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Sealing and developing
through the 20 line fissure
at Northam Platinum mine

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Investor visit – 20 line fissure
Speaker: Damian Smith
Chief Geologist, Northam Platinum Ltd



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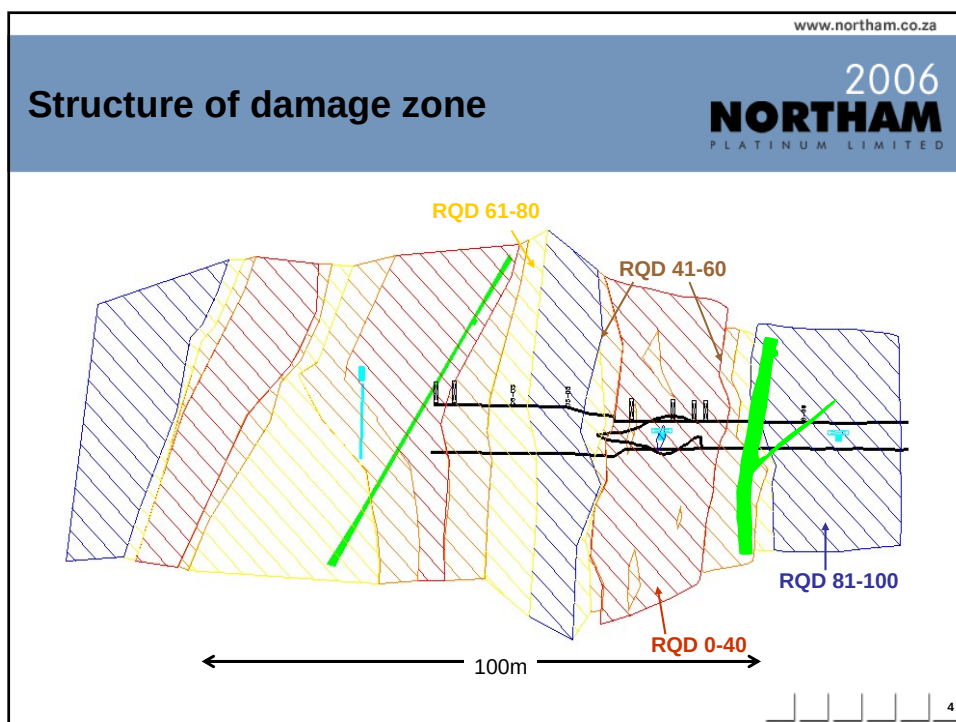
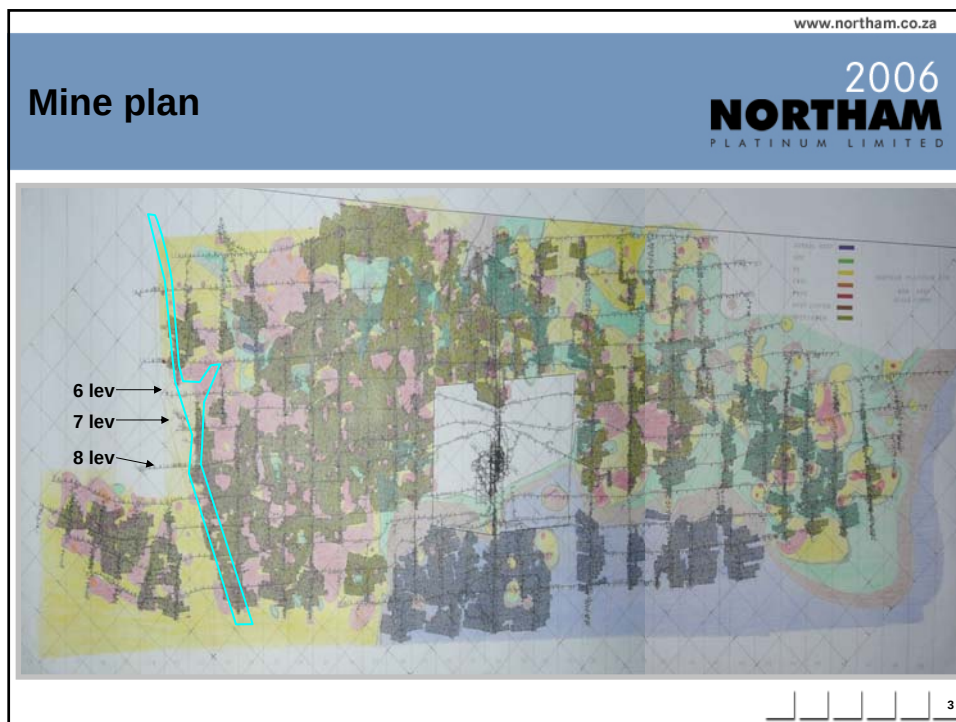
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Introduction

- History
- Structure of damage zone
- Sealing and development strategy
- Outlook



2



Example of ground conditions

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Serpentinised rubble and grit
flushed from 7W



Example of some of the 'better' core
recovered from 7W

5

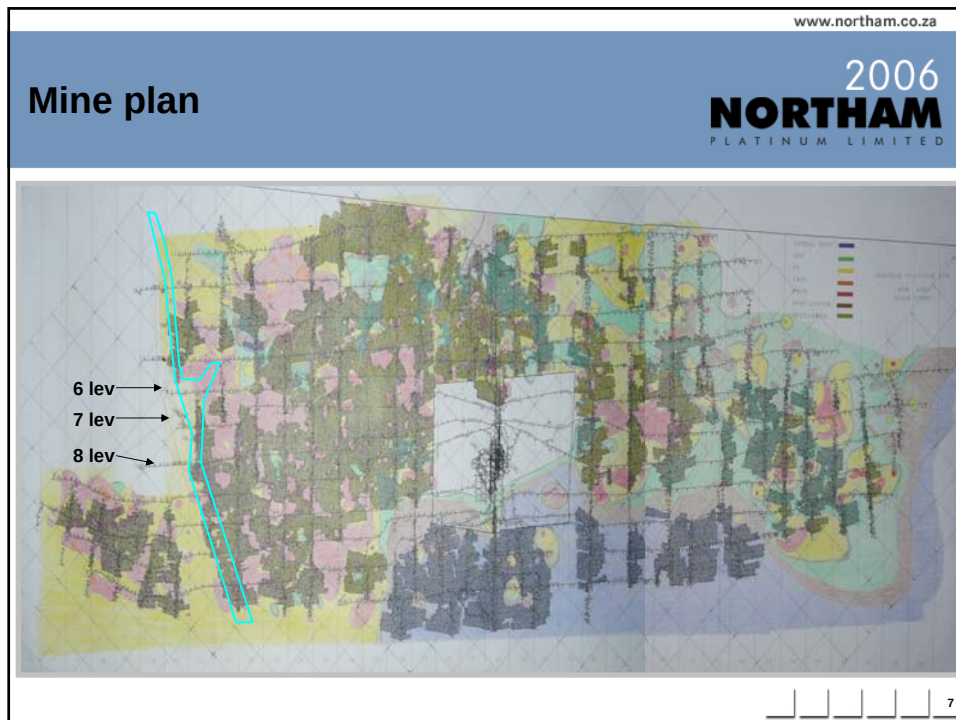
Water intersection

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56 000 l/hr at 18 MPa and 56 °C from BQ borehole
Maximum yield intersected was 370 000 l/hr

6



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Sealing and development strategy

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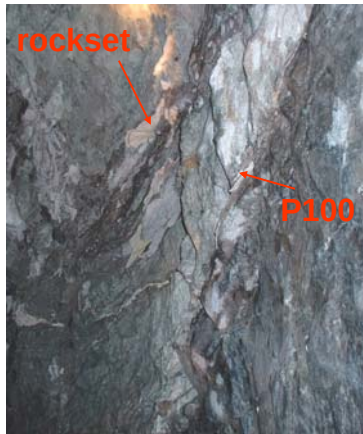
Three components

- Sealing
- Primary support
- Blasting

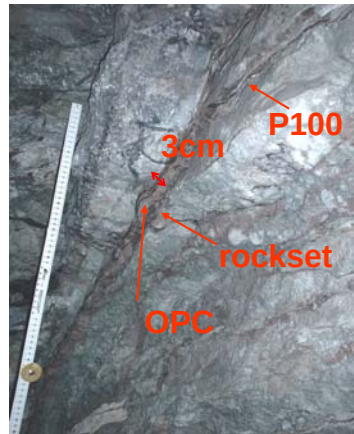
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Sealing

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Rockset and P100 maintaining integrity of fractured HW

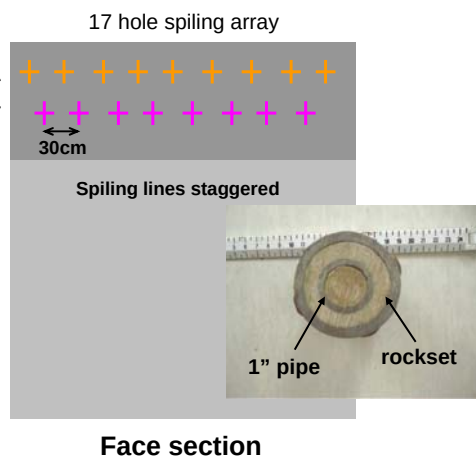
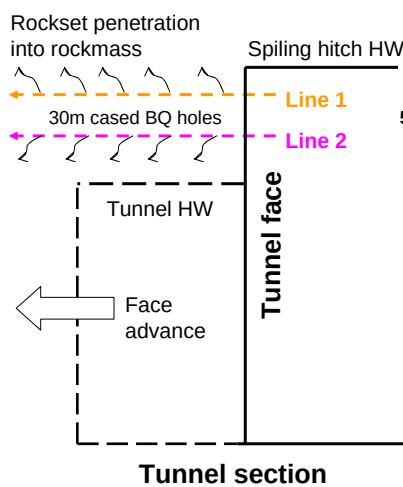


P100 penetrating fine fractures, complementing OPC in water sealing

9

Primary support

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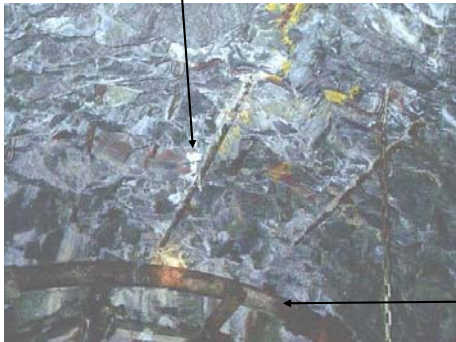


10

Primary support, cont'd

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White material is rockset
which has penetrated
the rockmass



Spiling casing pipes

top of arch set

11

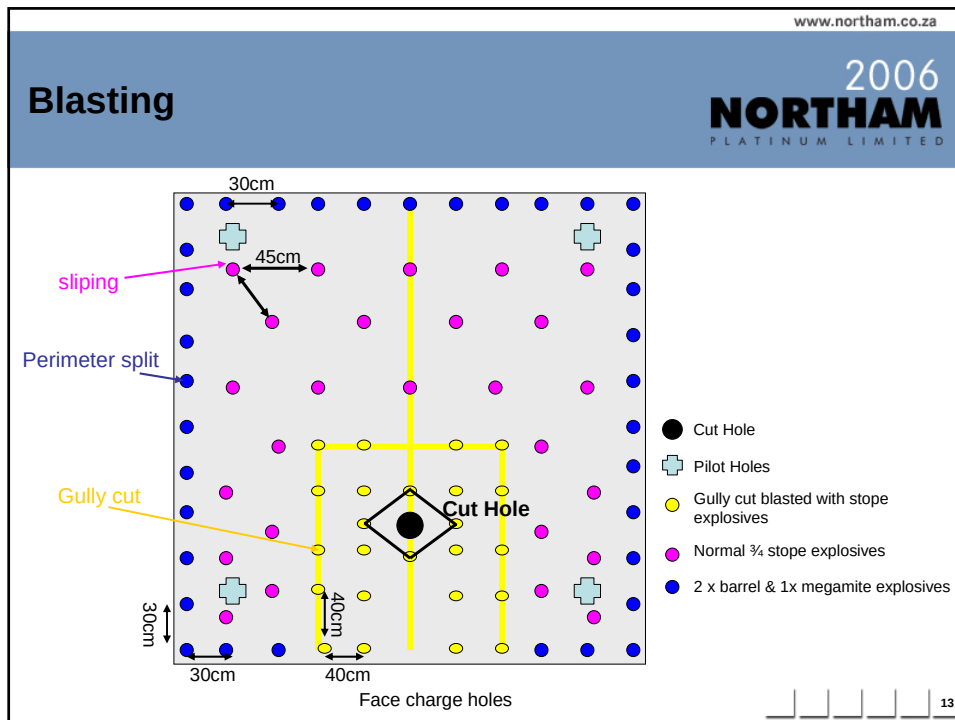
Primary support, cont'd

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Sets scribed with voidcrete installed

12



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Summary

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Significant progress on 20 line fissure over past 3 years

- 8 of 11 levels through fissure
- 2 level intersected fissure
- 6 & 7 levels good progress
- Benefits of opening up resources to the west of 20 line
- Able to rationalize ventilation districts

14



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