

0030

# PLATEAU MINING COMPANY

A Subsidiary of Getty Mining Company

P.O. Drawer PMC

Price, Utah 84501

Telephone (801) 637-2875

July 18, 1983

David Lof  
D.O.G.M.  
4241 State Office Bldg.  
Salt Lake City, Utah 84111

**RECEIVED**

JUL 22 1983

RE: NOV 83-4-5-1

**DIVISION OF  
OIL, GAS & MINING**

Dear David,

The above mentioned NOV was modified to June 28, to submit revised hydrology plans. On June 28, I called to ask for a 30-day extension; you were in the field so I talked to Joe Helfrich who granted the extension.

Attached, you will find a revised map showing the current surface water and sedimentation control facilities.

Physical conditions in the field caused us to change the location and design of diversion ditches 9, 12, and 13, from the original plan for the Star Point mines.

Ditch No. 13 has been moved from the original location north to an existing road utilized by the original mining company as a rail tramway. The inside or uphill side of the road has a ditch that collects water from the undisturbed area. This ditch runs east where it joins with Ditch No. 12; together they run into an inlet box and into the 60" diameter by-pass culvert.

Ditch No. 9 is the main canyon undisturbed water drainage channel.

An existing ditch running parallel with Ditch 9 collects disturbed area water from the railroad track area and channels it eastward to sediment pond No. 4.

Ditch No. 12 will be revised to include a culvert downspout to funnel the flow over the hill to the existing box which flows to the 60" by-pass culvert. Since Ditch No. 13 and No. 12 join together, the design flow, as shown on Table 1, attached, is 3.4 cfs. We propose installing a 15" diameter downspout which will more than adequately handle the flow.

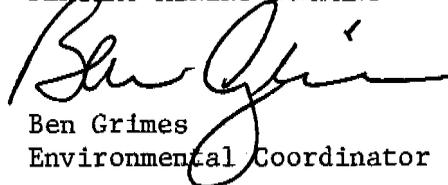
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The berm near the overland conveyor has been reconstructed and a new inlet box is being constructed to collect disturbed area water and channel it into an existing sediment trap at the base of the hill near the railroad tracks.

If you have questions, don't hesitate to call.

Sincerely,

PLATEAU MINING COMPANY



Ben Grimes  
Environmental Coordinator

BG/lm

Attachments

cc: B. Lauman w/o attachments

TABLE 1  
 PLATEAU MINING COMPANY  
REVISED DIVERSION DITCH SPECIFICATIONS

	<u>DITCH 9</u>	<u>DITCH 12</u>	<u>DITCH 13</u>
Design Flow, cfs.	137.4	1.4	2.0
Z, ft./ft.	1.0	1.5	1.5
Width, ft.	2.0	2.7	1.0
Channel Slope, ft./ft.	0.03- 0.060	0.02- 0.25	0.02 0.03
Channel Lining	Rip-rap	Earth	Earth
Mannings "n"	0.042	0.030	0.030
Flow Depth, ft.	3.24- 2.75	0.21- 0.10	0.42- 0.38
Flow Velocity, fps.	10.5	5.0	3.4
Flow Area, ft. <sup>2</sup>	13.07	0.28	0.59
Channel Depth, ft.	3.5	0.6	0.9

Flow Equation:  $Q = VA = 1.49/n R^{1/2} S^{2/3} A$