



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 15-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 05/11/2021 12:28

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North wall

ENVIRONMENT

Method Used: Lat./Long.	Weather: Clear	Wind From: S
Temperature: 17 °C	Terrain: Flat	Wind Velocity: 10-15 km/h
Blast Lat./Long.: 50° 0' 59.990" N 97° 16' 55.710" W		

NEAREST PROTECTED STRUCTURE

Structure Name: Dwelling	Compass Point: E
Structure Type: Dwelling	Direction/Bearing: 86 °
Structure Lat./Long.: 50° 1' 1.210" N 97° 16' 27.880" W	Distance: 555 m

LAYOUT

Hole Depth: 4.69 m	Material Blasted: Limestone	Total Meters Drilled: 1,318.9 m
No. of Holes: 281	Subdrilling: 0.00 m	Burden: 2.44 m
No. of V.P.† Holes: 280	Face Height: 4.69 m	Spacing: 3.05 m
No. of Rows: 8	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: 195.2 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval: 195.2 kg
Other Method:	Max. No. of Holes Per 8 ms Interval: 6
Mfg and Model: ideal supply	Max. Wt. of Explosive Per Hole: 33.3 kg
Initiation Settings:	Scaled Distance Factor (max charge): 96.27
Series Resistance (ohms):	Scaled Distance Factor (per delay): 39.75

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: White Mini sies	
Date: 05/11/21	Trigger Level: --- mm/s 110.00 dB	Transverse: 1.778 mm/s 32.0 Hz
Time: 12:28	Calibration Date: 12/15/20	Vertical: 1.27 mm/s 36.5 Hz
Distance From Blast: 555.35 m	Calibration Signal:	Longitudinal: 3.429 mm/s 36.5 Hz
Direction From Blast: E	Geophone Min. Freq.: --- Hz	
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic: 116 dB --- Hz
Location:		Vector Sum: --- mm/s
Lat./Long.: 50° 1' 1.210" N	97° 16' 27.880" W	

Reader and Firm:

Analyst and Firm:

Installer and Firm: