded car yard instead of an 18-inch culvert. We would appreciate an early response on this modification as we are anxious to install the culvert to prevent overloading Sediment Pond No. 4. Justification for reducing the culvert size is included in the enclosed letter from Marvin Allen.

I need to discuss with you how to integrate abatement plans, calculations and modifications into our MRP as you suggested in your June 15 letter. I am not sure how this can be accomplished.

If you have any questions, please call.

Respectfully,

PLATEAU MINING COMPANY

  
Ben Grimes  
Environmental Coordinator

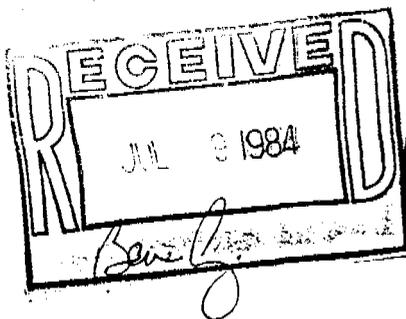
BG:sd

Enclosure  
Attachment

CONSULTANTS / ENGINEERS

# VAUGHN HANSEN ASSOCIATES

WATERBURY PLAZA - SUITE A  
5620 SOUTH 1475 EAST  
SALT LAKE CITY, UTAH 84121  
(801) 272-5263



July 2, 1984

Mr. Ben Grimes  
Plateau Mining Company  
P.O. Drawer PMC  
Price, Utah 84501

RECEIVED

JUL 11 1984

DIVISION OF OIL  
GAS & MINING

Dear Ben:

As per your request in our meeting held at my office on June 26, 1984, I am summarizing herein our conclusions with regard to required diameters of the proposed culvert beneath the railroad track at the confluence of Diversion Ditches No. 18A and No. 18B, and the existing 14-inch diameter culvert located on Ditch No. 16 (approximately six tenths of total distance of the ditch up from its lower end).

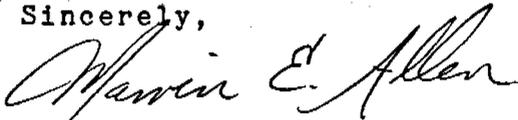
As indicated on Plate 1B of our report entitled "Review of As Built Runoff and Sedimentation Control Plan Star Point Mines", we had proposed that the culvert associated with Ditches 18A and 18B be an 18-inch diameter culvert. The combined flow from Ditches 18A and 18B is only 1.9 cfs. A 12-inch diameter culvert under inlet control with projecting end will pass 2.1 cfs at a headwater depth to diameter ratio of 1. Under the criteria that you outlined to me (i.e. 6 percent slope at a length of 50 feet) inlet control will govern. We had initially recommended an 18-inch diameter culvert based on your desire that the minimum diameter to be considered be 18-inches. However, since you are limited from a construction standpoint to placing a 12-inch diameter culvert underneath the railroad tracks, we recommend that the diameter of this proposed culvert be 12-inches and we have correspondingly made this modification on Plate 1B.

With regard to the existing 14-inch diameter culvert on Ditch No. 16, less than half of the total contributing runoff to Ditch No. 16 must be passed through the 14-inch culvert. The peak estimated flow from the 10-year, 24-hour event for the ditch at its downstream terminus is only 0.62 cfs. Therefore, the peak estimated flow of the ditch at the culvert inlet (which receives less than half of the total runoff) would be less than 0.62 cfs. At a headwater to diameter ratio of one, a 14-inch diameter culvert under inlet control can pass approximately 3 cfs. Therefore the existing 14-inch cmp is more than adequate. We have added the 14-inch cmp for Ditch No. 16 to Plate 1B.

Mr. Ben Grimes  
July 2, 1984  
Page 2

Enclosed are the 14 copies of the revised Plate 1B that you requested as well as a mylar copy of Plates 1A and 1B. If you have any questions regarding the above information, please call.

Sincerely,

A handwritten signature in cursive script that reads "Marvin E. Allen". The signature is written in dark ink and is positioned above the typed name.

Marvin E. Allen, P.E.  
Executive Vice President

MEA/jd

Enclosures