



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 24-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 09/14/2021 13:25

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: East wall

ENVIRONMENT

Method Used: Lat./Long.

Weather: Clear

Wind From: NW

Temperature: 20 °C

Terrain: Flat

Wind Velocity: 30-50 km/h

Blast Lat./Long.: 50° 1' 1.740" N 97° 16' 50.600" W

NEAREST PROTECTED STRUCTURE

Structure Name: Dwelling

Compass Point: E

Structure Type: Dwelling

Direction/Bearing: 92 °

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

Distance: 453 m

LAYOUT

Hole Depth:	5.00 m	Material Blasted:	Limestone	Total Meters Drilled:	1,924.5 m
No. of Holes:	385	Subdrilling:	0.00 m	Burden:	2.74 m
No. of V.P. † Holes:	385	Face Height:	5.00 m	Spacing:	3.35 m
No. of Rows:	55	Drilling Angle:	°	Back Fill Depth:	0.00 m
Diameter:	88.9 mm	Mats Used:	No	Stem Type:	3/4 down
				Area Type:	Conventional
				Method:	Weighted Average

† V.P. = Volume Producing

WEIGHTS

	Max. Wt. of Expl. in Overlapped Decks:	125.4 kg
Initiation: Non-Electric	Max. Wt. of Expl. Per 8 ms Interval:	125.4 kg
Firing Device: Shot Shell Igniter	Max. No. of Holes Per 8 ms Interval:	5
Other Method:	Max. Wt. of Explosive Per Hole:	25.1 kg
Mfg and Model: ideal supply	Scaled Distance Factor (max charge):	90.37
Initiation Settings:	Scaled Distance Factor (per delay):	40.41
Series Resistance (ohms):		

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: White Mini sies		
Date: 09/14/21	Trigger Level: --- mm/s 110.00 dB	Transverse:	7.493 mm/s 36.5 Hz
Time: 13:25	Calibration Date: 12/15/20	Vertical:	2.667 mm/s 26.9 Hz
Distance From Blast: 452.63 m	Calibration Signal:	Longitudinal:	8.128 mm/s 30.1 Hz
Direction From Blast: E	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic:	114 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: