



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 27-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 10/26/2021 13:01

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North East

ENVIRONMENT

Method Used: Lat./Long.

Weather: Overcast /
Low Clouds

Wind From: S

Temperature: 6 °C

Terrain: Flat

Wind Velocity: 27-39 km/h

Blast Lat./Long.: 50° 0' 56.200" N 97° 16' 49.370" W

NEAREST PROTECTED STRUCTURE

Structure Name: Trailer

Compass Point: ENE

Structure Type: Dwelling

Direction/Bearing: 68 °

Structure Lat./Long.: 50° 1' 1.480" N 97° 16' 28.260" W

Distance: 451 m

LAYOUT

Hole Depth:	5.44 m	Material Blasted:	Limestone	Total Meters Drilled:	1,905.3 m
No. of Holes:	350	Subdrilling:	0.00 m	Burden:	2.74 m
No. of V.P. † Holes:	350	Face Height:	5.44 m	Spacing:	3.35 m
No. of Rows:	17	Drilling Angle:	°	Back Fill Depth:	0.00 m
Diameter:	88.9 mm	Mats Used:	No	Stem Type:	3/4 Down
				Area Type:	Corner/Open End
				Method:	Weighted Average

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric	Max. Wt. of Expl. in Overlapped Decks:	126.4 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval:	126.4 kg
Other Method:	Max. No. of Holes Per 8 ms Interval:	5
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole:	25.8 kg
Initiation Settings:	Scaled Distance Factor (max charge):	88.84
Series Resistance (ohms):	Scaled Distance Factor (per delay):	40.10

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 10/26/21	Trigger Level: 0.51 mm/s 100.00 dB	Transverse:	2.794 mm/s 39.3 Hz
Time: 13:01	Calibration Date: 12/15/21	Vertical:	2.032 mm/s 39.3 Hz
Distance From Blast: 450.80 m	Calibration Signal: Pass	Longitudinal:	4.572 mm/s 42.6 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic:	120 dB --- Hz
Location:	97° 16' 28.260" W	Vector Sum:	--- mm/s
Lat./Long.: 50° 1' 1.480" N			
Reader and Firm: Austin Powder, AUSTIN POWDER			
Analyst and Firm:			
Installer and Firm:			