

AN OVERVIEW OF RESOURCE DRILLING AND MINE DEVELOPMENT AT MOGALAKWENA 2008-2018

24 October 2025

Africa Exploration Showcase)

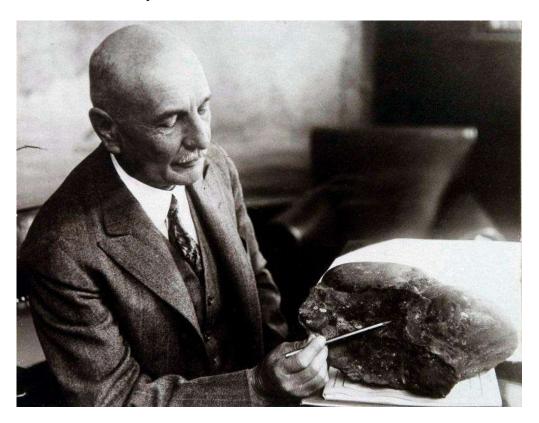
(First presented 16 November 2018 - GSSA



IN RECOGNITION

The founders of Northern Limb geology

Hans Merensky



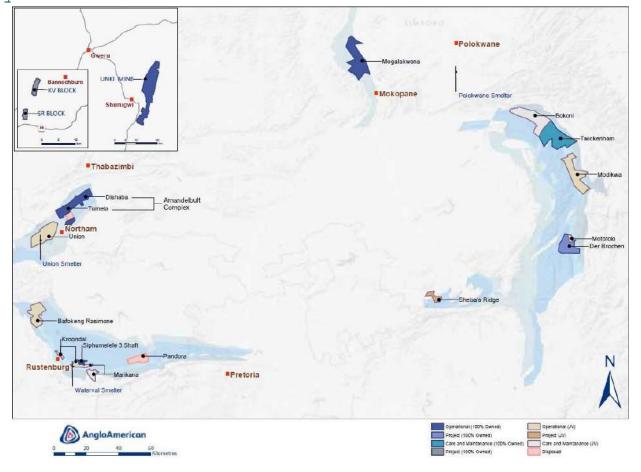
Mauritz van der Merwe



Merensky Archive: Westfalia

REGIONAL OVERVIEW

Location of Valterra Operations and JV's on the Bushveld Igneous Complex and Great Dyke

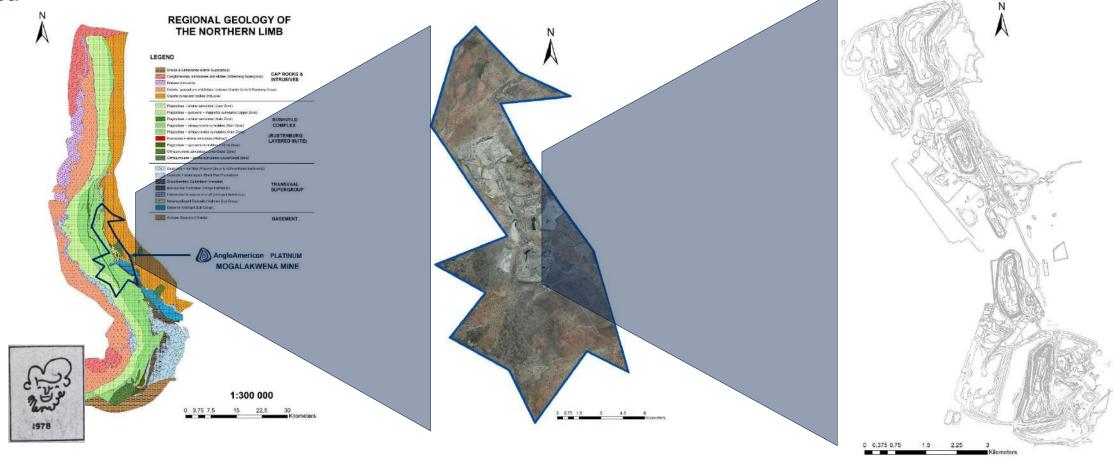


Anglo American Platinum- Ore Reserves and Mineral Resources Report 2017

LOCAL OVERVIEW

Location of Mogalakwena on the Northern Limb and detail of the mining





Van Der Merwe, 1978

THE PLATREEF- WHAT IS IT?

A thick compound package of Critical Zone lithologies- dominantly pyroxenitic



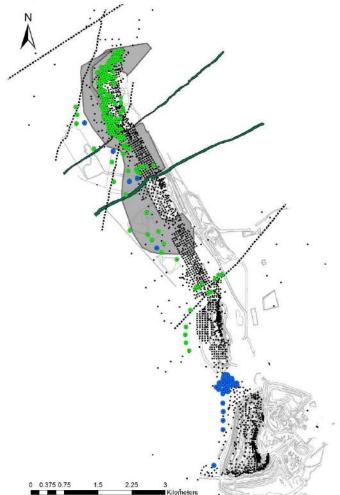
RESOURCE DATA PROCESS FLOW

Comprehensive due diligence and delivery



Reserve Delineation for the 'PPRN' expansion, plus bridging the

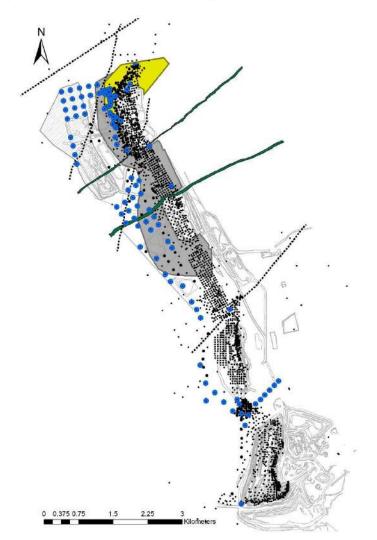
Sandloot 'Gap'



- High intensity coverage to support the development of North Pit
- Drilling in the Sandsloot Gap reveals the



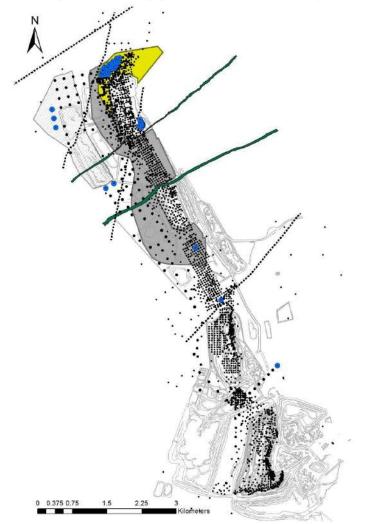
Down-dip upgrade and development of the Lower Platreef occurrence



- Extensive down-dip drilling on the 200m grid to get ahead of dumping
- Dip section on the Lower Platreef

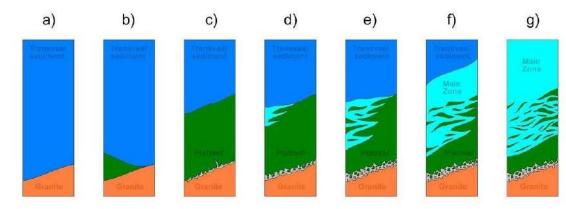


Short-term mine plan support drilling: upgrade for North Pit Cut 6



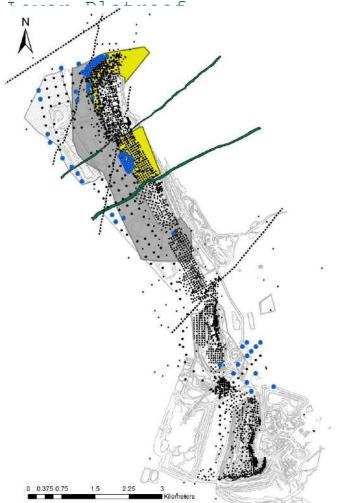
- 'Disrupted' Platreef makes its appearance
- Hunting massive sulphide veins in the pit

Proposed stages in the development of the disturbed reef facies



All categories of drilling: short-term mine plan support, Inferred

conversion, & T

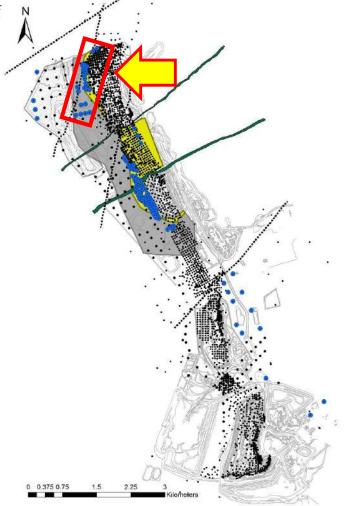


- Continued 'Deeps' sterilization drilling
- NMF starts to shape-up definitively
- More localized dip sections of the Lower Platreef



Large-scale short-term mine plan support drilling around Central Pit,

structural def N



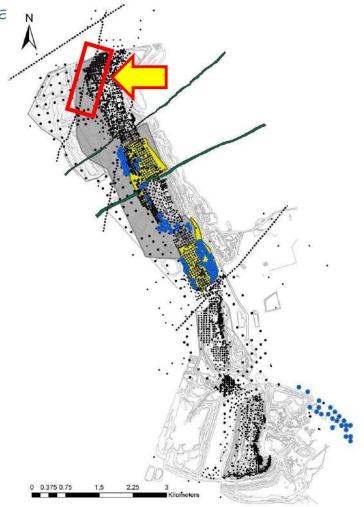


eef

High-confidence delineation of the NMF

Short-term mine plan support drilling focuses on South Pit (old Cut

9), continues ϵ



MINERAL RESOURCES

The Mineral Resource model used to report the 2012 Platreef Resources for Mogalakwena North was updated in 2013. Through extensive exploration drilling as well as geophysical studies the apparent flattening of the orebody was proved to be the result of a steeply dipping strike fault displacing the orebody upwards to within an opencastable depth. This, together with the large-scale upgrade of Inferred Resources to an Indicated classification through exploration drilling, has resulted in an increase of 627 million tonnes (52.5 4E Moz) in the reserves for Mogalakwena.

Quartus Snyman (MBL, BSc (Geology) Hons)

Pr Sci Nat (400027/04)

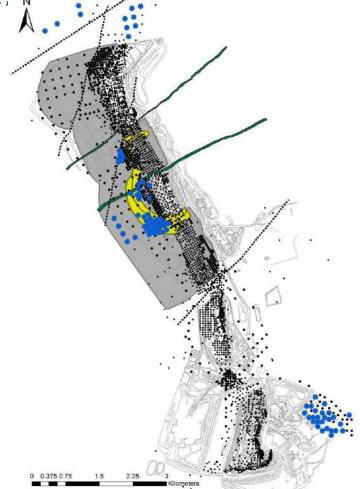
Head: Geosciences and Exploration Anglo American Platinum Limited

Johannesburg 31 January 2014

Anglo American Platinum Annual Report 2012

Short-term mine plan support drilling: upgrade for Central Pit Cut

9.2; Pit Fault, N

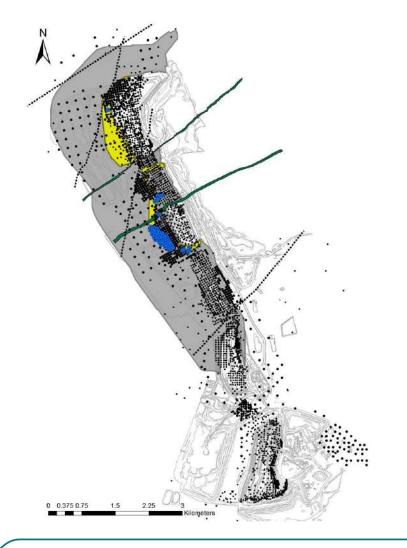


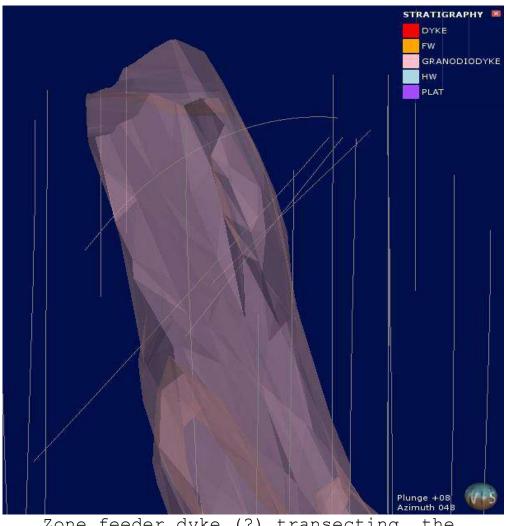


- Short-term mine plan support drilling for Central Pit
- Delineating the Pit Fault
- Continued resource drilling on Lower Platreef
- Some down-dip drilling

Short-term mine plan support drilling: upgrade for Central Pit Cut 8

and 9





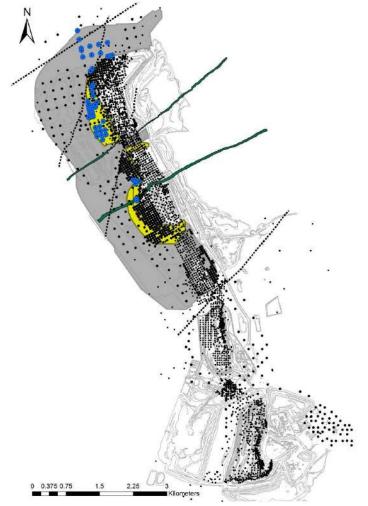
Zone feeder dyke (?) transecting the

Cut 8 area

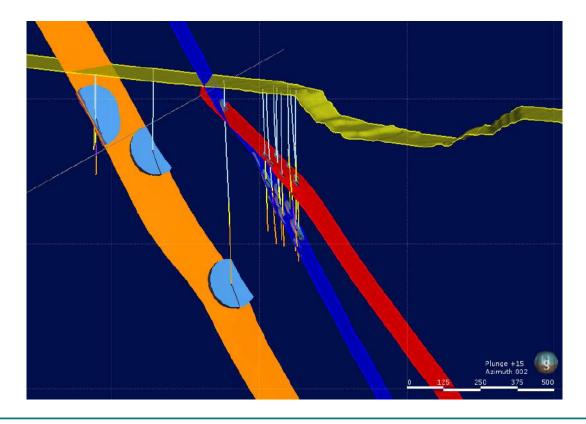
Short-term mine plan support drilling focuses on North Pit, +

structural delineation

n



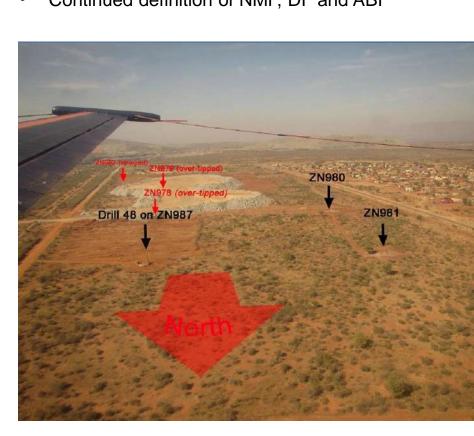
- North Pit Cut 10 upgrade
- Continued structural definition of NMF and DF, + delineation of ABF



Short-term mine plan support drilling focuses on Central Pit, +

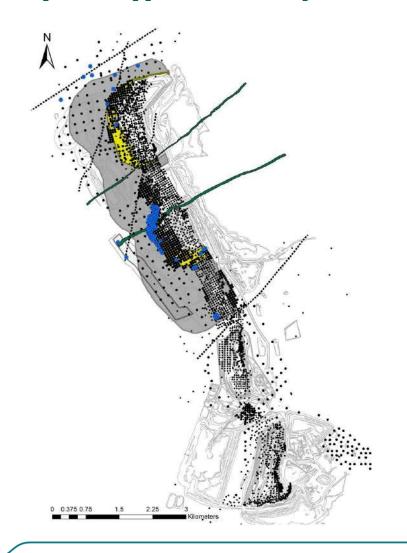
Drilled 8 boreholes and sent 2000 samples, which yielded:

- 811 ounces of 4E Indicated Resource per 1 metre of core drilled
- Central Pit Cut 9 upgrade 1.7 tonnes of Indicated ore from every R1 directly spent on resource geology
- Continued definition of NMF, DF and ABF



structural delinanti

Short-term mine plan support drilling focuses on Central Pit Cut 9

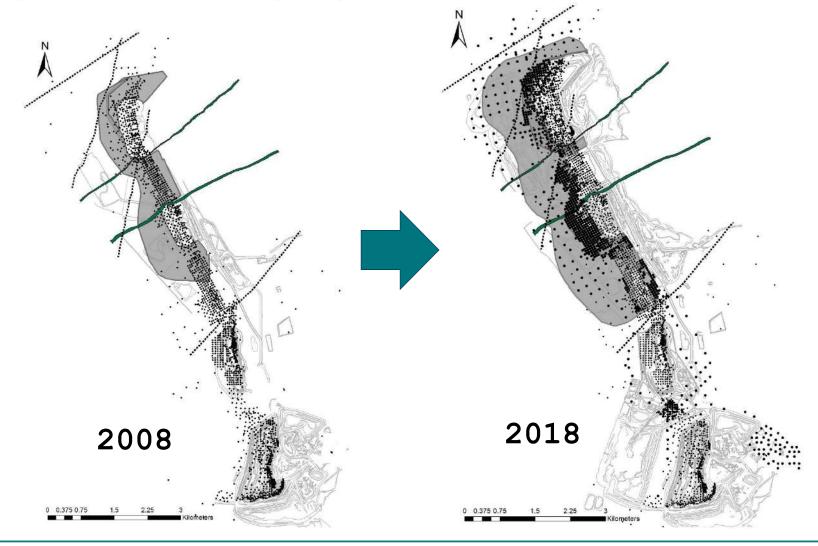






COMPARISON: 2008- 2018

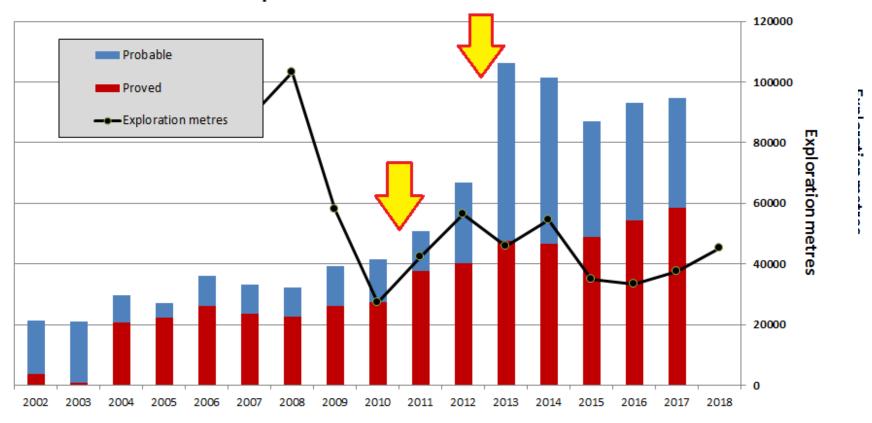
Evolution of the Open Pit over the 10 year period



THE NUMBERS

The impact of Resource Drilling on Resource and Reserve development

Exploration metres vs. Reserves



Anglo American Platinum Annual Reports + Ore Reserves and Mineral Resources Reports 2009- 201/

WHAT DOES THAT LOOK LIKE?

Some spatial time-lapse context of those drilling and mining volumes



SAFETY AND TECHNOLOGY

A journey of sustainable delivery and innovation

ORE RESERVES AND MINERAL RESOURCES REPORT 2017

BUILDING ON FIRM FOUNDATIONS DELIVERING A SUSTAINABLE FUTURE





Real Mining. Real People. Real Difference.

Anglo American Ore Reserves & Mineral Resources Report 2017



Thank you



ACKNOWLEDGEMENT

To the teams doing the hard yards on the ground



REFERENCES

Record of Literature

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