0013

Document Information Form

Mine Number: C/007/006

File Name: Internal

To: DOGM

From:

Person N/A

Company N/A

Date Sent: N/A

Explanation:

PLATEAU MINING ENERGY DISSIPATION Design

cc:

File in:
C/ 007 , 006 , Internal
Refer to:
- ☐ **Confidential**
- ☐ **Shelf**
- ☐ **Expandable**

Date _____ For additional information

Table 3. Water Surface Profile Moving Upstream

Plateau Mining Energy Dissipation Design

Subcritical Flow

Riprap	TO	TRANSITION	TO	Basin	
	N	S	M	B	L
Riprap	0.038	0.050	2.0	5.0	0.0
TRANS	0.040	-.500			1.0
Basin	0.040	0.000	2.0	5.0	20.0

Q= 62.00 CFS

DISTANCE (ft)	DEPTH (ft)	DERIVATIVE DY/DX	INCREMENT DLX	FR2	STATION (ft)
+0.000	1.45	-3.664137E+00	-0.006	0.858	0 + 80
-0.006	1.47	-2.792055E+00	-0.006	0.814	
-0.013	1.49	-2.411673E+00	-0.006	0.785	TRANSITION
-0.019	1.50	-2.146829E+00	-0.006	0.758	
-1.006	2.29	-4.250308E-03	-0.003	0.161	GRADE CHANGE
-1.009	2.29	-4.250192E-03	-0.003	0.161	
-1.013	2.29	-4.250073E-03	-0.003	0.161	
-1.016	2.29	-4.249956E-03	-0.003	0.161	
-3.406	2.30	-4.162262E-03	-0.400	0.158	
-5.806	2.31	-4.078340E-03	-0.800	0.156	
-9.006	2.32	-3.972355E-03	-1.600	0.153	BASIN
-13.806	2.34	-3.824789E-03	-3.200	0.148	
-17.006	2.35	-3.733238E-03	-3.200	0.145	
-20.206	2.36	-3.646605E-03	-3.200	0.142	1 + 00
-26.606	2.38	-3.486516E-03	-6.400	0.137	1 + 08

N= Mannings n
S= Channel Slope
M= Channel Side Slope
B= Channel Bottom Width
L= Channel Length
FR2= Froude Number Squared

File in:
- ☐ Confidential
- ☐ Shelf
- ☐ Expandable

Refer to Record No 0013 Date _____
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For additional information

We have contracted Vaughn Hansen Associates, Consulting Engineers, to re-evaluate our entire surface water runoff plan. Part of their job was to recommend a ditch design for Ditch No. 14.

The ditch was designed to pass safely the peak runoff from a 25 year-24 hour precipitation event. UMC 813.43(a) states that "temporary diversions shall be constructed to pass safely the peak runoff from a precipitation event with a 2 year recurrance interval, or a larger event as specified by the Division." Based on separate phone conversations by myself and Marv Allen (Vaughn Hansen Associates) with Wayne Hedberg, the Division's policy is to require 25 year-24 hour event criteria for temporary diversions of natural drainages. Clearly, the use of a 25 year-24 hour event design exceeds greatly the requirements of the regulations and is consistent with Division policy.

The peak flow from a 25 year-24 hour event equals 62 cubic feet per second and requires a 54 inch diameter half-round culvert at a minimum slope of 5 percent grade.

The existing ditch meets and exceeds the 5 percent grade except for two short stretches. These short stretches can be regraded with little effort to meet the 5 percent requirement.

The half-round pipe will be installed with the inlet and outlet ends protected by rock aprons extending 20 feet from the pipe. Delivery time for the pipe is approximately 3 to 4 weeks.

Since we could receive adverse weather any day, we request that we be allowed to size the existing ditch with the required flow area, protect the areas where scouring occurred recently and install the half-round pipe next spring. We would protect the problem areas where scouring occurred by lining the area with rock or conveyor belting secured to the ditch bottom and sides.

Advise if you concur with these recommendations.

Sincerely,

PLATEAU MINING COMPANY

Ben Grimes
Environmental Coordinator

BG:sd

cc: Marv Allen, Vaughn Hansen Associates
Jeff Collins, Getty

3/15/83

DOGM/OSM Meeting at Plateau

Subject: Unit Train Loadout Modification

Name	Representing
Ben Grimes	Plateau
Jeff Saunders	Getty
Terrell Johnson	Getty
Victor Cox	Getty
Tom Postle	DOGM
Shannon Storrua	D.O.G.M.
Rick Summers	D.O.G.M
Marlene Berg	OSM
Bill Snyder	PMC.
Lynn Kunzler	DOGM
Bob Lauman	Plateau
Marc Wangsgard	PMC
Don Williams	FB&D
GLENN BARTON	FB&D
Floyd J. Tucker	P.M.C
Walt Mourek	USFS
Brent Barney	USFS
D. WAYNE HEDBERG	DOGM