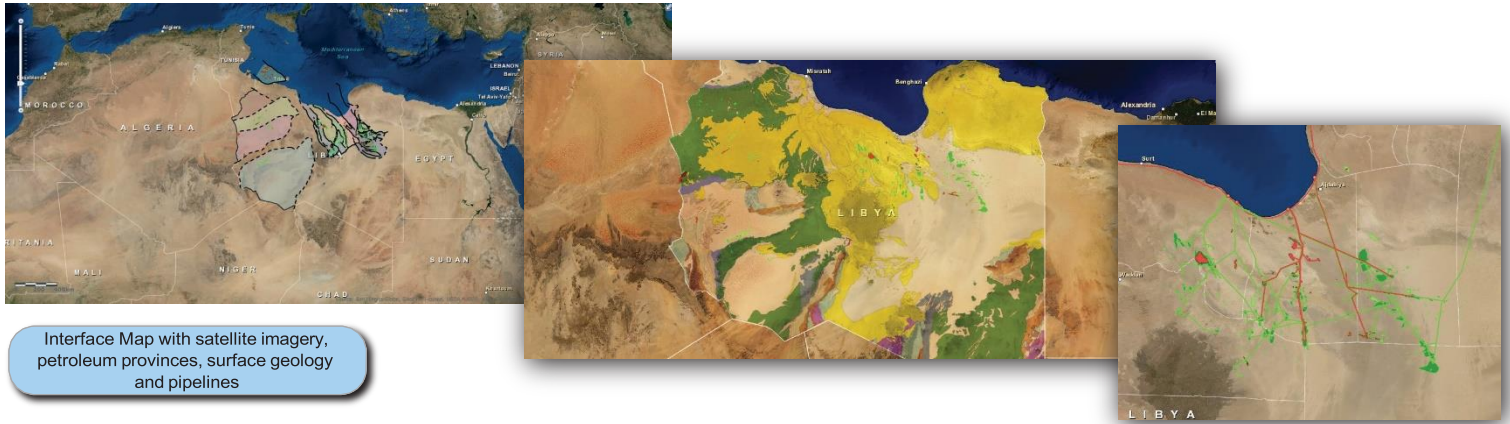


This Online Atlas of Libya is established as an important tool for operating in Libya and is highly valued by a number of key players in the Libyan oil patch. IOCs operating in Libya find the atlas easy to use on a day to day basis and value its extensive functionality.



Interface Map with satellite imagery, petroleum provinces, surface geology and pipelines

### The Atlas features:

- Descriptions, histories and reserves estimates for 466 oil and 91 gas fields discovered onshore and offshore Libya
- Well locations and summarised well results (8,857 wells)
- Top reservoir structure maps for the majority of fields with originally recoverable reserves of more than 10 million barrels of oil or 60 bcf of gas
- Geological sections across fields (168) and 35 regional geological cross-sections
- Transparent reserves calculations for each field with specified reservoir parameters
- Regional depth maps on major horizons
- Petroleum provinces and licensing areas

**The detailed maps, cross-sections and reserves calculations distinguish this atlas from other field databases.**

ESRI's 'Cloud' based ArcGIS Online platform is used to deliver this Atlas.

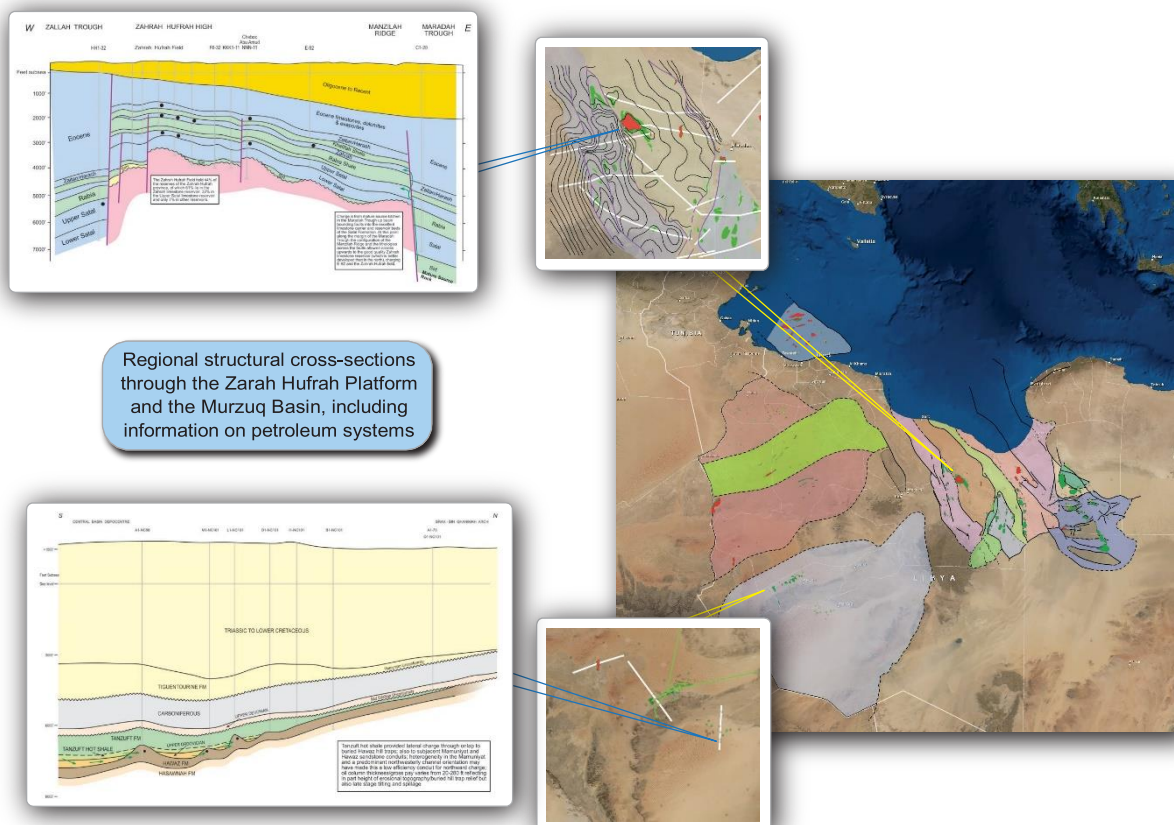
Online Interface Map showing the Petroleum Provinces and Oil and Gas Fields of Libya

Data for the Raqubah Field is shown here as an example

Filter functions allow user to query and display data for specific attributes, e.g. wells in the Raqubah Field

With a few clicks, even on a smartphone or tablet, users can:-

- Zoom and navigate over the entire map of Libya with a background of petroleum province, surface geology or satellite imagery
- View status of exploration, appraisal and development wells
- Search for data on specific fields and wells
- See fields in the context of regional cross sections, key depth maps, petroleum provinces and stratigraphic columns
- Review top reservoir depth map and cross section, field by field
- Identify trapping mechanisms
- Discover oil and gas reserves estimates and see the reservoir parameters behind the calculations
- View petroleum geology literature with references for each field
- See location of oil terminals and oil and gas pipelines
- Place all the above data in context of licences and licensees



Regional structural cross-sections through the Zarah Hufrah Platform and the Murzuq Basin, including information on petroleum systems

The ArcGIS Atlas also includes data from Tunisia and Algeria as follows:

- Wells with location, cultural and BH depth data for
  - o Algeria - 6077 wells
  - o Tunisia - 1267 wells.
- Description of some key Tunisian fields

The **Prime package** has all the features mentioned above including all mapping, reserves and reserves calculations data; also field cross-sections (with information on petroleum systems) and stratigraphic columns.

Licensing terms: The **Prime package** is UK£27,000 annually or UK£70,000 for three years.

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