



STATE OF  
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

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## Adequacy Review #1 / TR-1 / Meadow Hollow Quarry / M-2009-006

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**Doc Holliday** <hollidaymining@gmail.com>

Thu, Feb 3, 2022 at 11:28 AM

To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>

Please see attached

Thank you for your time,

John E Holliday

[Quoted text hidden]

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### 2 attachments

 **Blasting Map.pdf**  
353K

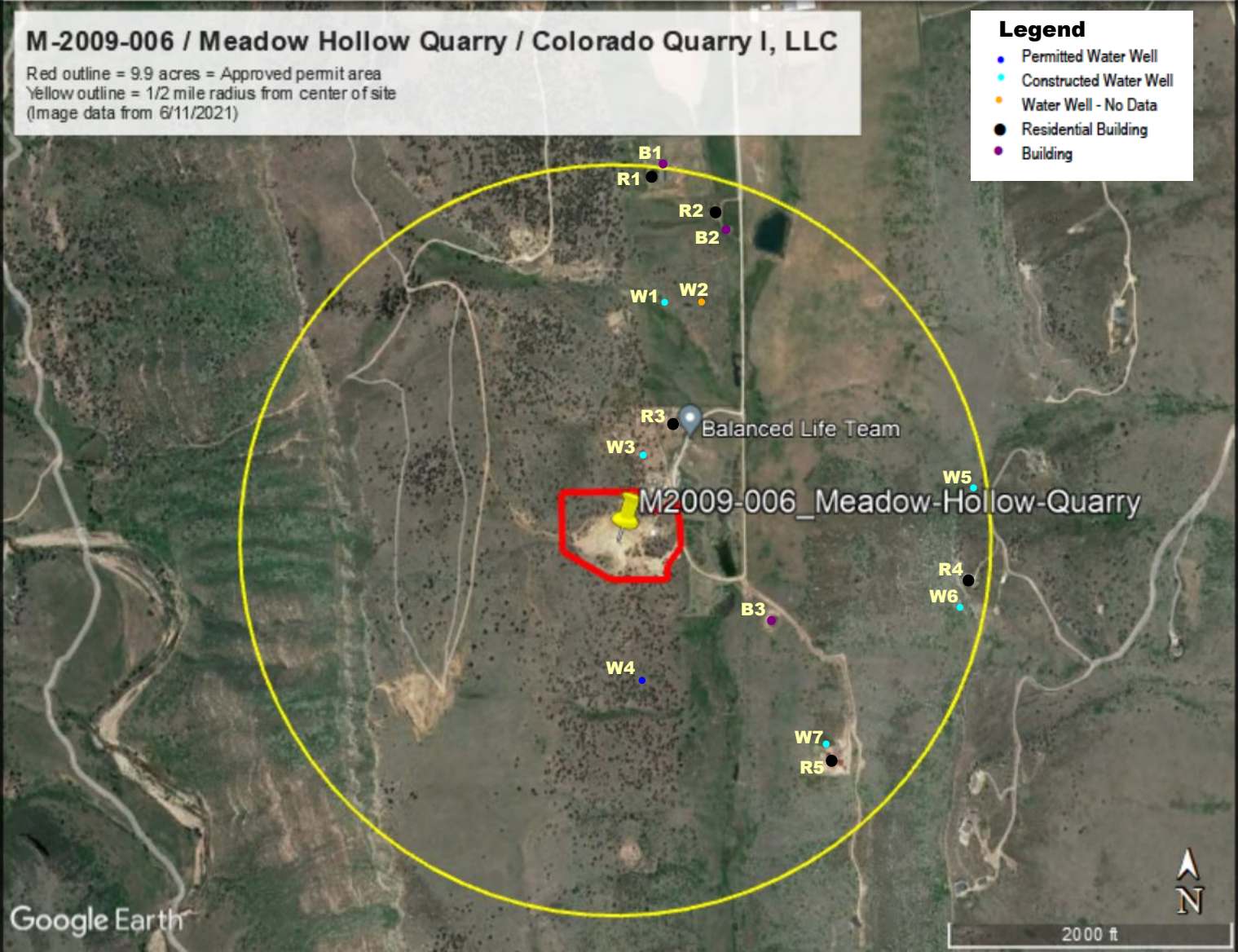
 **BlastPlan2.docx**  
20K

# M-2009-006 / Meadow Hollow Quarry / Colorado Quarry I, LLC

Red outline = 9.9 acres = Approved permit area  
Yellow outline = 1/2 mile radius from center of site  
(Image data from 6/11/2021)

## Legend

- Permitted Water Well
- Constructed Water Well
- Water Well - No Data
- Residential Building
- Building



