AUSTIN POWDER LTD.
BLAST REPORT

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

Permittee: Hugh Munro

Blast No.: 5-2020 | Blast Type: Stone Quarry/Stone Mine - Production | Customer: Hugh Munro Construction Ltd (MUN1000-006)

Date/Time: 12/04/2020 12:56 | Pit/Permit: LILYFIELD QUARRY / 1000-006 | Location: west wall

ENVIRONMENT

Method Used: Lat./Long. | Weather: Clear | Wind From: E

Temperature: 0 °C | Terrain: Flat | Wind Velocity: 5-10 km/h

Blast Lat./Long.: 50° 0' 55.460" N 97° 16' 59.900" W

NEAREST PROTECTED STRUCTURE

Compass Point: ENE

Structure Name: Dwelling | Direction/Bearing: 74 °

Structure Type: Dwelling | Distance: 662 m

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

LAYOUT

		Hole Depth:	4.33 m	Material Blasted:	Limestone	Total Meters Drilled:	830.9 m
No. of Holes:	192	Subdrilling:	0.00 m	Burden:	2.44 m	Water Depth:	1.22 m
No. of V.P.† Holes:	192	Face Height:	4.33 m	Spacing:	3.05 m	Stem Length:	1.22 m
No. of Rows:	16	Drilling Angle:	°	Back Fill Depth:	0.00 m	Area Type:	Center Start/ Breakout
Diameter:	88.9 mm	Mats Used:	No	Stem Type:	3/4 clean	Method:	Weighted Average

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric

Firing Device: Shot Shell Igniter

Other Method:

Mfg and Model: IDEAL supply

Initiation Settings:

Series Resistance (ohms):

Max. Wt. of Expl. in Overlapped Decks:	133.0 kg
Max. Wt. of Expl. Per 8 ms Interval:	133.0 kg
Max. No. of Holes Per 8 ms Interval:	4
Max. Wt. of Explosive Per Hole:	33.3 kg
Scaled Distance Factor (max charge):	114.74
Scaled Distance Factor (per delay):	57.37

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record | Seismograph Type: White Mini sies

Date: 12/04/20 | Trigger Level: --- mm/s --- dB | Calibration Date: 01/10/20

Time: 12:56 | Calibration Signal:

Distance From Blast: 661.72 m | Geophone Min. Freq.: --- Hz

Direction From Blast: ENE | Mic. Min. Freq.: --- Hz

Readout: Printed Copy

Location:

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

Transverse:	0.635 mm/s	39.3 Hz
Vertical:	0.381 mm/s	36.5 Hz
Longitudinal:	1.27 mm/s	18.2 Hz
Acoustic:	110 dB	--- Hz
Vector Sum:	--- mm/s	

Reader and Firm:

Analyst and Firm:

Installer and Firm: