Target Exploration Consultants has for more than 25 years been providing exploration and field’s development and production services to the upstream petroleum industry and accumulated a wide range of multidisciplinary geosciences experience, research, reports and databases on hundreds of oil and gas fields in several basins and sub-basins of North and South America, Europe, Middle East and East, West and North Africa.

Target Exploration Consultants multidisciplinary specialisations experience that can be deployed on-sites, at clients’ offices, or from our offices, covers:

- Geophysical and Geochemical acquisition and processing, geological survey, and supervision and well-sitting of exploration and development drillings.
- Due-diligence new-ventures studies that incorporates regional geological, systematic dry-holes post-mortems and prospects generation studies.
- Wellsite geological logging, cuttings examination and cores description.
- Interpretation of Sedimentological, Petrological, Petrophysical, Palynological, Geochemical, Optical and Geothermal source rocks analyses and integration of multidiscipline team results.

1. Rejuvenating Mature Basins: CGG-ESTI® Software Re-discovers Missed & By-passed HC Traps

Target Exploration Consultants in-house research found anomalous Geothermal Gradients of Hydrocarbons Entrapment to be present in many basins, and developed an exclusive (CGG-ESTI®) Software for creating geothermal databases, BHT corrections, geothermal gradients plotting, analyses and mapping of the correct geothermal gradients, as well as interactive analysis for recognition and interpretation of geothermal gradient anomalies. Target Exploration produced several reports on geothermal anomalies of Hydrocarbons entrapments on areas in UKCS-North Sea, Middle East, North Africa, Nigeria and on-shore and off-shore Louisiana, USA. Click title for details.

2. Exclusive AOIs, Leads, Anomalies, Prospects, Single Well Discoveries and Undeveloped Fields

Target Exploration Consultants have been generating structural and stratigraphic prospects in a variety of basins, tectonic settings, and synchronising geothermal evolution of source, reservoir and seal rocks, HC charge and dissipation with the structural evolution of structural, stratigraphic or combination traps:

- Generated and/or compiled geological, geophysical, geochemical and geothermal reports, maps and databases on several basins and countries.
- Developed exploration play concepts and generated conventional and unconventional prospects in several basins and countries.
- Identified numerous Undiscovery Wells and have access to hundreds of Single Well Discoveries and Undeveloped Fields Summaries of several MENA oil producing Countries. Click title for details.

3. Due Diligence Reviews and Risk Analysis of EPS, DPS and SCA Opportunities

Target Exploration Consultants developed -in additional to the usual due-diligence reviews of E&P opportunities and dry-hole post-mortems, a new statistical risk analysis of multiple exploration concessions, field development and production sharing new-ventures in the challenging environments of MENA countries. They are invaluable for companies planning EPSA, DPSA or SC types of new-ventures in MENA and elsewhere. Click title for details.

4. Petroleum Geology, Prospectivity and Typical Fields of On- & Off-shore Iran

Target Exploration Consultants and Associate Consultants have access to:

- Seismic Surveys and Prospectivity Maps of Offshore Iran.
- Regional studies of the Petroleum Geology of SW Iran.
- Geothermal Gradient of parts of Iran.
- Petroleum Potential and New Ventures Guides of Iran. Click title for details.
5- Regional Petroleum Geology, Prospectivity and Newventures Studies of On- & Off-shore Iraq

Target Exploration Consultants and Associate Consultants studied and generated reports on:
- Geology and Prospectivity of Offshore Iraq.
- GIS Gravity Maps of Onshore and Offshore Iraq.
- Petroleum Geology of South Iraq.
- Geothermal Gradient of Iraq and adjacent areas.
- Typical Giant Oil Fields of Southern Iraq.
- Petroleum Geology and Hydrocarbon Prospectivity of Western Desert of Iraq.
- Geology and HC Resources of Hamrin Field, northern Iraq.
- Geology and Geophysics of Rafidain Field, Western Iraq.

Click title for details.

