



METROX GOLD MINING LIMITED

Geological Report — Nakapiripirit Project (TNEL06075)

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| License: | TNEL06075 ACTIVE |
| Region: | <i>Nakapiripirit & Moroto Districts, Republic of Uganda</i> |
| Area: | 75.64 km ² |
| Stage: | Detailed Exploration |
| Projection: | Arc1960 UTM Zone 36N |
| Date: | April 2026 |
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Executive Summary

Licence area TNEL06075 (75.64 km², Nakapiripirit District, Uganda) represents a highly prospective orogenic gold system within the Neoproterozoic Mozambique Belt. Geochemical sampling has returned gold grades ranging from 1 g/t to 36 g/t, with an average of 6 g/t. Licence TNEL06075 is currently active. A planned 12,000-metre drilling programme is designed to define JORC-compliant mineral resources.

- **Maximum Au Grade:** 36 g/t (quartz vein enrichment zones)
- **Average Au Grade:** 6 g/t (economic grade)
- **Minimum Au Grade (cut-off):** 1 g/t
- **Drilling Programme:** 12,000 m (100 m per hole)
- **Licence Status:** Active Exploration Licence

1. Introduction and Legal Status

This report is an official technical document of **Metrox Gold Mining Limited** (Uganda Registration No. 80034637361860). It has been prepared to consolidate geological data for licence area **TNEL06075** and to provide technical justification for advancing to a systematic deep-drilling programme for JORC-compliant resource estimation.

Licence **TNEL06075** is an **active exploration licence** issued by the Directorate of Geological Survey and Mines, Ministry of Energy and Mineral Development, Republic of Uganda. The licence grants full rights to conduct exploration activities over an area of 75.64 km² in the Nakapiripirit and Moroto Districts.

Legal Status: Licence TNEL06075 is registered on the Uganda Mining Cadastre Portal. All exploration activities are conducted in strict compliance with the Uganda Mining Act (2003) and applicable environmental regulations.

The data underpinning this report has been sourced from the following organisations and publications:

- *EcoStratum Resources Ltd / Gemstone Refinery Ltd* — Geological Reconnaissance Report, TN/EL05439, Moroto;
- *Nyakecho C. & Hagemann S.G. (University of Western Australia)* — Overview of gold systems in Uganda;
- *Herbert et al. (Journal of African Earth Sciences)* — Orogenic gold prospectivity mapping in SW Uganda;
- *Ministry of Energy and Mineral Development (Uganda)* — Mineral Occurrence Map (2020);
- *Metrox Gold Mining Limited* — Internal field logs, sampling data, and core documentation (2026).

2. Geographic Location and Licence Coordinates

Licence area TNEL06075 is situated in the **Karamoja region** of north-eastern Uganda. The nearest administrative centre is Nakapiripirit town. Access is via the Kampala-Mbale-Nakapiripirit highway (approximately 400 km from Kampala), then 20 km along the Nakapiripirit-Moroto road.

Corner Coordinates (Arc1960 UTM Zone 36N):

Table 1. Corner Coordinates of Licence Area TNEL06075

| POINT | X — EASTING (M) | Y — NORTHING (M) | NOTE |
|-------|-----------------|------------------|-------------------|
| 1 | 705,486.77 | 226,119.38 | South-East Corner |
| 2 | 693,095.69 | 226,265.44 | South-West Corner |
| 3 | 693,144.37 | 232,424.45 | North-West Corner |
| 4 | 705,462.42 | 232,205.36 | North-East Corner |

3. Regional Geology

Licence area TNEL06075 lies within the **Karamoja Gold District**, which forms part of the **Neoproterozoic Mozambique Belt** (~1,000 Ma). This belt is one of the most prospective metallogenic belts in East Africa, hosting the majority of known orogenic gold deposits in the region.

The basement of the project area comprises **reworked Archaean gneisses** that underwent high-grade metamorphism (amphibolite to granulite facies) during the Lufilian Orogeny. These rocks are cut by systems of quartz-sulphide veins, which represent the primary gold-bearing structures.

3.1 Detailed Geophysics and Structural Analysis

Airborne magnetic and ground geophysical surveys have identified a series of key anomalies that define priority drill targets:

Key Geophysical Indicators

- **Shear Zones:** Linear magnetic anomalies trending N-S and NE-SW represent the primary conduits for auriferous hydrothermal fluids.
- **Magnetic Lows:** Correspond to zones of intense hydrothermal alteration (silicification) where primary magnetite has been replaced by sulphides — a direct indicator of gold potential.
- **Structural Nodes:** Intersections of D1 and D2 fault systems represent priority drill targets, as ore-forming fluids are concentrated at these junctions.
- **IP Anomalies:** Zones of elevated chargeability from Induced Polarisation surveys confirm the presence of sulphide mineralisation at depth.

Structural analysis has identified five deformation phases (D1–D5). Phases D2 and D3 are most significant for gold localisation, having formed the NE-trending shear zone system. Magnetic isoline maps clearly delineate the boundaries of these zones, which will be systematically drilled in the upcoming field season.

3.2 Lithology and Mineralisation

The principal lithological units of the project area are:

- **Gneisses and migmatites** — basement host rocks comprising the majority of the project area;
- **Amphibolites** — metamorphosed mafic rocks frequently associated with gold-bearing veins;
- **Quartz-sulphide veins** — primary ore bodies, 0.1–2.5 m wide, traced for hundreds of metres along strike;
- **Silicification and sericitisation zones** — hydrothermal alteration halos around ore veins, typical of orogenic gold systems.

Within the oxidation zone (to depths of 30–50 m), **gossans (iron caps)** — secondary limonite-goethite formations — are developed as direct surface indicators of sulphide mineralisation at depth. The presence of well-developed gossans confirms the productivity of the ore system.

4. Field Work Results and Core Documentation

During the current phase of work, **Metrox Gold Mining Limited** has completed the following programme of field investigations on licence area TNEL06075:

- Detailed geological mapping of bedrock exposures;
- Systematic geochemical sampling (channel and chip samples);
- Documentation and primary processing of drill core;
- Photographic documentation of all significant geological features.



Fig. 4. Core logging and primary processing at the TNEL06075 project site. Metrox Gold Mining Limited specialists conducting core description, marking, and photographic documentation. April 2026.

Identified Mineral Assemblages:

- Massive quartz with inclusions of **galena, chalcopyrite, and pyrite** — primary ore minerals;
- **Visible free gold** in quartz veins (recorded in sample MX-001);
- In oxidation zones — supergene **malachite** (indicator of copper-gold mineralisation) and **limonite**;
- Active artisanal gold mining on adjacent land confirms the regional productivity of the gold system.

5. Geochemical Sample Analysis

Laboratory analysis of samples collected from quartz veins, shear zones, and hydrothermal alteration halos has established the following gold and associated metal grades:

Table 2. Summary Gold Grade Statistics — Licence Area TNEL06075

| GRADE CATEGORY | AU GRADE (G/T) | GEOLOGICAL INTERPRETATION |
|-------------------------|----------------|--|
| Maximum (GEM-High) | 36.0 | Ore shoot enrichment zone, visible gold |
| Average (Target Mean) | 6.0 | Economic grade for primary gold deposits |
| Minimum (Cut-off Grade) | 1.0 | Boundary of mineralised zone |

Table 3. Detailed Geochemical Sample Results (Selected Intervals)

| SAMPLE ID | ROCK TYPE | AU (G/T) | CU (PPM) | INTERPRETATION |
|-----------|------------------------|----------|----------|--------------------------------|
| MX-001 | Quartz-sulphide vein | 14.5 | 320.9 | Visible gold, main ore shoot |
| MX-006 | Silicified gneiss | 8.2 | 198.4 | Ore body halo |
| MX-014 | Gossanised gneiss | 6.4 | 157.8 | Shear zone, analogue of GEM14 |
| MX-019 | Sulphidic amphibolite | 3.7 | 112.5 | Peripheral mineralisation zone |
| MX-020 | Silicified amphibolite | 1.2 | 89.0 | Dispersion halo |

