



**MacDonald Mines
Exploration Ltd.**

MacDonald Mines Reports Multiple Discovery Zones of Gold Mineralization North of the Scadding Mine: Intersects 9.4 g/t gold over 4.9m, including 35.7 g/t gold over 0.5m, and 24.1 g/t gold over 0.4m

Toronto, Ontario - January 23, 2020 - MacDonald Mines Exploration Ltd. (TSX-V: BMK) ("MacDonald Mines", "MacDonald" or the "Company") announces the complete results from hole SM-19-012 (see partial results in *Jan. 20, 2019 news release*) drilled last fall at its SPJ Property, 40 kilometres east of Sudbury, Ontario. Hole SM-19-012 intersected four zones of gold mineralization north of the Scadding Mine and the top of the Bristol breccia at depth. The latest results include 9.4 g/t gold over 4.9 metres, including 35.7 g/t gold over 0.5 metres and 24.1 g/t gold 0.4 metres with the complete intersection of SM-19-012 grading 1.63 g/t gold over 65.6 metres. Hole SM-19-012 indicates a much larger corridor of gold mineralization north of the Scadding Mine than what was suggested by historic drilling results.

Highlights:

Hole SM-19-012 intersected four zones of gold mineralization north of the Scadding Mine:

- 9.4 g/t gold over 4.9 metres, including 35.7 g/t gold over 0.5 metre and 24.1 g/t gold over 0.4 metre in the Mosport Structure;
 - 1.7 g/t gold over 2.9 metres in a new structure;
 - 4.1 g/t gold over 3.8 metres in a new structure;
 - And

previously reported 4.0 g/t gold over 9.4 metres, including 9.1 g/t gold and 0.02% cobalt over 0.9 metres in the Talladega Structure.

Quentin

Yarie, MacDonald's President and CEO commented: *"We are positively surprised by the results of hole 12, north of the Scadding Mine. Historic drilling results in the area did not indicate the presence of the multiple, stacked zones of gold mineralization we've encountered, nor hint at their size. We have now identified a high-quality and large exploration target north of the Scadding underground mine with potential for multiple zones of high-grade mineralization that are open laterally to the north and at depth. Our 2019 drilling results continue to prove our new structural and geological model as we keep discovering significant zones of gold mineralization in areas untested, or not adequately tested, by historic drilling."*

Table 1. Assay highlights from hole SM-19-012:

Hole	From (m)	To (m)	Length (m)*	Gold (g/t)	Cobalt (%)	Visible Gold	Structure	
SM-19-012	49.7	115.3	65.6	1.6				
	including							
	49.7	54.6	4.9	9.4			Mosport	
	including							
	51.5	52	0.5	35.7		VG		
	54.2	54.6	0.4	24.1		VG		
	71.8	74.7	2.9	1.7			Discovery	
	89.6	93.4	3.8	4.1				
	including							Discovery
	90.7	92	1.3	5.1				
105.9	115.3	9.4	4					
including							Talladega	
109.9	110.8	0.9	9.1	0.02				