



**AUSTIN POWDER LTD.  
BLAST REPORT**



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

Blast No.: 12-2021	Blast Type: Stone Quarry/Stone Mine - Production	Permittee: Hugh Munro
Date/Time: 03/29/2021 12:26	Pit/Permit: LILYFIELD QUARRY / 1000-006	Customer: Hugh Munro Construction Ltd (MUN1000-006)
		Location: North

**ENVIRONMENT**

Method Used: Lat./Long.	Weather: Overcast / Low Clouds	Wind From: S
Temperature: 10 °C	Terrain: Flat	Wind Velocity: 25-43 km/h
Blast Lat./Long.: 50° 0' 58.690" N 97° 16' 55.670" W		

**NEAREST PROTECTED STRUCTURE**

Structure Name: Trailer	Compass Point: ENE
Structure Type: Dwelling	Direction/Bearing: 81 °
Structure Lat./Long.: 50° 1' 1.480" N 97° 16' 28.260" W	Distance: 553 m

**LAYOUT**

Hole Depth: 4.70 m	Material Blasted: Limestone	Total Meters Drilled: 1,183.5 m
No. of Holes: 252	Subdrilling: 0.00 m	Burden: 2.44 m
No. of V.P.† Holes: 252	Face Height: 4.70 m	Spacing: 3.05 m
No. of Rows: 20	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: 191.9 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval: 191.9 kg
Other Method:	Max. No. of Holes Per 8 ms Interval: 6
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole: 32.0 kg
Initiation Settings:	Scaled Distance Factor (max charge): 97.72
Series Resistance (ohms):	Scaled Distance Factor (per delay): 39.89

**SEISMOGRAPH 1 - SEISMOGRAPH 1**

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph	
Date: 03/29/21	Trigger Level: 1.02 mm/s 110.00 dB	Transverse: 4.572 mm/s 42.6 Hz
Time: 12:26	Calibration Date: 11/03/21	Vertical: 1.397 mm/s 36.5 Hz
Distance From Blast: 552.60 m	Calibration Signal: Pass	Longitudinal: 2.286 mm/s 51.2 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz	
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic: 116 dB --- Hz
Location:	97° 16' 28.260" W	Vector Sum: --- mm/s
Lat./Long.: 50° 1' 1.480" N		
Reader and Firm:		
Analyst and Firm:		
Installer and Firm:		