



**AUSTIN POWDER LTD.
BLAST REPORT**



341-Winnipeg/Stonewall
Hwy 7 & 67 MB, Stonewall, Canada R0C

Blast No.: 2-2023

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 01/17/2023 14:17

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North East

ENVIRONMENT

Method Used: Lat./Long.

Weather: Cloudy / High Clouds

Wind From: N

Temperature: -10 °C

Terrain: Flat

Wind Velocity: 17-26 km/h

Blast Lat./Long.: 50° 0' 59.850" N 97° 16' 36.170" W

NEAREST PROTECTED STRUCTURE

Structure Name: Whites

Compass Point: NNE

Structure Type: Dwelling

Direction/Bearing: 29 °

Structure Lat./Long.: 50° 1' 7.580" N 97° 16' 29.470" W

Distance: 273 m

LAYOUT

| | | | | | |
|----------------------|-------------|-------------------|-------------|-----------------------|-------------|
| Hole Depth: | 1.13-4.88 m | Material Blasted: | Limestone | Total Meters Drilled: | 1,462.1 m |
| No. of Holes: | 399 | Subdrilling: | 0.00 m | Burden: | [See Below] |
| No. of V.P. † Holes: | 399 | Face Height: | 1.13-4.88 m | Spacing: | [See Below] |
| No. of Rows: | [See Below] | Drilling Angle: | [See Below] | Back Fill Depth: | 0.00 m |
| Diameter: | [See Below] | Mats Used: | No | Stem Type: | 5/8 Clean |
| | | | | Water Depth: | 0.61 m |
| | | | | Stem Length: | min 0.67 m |
| | | | | Area Type: | |
| | | | | Method: | |

† V.P. = Volume Producing

WEIGHTS

| | | |
|-----------------------------------|--|----------|
| | Max. Wt. of Expl. in Overlapped Decks: | 134.9 kg |
| Initiation: Non-Electric | Max. Wt. of Expl. Per 8 ms Interval: | 134.9 kg |
| Firing Device: Shot Shell Igniter | Max. No. of Holes Per 8 ms Interval: | 6 |
| Other Method: | Max. Wt. of Explosive Per Hole: | 27.0 kg |
| Mfg and Model: Ideal | Scaled Distance Factor (max charge): | 52.64 |
| Initiation Settings: | Scaled Distance Factor (per delay): | 23.54 |
| Series Resistance (ohms): | | |

SEISMOGRAPH 1 - SEISMOGRAPH 1

| | | | | | |
|-----------------------|-----------------|----------------------|------------------------|---------------|--------------------|
| Data Type: | Seismic Record | Seismograph Type: | Mini White Seismograph | | |
| Date: | 01/17/23 | Trigger Level: | 0.51 mm/s 100.00 dB | Transverse: | 3.048 mm/s 56.8 Hz |
| Time: | 14:17 | Calibration Date: | 12/30/22 | Vertical: | 2.667 mm/s 51.2 Hz |
| Distance From Blast: | 273.41 m | Calibration Signal: | Pass | Longitudinal: | 2.413 mm/s 39.3 Hz |
| Direction From Blast: | NNE | Geophone Min. Freq.: | --- Hz | | |
| Readout: | Printed Copy | Mic. Min. Freq.: | --- Hz | Acoustic: | 116 dB --- Hz |
| Location: | | | | Vector Sum: | --- mm/s |
| Lat./Long.: | 50° 1' 7.580" N | | 97° 16' 29.470" W | | |

Reader and Firm:

Analyst and Firm:

Installer and Firm: