



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Blast No.: 8-2023

Blast Type: Stone Quarry/Stone Mine - Production

Permittee: Hugh Munro

Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Date/Time: 02/28/2023 13:05

Pit/Permit: LILYFIELD QUARRY / 1000-006

Location: North East

ENVIRONMENT

Method Used: Lat./Long.

Weather: Cloudy / High Clouds

Wind From: W

Temperature: -8 °C

Terrain: Flat

Wind Velocity: 22-33 km/h

Blast Lat./Long.: 50° 0' 51.520" N 97° 16' 48.510" W

NEAREST PROTECTED STRUCTURE

Structure Name: Whites

Compass Point: NNE

Structure Type: Dwelling

Direction/Bearing: 37 °

Structure Lat./Long.: 50° 1' 7.580" N 97° 16' 29.470" W

Distance: 625 m

LAYOUT

Hole Depth:	4.57 m	Material Blasted:	Limestone	Total Meters Drilled:	1,188.7 m
No. of Holes:	260	Subdrilling:	0.00 m	Burden:	2.44 m
No. of V.P.† Holes:	260	Face Height:	4.57 m	Spacing:	3.05 m
No. of Rows:	13	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:	1.83 m
				Stem Length:	1.52 m
				Area Type:	Center Start/ Breakout

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric	Max. Wt. of Expl. in Overlapped Decks:	120.1 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval:	120.1 kg
Other Method:	Max. No. of Holes Per 8 ms Interval:	4
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole:	30.0 kg
Initiation Settings:	Scaled Distance Factor (max charge):	113.98
Series Resistance (ohms):	Scaled Distance Factor (per delay):	56.99

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 02/28/23	Trigger Level: 0.51 mm/s 100.00 dB	Transverse:	0.762 mm/s 18.9 Hz
Time: 13:05	Calibration Date: 10/23/23	Vertical:	0.762 mm/s 26.9 Hz
Distance From Blast: 624.54 m	Calibration Signal: Pass	Longitudinal:	0.635 mm/s 18.9 Hz
Direction From Blast: NNE	Geophone Min. Freq.: --- Hz	Acoustic:	114 dB --- Hz
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Vector Sum:	--- mm/s
Location:			
Lat./Long.: 50° 1' 7.580" N	97° 16' 29.470" W		

Reader and Firm:

Analyst and Firm:

Installer and Firm: