MODIKWA

PLATINUM MINE

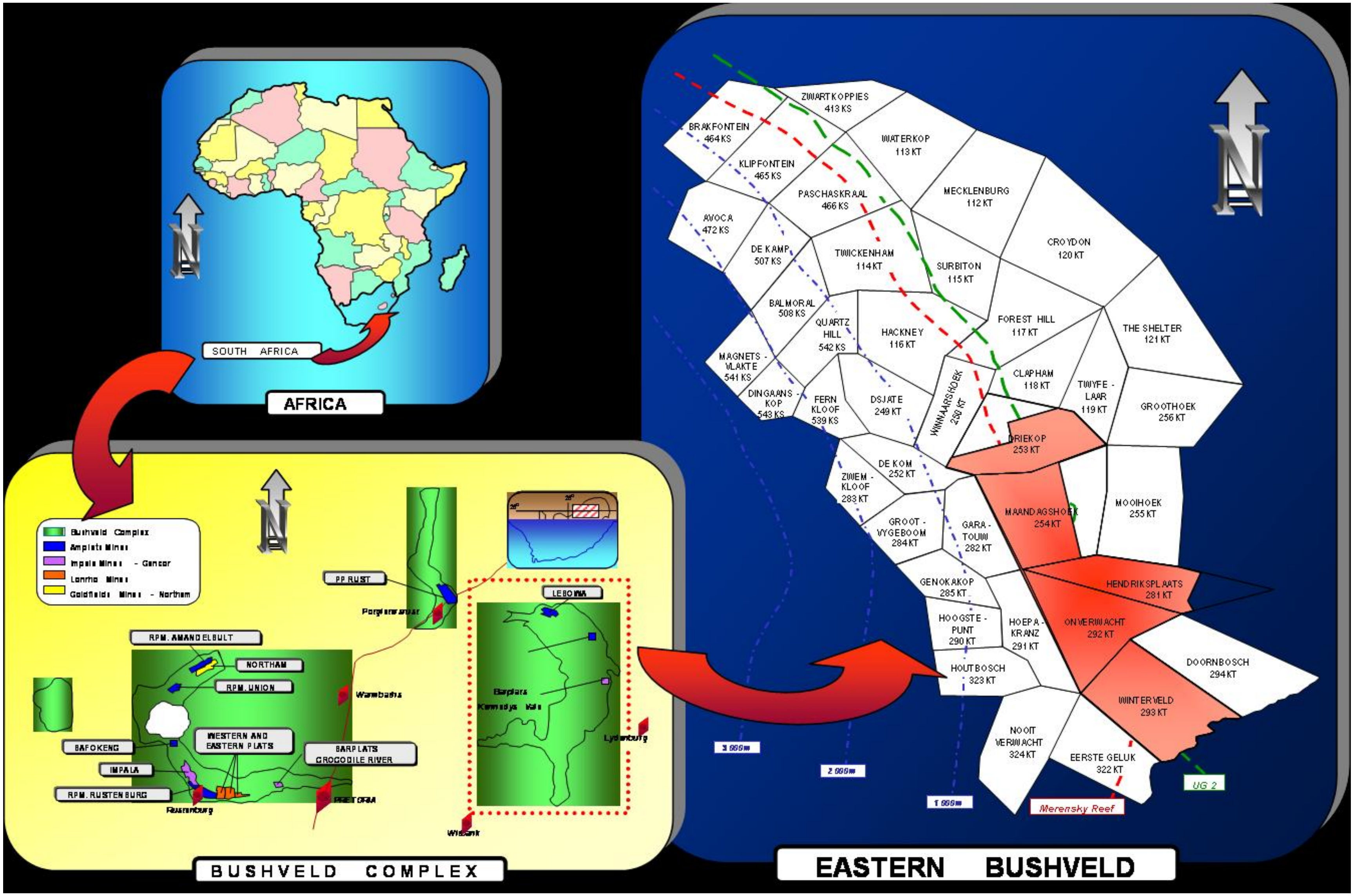
Facility visit

September 2007

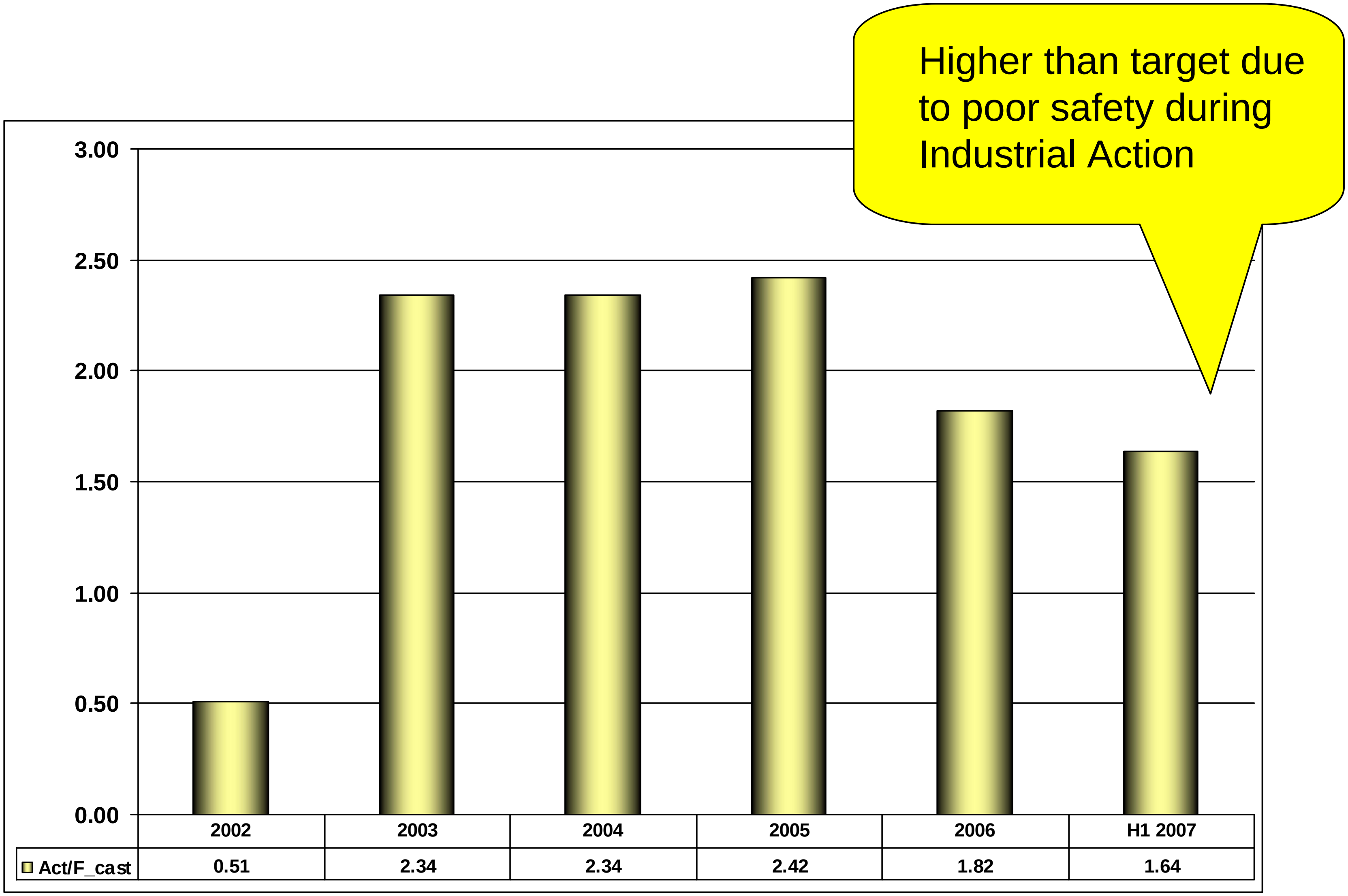
Agenda

- Safety
- Ore body
- Mining methods
- Production
- Operating costs
- Capital expenditure
- Human resources
- Key business issues

Locality – Modikwa Platinum Mine

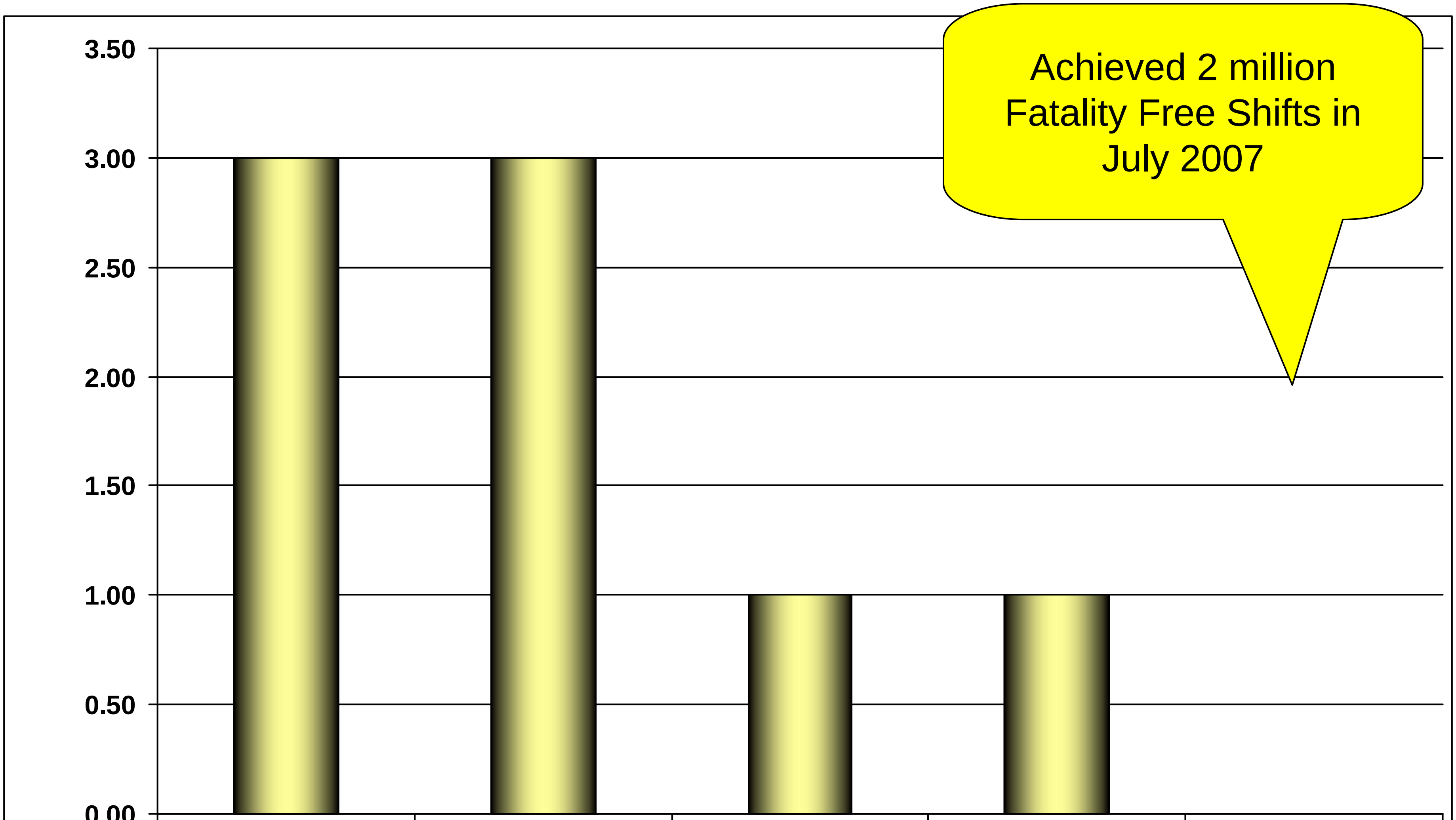


Lost time injury frequency rate



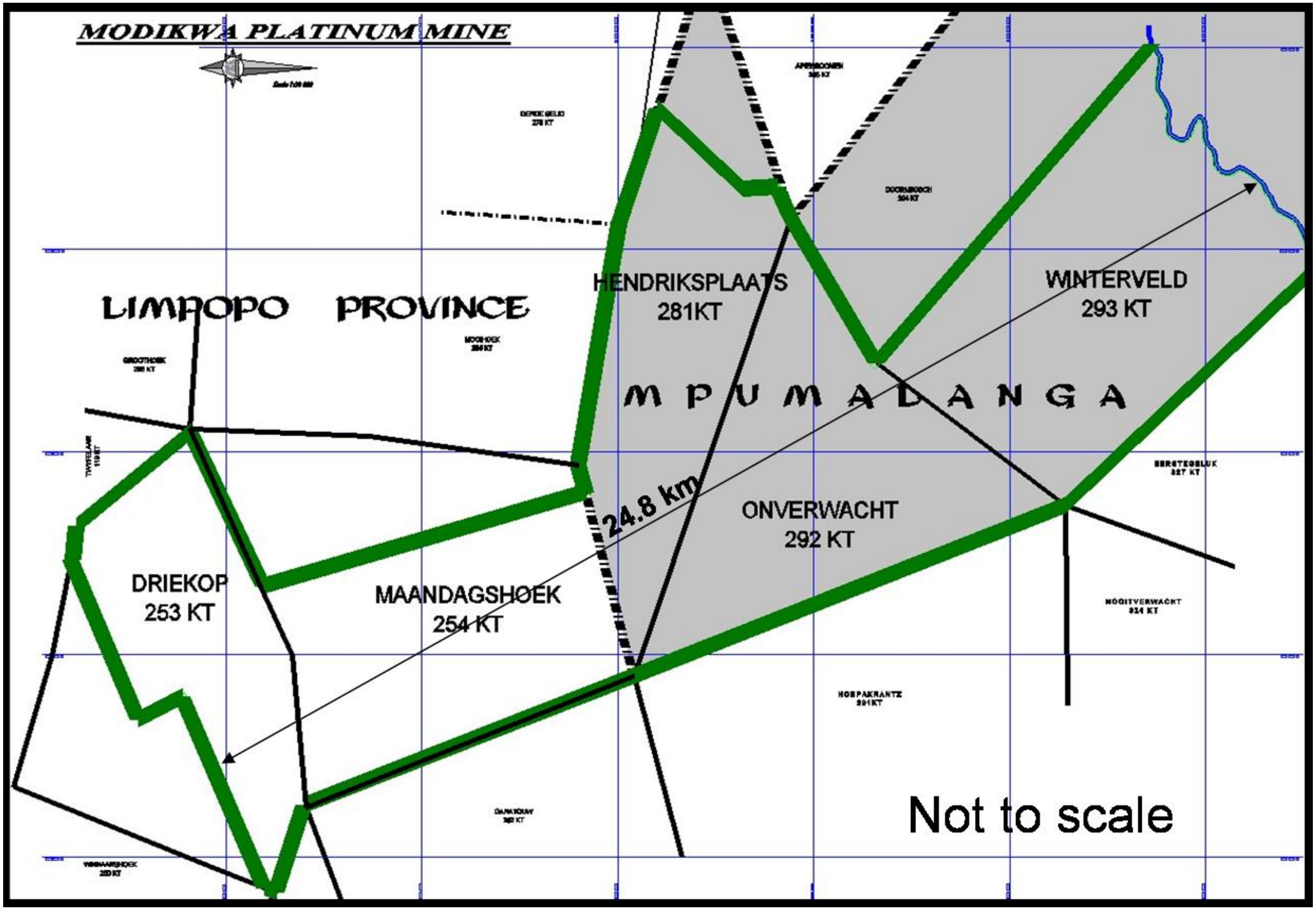
- Safety programs are aimed at continuous improvement to achieve zero accidents

Fatalities



	2003	2004	2005	2006	H1 2007
Act/F_cast	3	3	1	1	0

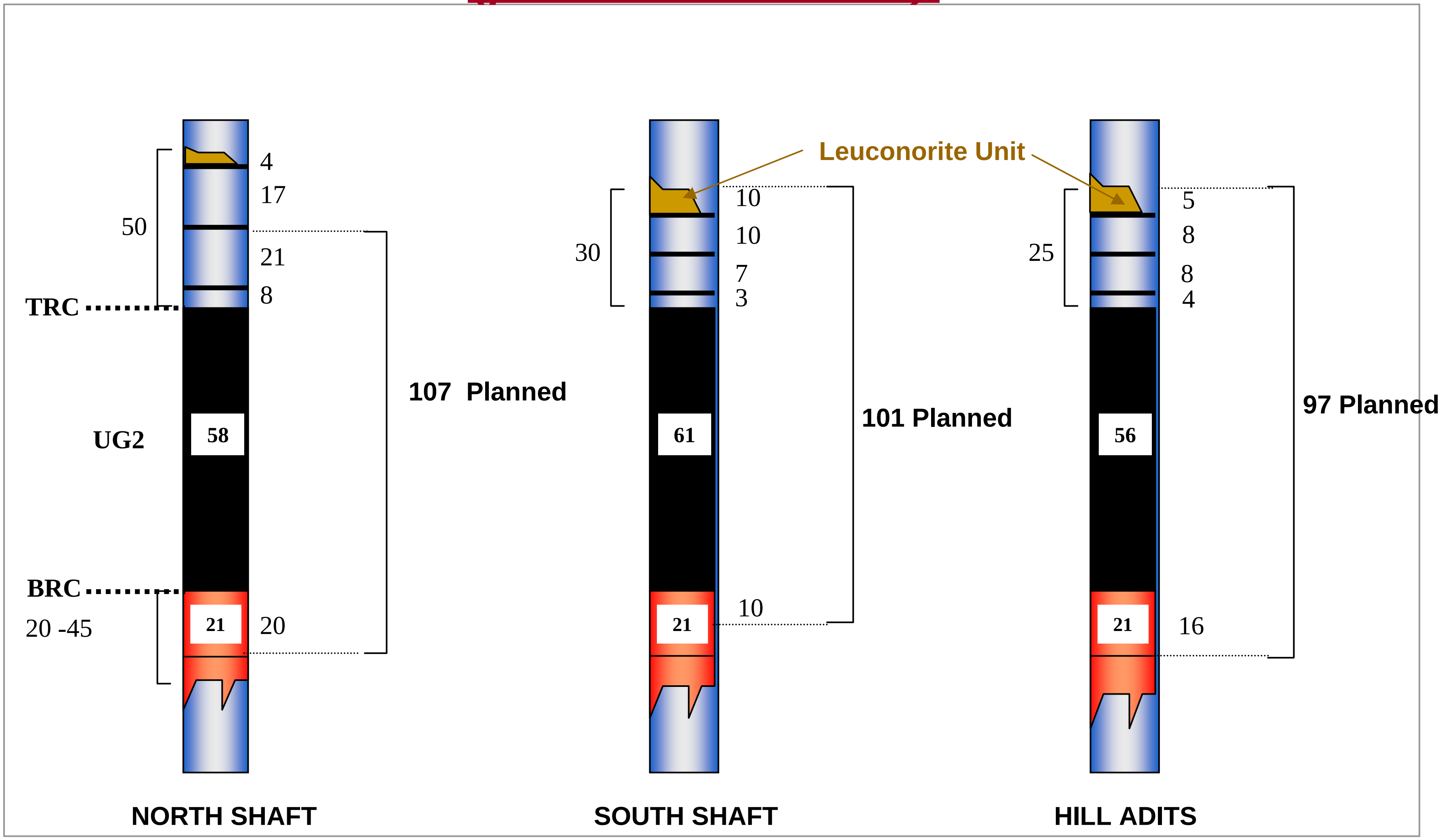
Modikwa Platinum Mine – lease area



Mpumalanga Province

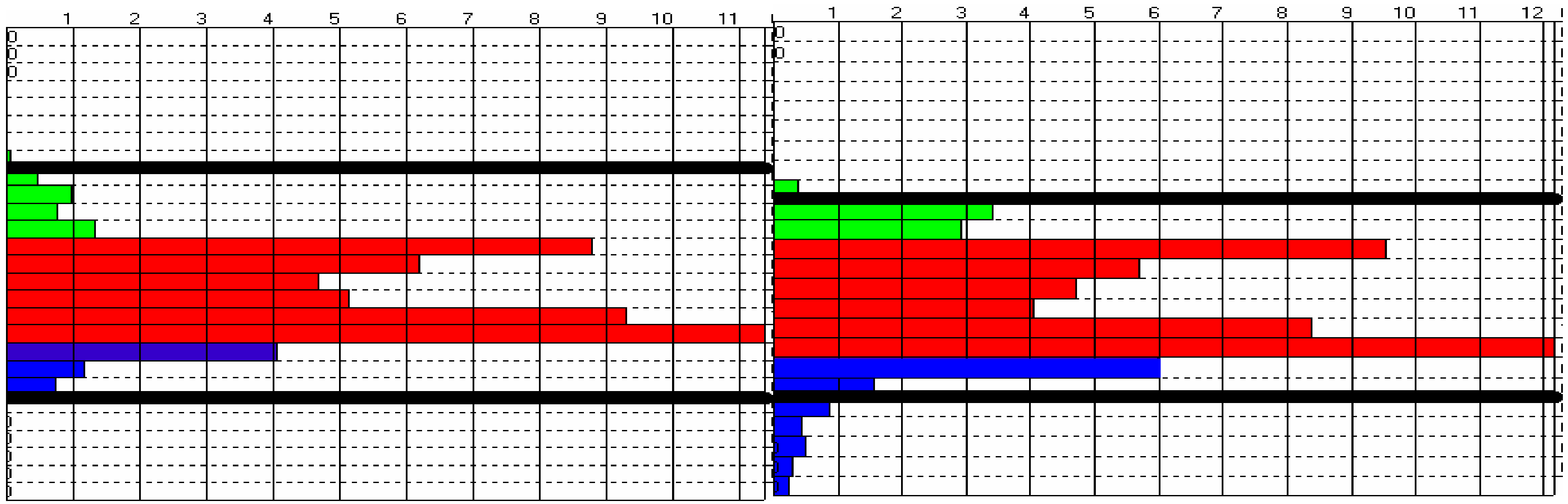
Total lease area 14 278 ha

Optimal Stoping Cut (per shaft area)



- **Mine average planned at 102 cm – Currently 103cm**

Vertical grade distribution in UG2



North Shaft

South Shaft

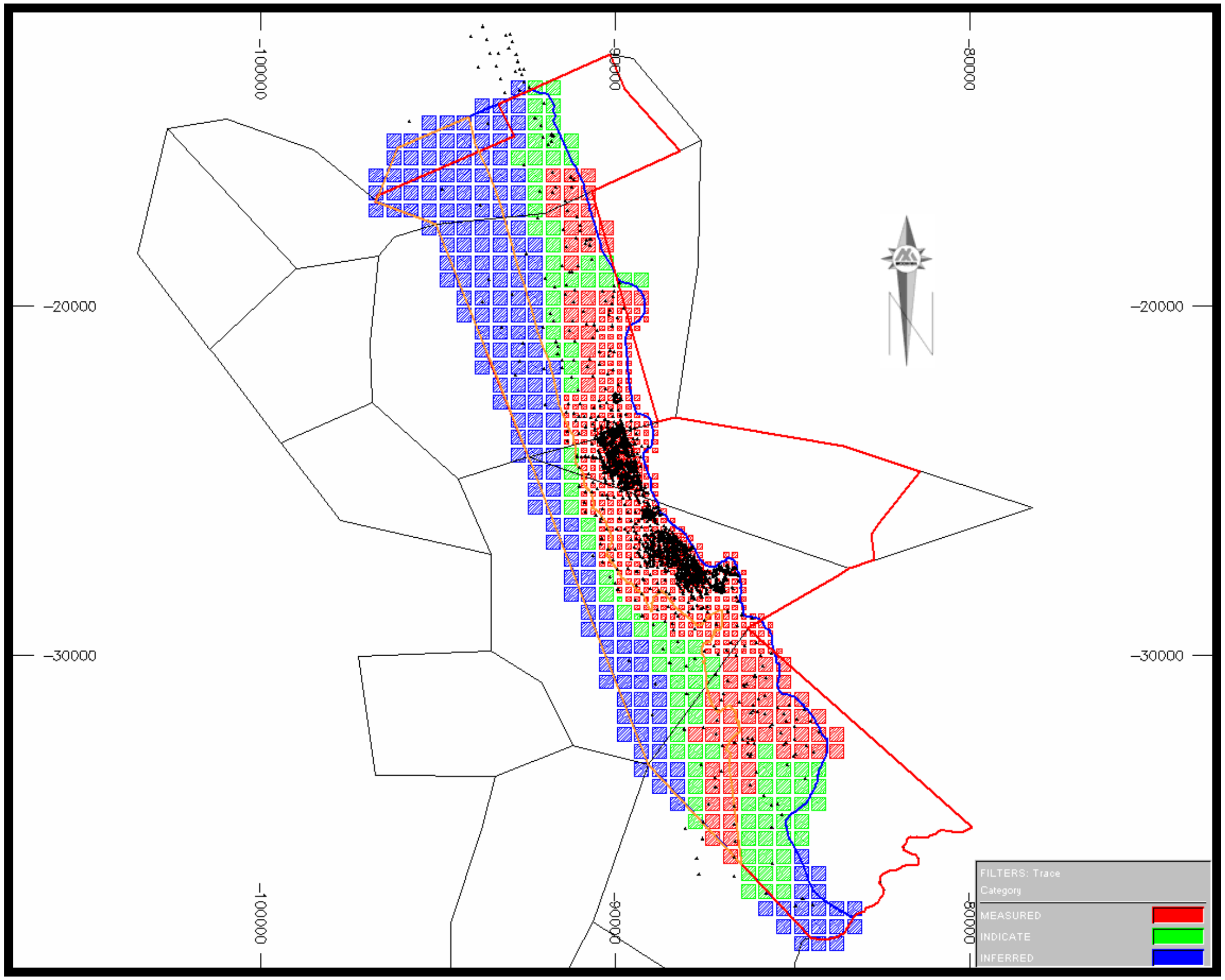
Average g/t 4E: North 5.91 South 5.86 Total 5.89

Reef channel

Hanging wall

Foot wall

2006 UG2 resource categories (Data Mine model)

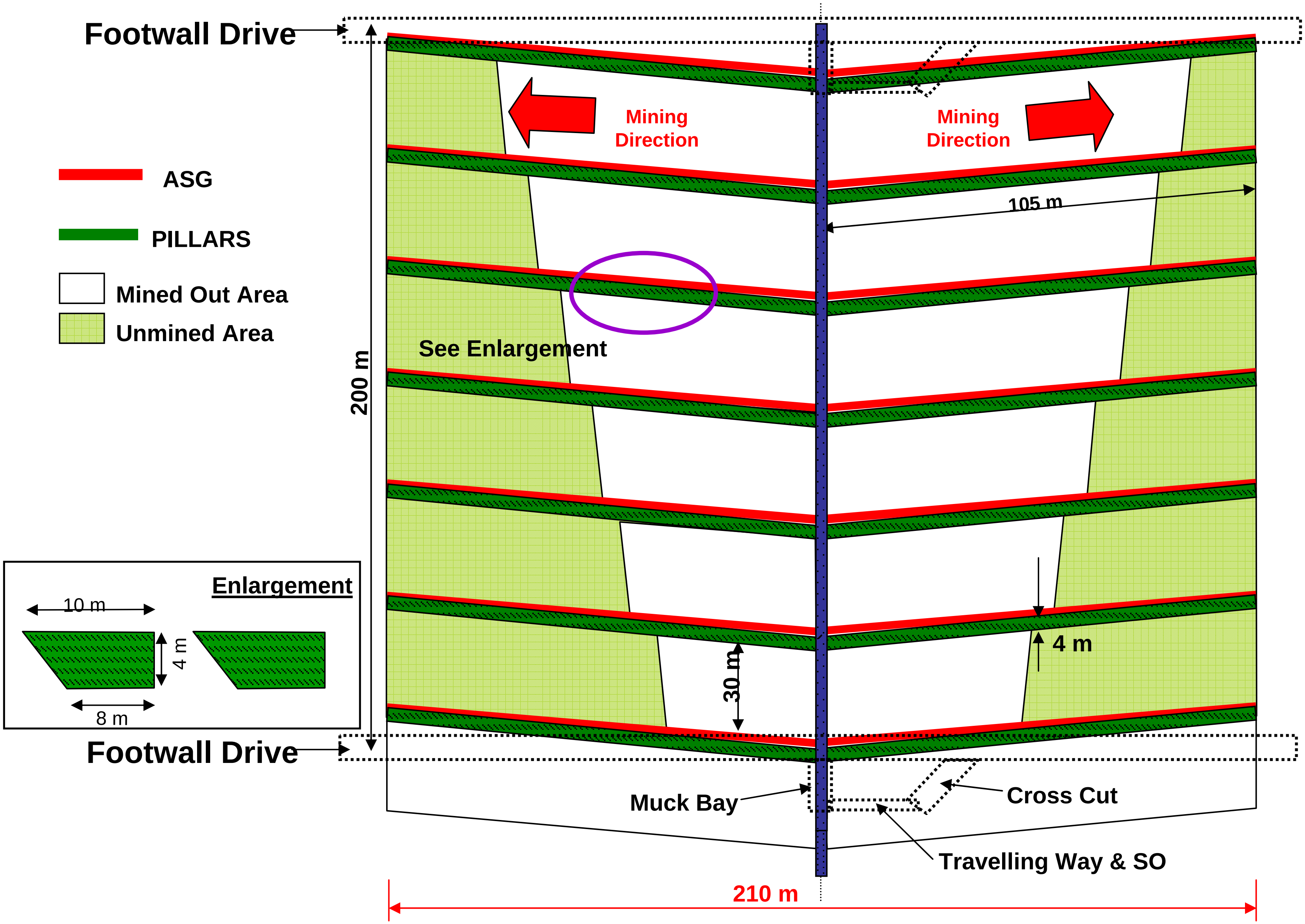


Resource Classification – Tonnage 100 % JV (Millions)

	Merensky	UG2	Total
Measured	18.7 (8.6%)	68.5 (30.1%)	87.2 (19.6%)
Indicated	46.8 (21.5%)	62.8 (27.6%)	109.6 (24.6%)
Inferred	152.0 (69.9%)	96.1 (42.3%)	248.1 (55.8%)
Total	217.5	227.4	444.9

- Excluding proved and probable ore reserves
- Resource discounted for Geological losses

Breast stoping layout with footwall development

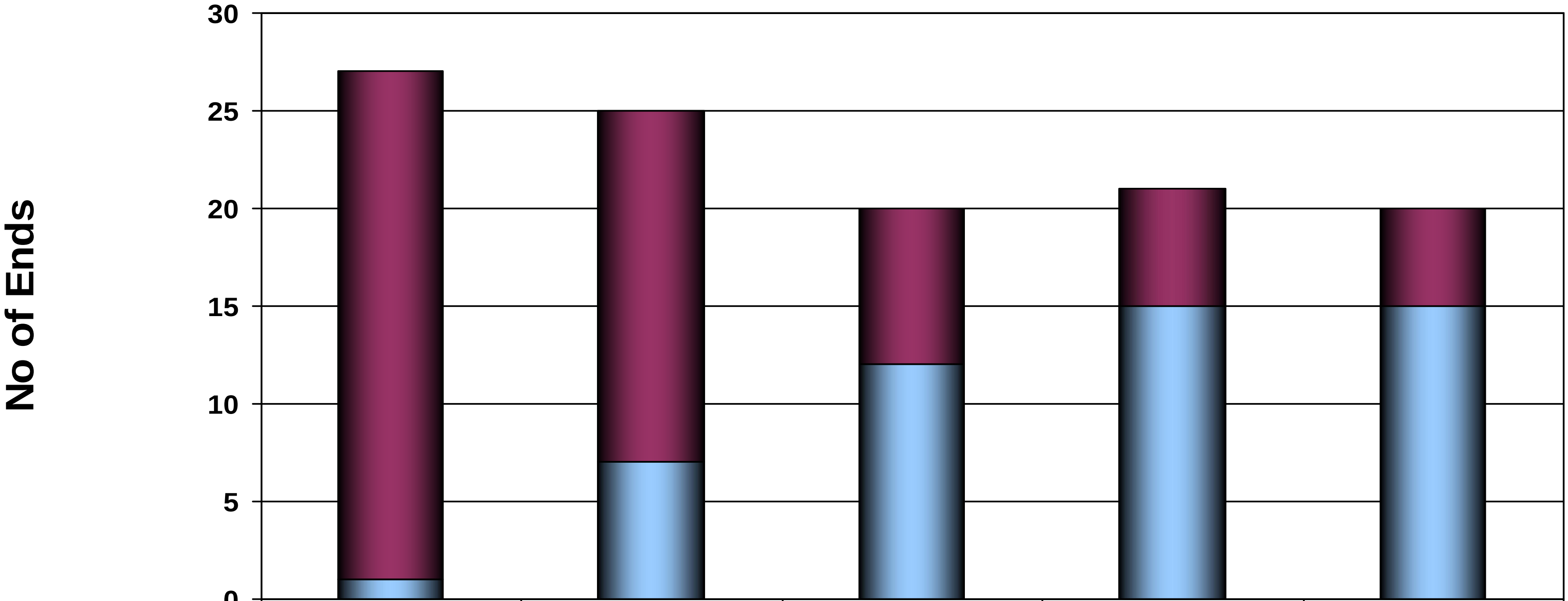


Final Layout

Modikwa Development Ends

Large Ends – Reef Drives vs Footwall Drives

Move from Reef Drives to Footwall

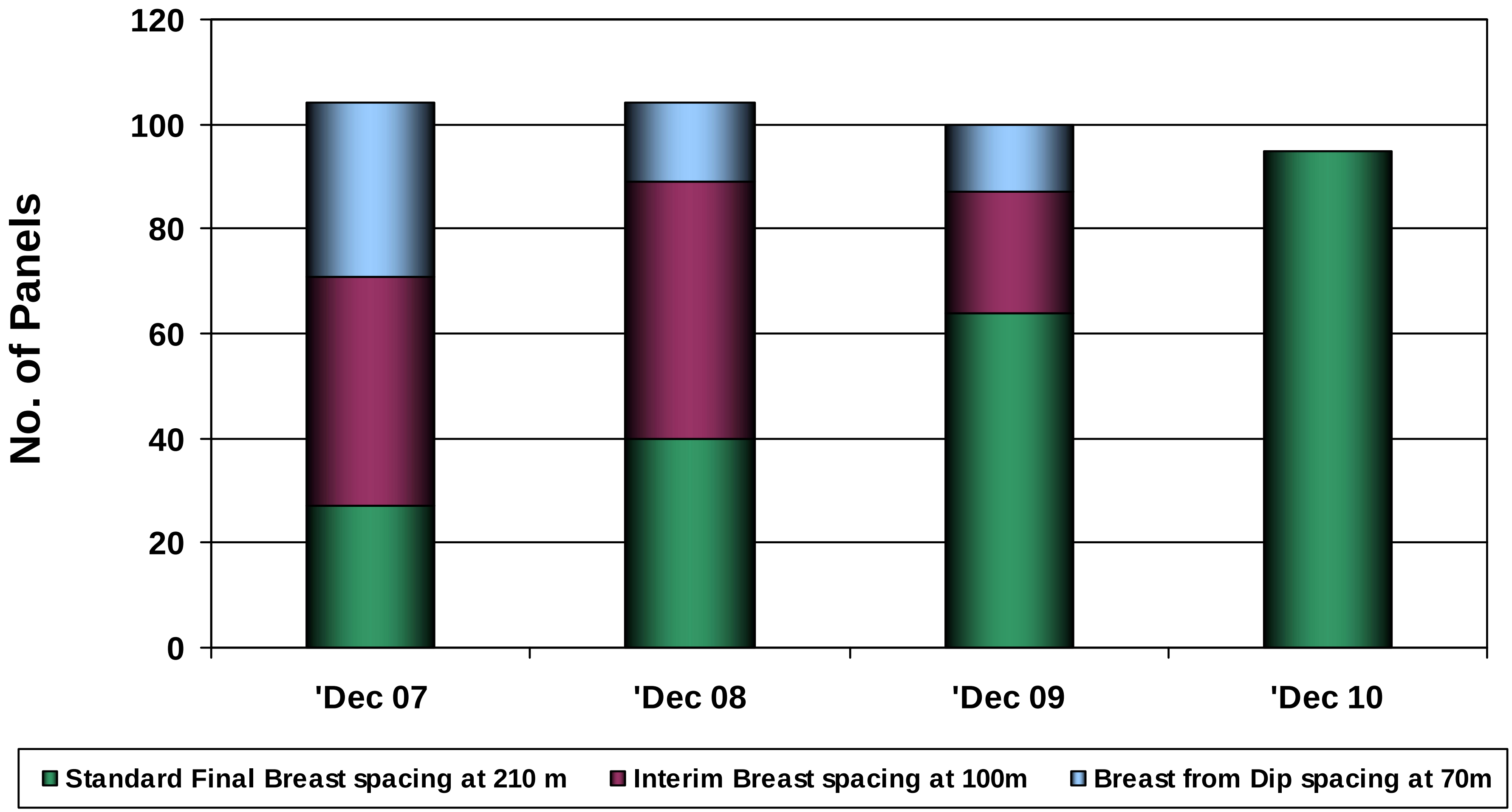


	Dec-04	Dec-05	Dec-06	'Aug 07	'Dec 08
Reef Drives	26	18	8	6	5
FW HLGE	1	7	12	15	15

- All large ends will be in footwall by 2010

Modikwa

Conversion from Dip to Breast Mining



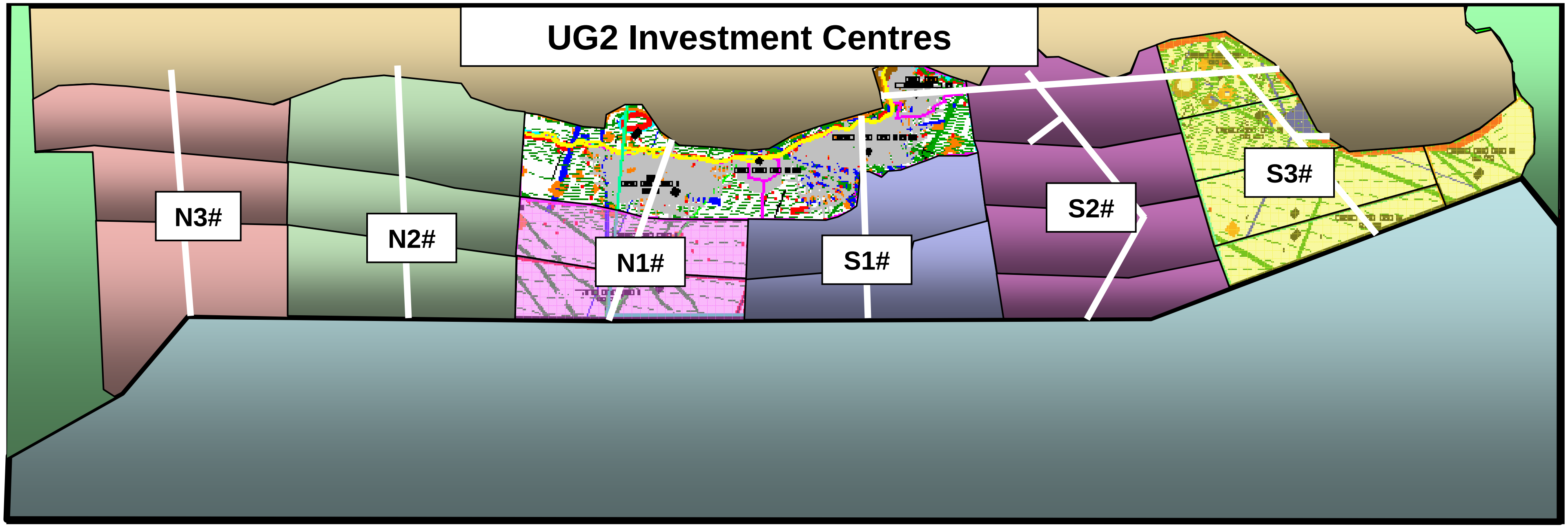
- Only breast mining is taking place (dip mining completely phased out)
- All panels are expected to be on the standard 210m breast spacing by 2010

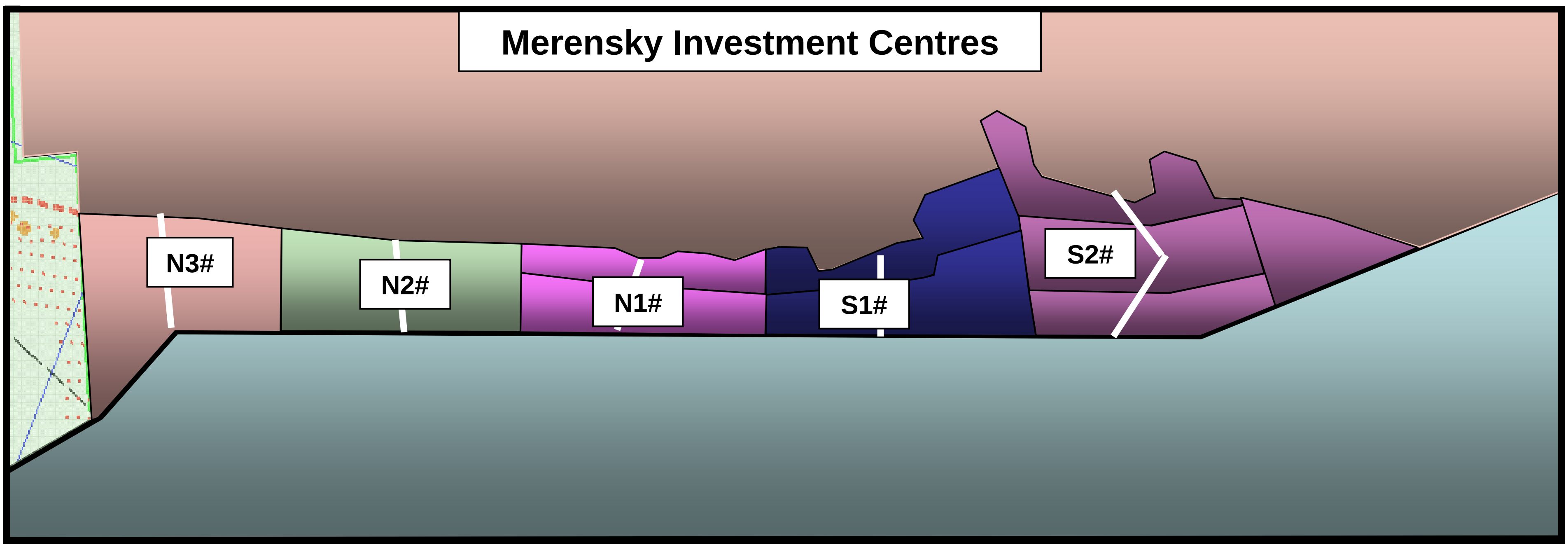
Conversion to footwall strike development & breast stoping

Lower development profile required to generate ore reserves for breast mining

	Breast mining Footwall drives		Dip mining Twin raise & reef drives	
	m^2/metre	Required to replace 50 000 m^2	m^2/metre	Required to replace 50 000 m^2
m^2/ Total Dev	53	943	17	2 941
m^2/ Prim.- R/W, TW, BH & Diag	107	467	22	2 272
m^2/ Prim.- Large Ends	106	472	83	602

Both Reefs under continuous evaluation





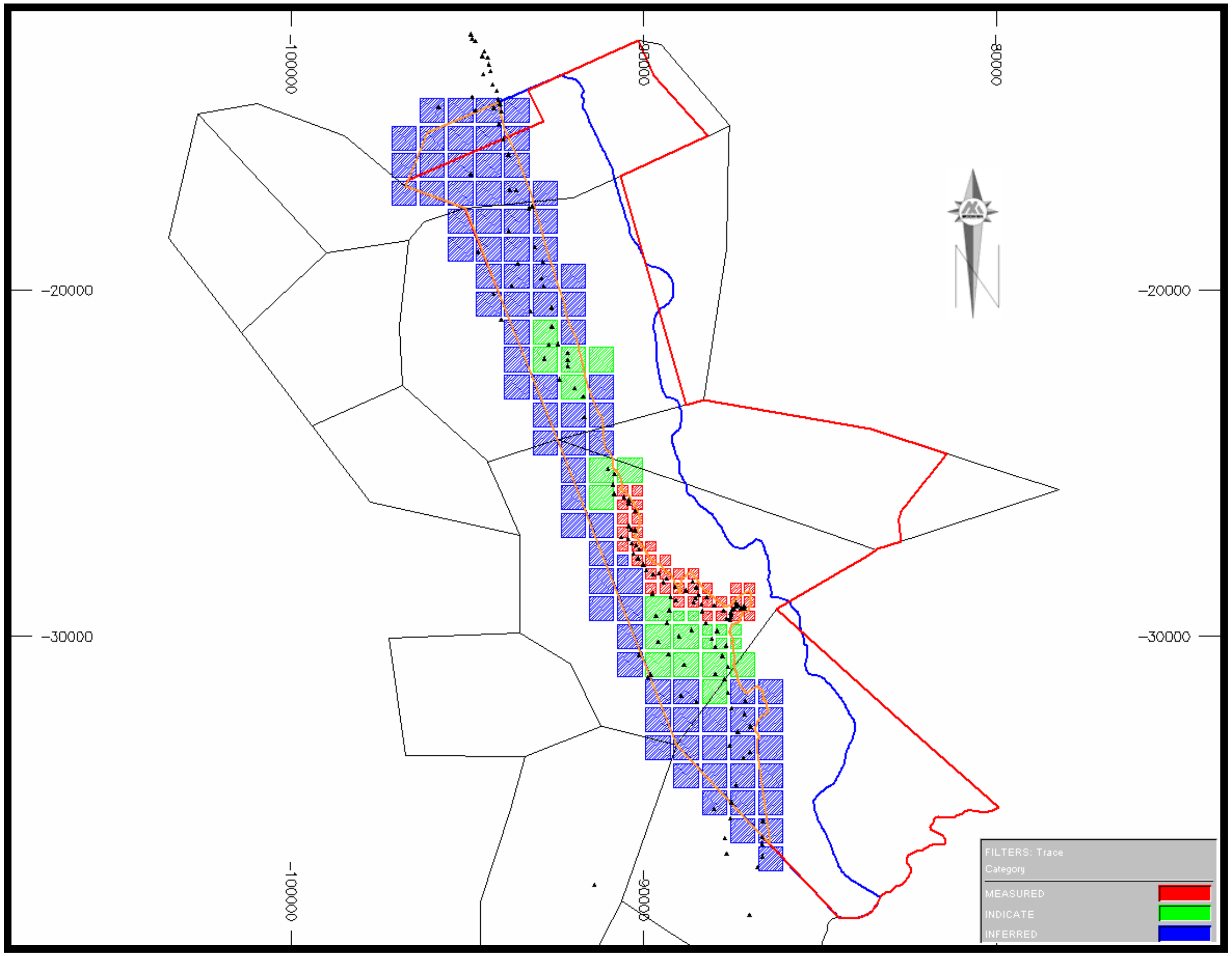
Production sources

(000's tons per month)

Production area	2005	2006	Steady state
North 1 Shaft	86	96	120
South 1 Shaft	63	75	120
Hill	32	27	-
Mid Shaft	9	10	-
South 2 & 3 Shaft			
North 2 & 3 Shaft			
TOTAL	190	207	240
Life in Years			90

- Evaluation of possible expansion underway
- Possible inclusion of Merensky

2006 Merensky resource categories (Data Mine model)

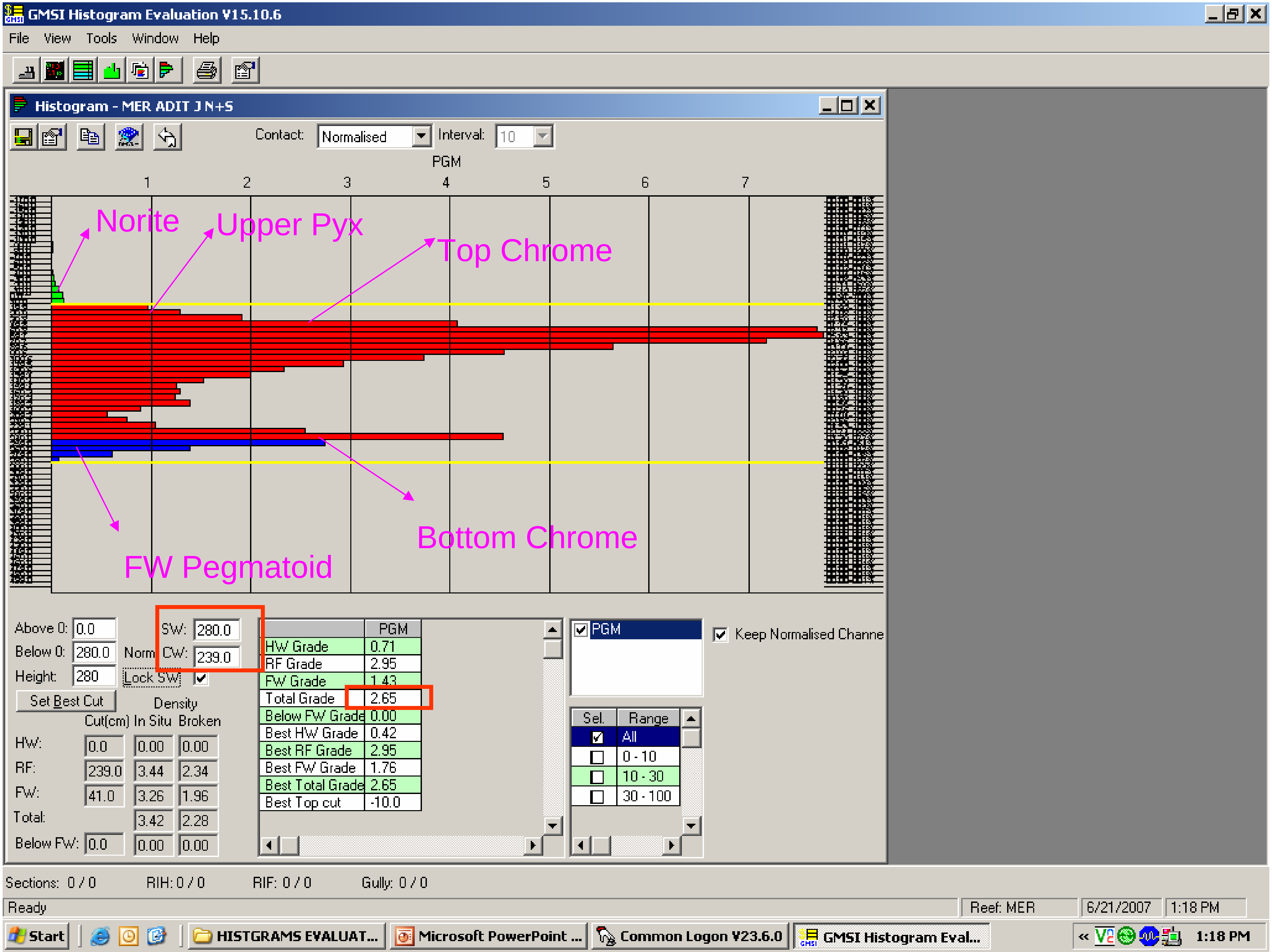


Measured Resource

Indicated Resource

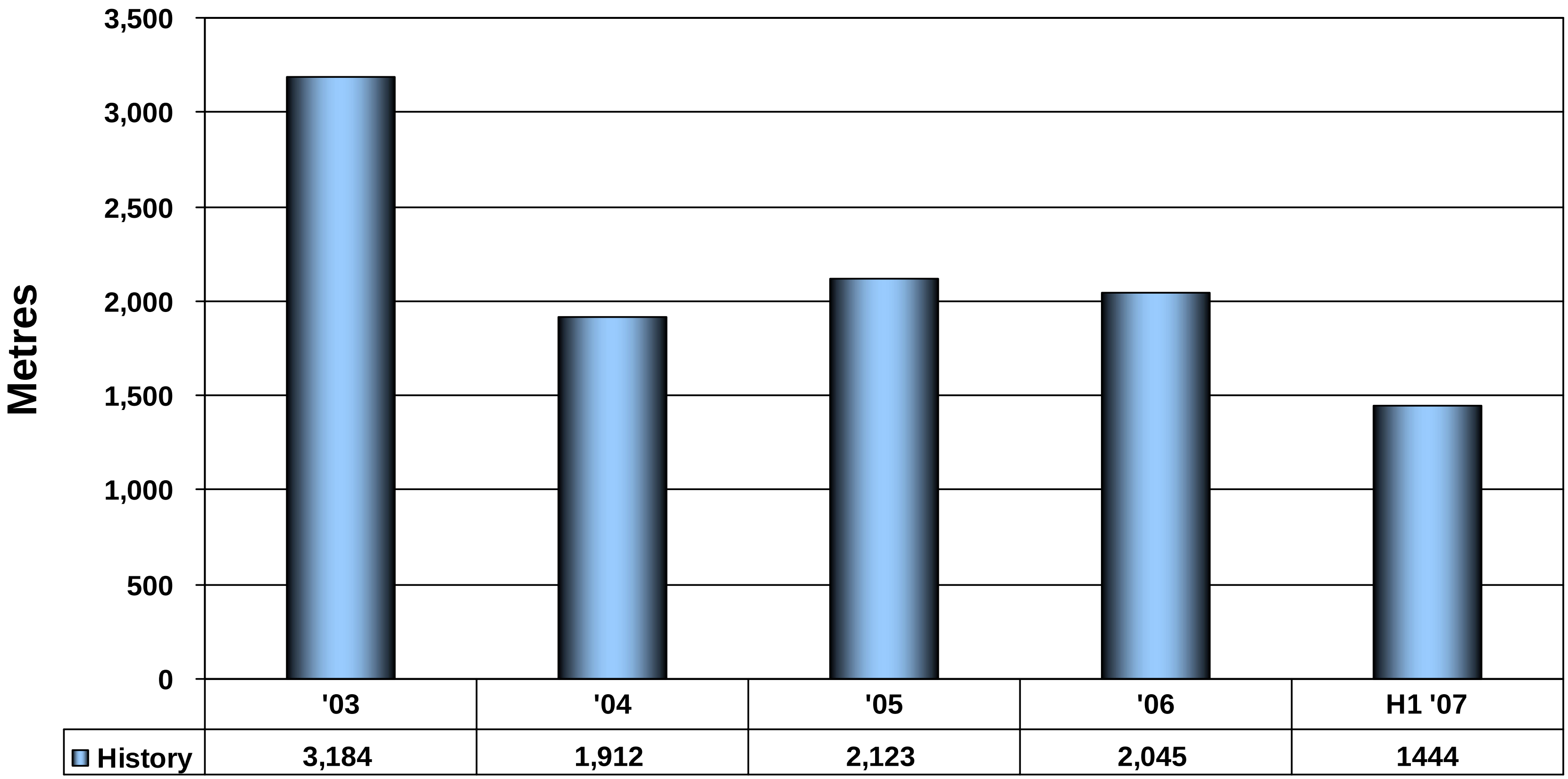
Inferred Resource

131 boreholes have been drilled with 242 reef intersections


GMSI Histogram Evaluation V15.10.6
File View Tools Window Help
Histogram - MER ADIT J N+S
Contact: Normalised
Interval: 10
PGM
1 2 3 4 5 6 7
Norite
Upper Pyx
Top Chrome
Bottom Chrome
FW Pegmatoid
Above 0: 0.0
Below 0: 280.0
Height: 280
SW: 280.0
Norm CW: 239.0
Lock SW
Set Best Cut
Density
Cut(cm) In Situ Broken
HW: 0.0 0.00 0.00
RF: 239.0 3.44 2.34
FW: 41.0 3.26 1.96
Total: 3.42 2.28
Below FW: 0.0 0.00 0.00
PGM
HW Grade 0.71
RF Grade 2.95
FW Grade 1.43
Total Grade 2.65
Below FW Grade 0.00
Best HW Grade 0.42
Best RF Grade 2.95
Best FW Grade 1.76
Best Total Grade 2.65
Best Top cut -10.0
PGM
Keep Normalised Channe
Sel. Range
All
0 - 10
10 - 30
30 - 100
Sections: 0 / 0
RIH: 0 / 0
RIF: 0 / 0
Gully: 0 / 0
Ready
Reef: MER
6/21/2007
1:18 PM
Start
HISTGRAMS EVALUAT...
Microsoft PowerPoint ...
Common Logon V23.6.0
GMSI Histogram Eval...
1:18 PM

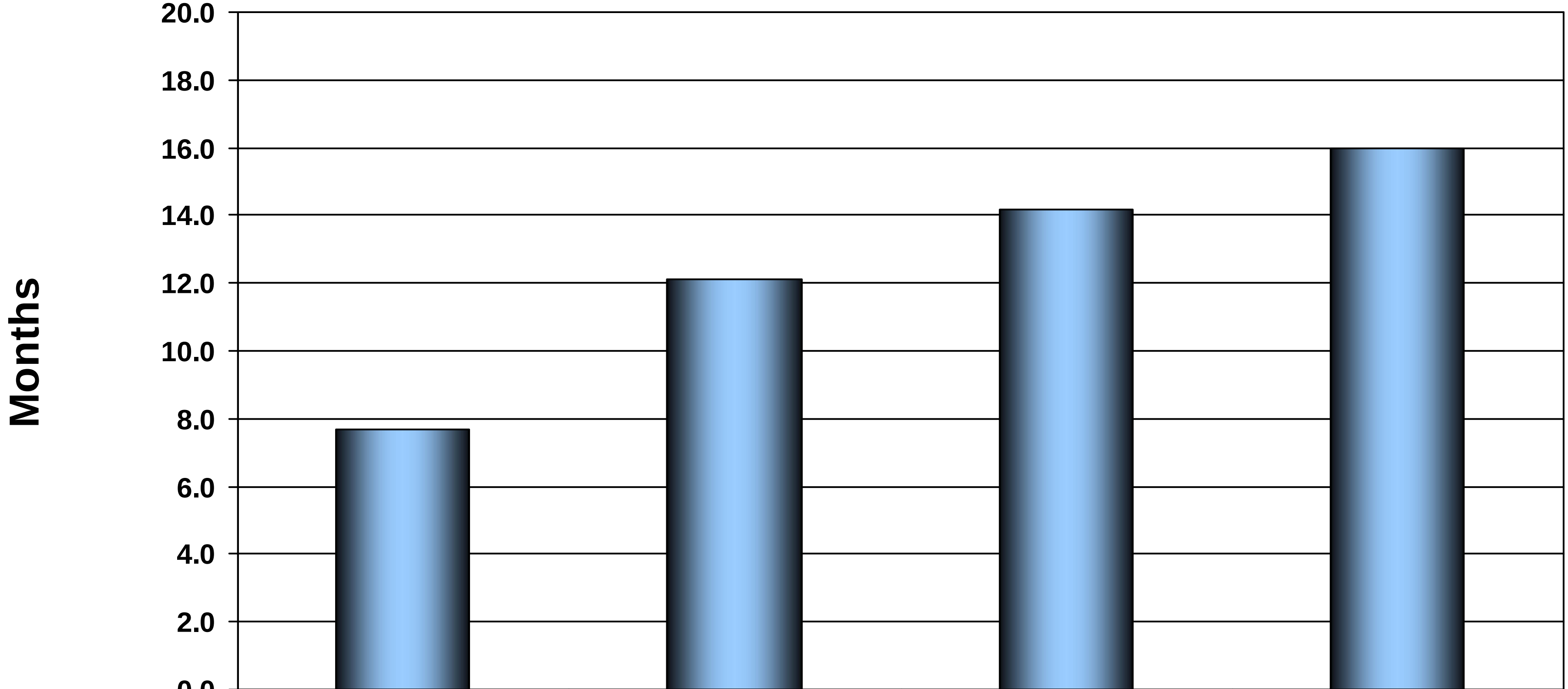
Production

Total primary development metres / month (Excludes # Sinking)



- At steady state breast requires less development than dip to generate the same ore reserves
- H1 2007 affected negatively due to strike
- Planned between 1 900 to 2 000 m per month into the future

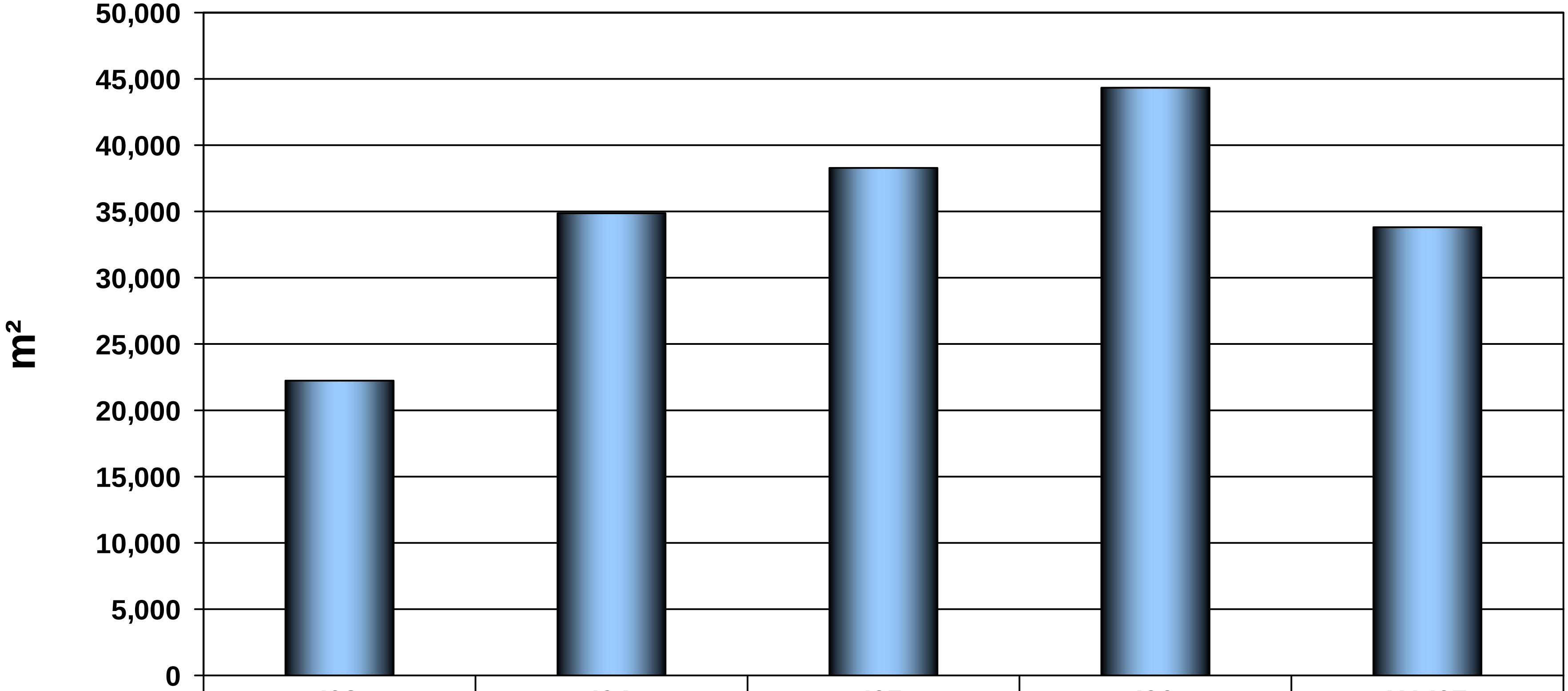
Immediately Available Reserves



	'04	'05	'06	'07
History	7.7	12.1	14.2	16.0
Target				18

- 18 month reserve expected to be achieved in 2008
- Transition to 100% underground production
- Excludes Temporary Non Available Reserves

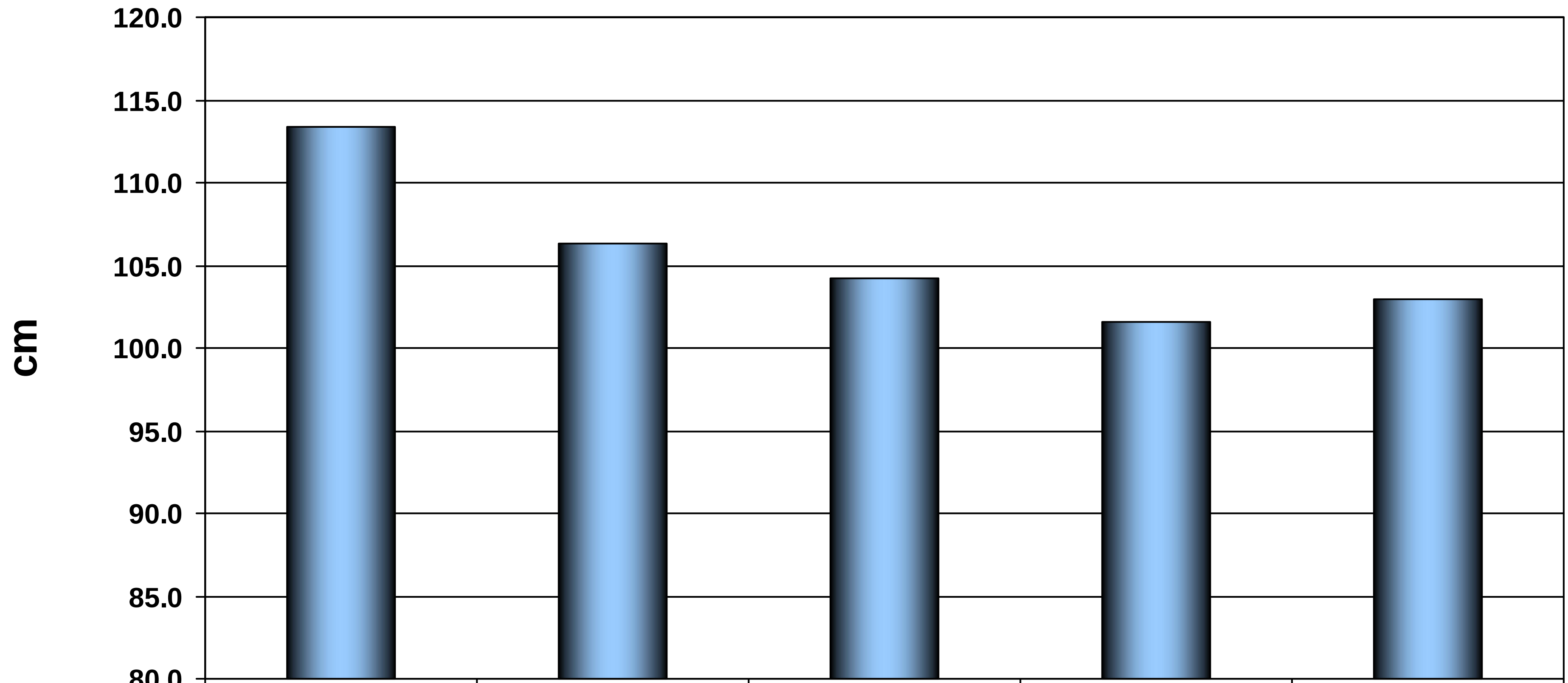
Monthly area mined (m^2)



	'03	'04	'05	'06	H1 '07
History	22,195	34,842	38,320	44,391	33,828

- H1 2007 affected negatively due to strike
- In steady state the production is planned at 50 000m^2 / month to be achieved in 2008

