



Glossary of terms

BEE	Black economic empowerment
Bord and pillar	Underground mining method where ore is extracted from rectangular shaped rooms, leaving parts of the ore as pillars to support the roof. Pillars are usually rectangular and arranged in a regular pattern.
Concentrating	A process of splitting the ground ore in two fractions, one containing the valuable minerals, the other waste.
Cost per tonne/ refined platinum ounce/refined PGM ounce	The cash cost of mining, concentrating, smelting, refining, marketing and corporate office expressed per unit of measure.
Decline	A shallow dipping mining excavation used to access the orebody.
Dense media separation	A means of separating reef from waste, exploiting differences in density.
Development	Underground excavation for the purpose of accessing mineral reserves.
DME	Department of Minerals and Energy.
FIFR	Fatal injury frequency rate which is the number of fatal injuries expressed as a rate per million manhours worked.
g/t	Grams per tonne. The unit of measurement of grade, equivalent to parts per million.
Group unit cost per refined ounce/ refined PGM ounce	The cash cost of mining, concentrating and other operating expenses (marketing, corporate office) expressed per unit of mine-to-market measure, as well as the cost of smelting and refining expressed per gross unit of measure.
HDSA	Historically disadvantaged South Africans, being South African nationals who were, prior to 1994, disadvantaged whether by legislation or convention.
Headgrade	The value, usually expressed in parts per million or grams per tonne, of the contained mineralisation of economic interest in material delivered to the mill.
In situ	In its natural position or place.
IRS	Impala Refining Services Limited.
Kriging	A geostatistical estimation method that gives the best unbiased linear estimates of point values or of block averages.
LTIFR	Lost-time injury frequency rate which is the number of lost-time injuries expressed as a rate per million manhours worked.

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Merensky Reef	A horizon in the Critical Zone of the Bushveld Complex often containing economic grades of PGM. The term Merensky Reef as it is generally used refers to that part of the Merensky unit that is economically exploitable, regardless of the rock type.
MF2	Two-stage milling and flotation (mill-float, mill-float).
Milling	Grinding of ore into the fine particles to expose the valuable minerals.
NOx	Nitrous oxides contained in exhaust emissions.
PGE	Platinum group elements comprising six elemental metals of the platinum group. The metals are platinum, palladium, rhodium, ruthenium, iridium and osmium.
PGM	Platinum group metals as referred to in this report includes the suite of five platinum group metals (platinum, palladium, rhodium, ruthenium and iridium) and gold, which are otherwise referred to as 5PGM+Au.
RBH	Royal Bafokeng Holdings (Pty) Limited.
RBN	Royal Bafokeng Nation.
Remnant areas	Remnant, or white areas, are previously abandoned sections at Impala which are currently being mined.
Seismic surveys	A geophysical exploration method whereby rock layers can be mapped based on the time taken for energy reflected from these layers to return to surface.
Smelting	A smelting process to upgrade further the fraction containing the valuable minerals.
Stoping	Underground excavations to effect the removal of ore.
UG2	A distinct chromitite horizon in the Critical Zone of the Bushveld Complex often containing economic grades of PGM.