



Fig. 1: Location and geologic map of the study area.

### Materials and Methods

The VLF-EM method is an inductive exploration technique that is primarily used to map shallow subsurface structural features in which the primary electromagnetic (EM) waves induce current flow (Karous, and Hjelst, 1983; Sinha, 1990; Karkkonen and Sharma, 1997).

In principle, it utilizes transmitters operating between 15kHz to 25kHz as the primary EM wave source. Ground and airborne very low frequency electromagnetic (VLF-EM) surveys have been used successfully to delineate electrical conductors and map geological contacts (Olurunfemi et al 2004; Sharma and Baranwal, 2005). VLF survey or measurement are made utilizing some special military communication transmitter which is located several kilometers away at the high powered military communication transmission stations. The signals generated can travel long distance and able to penetrate the subsurface to induce eddy current in buried conductors. The technique measures the components of very low frequency EM field which are related to the geo-electric structure of the subsurface (Saydam, 1981). The electromagnetic method measures the bulk conductivity of subsurface material beneath and between the instrument transmitter and receiver coils. The readings are commonly expressed in the conductivity units of milli-ohms/meter/m-ohms/m or millisiemens per meter (ms/m) EM surveys are used for locating subsurface zones of highly fractured bedrock, buried steel drums and tanks, plumes of groundwater contamination, and clay rich horizons (McNeill, 1990; Onu, and Ibe, 1998).

VLF magnetic field measurement makes use of E-Polarization in which a transmitter is selected in the direction of strike and measuring profiles are taken perpendicular to the strike direction. Generally, the vertical and horizontal components of magnetic fields are measured and real and anomalies are computed using the expression given by Sinha (1990).

$$\tan 2\alpha = \pm \frac{\left(\frac{H_2^2}{H_1^2}\right) \cos \Delta\phi}{1 - \left(\frac{H_2^2}{H_1^2}\right)}$$

Where  $\alpha$  is the dip angles,  $e$  is the ellipticity,  $H_2$  &  $H_1$  are the amplitudes, the phase difference,  $\Delta\phi = \phi_2 - \phi_1$ , in which,  $\phi_2$  is the phase difference of  $H_2$ ,  $\phi_1$  is the phase of  $H_1$ . But,  $\tan 2\alpha = H_2 \cos \phi_2 \sin \alpha + H_1 \cos \alpha$

The tangent of the tilt angle is a good approximation of the ratio of the real component of the vertical secondary magnetic field to the horizontal primary magnetic field. The ellipticity is a good approximation of the ratio of the quadrature components of the vertical secondary magnetic field of the horizontal primary field (Paterson and Ronka, 1997). The quantities are called the real ( $\tan \alpha \times 100\%$ ) and imaginary ( $=e \times 100\%$ ) anomalies, respectively and they are normally expressed as percentage (Telford, et al, 1976, Loweric; 1997, Saydam, 1981).

VLF data were collected using an Abem-Wadi instrument. The instrument was fitted to the operator at the base station facing the direction to be surveyed and the system was switched on. It scanned through to pick the most suitable transmitter located roughly perpendicular to the profile. The orientation, azimuth, signal strength and frequency measurement were recorded before the proper measurement were taken. A total of three profiles were established and readings were taken at intervals of 20 meters along each profile. The data were acquired under a favourable weather condition for the three profiles. The first traverse of 1000 meters (1km) was established along Auchi / Fugar road moving from east to west. The second traverse, 1900 meters (1.9km) along Auchi / Okene road moving from southwest to Northeast and the third of 1280 meters (1.28km) traverse was located along Auchi / Igara road moving from west to East. The results were recorded under columns of raw real, filtered real measurement with their corresponding coordinates and elevations.

## II. RESULTS AND DISCUSSIONS

The VLF-EM data were presented as EM profiles, showing plots of raw real and filtered real values against distance (stations). The data were plotted using relevant computer programs. The real component data which are usually more diagnostic of linear features were processed for qualitative interpretation. This enabled the identification of profiles where positive amplitude of filtered real crossover the inflection points of the raw real as points of anomaly. The filtered real transform every genuine crossover or inflection points of the real

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