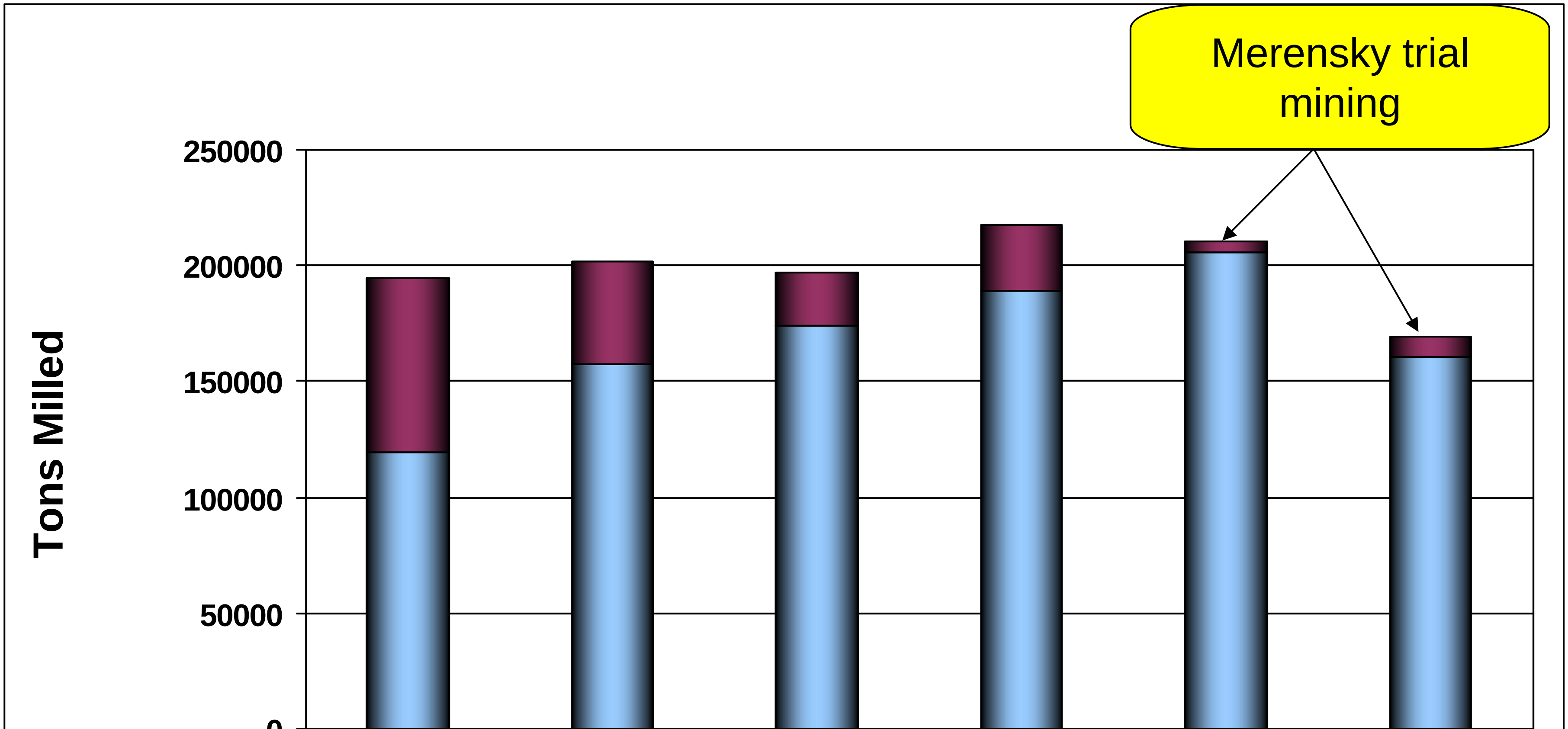
Stoping width



	'03	'04	'05	'06	H1 '07
History	113.4	106.3	104.2	101.6	103.0

- **Steady state mine average planned at 103cm for 2008 and 2009**

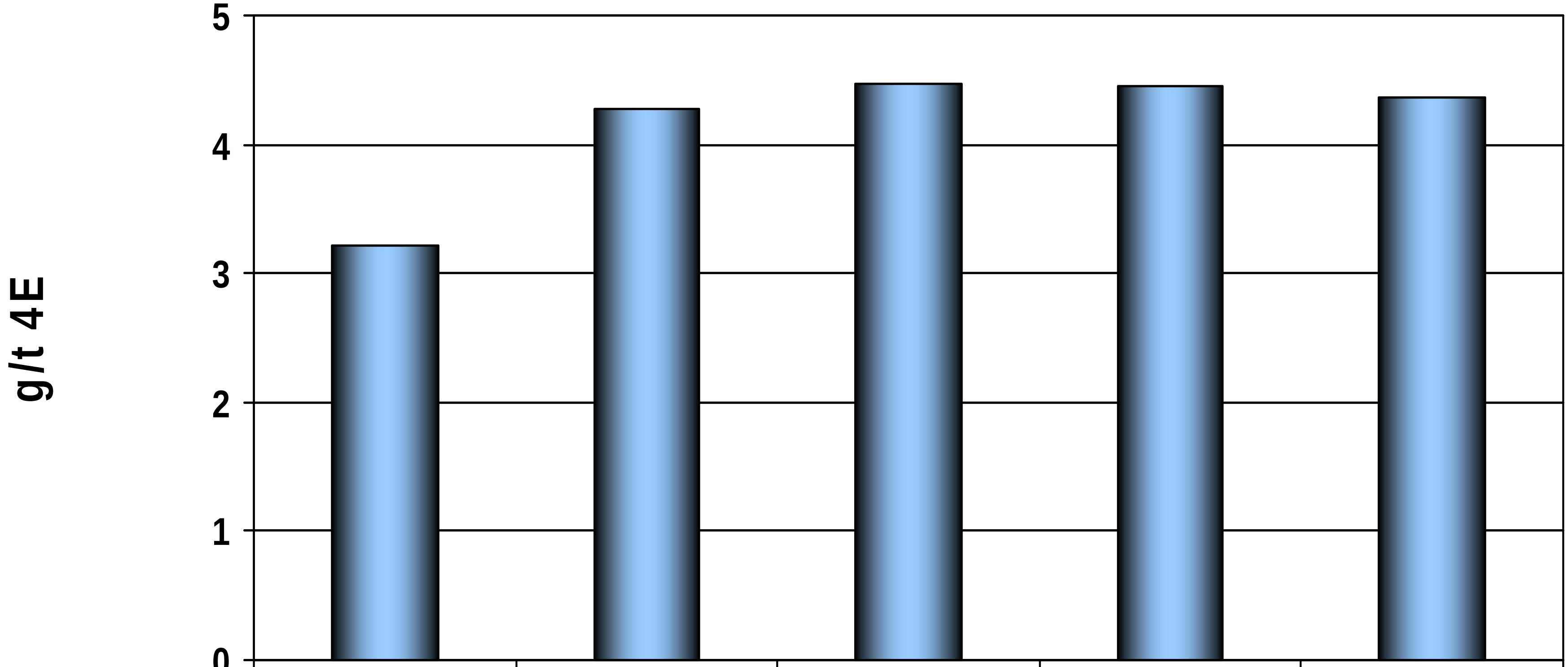
Average Tons Milled per Month



	'02	'03	'04	'05	'06	H1 '07
Other Sources	75,545	44323	22886	28094	4,843	8,956
HG UG2	119,455	157,427	174,114	189,156	205,824	160,211

- H1 2007 affected negatively due to strike
- In steady state the production is planned at 240 kt/ month to be achieved in 2008

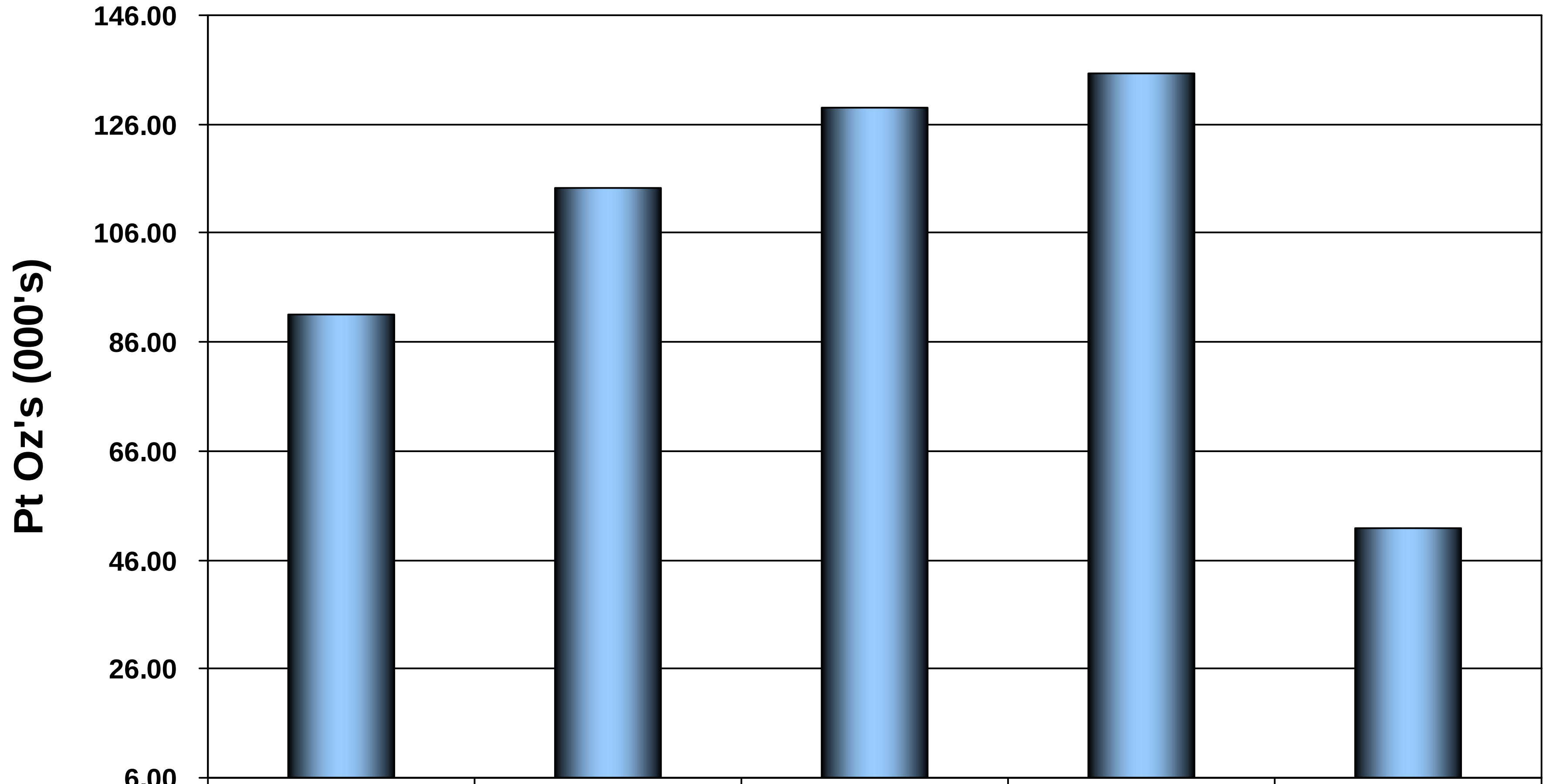
Built-up Headgrade



	'03	'04	'05	'06	H1 '07
UG2 HG BUH	3.22	4.28	4.47	4.46	4.36

- Head grade at 4.5 g/t will be achieved when stoping reaches full production

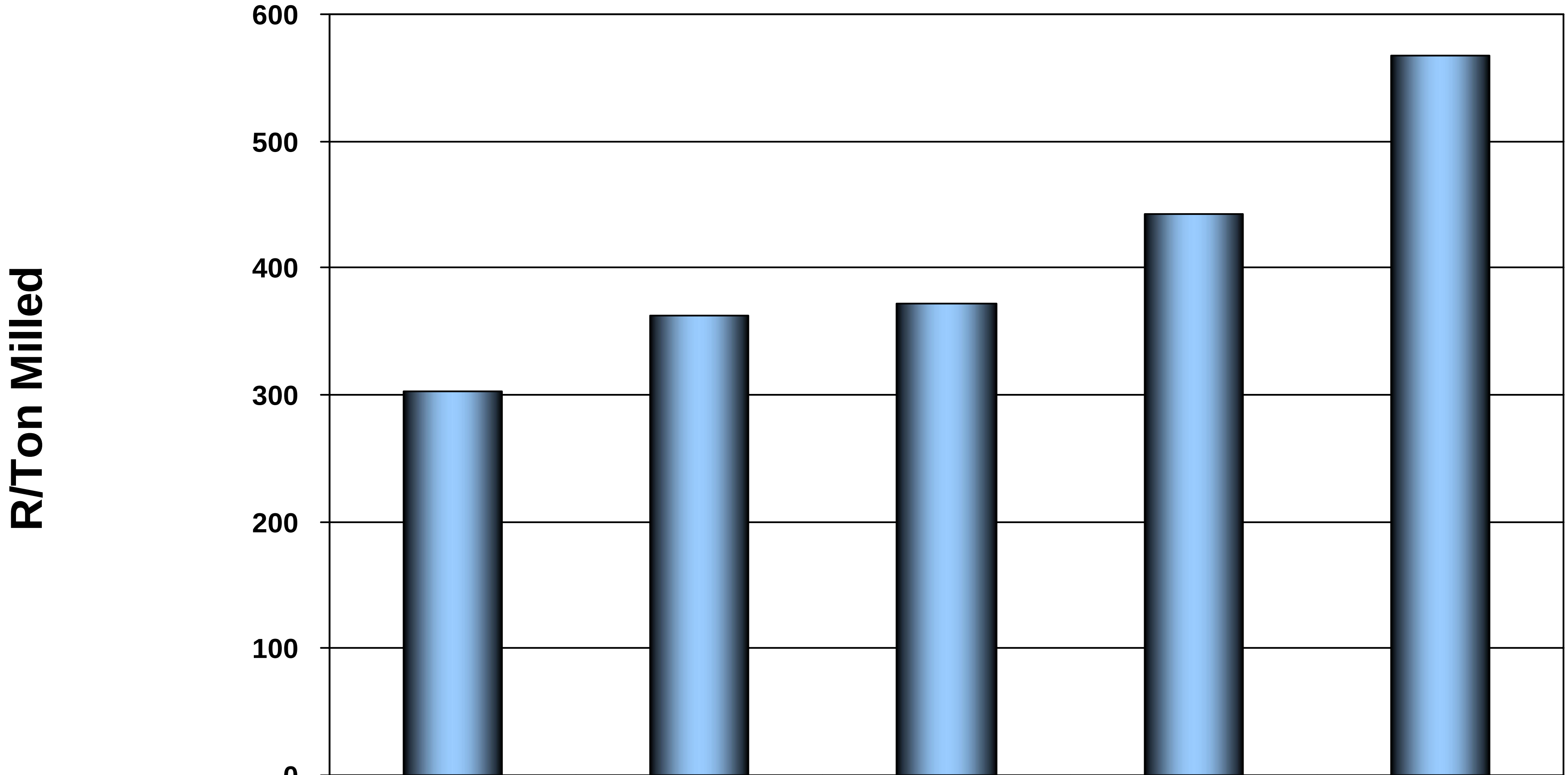
<u>*Equivalent refined Pt oz / annum*</u>



	'03	'04	'05	'06	H1 '07
History	91.00	114.20	129.00	135.20	51.8

- H1 2007 affected negatively due to strike
- In steady state the Platinum profile is planned between 150 and 155 koz/annum

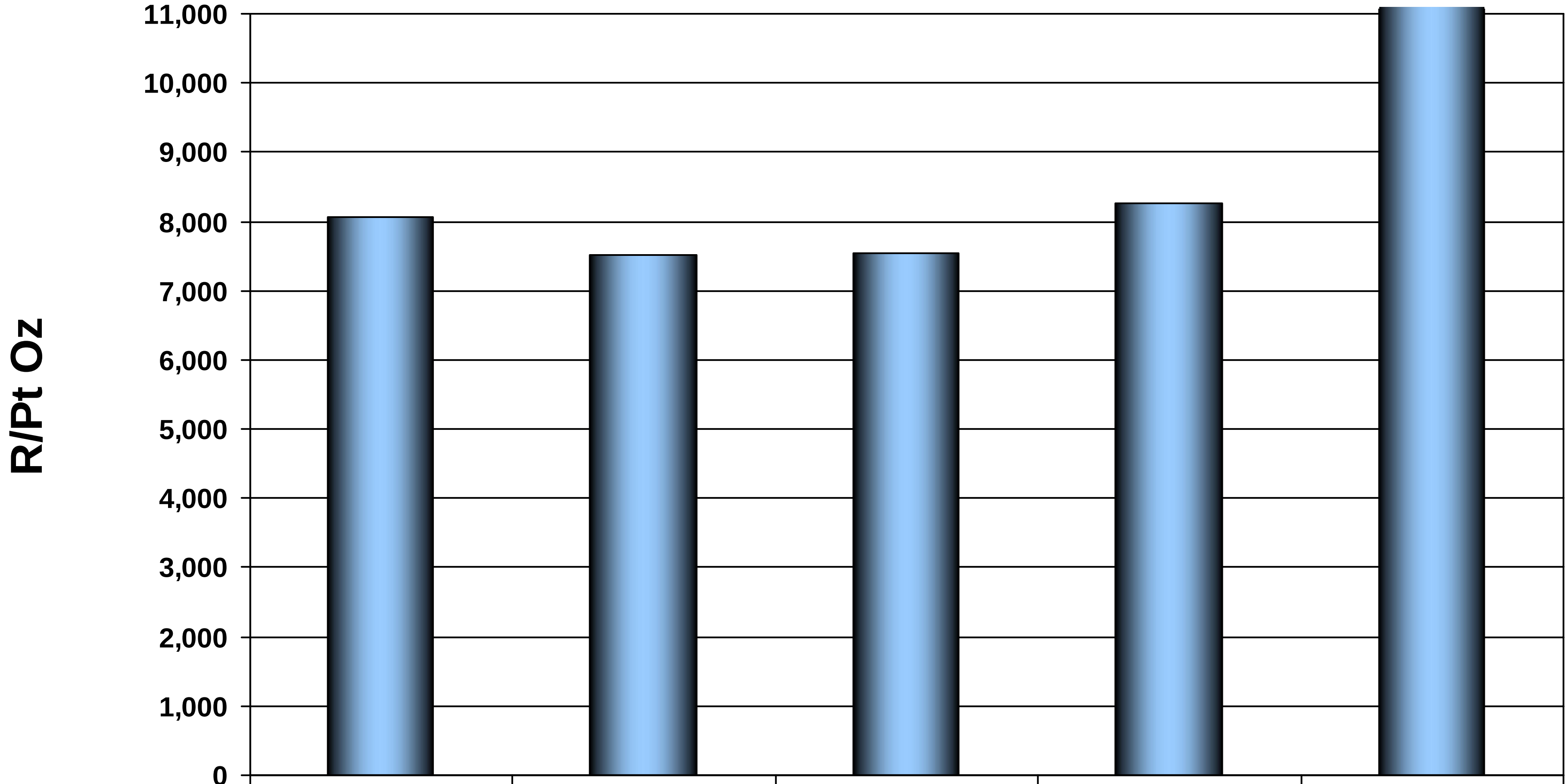
Cash cost / ton milled



	'03	'04	'05	'06	H1 '07
Cash Cost/Tons Milled	303	363	372	442	567

- H1 2007 affected negatively due to strike

Cash cost / equivalent refined Pt oz



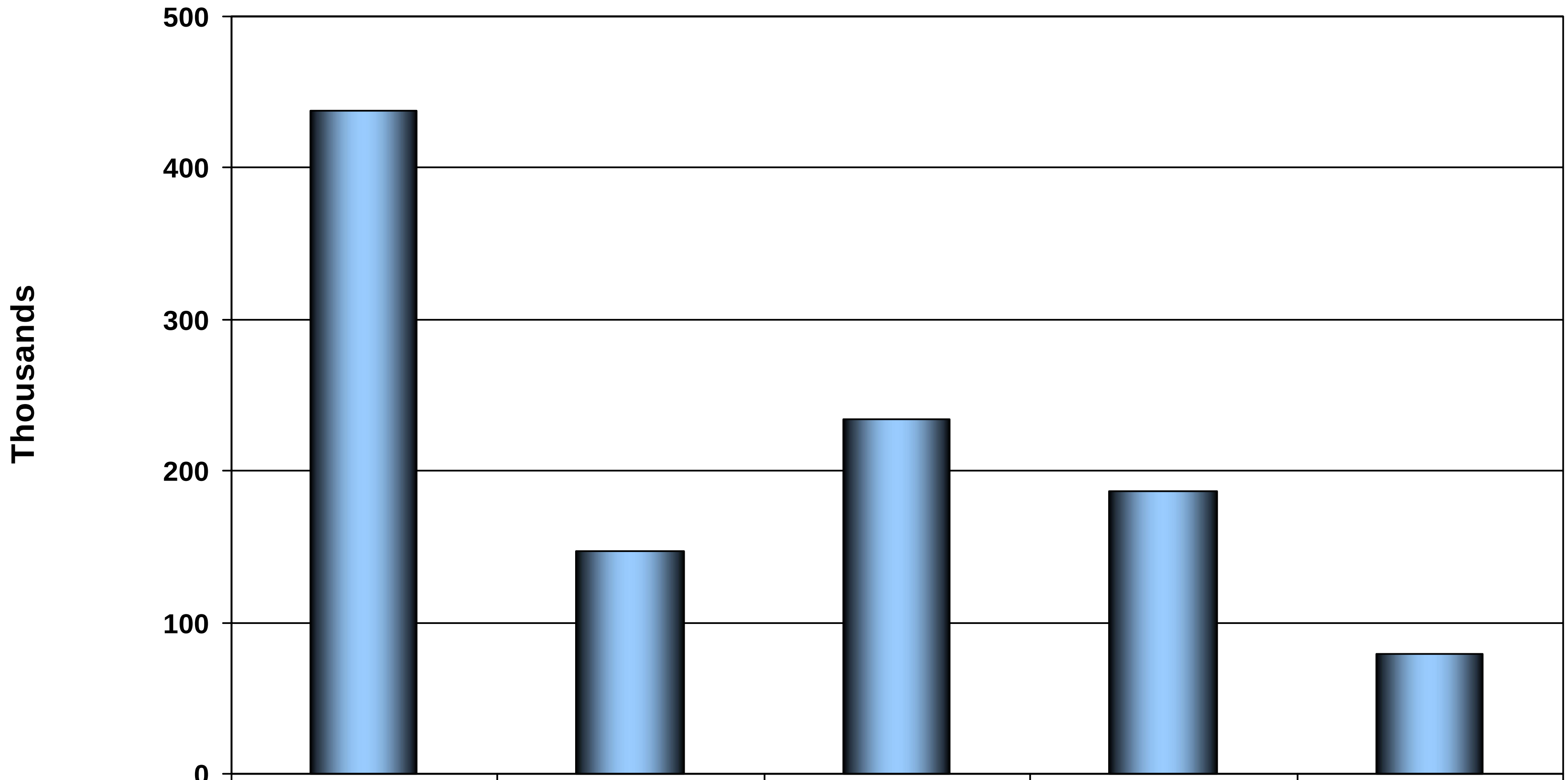
	'03	'04	'05	'06	H1 '07
Cash Cost/Pt Oz	8,057	7,515	7,532	8,261	11,095

- Lower platinum content of Modikwa ore results in higher unit cost per Pt oz, comparable cost per PGM oz (44.46% Platinum)
- H1 2007 affected negatively due to strike

Operating costs

- Current cash costs per ton milled and Pt oz high as build up continues.
- Drivers of cost reduction
  - Volume increase
  - 4 mining areas to 2
  - 1,5m of equipped face per m face blasted
  - Novice workforce moving up learning curve
  - Less development required
  - Cost reduction initiatives

Capital expenditure (R000's)



	'03	'04	'05	'06	H1 '07
Total Modikwa	438,241	147,212	234,183	186,288	79,563

- R100m/100koz of platinum production life of mine average.
- Approximately R200m/100koz per annum for the next 4 years as capex profile is 'lumpy' when deepening

Capital expenditure

- Main Items for 2007
  - Replacement or refurbishment of mechanised fleet – R89 million
  - Merensky Trial Mining – R31 million
  - North Shaft Deepening – R51 million
  - Ore Reserves – R27 million

Employee and Community Relations

- Community relations improving with more challenges in some community groupings than others
- The 25 day strike and delayed return to Sunday work around February 2007 heightened tensions but situation is back to normal
- Training programmes for learner miners and supervisors resulting in improved supervision
- Implemented and achieved 38% of the HDSA in management positions
- SED expenditure of approximately R 8m in 2007

Key business issues

- Improved safety performance
- Achieve planned volume increase
- Smooth transition from down dip to breast stoping and moving drives into footwall
- Further improve efficiency of the mechanised development and tramming
- Improve efficiencies of stoping teams
- Steady state production will be achieved in 2008

END