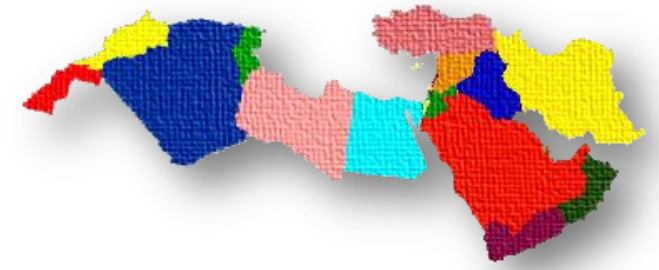


# Country Analysis & New-ventures Studies



Target Exploration Consultants performs due diligence new-ventures evaluations, concessions reviews, ranking and relinquishment of acreages studies using internal information, commercial data and software, and Target's in-house software.

## **NON-EXCLUSIVE REPORTS**

1. New-ventures Risk Assessment of Bypassed and Undeveloped Petroleum in MENA Countries, Target Exploration, London, 35P. [TAR-145](#)
2. Petroleum Potential of Wadi Sirhan Basin, Jordan. Non Exclusive Report, Target Exploration, London, UK. 250P, 55 figures, cross-sections and maps. [TAR-96](#)
2. Libyan Oil and Gas Resources: Key Players, Hydrocarbon Laws, Exploration and Production Records, Past Lessons, Present Challenges and Future E&P Potential. Non-Exclusive Report, Target Exploration, London, UK. Eight chapters and 50 Pages of Appendices. [TAT-73](#)
3. Typical Giant Oil Fields of southern Iraq, Non Exclusive Report, Target Exploration, London, UK. 78 P. 35 figures, 35 enclosures. [TAR-19](#)

4. New E&P Blocks of Onshore and Offshore Libya; Rank, Potential, Undeveloped Fields, Discoveries and Dry Holes (139 Blocks). Target Exploration, 19 P, 56 Maps and Figures, and one CD. [TAR-07](#)
5. Geothermal Gradient Anomalies of Hydrocarbon Entrapment in Iraq (and adjacent areas in Iran, Jordan, Kuwait, Saudi Arabia and Syria), Non-Exclusive Report, Target E. C., London, UK, 121 p, 178 figures, 7 enclosures. [TAR-05](#)
6. Iraq: New Ventures Guide, Exploration Potential, Play Fairways, Oil and Gas Fields and Discoveries, Target Exploration, London, 80P. [TAR-04](#)

## **SOFTWARE**

1. **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's (2000).
2. **CGG-ESTI:** 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's publications ( [Ibrahim 1986](#), [Ibrahim 1988](#) and [Ibrahim 1994a](#) ).
3. **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).
4. **ST-GRTH:** Local (one or a group of structures), basin-wide and regional structural evolution analysis programme to identify the onset structural closures development against local and regional source rocks maturation, and hydrocarbon migration histories. Based on [Ibrahim 1981](#).
5. **GCA-DM:** An interactive programme that uses combined modified Pixler's (1969) and Whittaker and Sellens (1987) methods. It lists drilling mud Gas Chromatographic readings, converts and list 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 list the results against drilling depths with higher level of certainty.

## **EXTERNAL PUBLICATIONS**

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8. Ibrahim MW (1996N) Study sizes up Iraq's reserves, exploration status, production potential, Oil and Gas Journal, June 24 1996, pp 53-55. [IBRAHIM 1996B](#)
9. Ibrahim MW (1997) Geothermal gradient anomalies of hydrocarbon entrapment, Al-Hagfa Trough, Sirt Basin, Libya. In Geology of Sirt Basin, Salem m et al, Eds. Elsevier pub. Co., pp 419-433.
10. Ibrahim, MW (1999A) Hydrocarbon Exploration Potential of Iraq. (Abstract). In Extended Abstracts Volume, AAPG International Conference and Exhibition, Sept. 12-15, Birmingham, UK. p. 247. [IBRAHIM 1999A](#)
11. Ibrahim, MW (1999B) Iraq's Oil and Gas: Geology, Reserves and Opportunities. In Iraq Petroleum Summit 1999, SMI Conference, 1-2 Nov. 1999, Renaissance Paris Hotel, La Defence, Paris, France, PE1-22.
12. Ibrahim, MW (2000A) Missed, By-passed, and Under-estimated Hydrocarbon Traps: Examination of Basic Exploration Records Reveals Potential "Un-Discovery" Wells in Libya, (Abstract). Geo 2000, 4<sup>th</sup>. Middle East Geo-sciences Conference, 27-29 March, Bahrain. GeoArabia, V. 5, No. 1, p113. [IBRAHIM 2000A](#)
13. Ibrahim, MW (2000B) Missed, By-passed, and Under-estimated Hydrocarbon Traps: Examination of Basic Exploration Records Reveals Potential "Un-Discovery" Wells in Libya, (Abstract). AAPG Annual Convention, 16-19 April 2000, Louisiana, p. A-72. [IBRAHIM 2000B](#)
14. Ibrahim M.W. (2001A) Petroleum systems and Hydrocarbon Potential of Onshore and Offshore Kuwait. (Abstract). In The petroleum Geology of the Middle East Basin, one-day seminar, 4 April 2001, JAPEC Training, The Scientific Societies Lecture Theatre, London, UK, 1p.
15. Ibrahim M.W. (2001B) Hydrocarbon Potential of the Western Desert of Iraq, in Iraq Oil and Gas II, an SMI Conference, 21-22 May 2001, Hotel Ambassadeur, Nice, France. 1p.

16. Ibrahim M.W. and S. Al Mahruqi (2001C) Hydrocarbon Systems of the Hagfa Trough, Sirte Basin, Libya, (Extended Abstract). AAPG Annual Convention, 2-3 June 2001, Denver, Colorado, P. A97. [Ibrahim & Mahrouqi 2001C](#)
17. Ibrahim M.W. (2001D) Rank, Potential, Undeveloped Fields, and Discoveries of the New E&P Blocks of Onshore and Offshore Libya. (Extended Abstract). AAPG Annual Convention, 2-3 June 2001, Denver, Colorado, P. A97. [IBRAHIM 2001D](#)
18. Ibrahim, MW, (2002A) Missed, Bypassed, and Underestimated Hydrocarbon Traps: Analysis of Basic Exploration Records Reveals “Un-Discovery Wells” in North Arabia, (Abstract). In AAPG Annual Convention, Houston, Texas, USA. [IBRAHIM, 2002A.](#)
19. Ibrahim, MW. (2002B) New E&P Blocks of Onshore and Offshore Libya: Ranks, Potential, Undeveloped Fields and Discoveries, Poster, In Cairo 2002 Ancient Oil –New Energy, AAPG International Petroleum Conference and Exhibition, October 27-30, 2002, Cairo International Conference Centre, Cairo, Egypt. [IBRAHIM 2002B](#)
20. Muammar, K., M. Warrak and M W Ibrahim (2003) Remaining Hydrocarbon Potential in the UAE, (Extended Abstract) 2p. In MENA 2003 Oil and Gas Conference (The 4<sup>th</sup>. Middle East and North Africa Oil and Gas Conference), Target Exploration, 16 &17 September 2003, Imperial College, London, 202 p. [MENA 2003](#)
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