

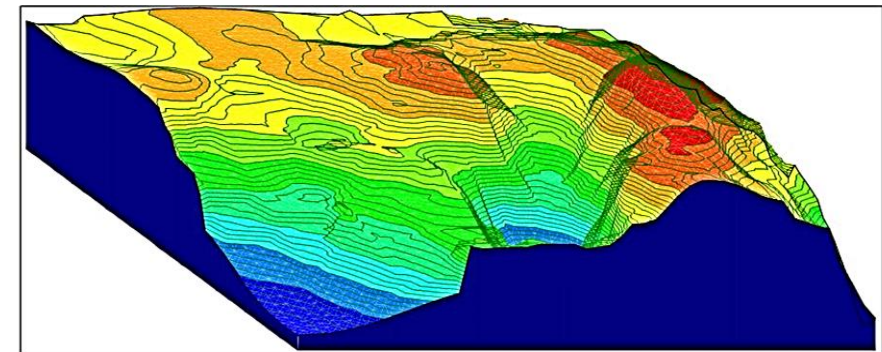
Target Exploration

Energy Geosciences Research & Development



Software

Target Exploration Consultants develops in-house software solutions whenever the right commercial software doesn't exist, or doesn't provide the preferred output or solution. Although, Target Exploration consultants and associates consultants are routine users of industry standard software.



Commercial Software

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

1. **ARC-GIS:** GIS Applications Programme.
2. **BASINMOD:** Basin Modelling Programme.
3. **COREL DRAW:** Vector Drafting Programme.
4. **DIDGER:** Digitizing Programme.
5. **DIGI-DATA:** Digitizing Programme.
6. **FRACA:** Multi-Discipline Fracture Analyses Programme.
7. **FRACMAN:** IFP Multi Discipline Fracture Analyses Programme.
8. **GeoX:** Schlumberger Prospects Assessment Programmes.
9. **LOG-PLOT:** Log Plotting Programme.
10. **LOPATIN:** Basin Modelling Programme.
11. **Microsoft Office:** Words, **Excel**, PowerPoint and MS Project.
12. **NOVVA:** Basin Modelling Software, Sirius Exploration Geochemistry Inc.
13. **PETREL:** Geological Contouring and Reservoir Modelling Programme.
14. **PETROMOD:** Basin Modelling Programme.

15. **REP:** Risked Reserves Evaluation Programme.
16. **ROCKWORKS:** Contouring, cross-section plotting and modelling Programme.
17. **SURFER:** Contouring, cross-section plotting and modelling Programme.

Target's Software

Target Exploration Consultants developed in-house software solutions to provide the desired output or solution to R&D project or consulting problems; such as:

- I. **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 \(1981\)](#).
- II. **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).
- III. **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 and 1988, 1994). [Ibrahim, 1994](#), [IBRAHIM 2018B](#) ([PPTX](#)).


- IV. 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, 2000](#).
- V. GCA-DM-PX:** 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. [Ibrahim, 2011](#)
- VI. GCA-DM-W&S:** 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. [Ibrahim, 2011](#)

VII. 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 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. [Ibrahim, 2011](#)

Schlumberger Software

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

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

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