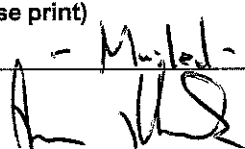


Date 6/7/18

EXPLOSIVES INSPECTION REPORT
 (TYPE: EXPLO)

Name: New Hope Crushed Stone & Lime, Co.	Municipality/Township: Solebury Twp.	License/Permit	Program	Inspected Entity	ENF Type	IRC
Address: PO Box 248 New Hope, PA 18938	County: Bucks	BAP				
	Blaster's Name: Kevin Reilly	SMP 7974SM3	MIM	PF		NOVIO
Telephone: 215-862-5288	Blasters License: BL-8639	BL				
	Weather:	SP				
Contract Blaster: Maine Drilling & Blasting, Inc.	Wind Direction:	PP				
Address:	Site Name:		Longitude:	Permit Status: active		
	Complaint ID:		Latitude:	Inspection Result: No violations were cited.		

Remarks: On site review was conducted with Rich Strouse, quarry foreman. Operator's blasting contractor has submitted (on behalf of the operator) a design plan and parameters (see attached plan) for reclamation blasting that is to be conducted on the east wall. This plan has been approved. If the operator/blasting contractor needs to revise and/or adjust these guidelines they should contact the Department prior to doing so. This plan was also reviewed with the blaster while onsite. The blaster was informed that he should insure that he has a copy of the plan prior to doing blast site layout and design. Blast and seismic records were also reviewed, records were found to be complete and in compliance with their approved blast plan. Blasting contractor was preparing to conduct a blast, it appeared that the blast loading and prep were conducted in a safe manner. No violations were cited.

Person contacted (please print) Rich Strouse	Title foreman	Times-On-Site _____ to _____	Page 1 of 1					
Blasting Inspector Ross Klock		ID#	4	9	4	6	7	4
		Accompanied By	ID#					

The responsible party signature acknowledges that he/she has read the report, including the reverse side, and that he/she was given the opportunity to discuss it with the investigator. The signature does not necessarily mean he/she agrees with the report.

- White - District File Yellow - Operator Pink - Blasting Insp. Goldenrod - SMC/Other

CC: A. Bollinger, SMC
 C. Lulsh, EGM

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making it happen

**Maine Drilling
& Blasting**

May 30, 2018

To Whom it May Concern,

In Regards to the New Hope East Wall Reclamation, MD&B has reviewed the feasibility and proposes the following blast design (please refer to attached documents) to accomplish this project:

- 1) Traditional open cut blasting techniques will be utilized. This includes utilizing vertical holes of staggered depths ranging from 9' to 35' in depth to achieve desired slope.
- 2) Pattern and hole size are as follows: 7' burden x 9' spacing/4" diameter bore holes
- 3) Holes will be loaded utilizing emulsion and stick product as needed. Stemming height will vary depending on depth of overburden with a minimum stemming height of 6'.

MD&B is confident the above design and parameters are achievable and will yield the desired results. If there are further questions or concerns please feel free to contact me.

Sincerely,

Shane LaGray (BL-8711)

Maine Drilling & Blasting, Inc.
P.O. Box 1140
542 Brunswick Avenue
Gardiner, ME 04345
207.582.2338
207.582.8794 FAX

Divisional Offices
Connecticut 860.242.7419
Maine 207.582.2338
Massachusetts/RI 508.478.0273
New Hampshire 603.647.0299
New York 518.632.9170
Pennsylvania 717.866.8981
Vermont 802.453.5138

Loaded Hole-Blast Design for:

Job New Hope Crushed Stone CO

Owner/Site New Hope Crushed Stone

Location: New Hope, PA

Division: MA Quarry

Customer

Author ashowalter On:2/15/2018 Updated By slagray On: 4/18/2018

Blast Plan Description: Open

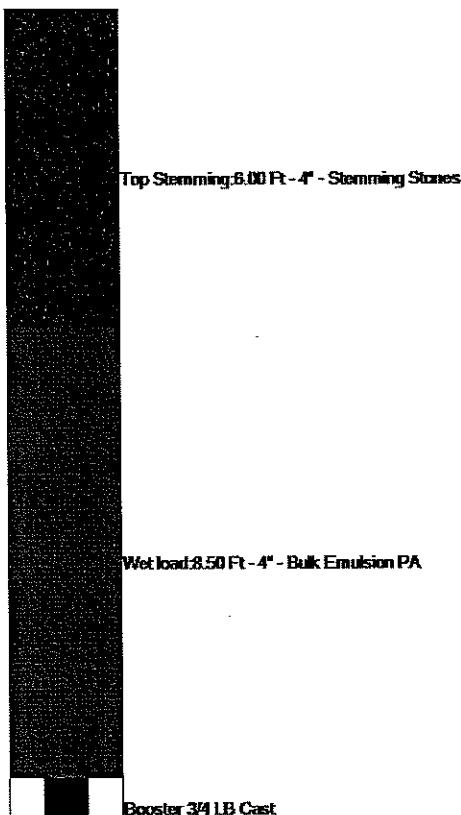


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APENDIX A. - Blast Design Plan:

