

Analyst and Media Visit

Phakisa /Tshepong

26 May 2006

LOCATION







PHAKISA PROJECT



PHAKISA PROJECT VISION

Project Team Vision

Safety:

Zero fatal incidents, overall improvement of safety performance of 5 %

per year

Project:

- Completion of the Phakisa project on time within budget to world class standard.
- •Increase in SAMREC reserve ounces.
- •To give value to our stake holders.(Employees parent company share holders, community & government)



PHAKISA PROJECT VISION

Project Team Vision (continued)

- Introduce new technology
- Implement a culture of people wellness
 - Best training (Self Directed Work Teams)
 - Safety & Health (HIV awareness, safe behavior)

Implement new mine occupational hygiene conditions

- 26°c wet bulb temperatures on the face
- Meeting the occupational hygiene milestones as set out by the D.M & E.
 (Noise induced hearing loss, silicosis prevention)

PHAKISA AREA

HARMONY







Project Goal:

"To hoist 90 000 tons of ore per month producing 648 kg at R425 / ton (2005/6 m/terms) by May 2010"



PHAKISA PROJECT COMPARISON OF NPV'S

Gold Price (kg) R 92 000 R 100 000 **R 105 000** R 110 000 R 120 000

NPV @ 7.5% (MILLIONS)	IRR
R 1,327m	26%
R 1,729m	30%
R 1,980m	32%
R 2,230m	34%
R 2,732m	38%

2005/6 Terms

FINANCIAL INDICATORS (R'MILLION)

HARMONY





PHAKISA PROJECT NAME PLATE

Name Plate: - (Sept'05/06)

Production Parameters (Ave LOM)

R/Kg Au	R/Kg	59310
\$/Oz @ R6.50:\$1	\$/Oz	284
R/ton	R/ton	425

Monthly Production (Ave @ Full Cap)

	Kg	Kg	648
	Oz	Oz	20833
	Dry Tons Milled	t/mth	88916
	Recovered Grade	g/ton	7.29
1 st	Gold Production		May 2008



PROJECT PROJECT OBJECTIVES

Project Objectives

Project started .	July 2003		
Schedule	52% vs. 53% planned		
• First revenue		May 2008	
Full production		May 2010	
 Completion of the 	ne Project	February 2009	
Cost	54% vs. 62% planned		
Budget cost		R397.5m	
 Final Estimated 	Cost	R 644.1m	
Spent to April 2	006	R 347.8m	



PHAKISA FINANCIAL STATUS

Annual Capital Expenditure Profile

Table (R million)

	2004	2005	2006	2007	2008	2009
Actual Sunk	117.3	115.9	114.5			
Forecast			49.6	143.1	87.2	16.5
Total	117.3	115.9	164.1	143.1	87.2	16.5

PHAKISA PROJECT END 2006

HARMONY



PHAKISA PROJECT END OF PROJECT

HARMON





PHAKISA SURFACE LAYOUT



PHAKISA PROJECT TECHNICAL





HARMONY INNOVATION

BULK MATERIAL HANDLING SYSTEM 55 LEVEL



PHAKISA PROJECT RAIL-VEYOR

THE SOLUTION:

A WORLD-FIRST U/G RAIL-VEYOR SYSTEM





LAYOUT OF TRAMMING HAULAGE ON 55 L

The tramway from Phakisa to Nyala is designed to support the production profile of

115 000 tons per month (Design capacity 135 000 tons per month, main constraint, man/material winder)

NYALA



3# - VENT SHAFT

Conventional bulk handling systems, locomotive or conveyors, not only deemed to be expensive to install and maintained, but was not practical to install at high risk profiles.



PHAKISA PROJECT RAIL-VEYOR

CHARACTERISTICS

- Safer low fire and accident risks
- Combines the best features of a conveyor and rail systems.
- Conveys material as a conveyor with high flexibility and increased capacity possibility.
- Negotiate curves as a rail system.
- No extensive access development required for maintenance.
- Automated system with remote control.
- Tip, load and move faster than conventional rail and conveyor system



PHAKISA PROJECT RAIL-VEYOR

SUMMARY OF THE THREE SCENARIO'S

	Rail	Conveyor	Railveyor	
	system	system	system	
Initial Capital	R 31.186 m	R 30.620 m	R 21.116	
Installation Period in months	25	18	12	
Operating cost R/ton	R 5.68	R 3.58	R 2.51	
Availability	70%	85%	98%	
Flexibility (increase capacity)	0%	120%	250%	
Efficiency (Load factor)	80%	100%	100%	

HARMONY

PHAKISA PROJECT RAIL-VEYOR



HARMONY

PHAKISA PROJECT RAIL-VEYOR

External drive station @ 367m spacing



HARMONY

PHAKISA PROJECT RAIL-VEYOR



Train going up the tipping loop



PHAKISA PROJECT RAIL-VEYOR



Tipping at 3-5 m/s



PHAKISA PROJECT RAIL-VEYOR





PHAKISA PROJECT RAIL-VEYOR Testing the double track





Other New Mine Technology includes:

- Electric Rockdrills for stoping
- New generation universal drill rigs for development
- Minimise the use of compressed air throughout the mine
- Maximise position efficiency of fridge plants
- Employ Vapour Mist or Fogger system for dust suppression
- Productivity improvement by reducing reject temperature to from 29° WB to 26° WB.
- Minimum 20 lux Lighting through out the mine, stoping & development
- Light weight Cap lamps
- All Loco's will comply with RBE Code of practice
- D-log and UD-slam to extend the peoples services centre to the work face with video and voice capabilities.
- High speed settler







