



Cullinan – The World's Most Celebrated Diamond Mine

15 October 2013

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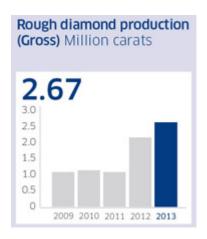
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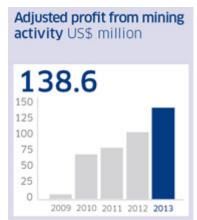
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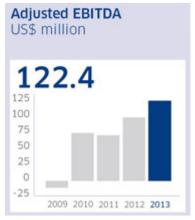
Petra Diamonds

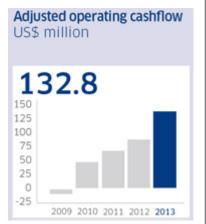


- Mid-tier diamond producer (LSE:PDL; FTSE 250)
- Quality management team delivering strong growth
- **Major resource base** of +300m carats
- Diversified portfolio of producing mines & exploration
- On track for 5 Mctpa* / c.US\$1bn* revenue by FY 2019
- Sustainability at heart of Petra
- Pure play exposure to late cycle diamonds









Building a world-class diamond group

An Exceptional Growth Path



Petra has acquired five non-core diamond mines from De Beers:



Koffiefontein 70% Petra^{1,2}; 30% BEE Sub Level & Block Cave

July 2008



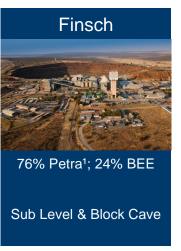
February 2009



May 2010



September 2011



The Petra approach:

- Focus on efficiencies and simplification
- Utilise in-house capabilities and share services across mines
- Focus on 'value' as opposed to 'volume' production
- Maximise rough diamond prices through competitive tender sales system

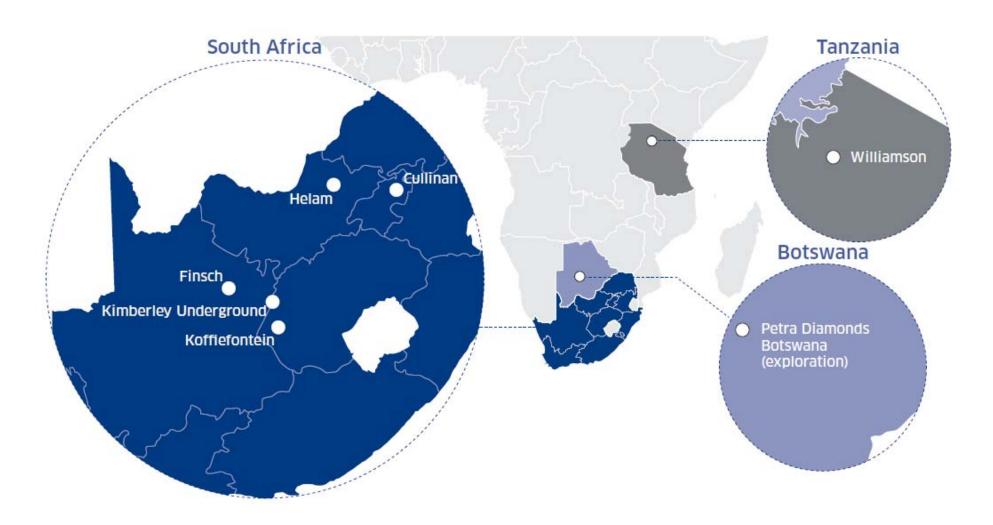
⁽¹⁾ Other than the percentage interests above, Petra has an interest in Sedibeng Mining (Pty) Ltd, one of its BEE partners – refer document 'Effective Interest in Mines: www.petradiamonds.com/investors/analysts/analyst-guidance

⁽²⁾ Petra holds a further 4% effective interest in the Koffiefontein mine through its 13.33% interest in Re Teng Diamonds (Pty) Ltd, the BEE partner at the mine

Focus on Africa



- Africa produces ca. 60% of the world's diamonds by value
- Multi-mine portfolio provides flexibility in terms of operational performance



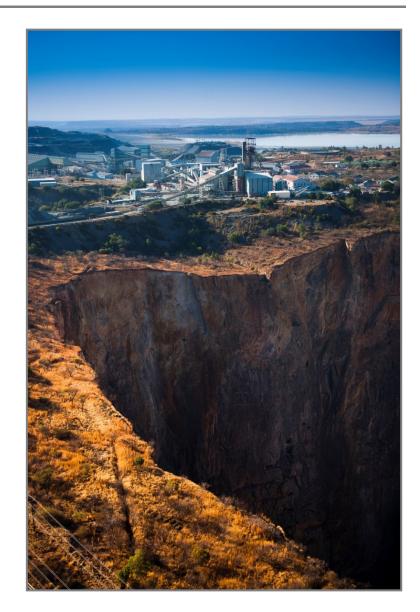


CULLINAN OVERVIEW

A Unique Heritage



- Source of many of the most famous diamonds
- Source of "the Cullinan", the world's largest gem diamond (3,106 carats)
- Has produced a quarter of all the world's diamonds of +400 carats; >125 stones of +200 carats; 745 stones of +100 carats
- World's most important source of truly rare and highly prized blue diamonds
- One of the world's largest diamond resources by in-situ value – 200.8 Mcts (incl. 17.0 Mcts tailings)
- Petra ramping up production from ca. 1 Mctpa to ca. 2.2
 Mctpa by FY 2019 (2 Mctpa ROM & 0.2 Mctpa tailings)
- Substantial expansion capital programme in progress, mainly related to C-Cut Phase 1
- Current life of mine plan of 17 years (actual life of +50 years)

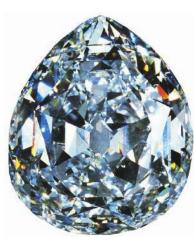


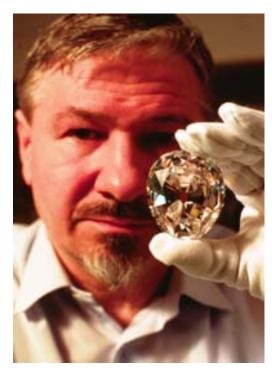
Cullinan – Writing the History of Diamonds



The Cullinan – 3,106 carats rough Largest gem diamond ever discovered



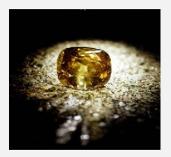




Also source of the largest polished diamonds in the world, incl. The Great Star of Africa (530 carats)

Cullinan – Iconic Gems





The Golden Jubilee 755.50ct rough, 545.65ct polished 1986



The Cullinan **Heritage** 507.55 carats rough







The Centenary 599.10ct rough, 273.85ct polished 1986

The Safia

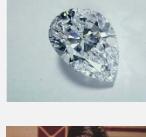
338.46ct rough,

90.97ct polished

1990's



The Blue Heart 30.82ct polished 1909



The Taylor Burton 240.80ct rough, 69.42ct polished 1966





World-class Diamonds Recovered by Petra



- The 507.5 carat Cullinan Heritage sold for **US\$35.5m** (highest price on record for a rough stone) in February 2009
- A 25.5 carat exceptional blue recovered in April and sold in May 2013 for US\$16.9m (US\$663k per carat) (could be world record per carat value for rough)
- The Star of Josephine, a 26.6 carat rough blue diamond cut and polished by Petra to 7.0 carats sold on auction for US\$9.4m (US\$1.349m per carat) in May 2009
- A 39.9 carat rough blue diamond sold for US\$8.8m in 2008
- 4.8 carat blue diamond sold for US\$1.45m, or +US\$300k per carat in 2012
- In FY 2013, 9 diamonds sold for **+US1m** each



The Cullinan Heritage diamond – a 507 carat white diamond recovered at Cullinan in September 2009



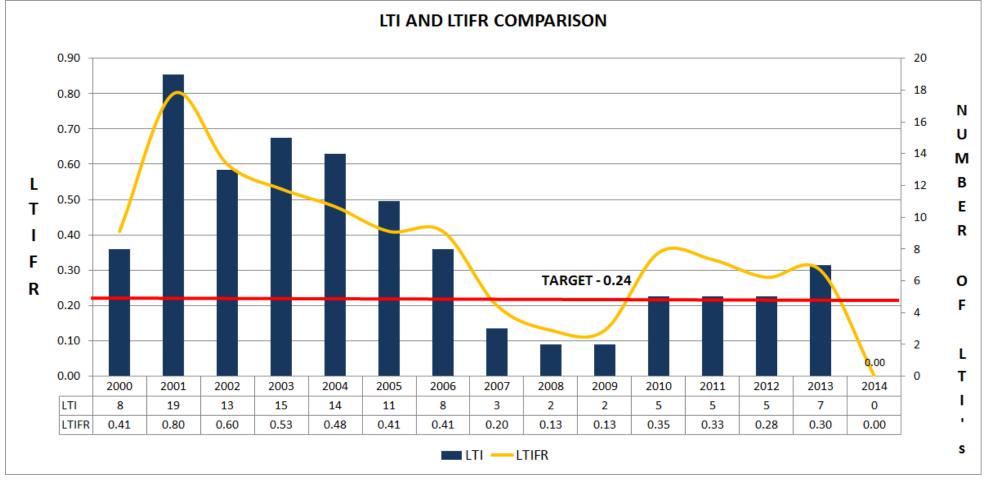
The 25.5 carat exceptional blue diamond sold in May 2013



The 'Star of Josephine' – fancy vivid blue and internally flawless diamond, being the top rating for a blue diamond

SHE Overview





- Cullinan maintains the highest standards and is:
 - ISO14001 certified
 - OHSAS18001 certified
 - ISO9001 certified

Corporate Social Investment



- Cullinan plays an active and supportive role in the local community
- The mine contributes to a wide number of community projects
 below are just a few examples:

SMME Support and Skills Department

Ikwezi Agricultural Hub

Cullinan Sports Centre

Imfundiso Jewellery School

Refilwe Orphan Care Project

Cullinan Field Band

Local NGOs

Tshepong Disability Centre

Chokoe Primary School









MINING OVERVIEW

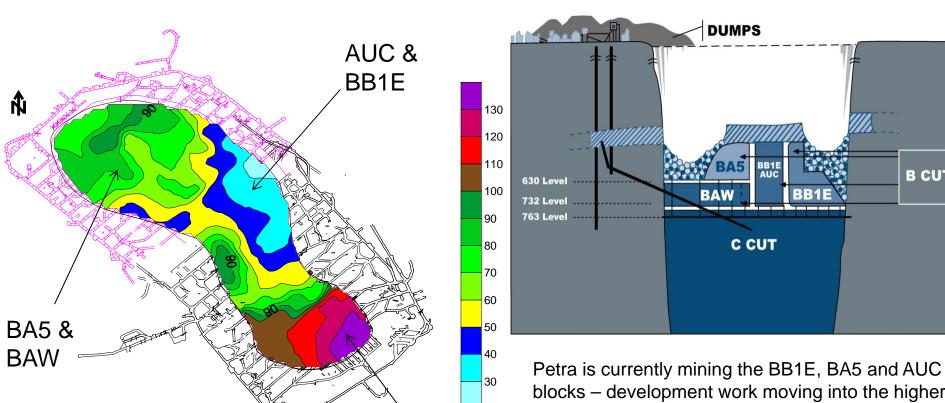
Grade Distribution & Underground Schematic



B CUT

Kimberlite in-situ grade (cpht) distribution

Schematic showing Cullinan mine blocks



BB1E

blocks – development work moving into the higher grade BAW and AUC South areas

Major Diamond Resource

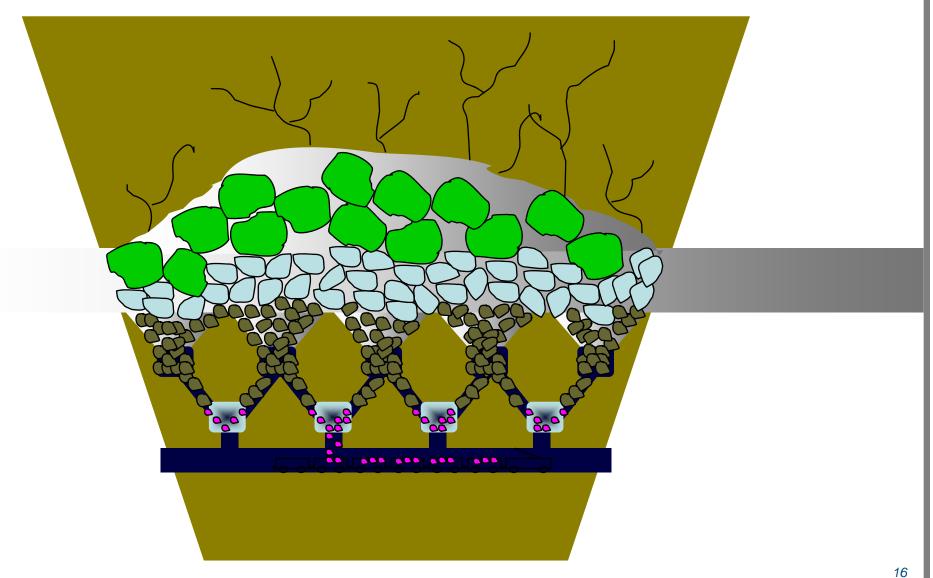


	Gross					
Category	Tonnes (millions)	Grade (cpht)	Contained Diamonds (Mcts)			
Reserves						
Proved	-	-	-			
Probable	63.2	41.8	26.4			
Sub-total	63.2	41.8	26.4			
Resources						
Measured	-	-	-			
Indicated	260.3	70.6	183.7			
Inferred	170.0	10.0	17.1			
Sub-total	430.2	46.7	200.8			

- Resource bottom cut-off: 1mm
- Reserve bottom cut off: 1mm
- B-Cut resource tonnes and grade are based on block cave depletion modelling and include external waste.
- C-Cut Resource stated as in-situ
- Reserve carats and grades are factorised as per the following resource to reserve liberation factors: "Brown" kimberlite 75.8%, "Grey" kimberlite 71.4%, and Hypabyssal kimberlite 71.8%
- Changes in Reserve and Resource figures due to mining depletions and PCBC modelling for the following mining areas: BB1E, AUC, AUC North, BA5, BA West Phase 1 and C-Cut Phase 1).

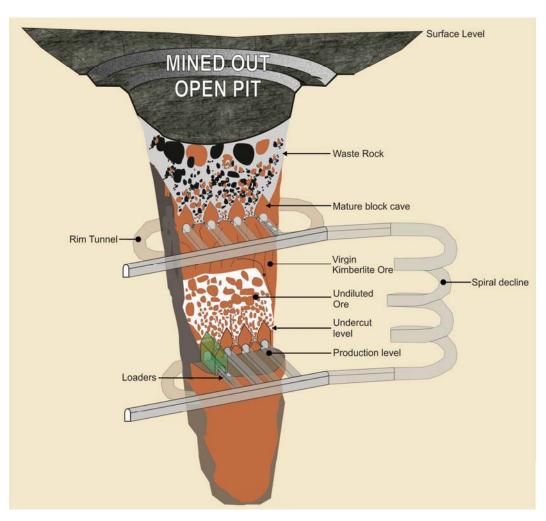
Block Caving Schematic





Moving into Undiluted Ore





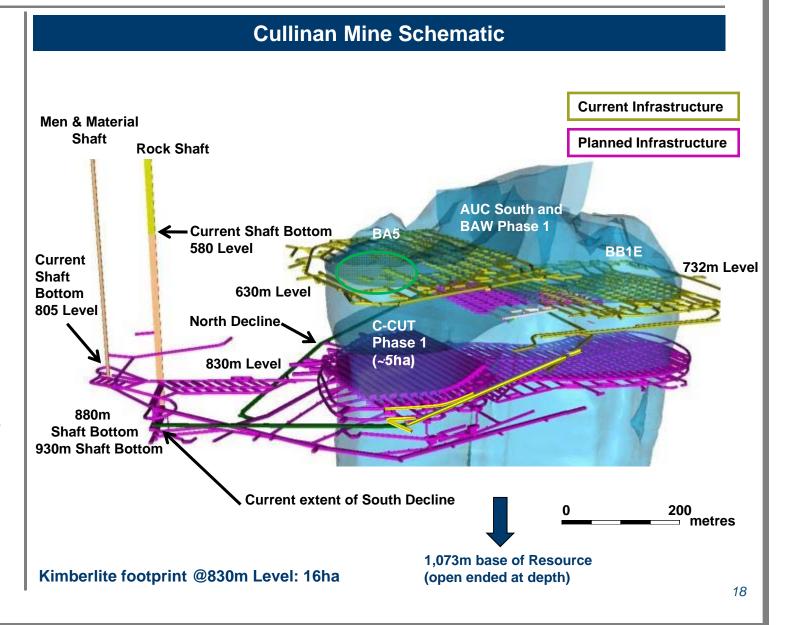
- Caving is a safe and proven mechanised mining method; provides access to higher volumes of ore than other methods
- Current underground mining taking place in diluted, mature caves nearing end of lives
- Expansion programmes to take next 'cut' by deepening and establishing new block/sub level caves in undiluted kimberlite
- Grades expected to rise significantly, increasing margin per tonne mined:
 - Finsch c. 34 cpht to c. 56 cpht
 - Cullinan c. 31 cpht to c. 50 cpht
- Will reduce wear and tear on processing systems (waste rock is harder and more abrasive than kimberlite)

Expansion Plan – Overview



Expansion Plan – to take production to c. 2.2 Mctpa by FY 2019 (2.0 Mctpa ROM & 0.2 Mctpa tailings)

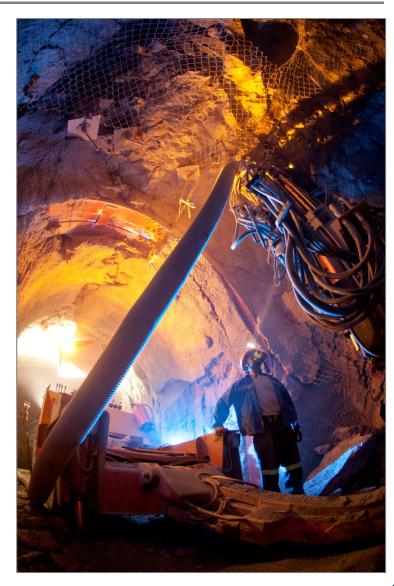
- Commenced rehabilitation of BA5 areas at 645m to create access to undiluted ore – FY 2013
- Development of declines, access tunnels and shaft deepening on track – FY 2013
- Tailings ramp up to steady state 2.7 Mtpa – FY 2014
- New production levels to be established at 839m and shaft to 930m to be commissioned – end FY 2016
- 880m ore-handling system, allowing for future ramp-ups to utilise full C-Cut footprint (16ha vs current 5ha) – end FY 2016
- Initial production from new C-Cut cave – FY 2016
- Upgrading and streamlining of plant facilities in order to handle increased tonnes – from FY 2015 to FY 2019



Expansion Plan – Current Status



- Decline to access new production level has passed 839m level; breakaway for 830m undercut level has been established
- Shaft deepening (and related infrastructure) to 930m in progress using contractor Murray & Roberts
- Development of waste tunnels in progress and over 6,000 metres developed to date
- Refinements to allow for increased flexibility and to increase capacity of mine infrastructure
 - Upgrading of support specifications to cater for anticipated longer life of the block cave
 - Inclusion of batching plant to deliver concrete to shaft and production infrastructure, freeing up shaft time and reducing potential disruptions
 - Optimisation of 880mL ore-handling systems allowing for potential future ramp up
- First development on contact openings planned for FY 2014



Expansion Plan – Current Status











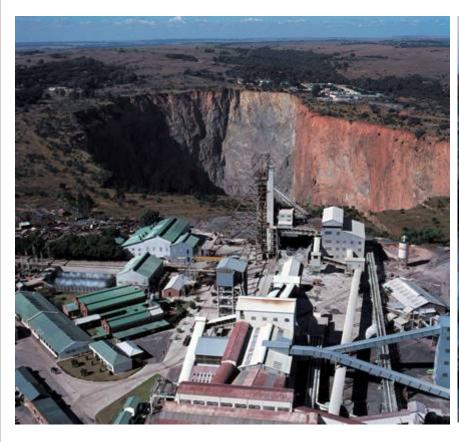


PLANT OVERVIEW

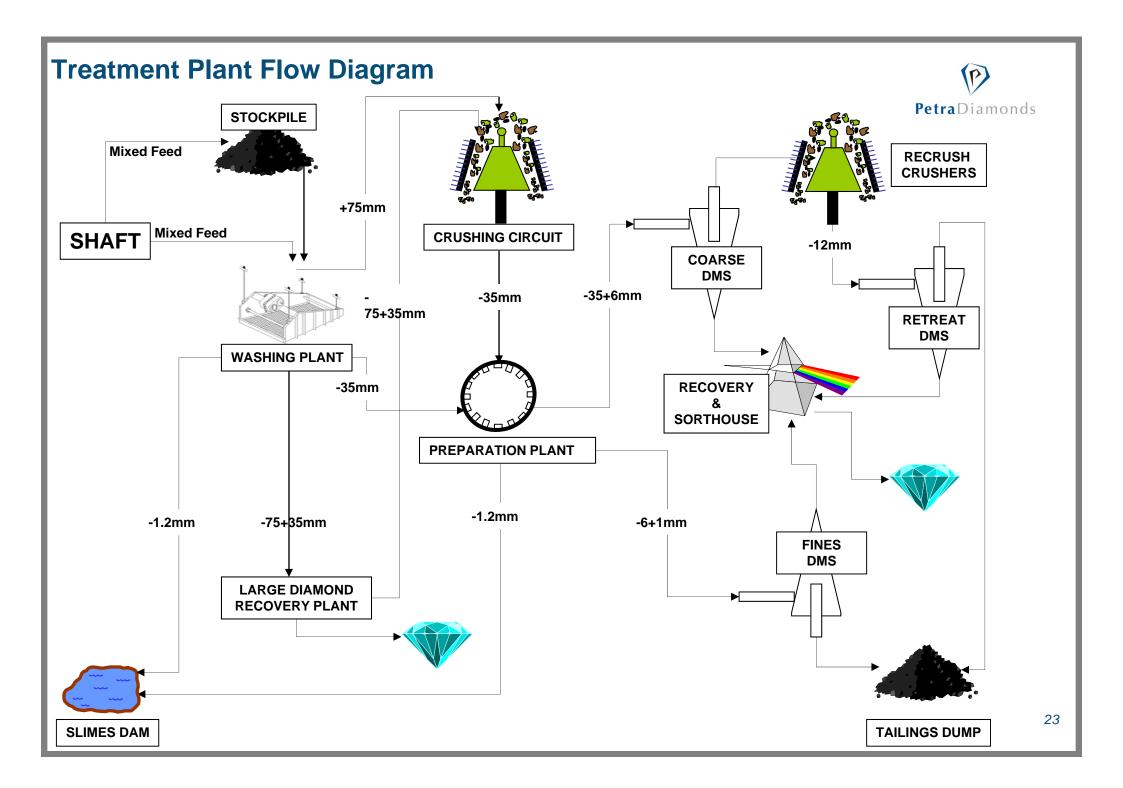
An Aerial Perspective



- Existing plant footprint ca. 27ha, including 13.5km of conveyor belts
- Ongoing objective to simplify and streamline processing route



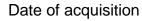


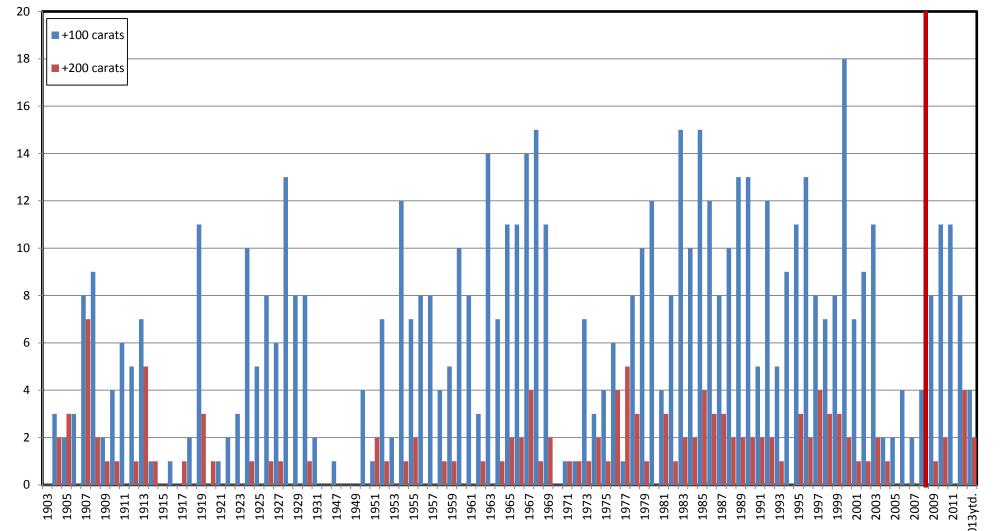


Consistent Production Of Specials



+100 +200 carat stones recovered at Cullinan Diamond Mine





Major Tailings Project



Resource of 165 Mt (17.0 million carats)

- Construction and commissioning of the new tailings treatment facility has been completed
- The re-crush extension is under construction; this will serve to liberate the last diamonds from the tailings oversize material
- Tailings treatment to increase from 1.5 Mtpa in FY 2013 to steady state 2.7 Mtpa in FY 2014 at a grade of 5-6 cpht
- Resources sufficient for 40 years at this level







