



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 12-2023

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 03/23/2023 13:14

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North East

ENVIRONMENT

Method Used: Lat./Long.

Weather: Clear

Wind From: S

Temperature: -5 °C

Terrain: Flat

Wind Velocity: 23-35 km/h

Blast Lat./Long.: 50° 0' 51.700" N 97° 16' 50.200" W

NEAREST PROTECTED STRUCTURE

Structure Name: Whites

Compass Point: NE

Structure Type: Dwelling

Direction/Bearing: 40 °

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

Distance: 641 m

LAYOUT

Hole Depth:	4.88 m	Material Blasted:	Limestone	Total Meters Drilled:	975.4 m
No. of Holes:	200	Subdrilling:	0.00 m	Burden:	2.44 m
No. of V.P. † Holes:	200	Face Height:	4.88 m	Spacing:	3.05 m
No. of Rows:	14	Drilling Angle:	°	Back Fill Depth:	0.00 m
Diameter:	88.9 mm	Mats Used:	No	Stem Type:	3/4 Clean
				Area Type:	Corner/Open End
				Method:	Weighted Average

† V.P. = Volume Producing

WEIGHTS

	Max. Wt. of Expl. in Overlapped Decks:	102.1 kg
Initiation: Non-Electric	Max. Wt. of Expl. Per 8 ms Interval:	102.1 kg
Firing Device: Shot Shell Igniter	Max. No. of Holes Per 8 ms Interval:	3
Other Method:	Max. Wt. of Explosive Per Hole:	34.0 kg
Mfg and Model: Ideal	Scaled Distance Factor (max charge):	109.85
Initiation Settings:	Scaled Distance Factor (per delay):	63.42
Series Resistance (ohms):		

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 03/23/23	Trigger Level: 0.51 mm/s 100.00 dB	Transverse:	0.127 mm/s 0.0 Hz
Time: 13:14	Calibration Date: 10/23/23	Vertical:	0.127 mm/s 0.0 Hz
Distance From Blast: 640.99 m	Calibration Signal: Pass	Longitudinal:	0.127 mm/s 0.0 Hz
Direction From Blast: NE	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic:	110 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: