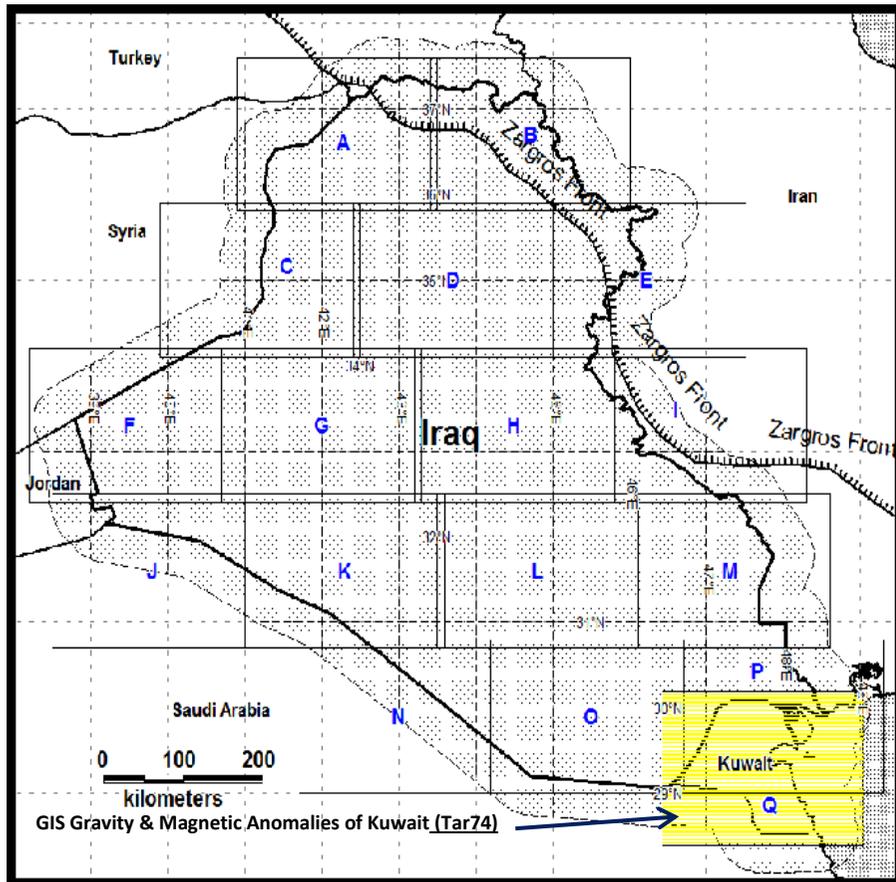


# Target Exploration

Energy Geosciences Research & Development



# GIS Gravity and Magnetic Anomalies of On- & Off-Shore IRAQ

*Target Exploration Report Tar77*

## The Report

**This report is the result of an independent interpretation that generated 17 GIS Gravity-Magnetic Basement Structure Map Sheets of Iraq (scale 1/250,000) with a 10 km overlap between individual sheets, and 90 km buffer around the onshore and offshore international boundaries of Iraq.**

The 1/250,000 scale GIS Basement Structure Map Sheets expresses the basement relief of most of the known fields, discoveries and closed seismic structural prospects of Iraq, the GIS Total Sediments Thickness Map Sheets reveals the depth of burial prior to uplifting and inversion of the western exploration blocks of Iraq. The packages include the GIS Residual Gravity and Magnetic Anomalies Maps that delineated hitherto unknown or undisclosed anomalies, leads and areas of interest all over Iraq and adjacent territories.

The Regional GIS Gravity-Magnetic Basement Structure Map of Iraq (Scale 1/1,000,000) delineated the country's regional tectonic elements, summarises the country's total exploration targets potential and encompasses the known and new anomalies. The buffer areas around the boundaries of Iraq insure that the grids would completely contain all permutations of the Iraq country outline that are in common use.

Last but not least we have generated a Computer Interpreted GIS Residual Gravity Anomalies Map of Iraq and accompanying report. Our research revealed that most of the known oil fields of the Arabian Plate have associated Topographic expressions ([Topo-anomalies](#)). This set of map-sheets was designed with deep exploration and deep reservoirs developments in mind; for by superimposing the GIS Topographic Map over corresponding Computer

Interpreted GIS Residual Gravity Anomalies Map one can deduce by association the presence of a deeper structural elevation at the location of the Gravity anomalies.

The intensity of the Computer Interpreted GIS Residual Gravity Anomalies, and degree of association with the Topo-anomalies qualitatively allowed us to rank the Computer Interpreted Residual Gravity Anomalies in term of their HC prospectivity (See Package C. below). The generated map sheets can be considered as a new prospective Gravity Anomalies Map of Iraq. The generated anomalies may coincide with the structural footprints of discoveries, developed or undeveloped fields, known or hitherto unknown prospects, anomalies, leads or areas of interest.

## **How to Select and Order Your Optimum E&P Targets Package:**

**Package A: Any One of the 16 Large Scale (1/250,000) Map Sheets-Packages (Map Sheets A, B, C, D, E, F, G, H, I, J, K, L, M, N, O or P). Price: On Application/individual Package. Each package is composed of:**

1. One (SRTM30Plus) Topographic and Bathymetric Map Sheets (Scale 1/250,000).
2. One Bouguer Gravity Map, (Scale 1/250,000).
3. One Residual Gravity Map (Scale 1/250,000).
4. One Pseudo-magnetic Map (Scale 1/250,000).
5. One Modelled Basement Structure Map, (Scale 1/250,000).
6. One Total Sediments Thickness Map, (Scale 1/250,000).
7. Description of used methodology and the resulted map set, locations of generated anomalies, leads and areas of interest within the Map Sheet.

**Package B: Regional Maps Set Package (Scale 1/1000, 000). Price: On Application. This package is composed of:**

1. One Regional (SRTM30Plus) Topographic and Bathymetric Map (Scale 1/1000, 000).
2. One Regional Bouguer Gravity Map, (Scale 1/1000, 000).
3. One Regional Residual Gravity Map (Scale 1/1000, 000).
4. One Regional Pseudo-magnetic Map (Scale 1/1000,000)
5. One Regional Modelled Basement Structure Map, (Scale 1/1000, 000).
6. One Regional Total Sediments Thickness Map, (Scale 1/1000, 000).
7. Description of used methodology and the resulted map set, locations of generated anomalies, leads and areas of interest within the Map Sheet.

**Package C: High Resolution Prospectivity Map Packages (Scale 1/25,000) of Sheets A, B, C, D, E, F, G, H, I, J, K, L, M, N, O and P. Price: On Application. Each package is composed of:**

1. Computer Interpreted Residual Gravity Anomalies Map-Sheets. Each map illustrates the subsurface positions and extents of the generated prospects, anomalies, leads or areas of interest with respect to the corresponding surface positions and extents of the structural expressions of the targeted prospects, dry holes, discoveries or fields.
2. Description of used methodology and resulted map. Numbers, locations and descriptions of the generated prospects, anomalies, leads and areas of interest within each Map Sheet.

This significant and valuable advancement to the knowledge of the geometry of the typically complex structural motifs of deeper exploration and field development targets beneath producing oil and gas fields, undeveloped discoveries, undrilled anomalies or unlisted anomalies in Iraq is the vector effort of years of experience in the geology of Iraq and adjacent countries.

This report can be delivered immediately as hard copy and/or PDF files from

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[Click here to purchase your package](#)

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