



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 5-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 01/28/2021 13:01

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North

ENVIRONMENT

Method Used: Lat./Long.

Weather: Clear

Wind From: E

Temperature: -20 °C

Terrain: Flat

Wind Velocity: 5-10 km/h

Blast Lat./Long.: 50° 0' 56.210" N 97° 16' 57.600" W

NEAREST PROTECTED STRUCTURE

Structure Name: Trailer

Compass Point: ENE

Structure Type: Dwelling

Direction/Bearing: 74 °

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

Distance: 606 m

LAYOUT

Hole Depth:	4.99 m	Material Blasted:	Limestone	Total Meters Drilled:	1,137.5 m
No. of Holes:	228	Subdrilling:	0.00 m	Burden:	2.44 m
No. of V.P. † Holes:	228	Face Height:	4.99 m	Spacing:	3.05 m
No. of Rows:	19	Drilling Angle:	°	Back Fill Depth:	0.00 m
Diameter:	88.9 mm	Mats Used:	No	Stem Type:	3/4 Clean
				Area Type:	Corner/Open End
				Method:	Weighted Average

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric	Max. Wt. of Expl. in Overlapped Decks:	98.6 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval:	98.6 kg
Other Method:	Max. No. of Holes Per 8 ms Interval:	3
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole:	32.9 kg
Initiation Settings:	Scaled Distance Factor (max charge):	105.77
Series Resistance (ohms):	Scaled Distance Factor (per delay):	61.06

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 01/28/21	Trigger Level: 1.02 mm/s 110.00 dB	Transverse:	1.397 mm/s 32.0 Hz
Time: 13:01	Calibration Date: 11/03/21	Vertical:	1.016 mm/s 36.5 Hz
Distance From Blast: 606.25 m	Calibration Signal: Pass	Longitudinal:	1.397 mm/s 21.3 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic:	110 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: