GEOFACETS CONNECTOR FOR PETREL* AND STUDIO*

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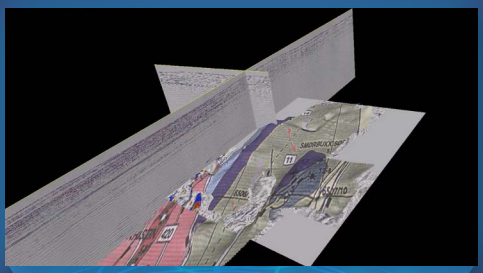
USER GUIDE

GEOFACETS from ELSEVIER

Petrel Studio



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INTRODUCTION TO THE *GEOFACETS CONNECTOR FOR PETREL AND STUDIO*

The *Geofacets Connector for Petrel and Studio* makes exploration seamless by allowing the content and insights from Geofacets (www.geofacets.com) to be accessible from within the Petrel E&P software platform.

The *Geofacets Connector* integrates the unique features and functionality of Geofacets directly into Petrel and Studio environments. This allows geoscientists working in exploration to search, discover and integrate hundreds of thousands of scientific maps extracted from peer-reviewed publications into 2D and 3D projects within the Petrel platform, enabling easier validation of proprietary models with external insights, the ability to learn more about the geologic characteristics of an area, and more.

The *Geofacets Connector* delivers:

- Trusted, curated content base with hundreds of thousands of georeferenced geologic maps sourced from over +120 leading scientific journals and publications in one platform, updated weekly
- Geographic and keyword-based search features that are developed specifically to help geoscientists find relevant content quickly and effectively
- Comprehensive map details and links to associated full-text articles that provide additional insight and context for individual maps
- Ability to save searches and set up alerts that make it easier to stay up-to-date with the most recent published maps and information available

Do more in less time by:

- Gaining greater scientific insights for deeper analysis of exploration opportunities
- Reducing risk by increasing certainty in your interpretations
- Supporting your evaluations and recommendations when you have little or no proprietary data and information
- Spending less time searching and formatting, and more time on interpretation

Accelerate your exploration workflow with Geofacets and the *Geofacets Connector for Petrel and Studio*.

GETTING STARTED

This User Guide is designed to help you make the most of your access — starting from your very first search, and assumes that you have already completed the installation process of the *Geofacets Connector* and the associated *Geofacets Index(es)* using the installation guide.

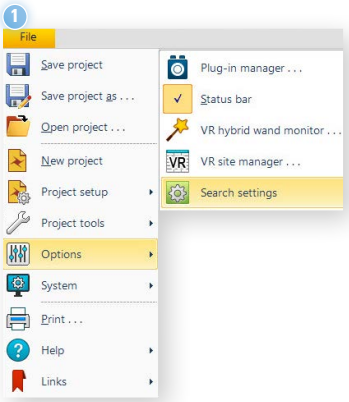
If you have not completed the installation process, please refer to the *Geofacets Connector Installation Guide*, which can be downloaded from the *Geofacets Connector* plugin page on Schlumberger Ocean Store Website.

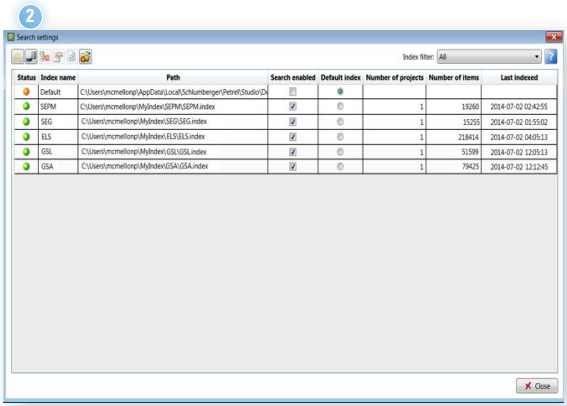
SEARCHING THE *GEOFACETS CONNECTOR INDICES*

Before you begin your search, check to make sure that the *Geofacets Indices* are enabled, which will allow you to search the Geofacets content.

1. Go to **File** > **Options** > **Search Settings**

2. Review the list of indices and enable or add the ones you would like to include in your search. Click Close and return to your Petrel project.





SEARCH BY KEYWORD USING 'FIND'

There are many ways to start your search in Petrel using several built-in features of Petrel to execute a search, depending on whether you are searching for information related to a specific geologic subject or term or you are looking to find all information associated with a project area, basin and/or country.

The Keyword Search allows you to find a comprehensive set of maps based by searching within the geological map caption, scientific journal, article title, metadata, author keyword(s).

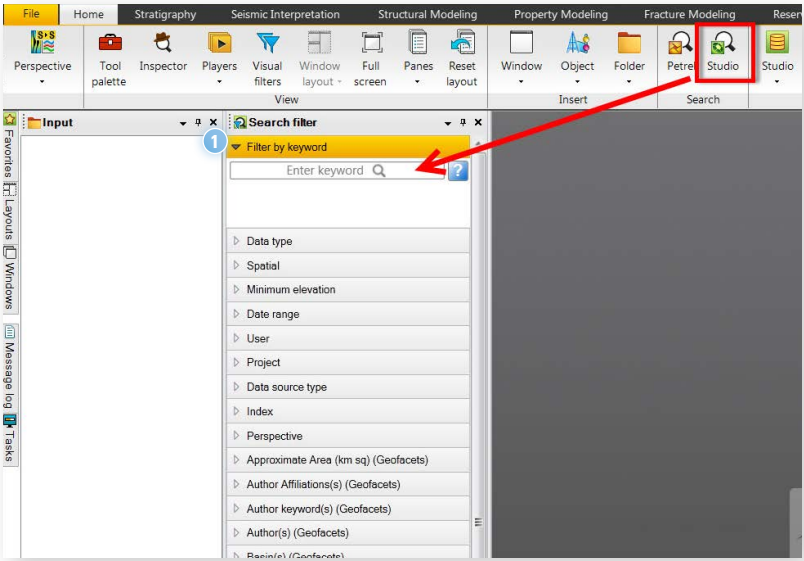
1. To start a 'keyword' search, use the **Search With Studio** tool by entering a term or terms (e.g., source rock, carbonate reservoir, black shale, etc) in the **Find** field:

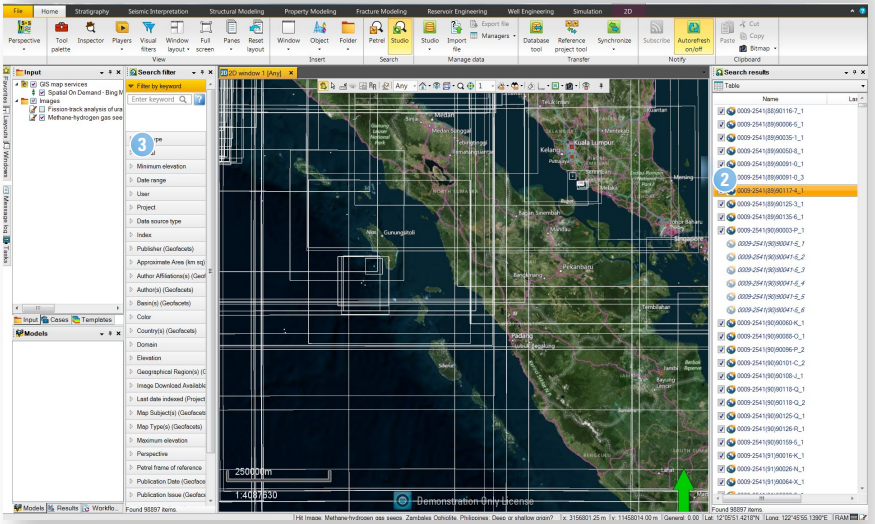
> **TIP:** Put your phrase in quotation marks for search results that are an exact match.

> **TIP:** If you have not selected a coordinate reference system (CRS), you will be prompted to select a coordinate reference system or to confirm you would like to continue as "spatially unaware". When search within the *Geofacets Connector* indices it is best to view the maps in the 2D Window in WGS_1984_World_Mercator before loading into your Petrel project.

2. For all 'keyword' searches, the relevance ranking of the retrieved results is determined by the occurrence of that term in map caption, article title, article abstract, author keyword, and the results are not ranked in Petrel in the **Search Results Table**, but rather organized alpha-numerically by Map ID.

3. Because of this, it is often best to start **Filtering Results** using either the *Geofacets Connector's* **Search Filters** or **Spatial Filter** (e.g., World, Project, etc) to limit to geographic extent of returned search results.


File
Home
Stratigraphy
Seismic Interpretation
Structural Modeling
Property Modeling
Fracture Modeling
Perspective
Tool palette
Inspector
Players
Visual filters
Window layout
Full screen
Panes
Reset layout
Window
Object
Folder
Petrel
Studio
Studio
View
Insert
Search
Input
Search filter
Filter by keyword
Enter keyword
Data type
Spatial
Minimum elevation
Date range
User
Project
Data source type
Index
Perspective
Approximate Area (km sq) (Geofacets)
Author Affiliations(s) (Geofacets)
Author keyword(s) (Geofacets)
Author(s) (Geofacets)
Favorites
Layouts
Windows
Message log
Tasks
1


Input
Search filter
Search results
2
3
Demonstration Only License

VIEWING SEARCH RESULTS

SEARCH RESULTS TABLE

1. Once a search is executed, the *Geofacets Connector* results are displayed in the **Search Results** pane (Table View) and are indicated by a small **Geofacets Icon** preceding the Map ID.

2. Maps IDs in the **Search Results** Pane in which the **Geofacets Logo** is faded indicates that the map cannot be viewed in the **Petrel 2D window** or loaded into a Petrel project because the map is not georeferenced therefore, not available in a GeoTIFF format.

> Please refer to the **Frequently Asked Questions (FAQ)** section of this User Guide to learn more about why not all maps are georeferenced and converted to GeoTIFFs.

Even though the map cannot be viewed within the 2D window, users can view all bibliographic information and metadata about a map of interest.

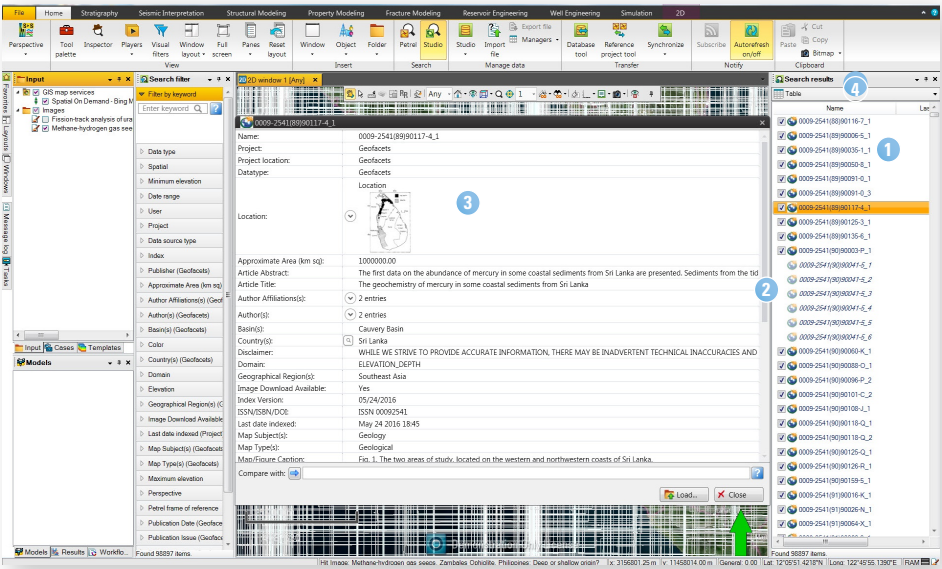
To view the map details within Petrel, double-click on the map result within the **Search Results Pane** (Table View) or right-click on the **Map ID** > **Details**.

3. The **Details** window lets you explore information about individual maps in your search results. Specific information and data related to the *Geofacets Connector* includes, **Bibliographic Information** about the publication in which the map was extracted, including but not limited to:

- Article Title
- Author(s)
- Author Affiliation
- Abstract
- Author Keywords
- Journal /Publication Title
- Publication date
- Publisher

In addition to bibliographic information, the Details window includes a wealth of information and Geofacets - specific metadata used to categorize and index the map:

- map coordinates
- coordinate system (when it can be determined)
- geographic regions, countries and basins covered by the map
- estimated map area (km2)
- map subject and map type (e.g., geological, facies, isopach, etc)



Please consult **Appendix A** for comprehensive list of all the metadata fields visible in the map Details, including brief description of each field.

4 In addition, within the Search Results pane, Petrel enables users to organize the search results into groups, with the **Search Results Tree**.

SEARCH RESULTS IN 2D WINDOW

After executing a search, you can zoom to view your search results in the *Geofacets Connector* **2D window**.

1. The map 'footprints' or areas are shown in the 2D window by white or orange outlines (when results are selected). In addition, the view contains a Geofacets Icon with the Map ID to indicate the location of the map results when the map footprints may or may not be visible, depending on the zoom level.

