



AUSTIN POWDER LTD.
BLAST REPORT



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

Blast No.: 7-2020

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 12/11/2020 13:00

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: South

ENVIRONMENT

Method Used: Lat./Long.

Weather: Overcast /
Low Clouds

Wind From: W

Temperature: -5 °C

Terrain: Flat

Wind Velocity: 5-10 km/h

Blast Lat./Long.: 50° 0' 53.160" N 97° 16' 58.800" W

NEAREST PROTECTED STRUCTURE

Compass Point: ENE

Structure Name: Trailer

Direction/Bearing: 67 °

Structure Type: Dwelling

Distance: 660 m

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

LAYOUT

Hole Depth:	4.75 m	Material Blasted:	Limestone	Total Meters Drilled:	1,044.9 m		
No. of Holes:	220	Subdrilling:	0.00 m	Burden:	2.44 m	Water Depth:	1.22 m
No. of V.P.† Holes:	220	Face Height:	4.75 m	Spacing:	3.05 m	Stem Length:	1.22 m
No. of Rows:	11	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

	Max. Wt. of Expl. in Overlapped Decks:	126.5 kg
Initiation: Non-Electric	Max. Wt. of Expl. Per 8 ms Interval:	126.5 kg
Firing Device: Shot Shell Igniter	Max. No. of Holes Per 8 ms Interval:	4
Other Method:	Max. Wt. of Explosive Per Hole:	31.6 kg
Mfg and Model: Ideal	Scaled Distance Factor (max charge):	117.41
Initiation Settings:	Scaled Distance Factor (per delay):	58.71
Series Resistance (ohms):		

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 12/11/20	Trigger Level: 1.02 mm/s 110.00 dB	Transverse:	0.889 mm/s 42.6 Hz
Time: 13:00	Calibration Date: 11/03/21	Vertical:	0.889 mm/s 42.6 Hz
Distance From Blast: 660.20 m	Calibration Signal: Pass	Longitudinal:	1.27 mm/s 26.9 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic:	106 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: