



**AUSTIN POWDER LTD.
BLAST REPORT**



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

Permittee: Hugh Munro
Customer: Hugh Munro Construction Ltd
(MUN1000-006)

Blast No.: 13-2021 Blast Type: Stone Quarry/Stone Mine - Production

Date/Time: 04/15/2021 13:27 Pit/Permit: LILYFIELD QUARRY / 1000-006 Location: North East

ENVIRONMENT

Method Used: Lat./Long.	Weather: Cloudy / High Clouds	Wind From: SE
Temperature: 5 °C	Terrain: Flat	Wind Velocity: 8-10 km/h
Blast Lat./Long.: 50° 0' 58.980" N 97° 16' 55.480" W		

NEAREST PROTECTED STRUCTURE

Structure Name: Trailer	Compass Point: ENE
Structure Type: Dwelling	Direction/Bearing: 81 °
Structure Lat./Long.: 50° 1' 1.480" N 97° 16' 28.260" W	Distance: 547 m

LAYOUT

Hole Depth: 4.78 m	Material Blasted: Limestone	Total Meters Drilled: 1,385.9 m
No. of Holes: 290	Subdrilling: 0.00 m	Burden: 2.44 m
No. of V.P. † Holes: 290	Face Height: 4.78 m	Spacing: 3.05 m
No. of Rows: 27	Drilling Angle: °	Back Fill Depth: 0.00 m
Diameter: 88.9 mm	Mats Used: No	Stem Type: 3/4 Clean
		Area Type: Corner/Open End
		Method: Weighted Average

† V.P. = Volume Producing

WEIGHTS

Initiation: Non-Electric	Max. Wt. of Expl. in Overlapped Decks: 97.3 kg
Firing Device: Shot Shell Igniter	Max. Wt. of Expl. Per 8 ms Interval: 97.3 kg
Other Method:	Max. No. of Holes Per 8 ms Interval: 3
Mfg and Model: Ideal	Max. Wt. of Explosive Per Hole: 32.4 kg
Initiation Settings:	Scaled Distance Factor (max charge): 96.11
Series Resistance (ohms):	Scaled Distance Factor (per delay): 55.49

SEISMOGRAPH 1 - SEISMOGRAPH 1

Data Type: Seismic Record	Seismograph Type: Mini White Seismograph		
Date: 04/15/21	Trigger Level: 1.02 mm/s 110.00 dB	Transverse: 2.413 mm/s	42.6 Hz
Time: 13:27	Calibration Date: 11/03/21	Vertical: 0.889 mm/s	46.5 Hz
Distance From Blast: 547.42 m	Calibration Signal: Pass	Longitudinal: 2.159 mm/s	18.9 Hz
Direction From Blast: ENE	Geophone Min. Freq.: --- Hz		
Readout: Printed Copy	Mic. Min. Freq.: --- Hz	Acoustic: 110 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:			