OUTLOOK

FY 2013 Results

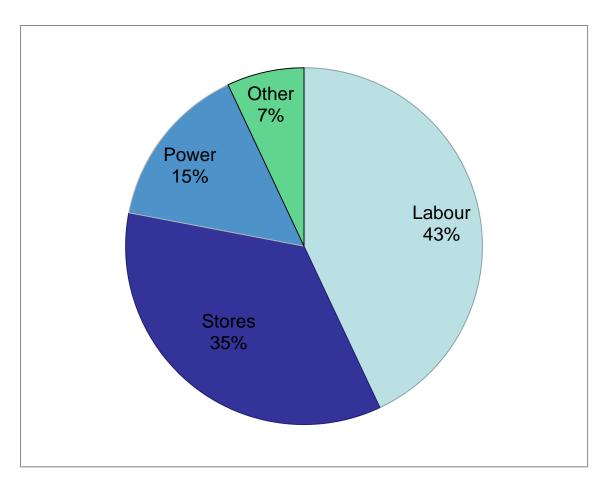


	Unit	FY 2013 A	FY 2012 A
ROM Production			
Tonnes treated	Tonnes	2,595,004	2,504,137
Diamonds produced	Carats	795,370	833,285
Grade	Cpht	30.7	33.3
<u>Tailings Production</u>			
Tonnes treated	Tonnes	1,485,889	668,534
Diamonds produced	Carats	73,605	34,495
Grade	Cpht	5.0	5.2
Total Production			
Tonnes treated	Tonnes	4,080,893	3,172,671
Diamonds produced	Carats	868,975	867,780
<u>Sales</u>			
Revenue	US\$M	133.0	112.0
Diamonds sold	Carats	816,611	876,384
Average price per carat	US\$	163	128
Costs			
On-mine cash cost per tonne treated	ZAR	158	177
Capex			
Expansion Capex	US\$M	64.0	42.4
Sustaining Capex	US\$M	17.2	7.5
Borrowing Costs Capitalised	US\$M	7.8	4.5

- Good throughput performance increase in ROM and tailings tonnages
- FY 2013 ROM grade lower due to increased dilution of current mining areas
- FY 2013 average value per carat excluding the 25.5ct blue diamond sold for US\$16.9m was US\$142
- Unit cash operating cost decreased mainly due to increased volumes of tailings throughput
- Capex increased in line with progression of development plan

Cost Make-up And Objectives





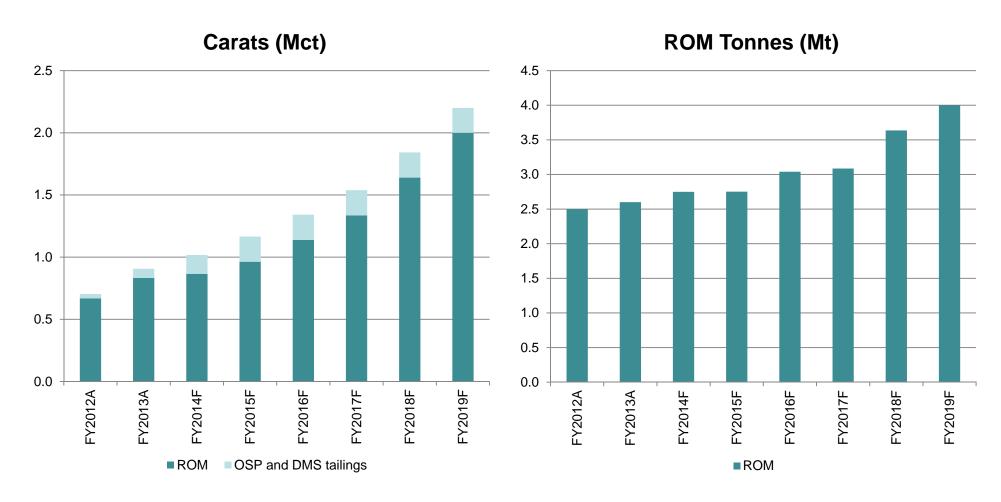
FY 2013 on-mine cash cost of R158 per tonne treated

- Risk of rising electricity costs managed through efficient design of new infrastructure
- Maintenance and management of new and old infrastructure
- New designs cater for high degree of automation
- Advancement of a Group procurement strategy to yield benefits related to economies of scale

Production Forecast



Targeting 2.2 million carats by FY 2019



Cullinan Outlook



- Spectacular diamonds regular production of 'specials'
- Major resource world's second largest indicated resource by in-situ value
- Improving recoveries ongoing plant changes
- Improving grades grade to rise from ca. 36 cpht to ca. 50 cpht when new mining block established
- Improving mining costs Petra focus on increasing efficiencies, simplification of underground ore-handling system and streamlining of process route
- Very robust economics positive cashflow even at depth of downturn
- Longevity current 17 year mine plan will only exploit 21% of total resource
- Potential for future ramp ups not currently planned but Petra readying underground infrastructure

Strategy to grow production from 1 million to 2.2 million carats pa



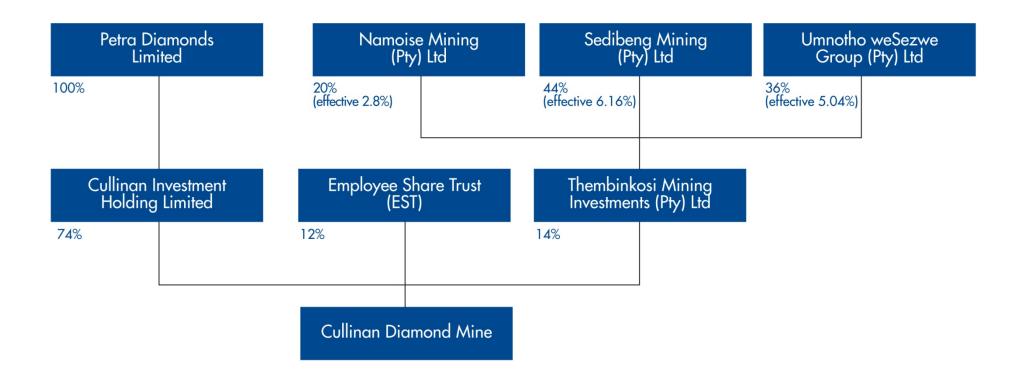
Petra Diamonds



Appendix

Ownership Structure





Note:

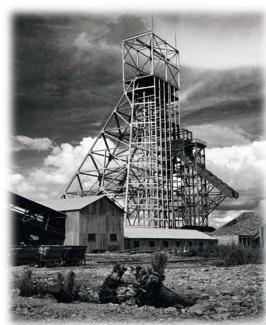
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The History Of Cullinan









1902	Cullinan kimberlite pipe originally discovered by Sir Thomas Cullinan - at 32ha surface area, largest diamondiferous kimberlite ever found in SA
1903	Open pit mining commenced at 'Premier Mine' - at time of outbreak of WW1 14,000 were employed at mine
1930	De Beers acquired controlling interest in Premier through scheme of arrangement with Anglo American
1932	Mine closed due to depression and lack of market for luxury goods
1945	Mine reopened and pit dewatered for development of

underground mine 1997 Premier (Transvaal) Diamond Company amalgamated into De Beers Consolidated 2003 Mine renamed 'Cullinan' as part of centenary celebrations 2008 Mine acquired by Petra Diamonds Cullinan Consortium on 16 July as a going concern - acquisition cost of R1bn -Petra had an initial effective interest of 37% 2009 Petra increased its interest in the mine to 74% by buying out Al Rajhi's interest

Capex Profile



	Financial Year	2013A	2014	2015	2016	2017	2018	2019
Operation								
Finsch	Expansion Capex (ZARm)	293.5	512.3	422.2	346.9	467.9	403.0	354.3
	Sustaining Capex (ZARm)	93.7	132.7	115.3	76.7	74.3	73.1	71.8
Cullinan	Expansion Capex (ZARm)	565.7	765.3	842.7	755.7	219.4	100.2	76.8
	Sustaining Capex (ZARm)	152.0	81.3	74.9	52.3	49.3	50.1	50.3
Koffiefontein	Expansion Capex (ZARm)	96.4	171.0	103.6	57.9	31.6	-	-
	Sustaining Capex (ZARm)	84.0	25.1	32.8	34.7	28.7	28.2	27.8
Kimberley	Expansion Capex (ZARm)	155.6	96.1	111.0	37.3	-	-	-
	Sustaining Capex (ZARm)	35.4	28.2	28.8	28.7	28.5	28.1	27.6
Helam	Expansion Capex (ZARm)	-	-	-	-	-	-	-
	Sustaining Capex (ZARm)	15.7	9.8	10.1	10.0	10.0	9.9	9.8
PETRA	Expansion Capex (ZARm)	1 111.2	1 544.6	1 479.4	1 197.8	718.9	503.2	431.1
(SA Operations)	Sustaining Capex (ZARm)	380.8	277.0	261.9	202.5	190.9	189.4	187.3
Williamson	Expansion Capex (USDm)	8.4	8.2	6.8	6.8	-	-	-
	Sustaining Capex (USDm)	3.3	5.9	5.8	6.0	6.2	5.0	4.9

- 1. All Capex numbers are stated in FY 2014 money terms (except for FY 2013 actuals).
- 2. Depreciation on mining assets for FY 2014 guided at ca. US\$45 million.
- 3. As in prior guidance, capital estimates above do not include any capitalised borrowing costs. Guidance is to assume 95% of borrowing costs are to be capitalised.



Petra Diamonds



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