

Thara'a-2
Burkanah-1
Thara'a-1

Al Hashman-1 Al Hashman WSW-1
Al Hasman WSW-2

Hayah-1

Fasad-1

Al Darmaa-1

Block 36 *Oman onshore*

Petroleum Prospectivity Report

Block 36 onshore Oman

Petroleum prospectivity report

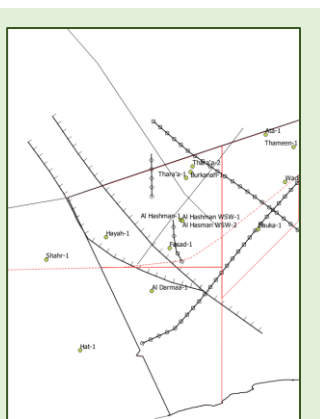
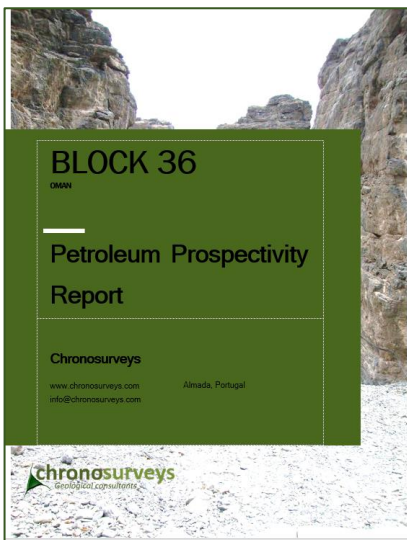
Block 36, onshore Oman covers an area of 18625 km² along the border with the Kingdom of Saudi Arabia and the Republic of Yemen and is located at the southeast end of the Rub' al Khali Basin, one of the world's most productive oil and gas Basins

In March 2023 the government of the Sultanate of Oman opened a licensing round, which includes block 36.

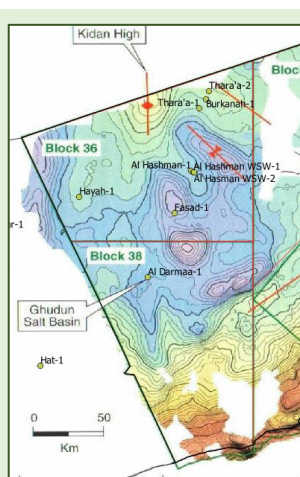
This study compiles extensive public-domain information, coupled with our deep knowledge of the area and includes a comprehensive report, GIS project.

Comprehensive report profusely illustrated with charts, seismic sections, maps, etc. Petroleum system's elements and processes are described and discussed for the several areas of the basin.

- 30+ references (articles, thesis, presentations, brochures, etc) used
- Political, historical and economic background of Oman
- 7 georeferenced 2D seismic lines
- 3 georeferenced geological cross-sections
- 18 wells in the block and nearby with basic data
- 7 geological/geophysical maps (depth to basement, gravity, subcrop, etc)
- Gross depositional environment maps of 8 key intervals of the basin
- 2 main plays identified, described and illustrated
- GIS project with Upstream, Geology, Geography and cultural data



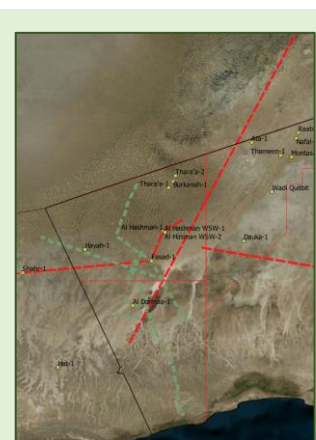
Main structural elements of the area, in GIS project



Geological and geophysical maps of the block and nearby areas



Gross depositional environment maps of 8 key intervals of the basin



GIS project with Upstream, Geology, Geography and cultural data

BLOCK 36

OMAN

63 pages-long report with 35 figures of maps, charts, seismic sections. Overview of the basin, description of the source rocks, reservoir, traps and plays.

