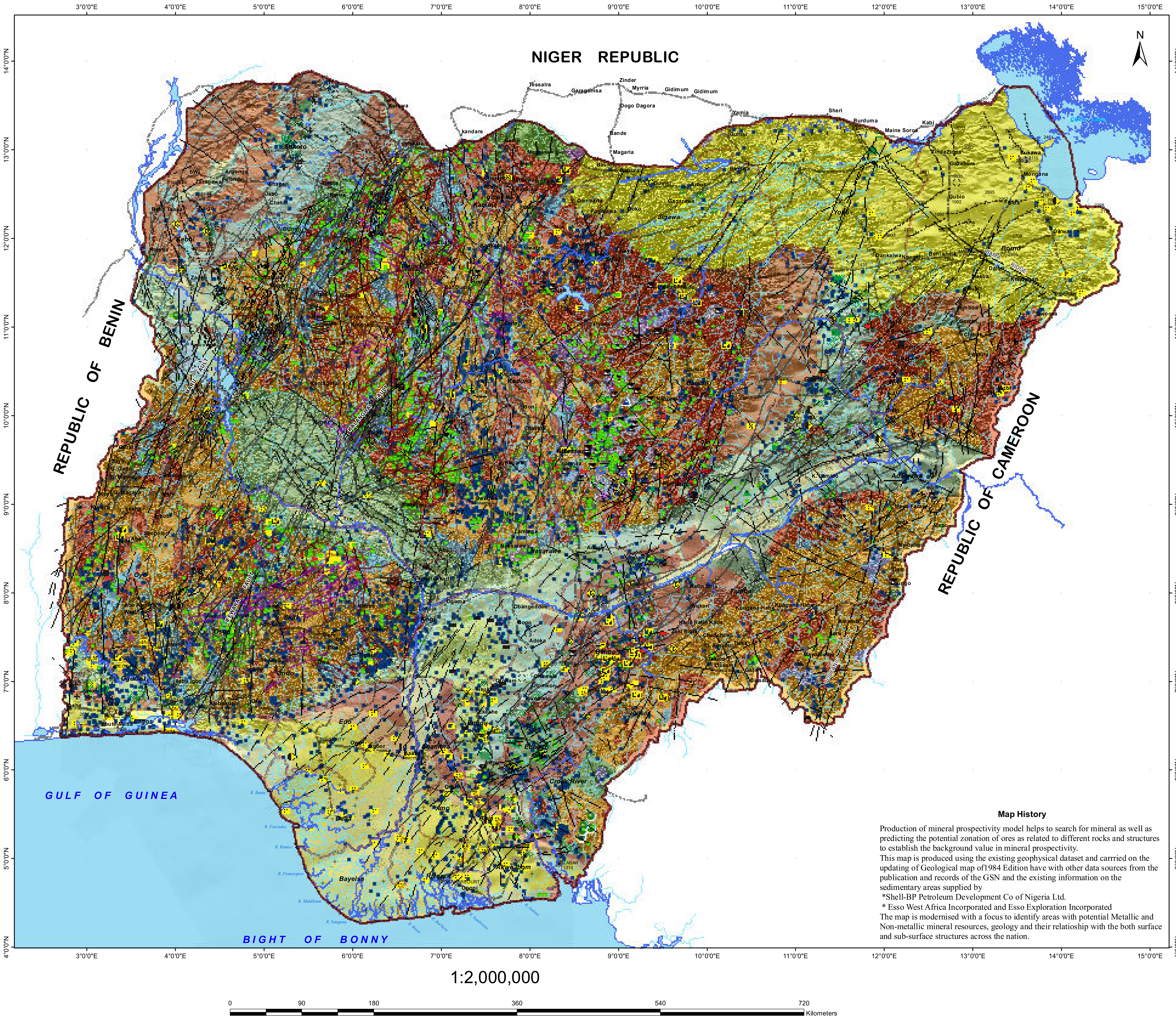

Map History

Production of mineral prospectivity model helps to search for mineral as well as predicting the potential zonation of ores as related to different rocks and structures to establish the background value in mineral prospectivity.

This map is produced using the existing geophysical dataset and carrried on the updating of Geological map of1984 Edition have with other data sources from the publication and records of the GSN and the existing information on the sedimentary areas supplied by

*Shell-BP Petroleum Development Co of Nigeria Ltd.