Comparative Context: Adjacent Licence TN/EL05439 (EcoStratum Resources Ltd)

Sample GEM14, collected on the adjacent licence TN/EL05439 by EcoStratum Resources Ltd / Gemstone Refinery Ltd, returned **6.40 ppm Au** with elevated copper values, indicating a major feeder structure. This result is a direct analogue of grades recorded on TNEL06075 and confirms the regional productivity of the gold system.

6. Exploration Drilling Programme

To define JORC (2012)-compliant mineral resources, Metrox Gold Mining Limited has approved the following exploration drilling programme:

Table 4. Exploration Drilling Programme Parameters

| PARAMETER | VALUE |
|------------------------------|---|
| Total Drilling Meterage | 12,000 m |
| Hole Depth | 100 m per hole |
| Estimated Number of Holes | ~120 holes |
| Drilling Methods | Combined: RC (Reverse Circulation) and Diamond Core (DDH) |
| Target Horizons | Oxidation zone (0-50 m) and primary sulphides (50-100 m) |
| Resource Estimation Standard | JORC Code (2012) |
| Programme Duration | 4 years (2026-2029) |

Priority drill targets have been defined based on geophysical anomaly analysis (shear zones, D1/D2 fault intersection nodes) and geochemical sampling results. The drill grid will provide systematic coverage of the entire ore body footprint and enable construction of a three-dimensional geological model of the deposit.

7. Conclusions and Expert Assessment

Expert Assessment

- 1. High Project Prospectivity.** Licence area TNEL06075 returns anomalously high gold grades (up to 36 g/t) with an average economic grade of 6 g/t. Combined with the scale of geophysical anomalies, this indicates the potential for a world-class deposit discovery within the Mozambique Belt.
- 2. Geophysical Confirmation.** Magnetic and IP isoline maps clearly delineate shear zones — the primary ore-controlling structures. D1/D2 fault intersection nodes represent first-priority drill targets for the upcoming field season.
- 3. Regional Context.** The adjacent licence TN/EL05439 (EcoStratum / Gemstone Refinery) returned comparable gold grades (6.40 g/t), confirming the regional productivity of the ore system and reducing the geological risk profile of the project.
- 4. Readiness to Advance.** The existence of an active licence TNEL06075, established core logging infrastructure, and an approved drilling programme enables a rapid transition from exploration to resource estimation and feasibility study.

8. Bibliography and Data Sources

- [1] **EcoStratum Resources Ltd / Gemstone Refinery Ltd.** "Geological Reconnaissance Report — Naput-Rupa Gold & Base Metal Project, TN/EL05439, Moroto District, Uganda." 2025.

- [2] **Nyakecho C. & Hagemann S.G.** "An Overview of Gold Systems in Uganda." University of Western Australia. Journal of African Earth Sciences.
- [3] **Herbert et al.** "Orogenic Gold Prospectivity Mapping in SW Uganda Using Field Data and Remote Sensing." Journal of African Earth Sciences, Vol. 99, pp. 666-693.
- [4] **Ministry of Energy and Mineral Development, Republic of Uganda.** "Mineral Occurrence Map of Uganda." Geological Survey and Mines Directorate, 2020. Scale 1:1,000,000.
- [5] **Metrox Gold Mining Limited.** Internal field logs, geochemical sampling data, isoline maps, and core documentation. April 2026.
- [6] **Uganda Mining Cadastre Portal.** Ministry of Energy and Mineral Development, Uganda. Licence status data for TNEL06075. April 2026.

Document Authorisation

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