Report contents

Sultanate of Oman

- Brief historical background
- Political system

Block 36

- Exploration and production history

Geology of the Rub' Al Khali Basin

- Introduction
- Stratigraphy
- Tectonic evolution
- Materials and Methods

Source rocks

- Early Silurian source rock
- Huqf Supergroup source rocks

Reservoirs

- Late Paleozoic
- Early Paleozoic
- Precambrian

Traps and plays

- Hercynian unconformity
- Intra-salt
- Pre-salt

Gross Depositional Environments

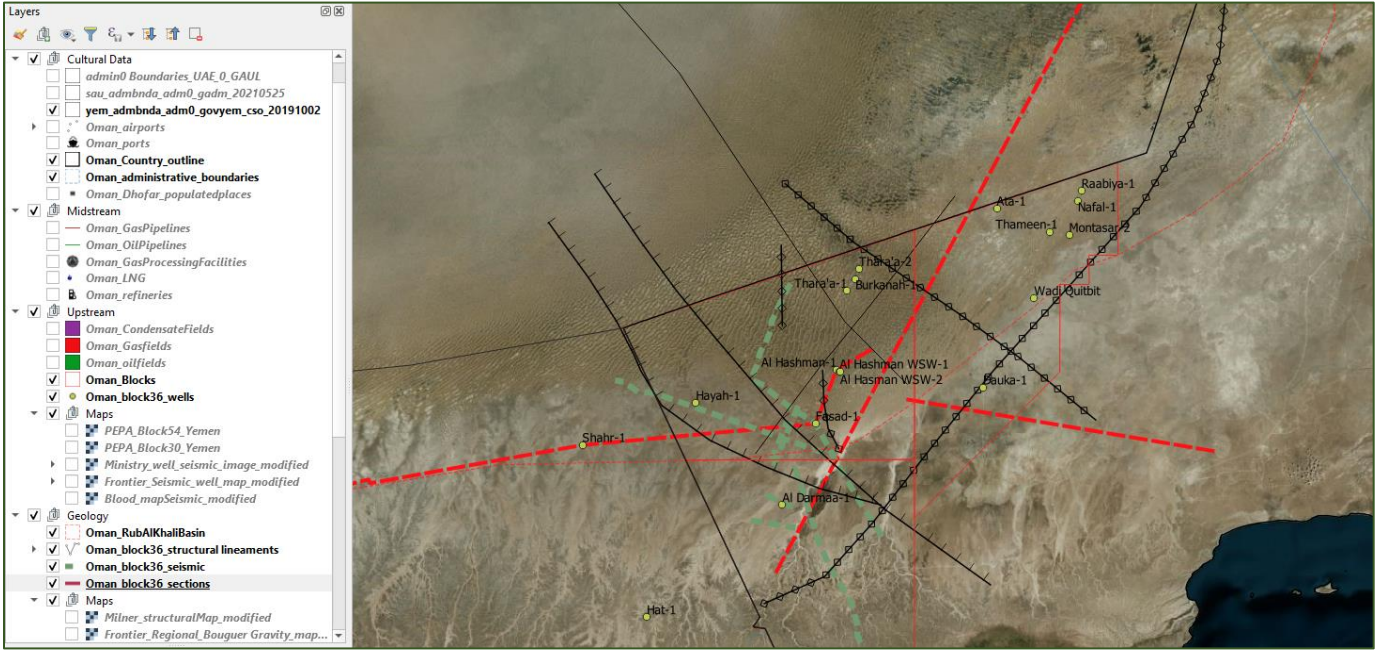
- Late Cambrian
- Mid Ordovician
- Late Ordovician
- Early Silurian
- Latest Carboniferous-Early Permian
- Early Cretaceous
- Late Cretaceous

GIS project

- Cultural data
- Midstream
- Upstream
- Geology

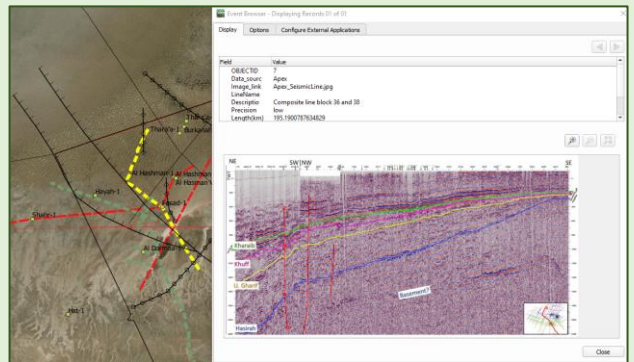
Block 36 onshore Oman Petroleum prospectivity report

Ready-to-use GIS project, built using QGIS 3.6, convertible to ArcGIS format. Over 20 layers of geological, upstream, geographical and cultural data.

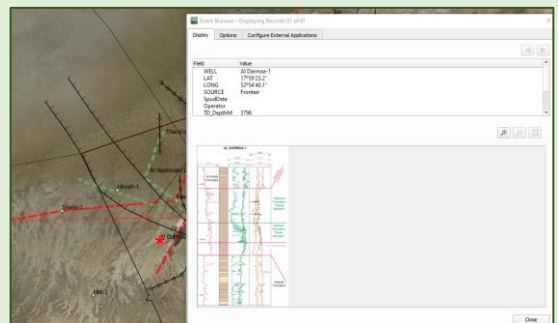
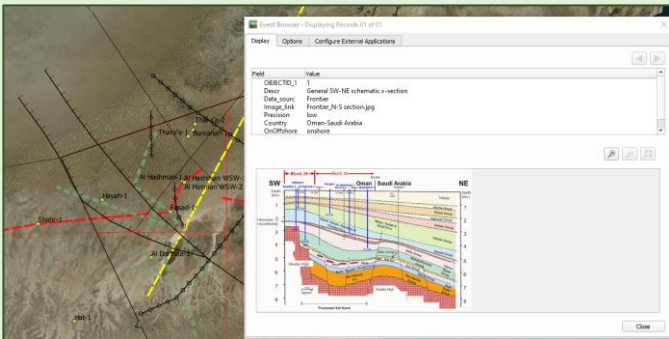


Georeferenced data

7 2D seismic lines linked to a raster image which pops-up when clicking on the well (using e-vis event tool in QGIS or html pop-up tool in ArcGIS).



3 cross-sections linked to a raster image which pops-up when clicking on the well (using e-vis event tool in QGIS or html pop-up tool in ArcGIS).



7 wells linked to a raster image which pops-up when clicking on the well (using e-vis event tool in QGIS or html pop-up tool in ArcGIS).

BLOCK 36

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GIS project contents

Cultural Data

- Oman Country outline
- Oman administrative boundaries
- Oman Ports
- Oman Airports
- Dhofar villages

Midstream

- Oman gas pipelines
- Oman oil pipelines
- Oman gas processing facilities
- Oman refineries

Upstream

- Oman and region wells
- Oman blocks (36 and nearby blocks)
- Oman gas fields
- Oman oil fields
- Oman condensate fields
- Group layer with georeferenced seismic lines

Geology

- Rub' Al-Khali Basin outlines
- Oman block 36 and nearby structural lineaments
- Block 36 2D seismic lines (7 raster images)
- Block 36 X-sections (3 raster images)
- Bing aerial (external layer)

GDE and other maps (georeferenced)

- Late Cambrian
- Mid Ordovician
- Late Ordovician
- Early Silurian
- Early Devonian
- Early Permian
- Late Permian
- Early Cretaceous
- Late Cretaceous
- Hercynian subcrop
- Depth to Basement
- Bouguer gravity
- Sahmah shale isopach
- Sahmah Formation isopach
- Sahmah Formation maturity

BLOCK 36

OMAN

Thara'a-1

This study is aimed for New Ventures and early stages of exploration of any company interested in knowing more about Block 36, onshore Oman, in the context of the current licensing round.

It allows integration with proprietary data and other sources of data.

The report and GIS project are marketed as a one-off purchase.

The authors have been working with this basin for several years and are available for advisory work, attend data room for asset evaluation and general geological consulting work.

About Chronosurveys

Chronosurveys brings together the best of the Oil & Gas Industry and Academia. We are a group of consultants based in Portugal with experience in Oil & Gas and specialist researchers in Academia that provide integrated services in Stratigraphy, Source Rock evaluation and other Petroleum Geology disciplines. Our services include:

- Biostratigraphy
 - Palynology
 - Nannofossils
 - Micropaleontology (forams)
 - Other disciplines (conodonts, metamorphic terranes, evaporites)
 - Review of vintage reports
- Source rock evaluation
 - Organic geochemistry (TOC, RockEval)
 - Thermal maturity (vitrinite reflectance, spore colour, fluorescence)
 - Visual kerogen typing
- Seismic interpretation and prospect generation
 - Data room evaluations
 - Regional prospectivity
 - Volumetrics and risking
- Stratigraphy and reservoir geology
 - Well correlation
 - Petrographic descriptions
 - XRD
- Multiclient regional prospectivity reports
 - Dynamic GIS project (and webGIS version)
 - Petroleum system evaluation with plays, GDE and CRS maps, well data, seismic and cross-sections, outcrop data, source rock and reservoir parameters
- Training
 - In house and offsite training courses (biostratigraphy, seismic interpretation, petroleum geology)
 - Field trips in Portugal
 - Geo-Historical tours of Lisbon

We are available to provide further details in a Teams meeting or by email:
info@chronosurveys.com