



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 7-2021

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 02/16/2021 14:32

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North

ENVIRONMENT

Method Used: Lat./Long.

Weather: Clear

Wind From: S

Temperature: -25 °C

Terrain: Flat

Wind Velocity: 11-16 km/h

Blast Lat./Long.: 50° 0' 57.460" N 97° 16' 55.870" W

NEAREST PROTECTED STRUCTURE

Structure Name: Trailer

Compass Point: ENE

Structure Type: Dwelling

Direction/Bearing: 77 °

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

Distance: 564 m

LAYOUT

Hole Depth:	4.83 m	Material Blasted:	Limestone	Total Meters Drilled:	1,120.7 m
No. of Holes:	232	Subdrilling:	0.00 m	Burden:	2.44 m
No. of V.P.† Holes:	232	Face Height:	4.83 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
				Water Depth:	0.91 m
				Stem Length:	1.22 m
				Area Type:	Center Start/ Breakout

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric	Max. Wt. of Expl. in Overlapped Decks:	170.6 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval:	170.6 kg
Other Method:	Max. No. of Holes Per 8 ms Interval:	5
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole:	34.1 kg
Initiation Settings:	Scaled Distance Factor (max charge):	96.49
Series Resistance (ohms):	Scaled Distance Factor (per delay):	43.15

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 02/16/21	Trigger Level: 1.02 mm/s 106.00 dB	Transverse:	1.27 mm/s 0.0 Hz
Time: 14:32	Calibration Date: 10/14/21	Vertical:	1.27 mm/s 0.0 Hz
Distance From Blast: 563.58 m	Calibration Signal: Pass	Longitudinal:	1.27 mm/s 0.0 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz	Acoustic:	116 dB --- Hz
Readout: Display Only	Mic. Min. Freq.: --- Hz	Vector Sum:	--- mm/s
Location:			
Lat./Long.: 50° 1' 1.480" N	97° 16' 28.260" W		
Reader and Firm:			
Analyst and Firm:			
Installer and Firm:			