6- Regional Petroleum Geology, Prospectivity and Newventures Studies of On-shore Jordan

Target Exploration Consultants studies and nonexclusive reports include:
- Regional Geology of Jordan.
- Petroleum Geology and Remaining Anomalies of Jordan.
- Exploration and Production Potential of Open Jordanian Blocks.

Click title for details.

7- Regional Petroleum Geology, Prospectivity and Newventures Studies of On- & Off-shore Kuwait

Target Exploration Consultants and Associate Consultants generated:
- Petroleum prospectivity reports of Onshore and Offshore Kuwait.
- GIS Gravity and Magnetic maps of Offshore and Onshore Kuwait.
- HSE studies of Sand and Dust Storms Frequency of Kuwait.
- Geo-hazard studies of Petroleum and Gas Seepages of Kuwait.

Click title for details.

8- Regional Petroleum Geology, Prospectivity and Newventures Studies of On- & Off-shore Libya

Target Exploration Consultants and Associate Consultants generated:
- New GIS Gravity Maps of Onshore and Offshore Libya.
- New E&P Blocks of Libya.
- Geology of Western Offshore Libya.
- Geothermal Gradients of Hagfa (Marada) Trough, Sirte Basin, Libya
- Petroleum Geology and Undeveloped Discoveries and Un-discoveries of Kotla Trough, Sirte Basin, Libya.
- Summaries of about 200 undeveloped fields and single well discoveries.

Click title for details.

9- Regional Petroleum Geology, Prospectivity and Newventures Studies of On- & Off-shore Oman

Target Exploration Consultants and Associate Consultants generated:
- New E&P Blocks of Oman.
- Regional Geology and Typical Fields of Oman.
- Petroleum Geology and Remaining Undeveloped Discoveries and Un-discoveries of Oman.

Click title for details.

10- Regional Petroleum Geology, Prospectivity and Newventures Studies of On- & Offshore Syria

Target Exploration Consultants' studies and nonexclusive reports include:
- E&P Potential and Ranking of some Open Blocks of Syria.
- Regional Geology of Syria.
- Petroleum Geology and Remaining Anomalies of Syria.

Click title for details.

11- Target's Library of Exclusive and Non-exclusive Reports, and Rock Samples Repository

Target Exploration Consultants library incorporates exclusive and nonexclusive petroleum exploration and production databases, new-ventures studies and country evaluation reports. Our rocks, cores, cuttings and rock thin section samples repository contains representative samples of reservoir rocks of some giant oilfields, and rock exposures in MENA countries.
- For list of Target’s Non-exclusive Reports, click: Non-exclusive Target Reports.
- To search for Target Exploration Consultants peer reviewed publications in scientific journals or papers, abstracts and presentations at international, regional or local conferences/meetings, click: Target Publications.
- To search for Target Exploration Consultants papers, extended abstracts and presentations at Target Conferences click Target Conferences.
12- Target’s R&D* and Software Solutions

Target Exploration Consultants developed in-house software for analyses of collected data sets, or whenever an industry’s standard software doesn’t deliver the desired solutions for Petroleum Exploration, or Reservoirs Development and Production challenges:

- **LOG-AND:** A bundle of interactive open-hole log analysis programmes for porosity/matrix identification cross-plots and Sw% calculation. Based on Bateman and Konen’s (1977).

- **ST-GRTH:** Local (one or a group of structures) and regional structural evolution analysis programme to recognise the onset of maturation, migration against the development of local and regional structural closures. Based on (IBRAHIM, 1981, Ibrahim & Mahrouqi, 2001)

- **CGG-EST:** An interactive geothermal gradient analysis and plotting and cross-plotting programme of single well and basin-wide group of wells to identify geothermal gradient/surface temperature signature of discovery and producing wells, then use the same criteria to identify “un-discovery” wells in the area. It is based on Ibrahim publications (IBRAHIM, 1994A, 2000A, 2008, 2018A, IBRAHIM, 2018B).

- **E&P-RANK:** An E&P block ranking software developed to rank large number of concessions in one or several basins in single or several countries. Developed while working on assessing and ranking 137 blocks offered in the Libyan round of 2000. Based on (IBRAHIM 2001).

