Geo-Magnetic Gold Exploration Survey Report

Greenstone Belt Tracing & Shaft Positioning Assessment

African Gold Recovery

Executive Summary

African Gold Recovery conducted a geo-magnetic exploration survey using a Mega Detection instrument to trace and identify the continuation of a gold-bearing greenstone belt adjacent to a nearby operating mine currently producing favorable gold results.

The purpose of the exploration program was to:

- Identify the geological continuation of the mineralized belt
- Trace structural alignment and mineralized zones
- Determine the most suitable shaft sinking position
- Reduce exploration uncertainty before mining development

The survey successfully identified the directional trend of the greenstone belt structure extending toward the targeted exploration block. Based on the interpreted survey data and field observations, a recommended shaft position was marked for future underground access and gold exploration development.

Exploration Equipment Used

Mega Detection Geo-Magnetic Survey Instrument

The exploration survey utilized a Mega Detection geo-magnetic detection instrument designed for mineral exploration and subsurface anomaly tracing.

The equipment was used to:

- Trace geological structures
- Detect magnetic anomalies
- Identify possible mineralized zones
- Follow the continuation of the adjacent productive greenstone belt
- Assist in structural interpretation for shaft positioning

Geological Background

The exploration area lies within a known greenstone belt environment associated with historical and current gold mineralization.

The adjacent mining block currently operating within the same geological structure has demonstrated:

- Favorable gold mineralization
- Productive ore zones
- Strong structural continuity
- Proven mining potential

Based on regional geological interpretation, it was believed that the mineralized belt continues through the surveyed block area.

The geo-magnetic survey was therefore conducted to confirm:

- Structural continuity
- Belt direction
- Possible mineralized extensions
- Future shaft access points

Survey Methodology

Exploration Procedure

The exploration team conducted:

- Ground geo-magnetic scanning
- Directional tracing of structural anomalies
- Surface geological observations
- Belt alignment interpretation

- Target zone marking

The survey focused on tracing the directional continuity of the adjacent productive belt into the exploration area.

Anomalies and structural alignments interpreted during the survey were marked and mapped to assist in future mining development planning.

Survey Findings

Key Observations

The survey identified:

- Continuation trends of the greenstone belt structure
- Magnetic responses consistent with structural mineralization
- Favorable geological alignment extending from the adjacent productive mine
- Potential target zones suitable for shaft positioning

The interpreted structural trend suggests continuity of mineralized formations across the exploration area.

Recommended Shaft Position

Based on:

- Geo-magnetic tracing
- Structural interpretation
- Geological alignment
- Adjacent mine orientation

A proposed shaft sinking position was marked along the interpreted belt direction to allow:

- Future underground access
- Ore body testing
- Geological verification
- Trial mining activities

Advantages of the Geo-Magnetic Exploration Survey

1. Cost-Effective Exploration

The survey provides an affordable preliminary exploration method before expensive drilling programs are undertaken.

2. Structural Belt Tracing

Allows the tracing of greenstone belt continuity and structural alignment across exploration blocks.

3. Improved Shaft Positioning

Assists in selecting favorable shaft sinking positions based on interpreted geological trends.

4. Reduced Exploration Risk

Helps minimize blind shaft sinking and improves targeting accuracy.

5. Faster Geological Interpretation

Provides rapid field interpretation of possible mineralized zones.

6. Supports Future Drilling Programs

Survey results can guide future trenching, sampling, and drilling operations.

Conclusion

The geo-magnetic exploration survey successfully traced the interpreted continuation of the adjacent productive greenstone belt into the target exploration block.

The identified structural trend and anomaly alignment indicate favorable geological conditions for future gold exploration and underground development.

Based on the survey interpretation, a recommended shaft position was marked to support future exploration and mining activities.

Further recommended work includes:

- Trenching
- Sampling
- Geological mapping
- Core drilling
- Trial shaft development
- Ore body verification

Prepared By

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Project Type

Geo-Magnetic Greenstone Belt Exploration Survey

Objective

Gold Belt Tracing & Shaft Positioning Assessment