

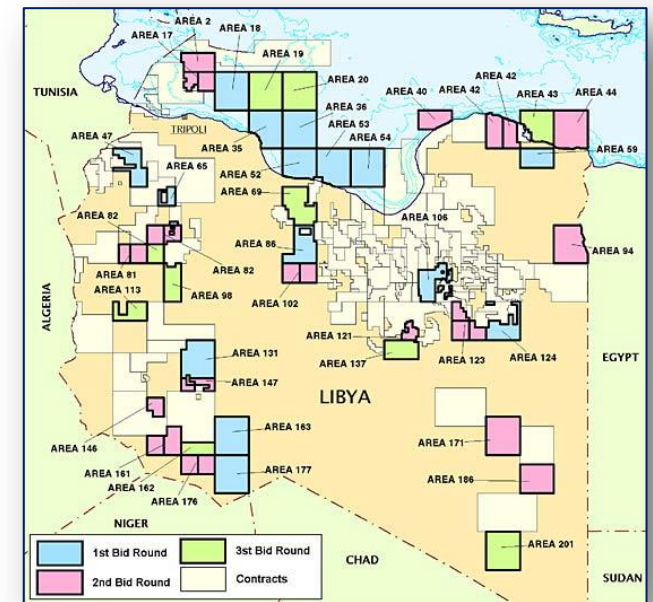


Concessions Evaluation and Statistical Ranking

Target Exploration Consultants team has a long petroleum ED&P experience of the geology of several basins, involvement in evaluating and ranking E&P potential of open concessions rounds in several countries. Target Exploration developed exclusive statistical ranking software for first-pass screening and ranking large number of concessions in addition to the in-house suite of geological software.

NON-EXCLUSIVE REPORTS/PUBLICATIONS

1. Petroleum Geology of South Iraq, Target Exploration, London, UK. 350 P., 133 figures, 19 enclosures, 103 p appendices. [TAR-02](#)
2. Petroleum Geology of Western Iraq, Target Exploration, London, UK. 75p, 25 figures, 25 enclosures, 10 appendices. [TAR-03](#)



3. Iraq: New-ventures Guide, Exploration Potential, Play Fairways, Oil and Gas Fields and Discoveries, Target Exploration, London, 80P and 28 Figures. [TAR-4](#)
4. Geothermal Gradient Anomalies of Hydrocarbon Entrapment in Iraq. Non-Exclusive Report, Target Exploration, London, UK. 121 Pages, 178 Figures and 7 Enclosures. [TAR-05](#)
5. Geothermal gradient anomalies of hydrocarbon entrapment, Al-Hagfa Trough, Sirt Basin, Libya. Non Exclusive Report, 37 p. 70 Figures , % Enclosures and PDF CD. [TAR-06](#)
6. 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](#)
7. Geothermal Gradient Anomalies of Hydrocarbon Entrapment, UKCS Quadrants 35,36,37,38,39,41,42,43,44, 47,48, 49,50,52,53,and 54. Non-Exclusive Report, Target Exploration, London, UK. 60 Pages, 290 Figures and 5 Enclosures. [TAR-08](#)
8. Structural Evolution and Petroleum System of the Hagfa Trough, Sirte Basin, Libya. Non-Exclusive Report, Target Exploration, 19 Pages, 14 Figures and One PDF CD. [TAR-12](#)
9. Undeveloped Oilfields and Remaining Potential of the Kotla Trough, Sirte Basin, Libya, Target Exploration Report, 35 P. 130 Figures and one interactive PDF CD. [TAR-39](#)
10. Exploration Potential of Block VI, Northwestern Syria, Target Exploration, 3 Pages, 3 Figures and 4 Enclosures. [TAR-138](#)
11. Exploration Potential of Block VII, Eastern Syria, Target Exploration, 5 Pages, 3 Figures and 4 Enclosures. [TAR-139](#)
12. Ibrahim, MW. (2015) New-ventures Risk Assessment of Undeveloped and Bypassed Conventional Petroleum in MENA Countries (with Special Emphases on Yemen, UAE, Tunisia, Oman, Libya and Egypt). 3p. Abstract, in MENA 2015 Oil and Gas Conference (Oman: An Analogue for Future Oil and Gas of MENA); the 10th Middle East and North Africa Oil and Gas Conference, 9-10 September 2015, Organised by Target Exploration at the Imperial College, London, UK., 70P and one PDF CD. [MENA15](#)

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 d “un-discovery” wells in the area. It is based on Ibrahim's (1986, 1988).
3. **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's \(1981\)](#).
4. **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).
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

13. Ibrahim MW (1987) Prospectivity of the Sirte group Sands, eastern Sirte basin, Libya, in 3rd Symposium of the Geology of Libya, 27-30 September 1987, College of Sciences, Al Fateh University, Tripoli, Libya, pp 75-76. Abstract.
14. Ibrahim MW (1988) Compensated Geothermal Gradient Anomalies in a mature hydrocarbon basin: Lake Pontchartrain, Lake Decade and Eugene Island, the Gulf Coast, Louisiana, USA. AAPG Bull 72 (2) pp 200. Abstract. [IBRAHIM 1988](#)
15. Ibrahim MW (1992) Prospectivity of the Sirt group Sands, eastern Sirte basin, Libya. In 3rd Symposium of the Geology of Libya, 27-30 September 1987, College of Science, Al-Fateh University, Tripoli, Libya, Vol. 7, pp 2757-2779.

16. Ibrahim MW (1993) Geothermal gradient Anomalies of hydrocarbon Entrapment, UKCS North Sea. (Abstract). In Proc. of 10th Iraqi Geological Congress, Union of Iraqi Geologist, Baghdad, 28-31 Feb. 1992.
17. Ibrahim MW (1994) Geothermal Gradient Anomalies of Hydrocarbon Entrapment, UKCS Quadrants 35-54, In Proceedings of European Petroleum Computer Conference, 15-17 March 1994, Aberdeen, SP Paper No. 27547, pp 85-96. [Ibrahim, 1994](#).
18. 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.
19. Ibrahim, MW (1998) Hydrocarbon Prospectivity of Western Desert, Iraq. (Abstract), In Iraq: Oil and Gas Post-Sanction, CWC Assoc. Conference, 30 Nov . to 1 Dec. 1998, Trianon Palace, Versailles, France. 200P.
20. Ibrahim, MW (1999A) Petroleum Systems and Hydrocarbon Prospectivity of Pre-Upper Cretaceous Rocks of Sirt Basin, Libya, 35p. In Libyan Oil and Gas, SMI Conference, 26-27 Jan. 1999, Hotel Ambassador, Paris, France.
21. Ibrahim, MW (1999B) Petroleum Systems and Hydrocarbon Potential of Onshore and Offshore Kuwait, 26P. In Kuwaiti Petroleum Summit, SMI Conference, 20-21 April. 1999. The Lanesborough Hotel, London, UK.
22. Ibrahim, MW (1999C) Petroleum Geology and Hydrocarbon Provinces of Iraq. In Iraqi Petroleum Conference 1999, ENTRC-TARGET C. G., 9-10 September 1999, Imperial College, London. 17p. [IPC1999](#)
23. Ibrahim, MW (1999D) Hydrocarbon Exploration potential of Western Iraq (with Reference to the Akkas Discovery). In Iraqi Petroleum Conference 1999, ENTRC-TARGET C. G., 9-10 September 1999, Imperial College, London. 24p. [IPC1999](#)
24. Ibrahim, MW (1999E) Hydrocarbon Exploration Potential of Iraq. (Abstract). In Extended Abstracts Volume, AAPG International Conference and Exhibition, Sept. 12-15, Birmingham, UK. p. 247. [IBRAHIM 1999E](#)
25. Ibrahim, MW (1999F) 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.

26. 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, 4th. Middle East Geo-sciences Conference, 27-29 March, Bahrain. GeoArabia, V. 5, No. 1, p113. [IBRAHIM 2000A](#)
27. 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](#)
28. Ibrahim, M.W. (2000C) Rank, Potential, Undeveloped Fields, and Discoveries of the New E&P Blocks of Onshore and Offshore Libya. (Extended Abstract) In 14 Iraqi Geological Congress, 15-17 October 2000, Iraqi Geologists Union, Baghdad, Iraq.
29. Ibrahim M.W. (2001A) Petroleum systems and Hydrocarbon Potential of Onshore and Offshore Kuwait, (Abstract). 7th Jordanian Geological Conference 2-4 April 2001, Amman, Jordan.
30. Ibrahim M.W. (2001B) 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.
31. Ibrahim M.W. (2001C) 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.
32. Ibrahim M.W. and S. Al Mahrouqi (2001D) Hydrocarbon Systems of the Hagfa Trough, Sirte Basin, Libya, (Extended Abstract). AAPG Annual Convention, 2-3 June 2001, Denver, Colorado, P. A97. [Ibrahim & Mahrouqi 2001D](#)
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34. Ibrahim M.W. (2001F) Rank, Potential, Undeveloped Fields and Discoveries of the New E&P Blocks of Onshore and Offshore Libya. (Abstract). North Africa Research Workshop 4th-5th September 2001, Oxford Brooks University. P 26.
35. Ibrahim, MW, (2001G) New E&P Blocks of Onshore and Offshore Libya: Rank, Potential, Undeveloped Fields, Discoveries and Dry-holes, 13 p. In Libyan Oil and Gas III, SMI Conferences, 19 & 20 November 2001. The Hatton, London, 172 p.

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39. Ibrahim, Muhammad W. (2004) Unconformable Stratigraphic Traps Potential of South Iraq, (Abstract). In Geo2004, 6th Middle East Geosciences Conference and Exhibition, 7-10 March, Bahrain, Conference Abstracts, GeoArabia, V.9, No. 1, P. 80. [IBRAHIM 2004](#)
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43. Ibrahim, MW. (2008). Missed, Bypassed and Under-Estimated Hydrocarbon Traps (Analysis of BHT Records Reveals “Undiscovery Wells” in Some OAPEC Countries). In Symposium on “Development in Petroleum Exploration & Production Technologies”, Jointly Organized by OAPEC and the Oil and Gas National Authority in Kingdom of Bahrain, Manama-Kingdom of Bahrain; 10-12 November, 2008. Conf. Abstracts, P. 31-33. [\(IBRAHIM, 2008\)](#)