



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 11-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 03/15/2021 14:01

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: west wall

ENVIRONMENT

Method Used: Lat./Long.	Weather: Clear	Wind From: S
Temperature: 6 °C	Terrain: Flat	Wind Velocity: 20-30 km/h
Blast Lat./Long.: 50° 0' 54.660" N 97° 17' 4.550" W		

NEAREST PROTECTED STRUCTURE

Structure Name: Trailer	Compass Point: ENE
Structure Type: Dwelling	Direction/Bearing: 73 °
Structure Lat./Long.: 50° 1' 1.480" N 97° 16' 28.260" W	Distance: 753 m

LAYOUT

Hole Depth: 4.97 m	Material Blasted: Limestone	Total Meters Drilled: 1,246.3 m
No. of Holes: 251	Subdrilling: 0.00 m	Burden: 2.44 m
No. of V.P.† Holes: 251	Face Height: 4.97 m	Spacing: 3.05 m
No. of Rows: 9	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: 244.5 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval: 244.5 kg
Other Method:	Max. No. of Holes Per 8 ms Interval: 7
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole: 36.1 kg
Initiation Settings:	Scaled Distance Factor (max charge): 125.26
Series Resistance (ohms):	Scaled Distance Factor (per delay): 48.13

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph	
Date: 03/15/21	Trigger Level: 1.02 mm/s 110.00 dB	Transverse: 1.651 mm/s 18.2 Hz
Time: 14:01	Calibration Date: 11/03/21	Vertical: 0.635 mm/s 26.9 Hz
Distance From Blast: 752.55 m	Calibration Signal: Pass	Longitudinal: 1.143 mm/s 30.1 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz	
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic: 116 dB --- Hz
Location:		Vector Sum: --- mm/s
Lat./Long.: 50° 1' 1.480" N	97° 16' 28.260" W	

Reader and Firm:

Analyst and Firm:

Installer and Firm: