



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 28-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 11/16/2021 13:33

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North wall

ENVIRONMENT

Method Used: Lat./Long.

Weather: Overcast / Low Clouds

Wind From: SE

Temperature: 3 °C

Terrain: Flat

Wind Velocity: 40-60 km/h

Blast Lat./Long.: 50° 1' 2.530" N 97° 16' 55.020" W

NEAREST PROTECTED STRUCTURE

Compass Point: E

Structure Name: Dwelling

Direction/Bearing: 94 °

Structure Type: Dwelling

Distance: 542 m

Structure Lat./Long.: 50° 1' 1.210" N 97° 16' 27.880" W

LAYOUT

Hole Depth:	4.54 m	Material Blasted:	Limestone	Total Meters Drilled:	1,566.7 m
No. of Holes:	345	Subdrilling:	0.00 m	Burden:	2.74 m
No. of V.P.† Holes:	345	Face Height:	4.54 m	Spacing:	3.35 m
No. of Rows:	15	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:	118.5 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval:	118.5 kg
Other Method:	Max. No. of Holes Per 8 ms Interval:	5
Mfg and Model: ideal supply	Max. Wt. of Explosive Per Hole:	24.6 kg
Initiation Settings:	Scaled Distance Factor (max charge):	109.35
Series Resistance (ohms):	Scaled Distance Factor (per delay):	49.78

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: White Mini sies		
Date: 11/16/21	Trigger Level: --- mm/s 110.00 dB	Transverse:	2.54 mm/s 34.1 Hz
Time: 13:33	Calibration Date: 06/10/21	Vertical:	1.27 mm/s 23.2 Hz
Distance From Blast: 541.93 m	Calibration Signal:	Longitudinal:	2.54 mm/s 36.5 Hz
Direction From Blast: E	Geophone Min. Freq.: --- Hz	Acoustic:	116 dB --- Hz
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Vector Sum:	--- mm/s
Location:			
Lat./Long.: 50° 1' 1.210" N	97° 16' 27.880" W		
Reader and Firm: AUSTIN POWDER			
Analyst and Firm:			
Installer and Firm:			