

Drilling, Cuttings, Mud Gas Shows, Open & Cased Hole Wireline Log Analyses & Stratigraphic Interpretations

Target Exploration conducts evaluations of interim or final drilling stratigraphy, mud gas shows, wireline logs interpretations, as well as systematic post-mortem of dry holes by experienced Geologists, Petrophysicists, Geophysicists and Reservoir Engineers, by using industry standard software or Target's exclusive software.

Nonexclusive Publications

1. Ibrahim, M.W. (2011) Mud Gas Logs and Mud Gas Ratios of Fractured Reservoirs of North Iraq. In MENA11 Oil and Gas Conference (The 9th Middle East and North Africa Oil and Gas Conference: Undeveloped Oil and Gas Discoveries of the Middle East and North Africa). Target Exploration, 19 & 20 September 2011, Imperial College, London, 149p. and one PDF CD. [MENA11](#).



2. Ibrahim, M.W. (2012) Exploration Ramifications of the Regional Geothermal Gradient of Iraq. (Abstract). IPC 2012 (Iraq-In Preparation for the 5th Bid Round (Exploration, Fields Development and Operation Challenges, the 4th Iraqi Petroleum Conference) Target Exploration, 13 & 14 Sept. 2012, Imperial College, London, 80p. and PDF CD. [IPC12](#).
3. 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 MENA Oil and Gas Conference, 9-10 September 2015, Target Exploration, Imperial College, London, UK., 70P & PDF CD. [MENA15](#)

Software

1. **GCA-DM:** Interactive open-hole computer programme to converts GWD: 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 fractured reservoirs.
2. **LOG-AND:** Interactive open-hole log analysis programme for porosity/matrix identification cross-plots and Sw% calculation. Based on Bateman and Konen's (1977).
3. **CGG-ESTI:** An interactive computer programme (CGG-ESTI) to identify boreholes with statistically significant BHT data, correct and test for reliability their BHT records, and plot their corrected geothermal gradients (CGG) and corresponding extrapolated surface temperature intercepts (ESTI)

of exploration and production wells. Several case-studies have shown that deep interim CGG/ESTI cross-plots of a borehole were almost identical to the final CGG/ESTI cross-plots realized after hydrocarbon discovery at TD. An anomalous interim CGG/ESTI cross-plot can be a during-drilling input to the decision tree to justify drilling deeper target(s) when shallow target(s) found to be low, dry, wet, tight, etc. ([Ibrahim 1994](#)).

External Publications

1. Ibrahim, M.W. and T. El-Gezeery (2010) Oil Below Tarmat/Water Contact: Ramification of Structural Evolution of Minagish Oolite, Minagish Oil Field, Kuwait. Abstract in Workshop Proceedings; Second Workshop on Tar Mats & Heavy Oil (Tar Mats and Heavy Oil Nuisance or Resources). EAGE Workshop, 26-29 Sept. 2010, Gulf Hotel, Manama, Bahrain.
2. Ibrahim, MW. (2012) Paleozoic Volcanic reservoirs of Libya: A Case Study of the Cambro-Ordovician Hofra (Gargaf) Facies of Sirte Group Reservoirs, Tagrifiit (Al Ora) Oil Field. In Geology of Southern Libya, Conf. Proc. Published by Libyan NOC and PRC, Tripoli, Libya, Vol.2, pp.153-174.

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