* Esso West Africa Incorporated and Esso Exploration Incorporated

The map is modernised with a focus to identify areas with potential Metallic and Non-metallic mineral resources, geology and their relatioship with the both surface and sub-surface structures across the nation.

Geology

Code	Description
Al	Alluvium
MWS	Sands, gravels and clays
AB	Sands and pebbles
MS	Sands, clays and mangrove swamps
SDsm	Sands, clays and mangrove swamps
Bnst	Sands and clays
Cst	Sands and clays
b	Basalt, trachyte Rhyolit newer basalts of Jos plateau
bb	Older basalts of Jos Plateau
OAlgs	Clays, sandstone Lignite and shale
ISShl	Sands, sandstone and shale
GWss	Clays and grits
Gicl	Sandstones and mudrocks
Esh	Clay, clayey sands and shale
Gwss	Sands, sandstone and mudstones
Ish	Clays and shales with limestone Basic and intermediate intrusions
Imsh	Grits sands and clays
Kss	Sandstone & mudrocks
Kls	Limestone with shales
Gss	Sandstone, siltstone shale, ironstone and coal
Fss	False-bedded Sandstone, Coal and shale
Asl	Sandstone and limestone
Mcst	Sandstone, mudstone & coal
Bfs	Felspathic sandstone and siltstone
NPss	Felspathic sandstone and siltstone
Nsh	Sandstones, mudstones & limestones
Ash	Shale and limestones
Tst	Sands, clays calcareous parts
Lass	Sandstone, & sandy shale
Glcs	Conglomeratic sandstone
Glgs	Conglomeratic sandstone
Yls	Shale, sandy clay calcareous sandstone
Bss	Felspathic sandstone sandyclays shale, calcareous sandstone and shelly limestone
Arlsh	Shale and limestone with intercalation of sandstone
Jyp	Quartz porphyry/ Granite Porphyry
Jyg	Biotite granite
Jyl	Ignimbrite
Jys	Syenite, quartz-syenite
Jyr	Rhyolite
MyGr	Gabbro
Qs	Quartzite, massive and schistose, also occurring (as ridges), within schist complex
Su	Undifferentiated schist, including phyllites and some gneisses
OGp	Porphyritic granite
GG	Granite gneiss
qs	Silicified shared rocks, large quartz veins
my	Mylonites

Mineral Zonations

- Metallic Minerals
- Non-Metallic Minerals

Subsurface structures from Geophysical dataset

- Dyke
- Dyke-concealed
- Fault
- Fault-post rift
- Fault-concealed
- Fault-early rift
- Fault-early rift-concealed
- Shear zone-late
- Shear zone-late-concealed
- Shear zone-early: Terrane boundary zone
- Shear zone-early
- Shear zone-early-concealed
- Shear zone-low angle thrust
- Shear zone-low angle thrust-concealed
- National border

Field Geological Details

- Shell-BP Deepest Well
- Geological Survey of Nigeria Borehole
- Shell_BP Geological Corehole
- Volcanic Pipes and Plugs
- Synclinal Axis
- Antiformal Axis
- Transcurrent fault
- Major Fracture/Fault
- Transcurrent fault
- Fracture/Fault Inferred
- Sand Dune

Topographic Details

- Towns
- Road
- Rivers
- Lakes

Commodity

- Amethyst
- Aquamarine
- Barytes
- Bauxite
- Bentonite
- Beryl
- Bismuth
- Bitumen
- Brine
- Calcite
- Cassiterite
- Chalcopyrite
- Chromite
- Clay
- Clay (Bentonitic)
- Clay (Montmorilonite)
- Clay (swamp)
- Coal
- Columbite
- Copper
- Corrundum
- Diamond
- Diatomite
- Dimension Stone
- Emerald
- Feldspar
- Fire Clay
- Fluorite
- Galena
- Garnet
- Glass Sand
- Gold
- Graphite
- Gypsum
- Iron Ore
- Kaolin
- Kyanite
- Lead/Zinc
- Lepidolite
- Lignite
- Limestone
- Manganese
- Marble
- Marcasite
- Marl
- Mica
- Phosphate
- Pyrite/Pyrochlore
- Sapphire
- Silica Sand
- Sillimanite
- Silver
- Talc
- Tantalite
- Tar sand
- Tin
- Topaz
- Tourmaline
- Trona
- Uranium
- Wolframite
- Zinc
- Zircon
- feldspar
- kaolin

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