Est. Number Of Holes:	-
Hole Depth:	14.50 Ft
Hole Diameter:	4 in
Burden:	7.00 Ft
Spacing:	9.00 Ft
Holes per Delay:	0
Pounds Per Delay:	0.00 Lbs
Pounds Per Hole:	58.74 Lbs
Total est. Pounds:	0.00 Lbs
Powder Factor:	1.74 Lbs/Cy
Decks:	0

Loaded Hole Depth - Diameter - Product



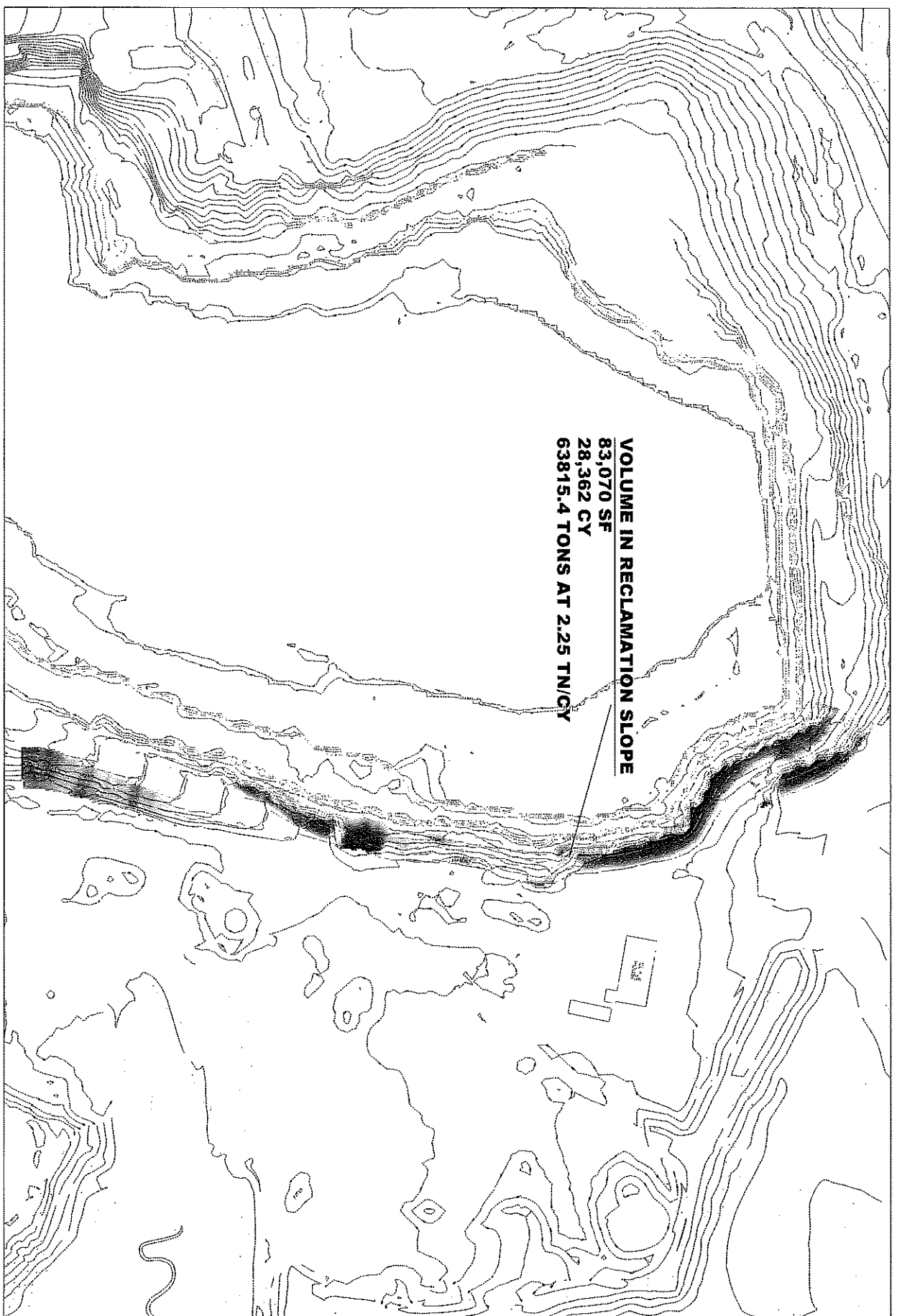
Blast Plan Notes:

Vibration Prediction (formula based on Dupont Handbook)

Site Factor (k) :	0	Ground Constant based on Site/Rock Conidtions
Distance Ft (d)	0	Distance to Structure
Lbs per Delay (w)	0.00	Lbs explosives per 8 millisecond delay
Scaled Distance (sd)	0.00	(sd = d/ square root of w)
Estimated PPV	0.00	(ppv = k * sd ^ -1.6)

Typical for Production work consistent with holes 14.5 Ft deep at from a structure utilizing 4' In diameter at a 7 Ft by 9 Ft pattern.

Plan View/Timing Design (please see attached timing diagram)



VOLUME IN RECLAMATION SLOPE
83,070 SF
28,362 CY
63815.4 TONS AT 2.25 TN/CY

New Hope Quarry
 Phillips Road
 Bucks County, PA

REV	DATE	DESCRIPTION



RECLAMATION
 SLOPE

Maine Drilling & Blasting

DATE: 6/20/14
 SCALE: 1" = 40'