

GEOPHYSICAL SURVEY REPORT
ON
MINERAL RESOURCES DEPOSITE
AT TUKUBA, KUJE AREA COUNCIL
ABUJA - FCT.

PRESENED BY:
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1.0 INTRODUCCION

Nigeria is presently faced with multiple and diverse problems. The nation's existence is confronted by agitation for resource control by some sections of the country. While on the other hand the government's quest to diversify crude oil monopolized economy is faced with numerous challenges due to inadequate geoscientific data and poor development of the solid mineral sector that stands as a credible alternative. There is, therefore, need for states and regions to re-look into their solid mineral sector, so as to acquire the necessary geoscientific information and ascertain viable available economic solid mineral deposits.

An adequate, credible and accurate data on such economic deposits can spur investors from different parts of the world to harness them for the benefits of both the investor and the state at large.

The deposits of Gold have been reported over the years by the Geological Survey of Nigeria in various parts of the state.

In an attempt to delineate new gold underlying areas so as to woo prospective investors, we carried out a preliminary geologic mapping.

This work is aimed at carrying out preliminary investigation on the geology and mineral (gold) potential of the area. We expect that this piece of information should motivate an investor into action vis-à-vis mobilizing professionals to carry out a detailed exploration cum assessment.

2.0 EXECUTIVE SUMMARY

Investigation has recently been undertaken on big scale mining lease No..... belong to mikedog and lina Nigeria Ltd. The lease is located on the Kuje area of F.C.T- Abuja, Nigeria.

The investigation was successfully induced polarization aimed at identifying areas around the lease metallic mineral (especially Gold) might be concentrated to enable commencement of big scale mining activity in the area.

Ten (10) lines each about 500meters in length, spaced at about 25meters intervals were run across the lease using a deep seeker instrumentation, geographical array to generate chargeability and resistivity as parameters of delineation of prospective area for extraction of gold in the mining lease.

Results of the presence of gold or other metallic minerals, seems to be largely confined to vein like structures striking NE – SW and dipping to the NW. The structure seems to be more widespread at depth to the south – west.

It is hereby recommended that inclined or drilling be undertaken to intersect and cut across the height chargeability vein so as to test its gold or other metallic mineral contents.

3.0 LOCATION AND ACCESSIBILITY

The investigated areas are in Kuje area of FCT-Abuja.

They lie within latitudes $6^{\circ} 58' 03.7''$ to $6^{\circ} 58' 28.4''$ and longitudes $7^{\circ} 34' 43.0''$ to $7^{\circ} 34' 53.7''$

It can easily be accessed using the kuje Tipper Garage Road. A network of foot and motorcycle tracks traverses the area and made movement within the area a bit fair.

3.1 GEOMORPHOLOGY

The escarpment which traverses from Tukuba in Kuje through the area and is the prominent topographic feature.

The investigated area is undulating rocks with a number of isolated hills/separated by peneplains.

3.2 GEOLOGY OF THE STUDY AREA.

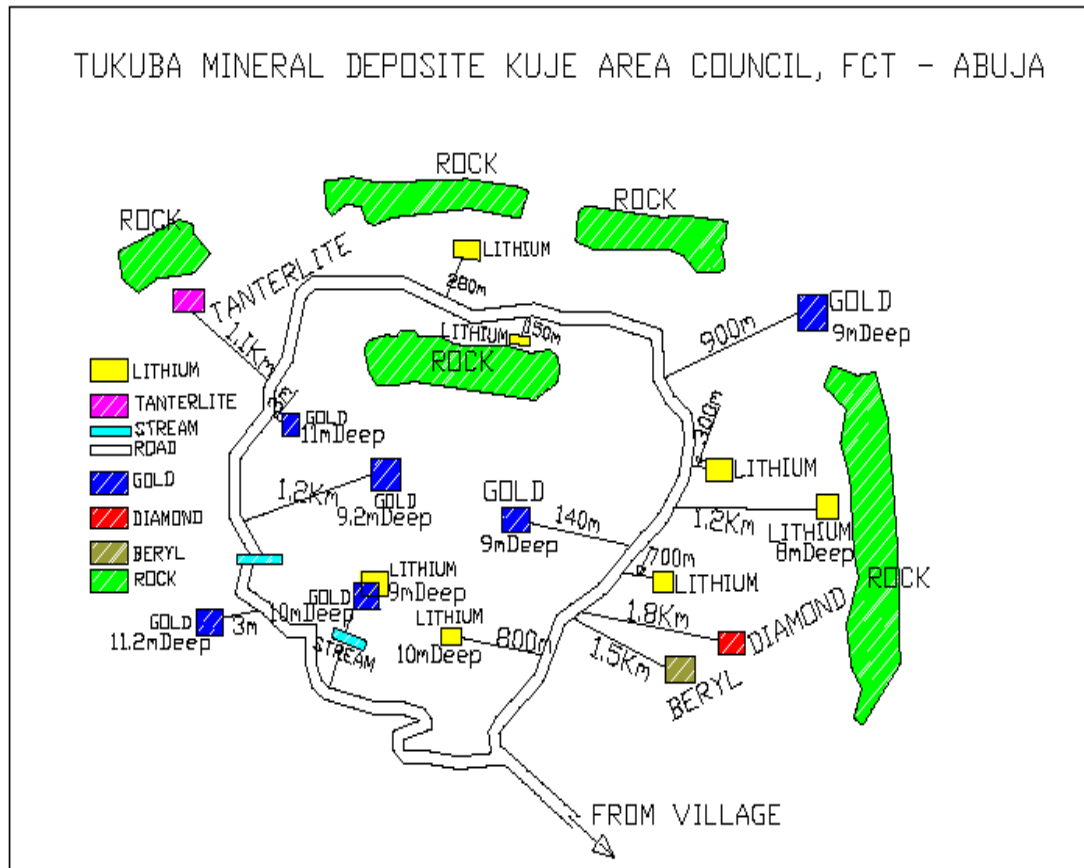
The investigated area is composed wholly of facies of the Kuje sandstone as the gold bearing formation (Mamu formation) was not exposed in the study area. The terrains is relatively flat with isolated hills consisting of medium to coarse grained,

Friable sandstones, brownish in colour, moderately sorted and cross bedded. These units are facies of the Kuje Formation.

3.3 REVIEW OF THE REGIONAL GEOLOGY OF AREA

The investigated area is situated within Tukuba in Kuje, FCT - Abuja. Which is one of the sedimentary domains in Nigeria known for its abundance in mineral resources. It is here refers to the sedimentary succession tint directly overlies the facies of the Kuje Area.

3.4 MINERAL DEPOSIT MAP



3.5 FINDINGS

Sequel to our mapping of the area, it is obvious that the area falls within the Kuje, FCT-Abuja basin; which is one of the basins known for gold bearing. It is observed that;

1. The area is on a high elevation area and underlain by rocks of the Kuje Formation which is the Formation conformably overlying the Gold-bearing Mamu formation. Even at pit of over 9m deep, the formation is still persistent. That is to say that the formation is thick in this area and gold may be gotten at a much deeper depth.

4.0 RECOMMENDATIONS

It is recommended that further exploratory method such as detailed Geophysical survey be used in the study area to further ascertain gold viability (as the underlying rocks are of the gold bearing Formations), its thickness and depth to seam.

PREPARED AND SIGNED BY

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