



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 21-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 08/03/2021 12:24

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: East wall

ENVIRONMENT

Method Used: Lat./Long.	Weather: Clear	Wind From: SW
Temperature: 27 °C	Terrain: Flat	Wind Velocity: 15-25 km/h
Blast Lat./Long.: 50° 1' 2.380" N 97° 16' 55.280" W		

NEAREST PROTECTED STRUCTURE

Structure Name: Dwelling	Compass Point: E
Structure Type: Dwelling	Direction/Bearing: 93 °
Structure Lat./Long.: 50° 1' 1.210" N 97° 16' 27.880" W	Distance: 547 m

LAYOUT

Hole Depth: 5.09 m	Material Blasted: Limestone	Total Meters Drilled: 1,827.3 m
No. of Holes: 359	Subdrilling: 0.00 m	Burden: 2.44 m
No. of V.P.† Holes: 359	Face Height: 5.09 m	Spacing: 3.05 m
No. of Rows: 67	Drilling Angle: °	Back Fill Depth: 0.00 m
Diameter: 88.9 mm	Mats Used: No	Stem Type: 3/4 clean
		Method: Weighted Average

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric	Max. Wt. of Expl. in Overlapped Decks: 96.7 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval: 96.7 kg
Other Method:	Max. No. of Holes Per 8 ms Interval: 4
Mfg and Model: ideal supply	Max. Wt. of Explosive Per Hole: 24.2 kg
Initiation Settings:	Scaled Distance Factor (max charge): 111.21
Series Resistance (ohms):	Scaled Distance Factor (per delay): 55.61

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: White Mini sies		
Date: 08/03/21	Trigger Level: --- mm/s 110.00 dB	Transverse: 4.191 mm/s	32.0 Hz
Time: 12:24	Calibration Date: 12/15/20	Vertical: 2.159 mm/s	42.6 Hz
Distance From Blast: 546.81 m	Calibration Signal:	Longitudinal: 5.588 mm/s	28.4 Hz
Direction From Blast: E	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic: 112 dB	--- Hz
Location:		Vector Sum: --- mm/s	
Lat./Long.: 50° 1' 1.210" N	97° 16' 27.880" W		

Reader and Firm:

Analyst and Firm:

Installer and Firm: