



Knobbs Mathenjwa

Professional Summary

Ten (10) years Exploration, 15 years Mining

Experience

Head of Geology Department

HARMONY GOLD MINE (Doornkop Shaft)

January 2013 – 2022

- Updating and signing-off of Geological models.
- Management of grade control.
- Management of drilling.
- Management of the Geology department.
- Liasing with other heads of departments.
- Presenting geology to the general manager.

Mineral Resources Manager

VILLAGE MAIN REEF

September 2011 – July 2012

- Updating and interpretation of Geological models
- Geotechnical control
- Evaluation models- geostatistics (block kriging)
- Management of Resources and Reserves.
- Operating volumes- grade tonnage curves
- Cutoff grade policy-
- Quality assurance
- Mine Call Factor management
- Grade and stope width control
- Dilution control

CENTRAL RAND GOLD

September 2011 – July 2012

Divisional Mineral Resource Manager – (May 2009 – August 2011):

- Involved in preparing the business unit plan for the geology department to fit into the overall framework of agreed corporate objectives.
- Coordinates the preparation of the competent persons report for the business unit.
- Ensures the achievement of high standards of performance by the Company in the management of health and safety environment and its compliance to Mine Health and Safety Act, particularly within the geology department.
- Administer, train and ensures that all corporate governances in regard to budgeting, administration, human resources, standards, HSE are in place and maintained at all levels.
- Ensure internal and external audits are carried out on all geological activities and that the recommendations of the audit are acted upon.



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- Reconcile the department's budgets and prepare monthly as well as quarterly reports as per company's reporting standards.
- Sets up exploration infrastructure offices as per agreed business unit plans.
- Compile and prepare all annual prospect progress report to Department of Mineral Resources as well as monthly to quarterly health and safety environment reports for exploration as well as mining geology.
- Provide monthly and quarterly summaries, reports on geology department as per Central Rand Gold reporting standards.

Senior Geologist (Mineral Resources) - (February 2008 – April 2009):

- Monitor technical and operational developments including computing applications as well as standards in all geological activities to ensure that Central Rand Gold is at the forefront of knowledge and able to take full advantage of appropriate improvements.
- Compilation of geological plans using data which is collected from underground or surface.
- Identification of payable areas for mining through mapping and sampling.
- Grade control through the sampling of underground workings.
- Sampling of ex-resource material including sweepings and vamping.
- Management and control of stockpile yard and ROM pad.
- Metal accounting (mineral resource management).
- Training and coaching as well as mentoring.
- Drilling to establish sufficient resources on a rolling 6 month basis.
- Drilling to define new resources in the adjacent mining areas and upgrading of resources.
- Development of the codes of practice.
- Presenting to the board of directors in the absence of consulting geologist.
- Used drilling and other sample information to create, build geological as well as mineral resource models employing computer based resource evaluation techniques for geological, drilling and all mine planning.
- Contributed to the achievement of high standards of performance by the Company in the management of safety and health environment, particularly within the position's discipline.
- Follow up of exploration targets.
- Updated concession geology through mapping of pits, trenches and soil geochemistry logs.
- Supervised sampling activities and drilling programmes.
- Drill hole logging.
- Sections plotting and interpretation.
- Maintenance of quality control systems.
- Trained and directed junior staffs in all facets of exploration field procedures.
- Performance evaluation and appraisal for junior staffs.

Senior Geologist (Exploration) – (July 2007 – February 2008):

- Enforced the company's EMP regulations regarding drilling, trenching and other ground disturbances related to exploration.
- Ensured that achievement of high standards of performance are met by the Company regarding management of safety and health environment.
- Planned and supervised exploration programme regional and local encompassing green as well as brown field exploration, target generation and development drilling.



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- Maintenance of exploration database.
- Managed and monitored sampling as well as assaying quality control systems.
- Interfaced with building and updating resource models using world best practice computer based resource evaluation techniques for medium to long term planning.
- Presentation of exploration activities in the form of plans and section for auditing purposes and management perusal.
- Involved in budgeting for exploration programmes in the short to medium term.
- Monthly reporting on exploration programmes and terminal reporting on prospects.
- Liaised with communities within the working areas on exploration activities and schedules, labour requirements as well as crop compensation to foster good relations in the working communities.
- Trained and directed junior technical staff in all facets of mineral exploration programmes.
- Performed job appraisal on subordinates and junior technical staff.

HOD

KLOOF MINE – GOLD FIELDS LTD

September 2000 – June 2007

- Drawing of business plan and monitoring of the results against it and, submit feed forward action plan.
- Directed and controlled a development programme to ensure replacement of depletion of ore reserves as per business plan.
- Managed technology by investing, customising and applying the available, applicable cost effective technology that will facilitate as well as enhance the total efficiency of the department.
- Strategic planning.
- Formulated and implemented strategies necessary to build as well as maintained a department.

LIBANON GOLD MINE

December 1995 – September 2000

Senior Geologist – (January 1999 - September 2000):

- Detailed geological stope and developed data gathering as well as analysis with the main objective of providing advice on geological problems affecting mining operations.
- Planned and managed exploration as well as cover drilling.
- Utilized computer packages such as datamine and surfer to model the orebody in preparation of ore reserve evaluation.
- Valuation of the orebody by statistical means.
- Target generation.
- Short- intermediate and long term mine planning.
- Trained and supervised junior staff members.



Mine geologist – (December 1995 - December 1998):

- Geological mapping.
- Management of diamond drilling and problem solving.
- Structural interpretation.
- Supervision and training.
- Projects.

Exploration Experience:

OBERHOLTZER EXPLORATION UNIT:

December 1995:

- Collection and interpretation of sedimentological data from boreholes.

BUSHVELD COMPLEX

April 1991 – December 1994:

- Reconnaissance and detailed mapping.
- Layout grids.
- Trenching and sampling.
- Soil and hard rock sampling.
- Planning of drilling and scheduling.
- Supervision of drilling contractors.
- Core logging and sampling.
- Data plotting, interpretation and target generation.
- Camp administration

BARBERTON MOUNTAIN LAND

November 1989 – March 1991:

- Reconnaissance and detailed structural mapping.
- Stream sampling.
- Soil and hard rock sampling as well as Drilling.
- Core logging and sampling.
- Geochemical and structural interpretation.
- Camp administration.

PONGOLA SUPERGROUP (Vryheid – Moolman Area)

- Reconnaissance mapping.
- Hard rock sampling.

NATAL MOBILE BELT

November 1988 – October 1989:

- Base metal exploration including reconnaissance and detailed mapping.
- Ridge and spur sampling.



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EDUCATION

Matric

Edendale Technical College

B.Sc. in Geology and Mathematical Statistics

Wits University : 1998

B.Sc. Hons (Geology)

Wits University : 1995

GDE

Wits University : 2010