



Geo Jarf Azma Consulting Engineers

Established from 2011 with the mission to implement geophysical studies related to geotechnical engineering.

Today, the company's main activity targets specialized geophysical projects within geotechnical schemes and other relevant fields such as mine exploration and other subsurface detecting approaches by highly trained geophysicists and geological experts and technicians with Doctoral and Master Degrees in geophysics, mine engineering and other geological sub branches.

Magnetometric Tests

Method and Application

The magnetic method involves the measurement of the earth's magnetic field intensity. Typically, the total magnetic field and/or vertical magnetic gradient is measured. Magnetic surveys records spatial variation in the earth's magnetic field. Magnetometers react very strongly to iron, copper, steel, brick, man made soil, different types of rock, and archaeological structures composed of the above mentioned materials.

Facilities and Appliances

1. GSM19-T model magnetometric appliance made by the Canadian GEM SYSTEM Company which is tolerant in 7000 Gama variation per meter and has a 0.05 Gama accuracy and capability of 2 data acquisition per second also capable of GPS connection with a 1 meter accuracy and gradient measurement capability.
2. US made geometrics proton magnetometer with a 1 nano Tesla (nT) accuracy.

Geomagnetic Services

1. Mineral exploration, especially iron mines.
2. Archeological site investigations.
3. Bedrock determination.
4. Locating abandoned steel well casings .
5. Locating buried tanks and pipes.
6. Mapping the basement faults and geological studies.
7. Mapping old waste sites and landfill boundaries.