Roof Support Drill Rig

Development End Drill Rig

















Tip cover with Fogger System for dust allaying





New cordless LED cap lamp







Loco complying to RBE Code of Practice







PHAKISA PROJECT LABOUR BUILDUP





TSHEPONG SUB 66 PROJECT





Project Goal:

"To hoist 48 560 tons of ore per month producing 350kg at R433 / ton (2005/6 m/terms) by July 2008"



TSHEPONG SUB 66 AREA



NAME PLATE



Ρ

Name Plate: - (Sept'05/06)

roduction Parameters (A	ve LOM)	
R/Kg Au	R/Kg	60076
\$/Oz @ R6.50:\$1	\$/Oz	287
R/ton	R/ton	433

Monthly Production (Ave @ Full Cap)

Kg	Kg	350
Oz	Oz	11253
Tons	t/mth	48560
Recovered Grade	g/ton	7.21
1 st Gold Productions		August 2006

PROJECT OBJECTIVES



Project Objectives

Project started April 2003

Schedule 59% vs. 64% planned

- August 2006 First revenue
- Full production
- Completion of the Project
- Completion of the Sinking the Decline
- Cost 61% vs. 65% planned
- Budget cost
- Final Estimated Cost
- Spent to February 2006
- Balance

- **July 2008**
- February 2008
- December 2006
- R280.4m
- R 280.4m
- R 173.6m
 - R 106.7





Technical Description

- The twin decline system extends from 65 level to 72 level.
- Total length of 1164m
- Open mining levels 69 and 71.
- The Material decline Belt conveyor and monorail system.
- The Chair-lift decline Transportation of men.



CONFIGURATION MATERIAL DECLINE



MATERIAL DECLINE 6 X 4 Contains the conveyor for rock handling and Mono-Train for material handling.





FROM THE MONO-TRAIN CAB



MACRO SCHEDULE

HARMONY

Macro schedule

Mining Development 55%

Decline Access development 82 % completed

69 L Access Development 66% completed

X/C 98 & 93 in progress, X/C 95 & 96 completed

71 L Access development 19% Completed

71 station and tipping x/c completed.

Raise development 16%

69 raise 95 73%, 69 raise 96 55%

Engineering 64%

Conveyor 70%

Monotrain system 70%

Water distribution 60%

Rock handling 45%





Sub 66 2nd Access Haulage of 1.5 km Equipped with rail line

MILESTONES

HARMONY

Milestones for next year

Mining Development

Complete sinking the decline

Raise bore 69-71 ore passes

Complete 69 L& 71 L Access Development

Completed 3 raise lines

Raise development

Completed 4 raise lines

Engineering

Complete Conveyor

Complete chairlift

Complete Water distribution 71 level

PROJECT STATUS





FINANCIAL STATUS



Annual Capital Expenditure Profile

Table (R million)

	2003	2004	2005	2006	2007	2008
Actual Sunk	32.8	66.6	40.6	38.0		
Forecast				17.4	55.0	29.9
Total	32.8	66.6	40.6	55.4	55.0	29.9

No budget overrun is foreseen for the project, only a cash flow shift from 2006 to 2007

GOLD RECOVERED SUB 66 PROJECTS

HARMONY





COMPARISON OF NPV'S

Gold Price (kg)	NPV @ 7.5% (MILLIONS)	IRR
R 92 000	R 738.27	32.4%
R 100 000	R 914.04	36.2%
R 105 000	R 1 023.89	38.4%
R 110 000	R 1 133.53	40.7%
R 120 000	R 1 353.24	44.3%

2005/6 Terms

FINANCIAL INDICATORS







SYNERGY PHAKISA & TSHEPONG



TSHEPONG/PHAKISA MINE

- Create a world class gold mine
 - From a proven track record
 - Known mining conditions
 - Modern infrastructure
- Compared to other projects low risk
- Production built-up low risk and bankable

TSHEPONG & PHAKISA AREA COMBINED





TSHEPONG & PHAKISA TOTAL RESOURCE & RESERVE

<u>Resources</u>

- 166.5m metric tons at 9.11g/t for 1516 tons gold
- 183.5m short tons at 0.266oz/t for 48.7m oz gold

Reserves

- 43.2m metric tons at 7.20g/t for 311 tons gold
- 47.6m short tons at 0.210oz/t for 10.0m oz gold

(Current @ R92 000/kg)



TSHEPONG & PHAKISA TOTAL PRODUCTION

Monthly Production

Tons Milled	245 000
Rec. Grade	7.07
Gold Produced (kg)	1 733 (55 717oz)
R/kg	62 800
\$/Oz @ R6.50:\$1	301
R/t	445

Annual Ounces





TSHEPONG & PHAKISA CONNECTED





TSHEPONG & PHAKISA AREA COMBINED

Immediate opportunities .

- Dumping of water via 55 level to Nyala shaft
- Ventilating Tshepong east block from Phakisa
- Power back-up supply from Tshepong to Phakisa
- Sharing of infra structure i.e. Control room, equipment, management, skilled people, etc. (ecomomies of scale)
- Inter shaft rock transfer via 66, 69, 71 level.
- Reserve optimisation.

TSHEPONG & PHAKISA POSSIBLE FUTURE EXPANSIONS



TSHEPONG & PHAKISA CONNECTED







TSHEPONG & PHAKISA AREA COMBINED

Future Opportunities

- Improved Ventilation at lower levels.
- Possible rock transfer from Phakisa to Tshepong shaft, this will eliminate the 5 km tramming to Nyala.
- Production synergies.
- Exchange ground to improve the overall NPV.



TSHEPONG & PHAKISA EXCHANGE GROUND FOR EARLY GOLD



PRIVATE SECURITIES LITIGATION REFORM ACT SAFE HARBOR STATEMENT

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Phakisa & Tshepong