

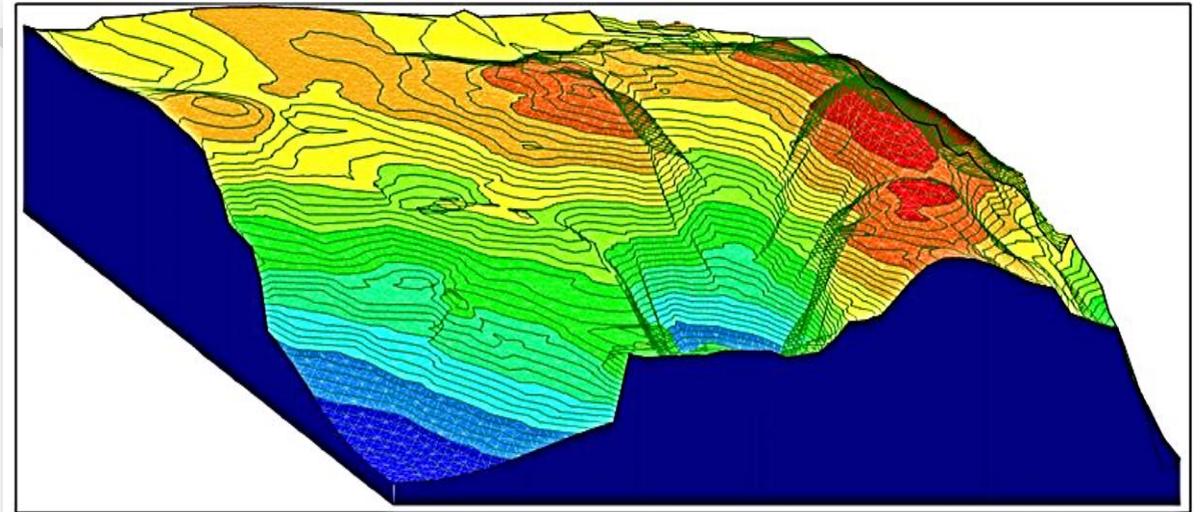
# Target Exploration

Energy Geosciences Research & Development



## Software

Consultants and associates consultants of *Target Exploration* are routine users of industry standard geosciences software. Additionally, Target Exploration Consultants have been generating in-house geoscience software for their R&D solutions, or whenever the right commercial software doesn't exist, or the commercial software doesn't produce the ideal outputs or solutions.



# Target's Petroleum and Geothermal Exploration Software

Target Exploration Consultants developed software solutions, designed and authored in-house software to provide the desired outputs or solution to consulting problems and our R&D projects, including:

<b>1. ST-GRTH<sup>©</sup></b>	Local (one or a group of structures) and regional structural evolution analysis programme, developed to recognise the time of local and regional structural trap closures development against the onset of hydrocarbons maturation, generation and migration. Based on <a href="#">Ibrahim,1981</a> .
<b>2. LOG-AND<sup>©</sup></b>	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).
<b>3. <u>CGG-ESTI<sup>©</sup></u></b>	An interactive geothermal gradients correction, calculation, plotting and cross-plotting analysis programme of single well and basin-wide group of wells. Developed to identify geothermal gradient/ surface temperature signature of discovery and producing wells, and then use the same anomalous geothermal gradient signature to identify “ <u>un-discovery</u> ” wells in the same area or even be used for prospects generation of deep and unpenetrated reservoirs. It is based on Ibrahim, 1986, 1988; <a href="#">Ibrahim, 1994</a> , <a href="#">Ibrahim, 2018B</a> ( <a href="#">PPTX</a> ). <a href="#">CGG-ESTI<sup>©</sup> Software</a> is also used for Geothermal Gradients mapping & Geothermal prospects generation.

<p><b>4. E&amp;P-RANK<sup>®</sup></b></p>	<p>An E&amp;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 <a href="#">Ibrahim, 2000</a>.</p>
<p><b>5. GCA-DM-PX<sup>®</sup></b></p>	<p>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) cross plot parameters, <a href="#">Ibrahim, 2011(D2/12:00)</a>.</p>
<p><b>6. GCA-DM-W&amp;S<sup>®</sup></b></p>	<p>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) method. <a href="#">Ibrahim, 2011(D2/12:00)</a>.</p>
<p><b>7. GCA-DM<sup>®</sup></b></p>	<p>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 lists them as gas ratios. Then interactively interprets the Gas Ratios using both of the above mentioned 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. <a href="#">Ibrahim, 2011(D2/12:00)</a>..</p>

# Industry Standard HC Exploration & Production Software

Target Exploration consultants and associates are users of commercial software such as:

1.	<b>ARC-GIS</b>	GIS Applications Programme.
2.	<b>BASINMOD</b>	Basin Modelling Programme.
3.	<b>COREL DRAW</b>	Vector Drafting Programme.
4.	<b>DIDGER</b>	Digitizing Programme.
5.	<b>DIGI-DATA</b>	Digitizing Programme.
6.	<b>FRACA</b>	Multi-Discipline Fracture Analyses Programme.
7.	<b>FRACMAN</b>	IFP Multi Discipline Fracture Analyses Programme.
8.	<b>GeoX</b>	Schlumberger Prospects Assessment Programmes.
9.	<b>LOG-PLOT</b>	Log Plotting Programme.
10.	<b>LOPATIN</b>	Basin Modelling Programme.
11.	<b>MS OFFICE</b>	Wards, <b>Excel</b> , PowerPoint and MS Project.
12.	<b>NOVVA</b>	Basin Modelling Software, Sirius Exploration Geochemistry Inc.
13.	<b>PETREL</b>	Geological Contouring and Reservoir Modelling Programme.
14.	<b>PETROMOD</b>	Basin Modelling Programme.
15.	<b>REP</b>	Risked Reserves Evaluation Programme.
16.	<b>ROCKWORKS</b>	Contouring, cross-section plotting and modelling Programme.
17.	<b>SURFER</b>	Contouring, cross-section plotting and modelling Programme

# Schlumberger HC Geoscience Software

Target Exploration consultants and associate consultants are either users or familiar with Schlumberger's software:

<a href="#"><u>Avocet</u></a>	<a href="#"><u>ECLIPSE</u></a>	<a href="#"><u>InnerLogix</u></a>	<a href="#"><u>MEPO</u></a>	<a href="#"><u>OFM</u></a>	<a href="#"><u>Petrel</u></a>	<a href="#"><u>ProSource</u></a>	<a href="#"><u>VISAG</u></a>
<a href="#"><u>BASINMOD</u></a>	<a href="#"><u>GeoX</u></a>	<a href="#"><u>INTERSECT</u></a>	<a href="#"><u>Merak</u></a>	<a href="#"><u>OLGA</u></a>	<a href="#"><u>PetroMod</u></a>	<a href="#"><u>Studio</u></a>	<a href="#"><u>KINGDOM</u></a>
<a href="#"><u>Drillbench</u></a>	<a href="#"><u>IAM</u></a>	<a href="#"><u>Malcom</u></a>	<a href="#"><u>Ocean</u></a>	<a href="#"><u>Omega</u></a>	<a href="#"><u>PIPESIM</u></a>	<a href="#"><u>Techlog</u></a>	

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