- **GCA-DM-px:** Converts C1, C2, C3, C4+ and C5+ drilling mud Gas Chromatographic readings to C1/C2, C1/C3, C1/C4+ and C1/C5+ Gas Ratios ready for plotting as cross plots against the four Oil and Gas reservoir domains of Pixler (1969). The program interactively interprets the Gas Ratios for potentially productive oil, gas zones in matrix, fractured-matrix and fracture-dependent reservoirs and lists them against drilling depths using modified Pixler’s (1969) parameters.

- **GCA-DM-W&S:** Converts C1, C2, C3, C4+ and C5+ drilling mud Gas Chromatographic readings to Wh, Bh, and Ch Gas Ratios ready for plotting as logs against drilling depth. The program interactively interprets the Gas Ratios for potentially productive oil, gas and condensates zones in matrix, fractured-matrix and fracture-dependent reservoirs using modified Whittaker and Sellens (1987).

- **GCA-DM:** An interactive programme that uses combined modified Pixler’s (1969) and Whittaker and Sellens (1987) methods. It lists raw drilling mud Gas Chromatographic readings, converts and lists them as gas ratios. Then interactively interprets the Gas Ratios using both methods for potentially productive oil, gas zones in matrix, fractured-matrix and fracture-dependent reservoirs, and lists the interpreted results against drilling depths with higher level of certainty. (IBRAHIM, 2011(D2/12:00)).

Click title for list of Target Software.

13- Environments, Climatic and Geohazards Research and Risk Analyses

Target Exploration Consultants developed a geostatistical approach to analysing Climatic Changes and Geohazards impacts on Oil and Crossover Renewable Energy operations in MENA countries. Companies operating in MENA Countries may utilise such statistical analyses and studies to forecast frequencies and intensities of Sand and Dust Storms, hydrocarbon seepages when planning and estimating the likely delays/loss of work days due to force majeure when estimating the duration of weather-sensitive projects. (MENA, 2017)

Click title for details.

14- Target’s Conferences and Conference Proceedings

Target Exploration consultants have been sharing their research and innovations with fellow professionals via Target Exploration conferences, courses, fieldtrips; peer-reviewed publications, and papers, posters and presentations to international, regional and local technical conferences and meetings. Target Conferences and conference documents are valuable sources of exploration and production information of MENA countries. Their proceedings can be ordered, along with our other publications from Target Exploration.

Click title for Target Conference and Proceedings.

15- Target’s Training Courses and Course Notebooks

Target Exploration Consultants offers courses during international and regional events such as GEO, MENA and IPC conferences. In addition the courses on offer, past courses course notebooks Target ECL can also offers in-house training courses for oil companies embarking on operation new-ventures in MENA Countries.

Click for Target Courses and Course Notebooks.

16- Target’s Fieldtrip Seminars and Fieldtrip Guidebooks

Target Exploration Consultants organises regular geological fieldtrips to source, reservoir and cap rocks exposures of the petroleum systems of MENA along with the regional Middle East GEO conferences and following our Iraq Petroleum and MENA Oil & Gas Conferences. Target may organise geological fieldtrips to order in MENA countries (such as Iraq, Jordan, Kuwait, Libya, Oman, UAE, etc.).

Click for Target’s Fieldtrips and Fieldtrip Guidebooks.

Disclaimer: Although Target Exploration Consultants does its best to provide accurate and reliable data and interpretation based on the experience of its staff, associates and collaborators. Under no circumstances shall Target Exploration Consultants or its staff be liable for any damages whatsoever, including, without limitation, direct, indirect, special, incidental, consequential, or incidental damages, or damages for lost profits, loss of revenue, or loss of use, arising out or related to this website or the information contained in it, whether such damages arise in contract, negligence, under statute, in equity, at law or otherwise.

*Definition of Research & Development (R&D) according to Deardorff’s Glossary of International Economics: www.personal.umich.edu/~landear/glossary/r.html: “The use of resources for the deliberate discovery of new information and ways of doing things, together with the application of that information in inventing new products or processes”.

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