

# Target Exploration

Energy Geosciences Research & Development



## Dry-hole Post-mortems, Interim & Final Well Drilling Reviews

Systematic evaluation of interim, final drilling results and dry-hole post-mortems by experienced Geologists, Petrophysicists, Geophysicists, and Reservoir Engineers, by using industry-standard software such as **PetroMod**© or our software.

### Nonexclusive Reports/Publications

1. 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-8](#)
2. 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](#)



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## Software

**GCA-DM:** 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 fractured reservoirs.

**LOG-AND:** Interactive open-hole log analysis programme for porosity/matrix identification cross-plots and Sw% calculation. (Based on Bateman and Konen's, 1977).

**CGG-ESTI:** An interactive computer programme (CGG-ESTI) in order 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-studied have shown that deep interim CGG/ESTI cross-plots of a borehole were almost identical to the final CGG/ESTI cross-plots realised after hydrocarbon discovery at TD. Therefore, 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

3. 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. [\(Ibrahim, 2008\)](#)

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