	Type	Owner/Permit Holder	Receipt No.	Permit No.
W1	Constructed Water Well	Jason Menegatti	0346261	167664
W2	Water Well - No Data	Virgil C. Uber	12728	
W3	Constructed Water Well	William Marcue	9041084	74779
W4	Permitted Water Well	Stephen & Amie Balliet	3659552	291501
W5	Constructed Water Well	Earl W. Morris	0412908A	202273
W6	Constructed Water Well	Govert Koetsier & Pekelhering Marjon	0412908B	202274
W7	Constructed Water Well	Stephen & Amie Balliet	3617474	274353
R1	Residence	Jason A. & Emily L. Menegatti		
R2	Residence	Arlis M. Sprague		
R3	Residence	Wayne R. & Debra R. Dorband		
R4	Residence	Govert Koetsier		
R5	Residence	Stephen B. Balliet Trust		
B1	Barn	Jason A. & Emily L. Menegatti		
B2	Garage	Arlis M. Sprague		
B3	Shop	Stephen B. Balliet Trust		

Colorado Quarry I, LLC  
Meadow Hollow Quarry  
M-2009-006

**Blasting Plan**

I a. Badger Drilling and Blasting

3125 Hwy 7, P.O. Box 1818 Estes Park, CO 80517  
970-586-2091

b. Meadow Hollow Quarry

c. Monday-Saturday (9am-3pm)

d. Post guards at possible access points before blast.

e. 4 long horns 5 minutes before blast

3 long horns 1 minute before blast

1 long horn immediately before blast

3 short horns ALL-clear

f. Wayne Dorband 24 hours before blast

Sheriff office 24 hours before blast

notify any on site workers day of blast

II. Badger Drilling and Blasting is a 20 year professional and recommends that a ½ mile radius Pre-blast surveys are not necessary. Due to the fact that size of blast will be so small and gentle.

III. a. Limit Peak Particle Velocity a 2 in./sec at nearest neighbor.

b. Limit air blast to 130 dB at the nearest neighbor.

c. Blaster will use reasonable burden and spacing, stemming length, weight explosives per delay period and delay timing to limit undesirable blast effects.

d. Instanel Blastmate III, not use of the setup location at this time.

e. Survey Blast Area

Identify hazards

Secure the blast area

Restrict access to unauthorized personnel and equipment.

Keep explosives secure.

Loading of Explosives, check boreholes to verify depth and freedom from obstructions and water.

Assemble primers immediately before loading to minimize exposure.

Protect downlines from damage.

Measure quantity of explosives being loaded into the hole.

Check explosives column rise to prevent overloading.

Clean up blast area before tie-in

Initiating blast

Clear personnel and equipment from blast area.

Guard blast area.

Use established warning signals.

Post blast inspection

When fumes and dust have cleared from the blast area the blaster will check for misfires and ensure that the blast has performed as planned.

Correcting a misfire requires extreme caution. If misfired explosives are found the blasters first course of action will be to re-fire the explosives in

place if safe to do so. If this is not possible the blaster will remove the explosives in the safest way possible.

#### All Clear

The ALL Clear signal can be given when the blaster is sure the blast area is free from undetonated explosives and unsafe ground conditions.

f. i. large rock

ii. 1 to 30, 4ft. to 10 ft., 1.75" – 3" 4ft. to 20 ft.

iii. 3/8" rock 3ft. to 10ft.

iv. ANFO ½ lb. to 25lb.

v. non-electric 25/500 ms.

g. Not sure at this time.

#### IV. We will commit to Generating and Filing a Blast Report.

We will complete a blasting report for each shot.

The report will be retained by the operator for at least 3 years and be available for inspection by the DRMS on Demand.

The record shall contain the following and should not be submitted as part of the Blasting Plan.

- a. Location, date, and time of blast
- b. Name, Signature and license number of blaster-in-charge
- c. Identify, the direction and distance in feet from the nearest blast hole to the nearest potentially affected structure.
  - i. not located in the permit area; or
  - ii. not owned nor leased by the person mining
- d. Weather conditions, including: temperature, wind direction, and approximate velocity
- e. Type of material blasted

- f. Sketched of the blast pattern including number of holes, burden spacing, and delay pattern. Sketched shall also show decking, if holes decked to achieve different delay times within a hole;
- g. Diameter and depth of holes
- h. Types of explosives used
- i. Total weight of explosives used per hole and maximum weight of explosives used per 8 m.s. period.
- j. Initiation system
- k. Type and length of stemming
- l. Mats or other protections used
- m. Type of Delay detonator and delay periods used
- n. Number of persons in blasting crew
- o. Seismographic records where required including:
  - i. Type of instrument sensitivity and calibration signal of the gain setting or certification of annual calibration
  - ii. Exact location on instrument, the blast date and time, and the instrument distance from the blast
  - iii. Name of person and firm taking the reading
  - iv. Name of person and firm analyzing the seismographic record
  - v. The vibration level recorded

## Attachment 2

### Meadow Hollow Quarry

The Intent to blast on this property is to cut a back seem in the formation allowing easier access to material. The larger pieces the better and the minimum explosives used the better. These blasts will be small in size and very gentle as our goal is large pieces of rock and not aggerate.

- a. Yes, Badger Drilling and Blasting
- b. 1-2 blasts per month anticipated
- c. If determined necessary by Blaster-in- charge, a guard will be put at the North gate of the property on the private driveway that extends south of CR 31
- d. No explosives will be stored on site
- e. Please see attached map