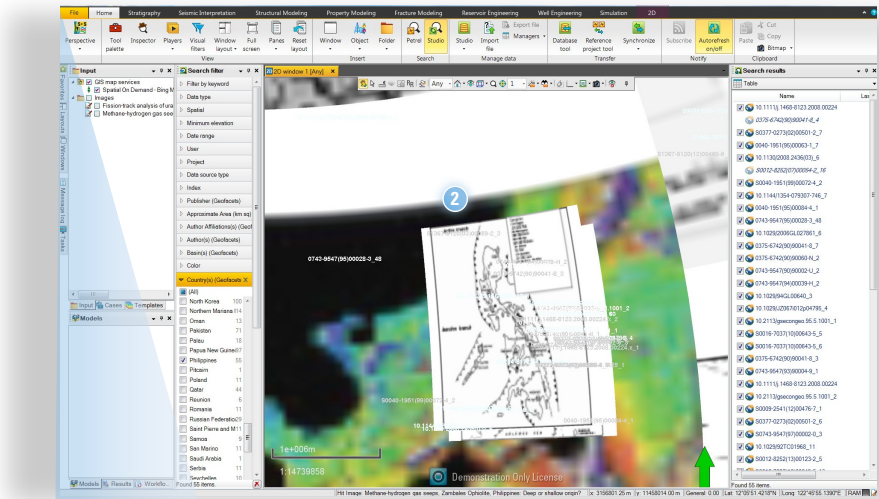
IMPORTANT NOTICE

The *Geofacets Connector* images displayed in the 2D window when searching and filtering are low resolution replica thumbnail images. However, the high resolution GeoTIFFS will be loaded into your Petrel project when you decide that you want to LOAD the image into your project; this is to ensure optimum performance and speed when downloading the index(es) and minimize the impact of storing the index(es) locally on your computer.

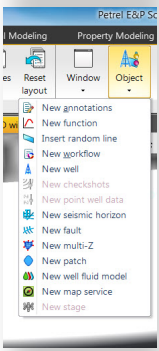
NOTE: If you DO NOT filter your results using the **Spatial Search Filter** or other geographic filter such as Basin, Country or Map Area, the map results set will contain maps of a variety of scales (i.e., <100 km2 to >1,000,000 km2.

2 You can zoom into any map result using the Petrel zoom functions or 'Zoom to Object(s)' tool, which is found by right-clicking or double-clicking on any Map ID result in the **Search Results** pane.

3 **TIP:** Give geographic context to your **Search Results** in your 2D window by easily linking to a variety of open access and subscription web map services to add world maps to your view; go to **Object** > **New Map Service**.

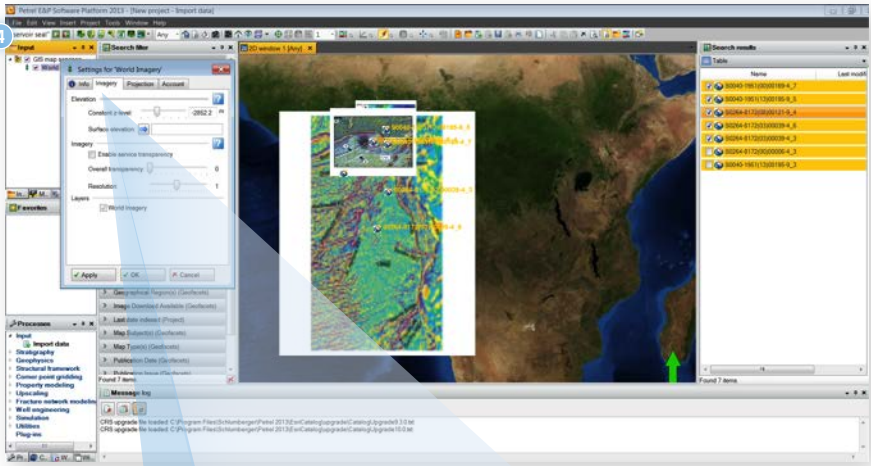


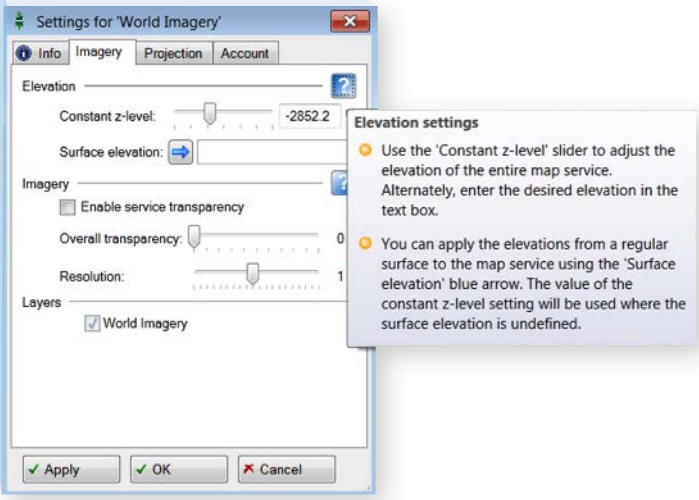
3



TIP: If you are having issues viewing all the maps in the 2D window as you toggle them on and off or scroll through the results set, you may have to adjust the elevation of the entire map service.

4 To do this go to the **Input** pane, right click on the map imagery you wish to adjust, select **Show Settings** > **Imagery** and adjust the elevation to a negative (-) value.





FILTERING SEARCH RESULTS

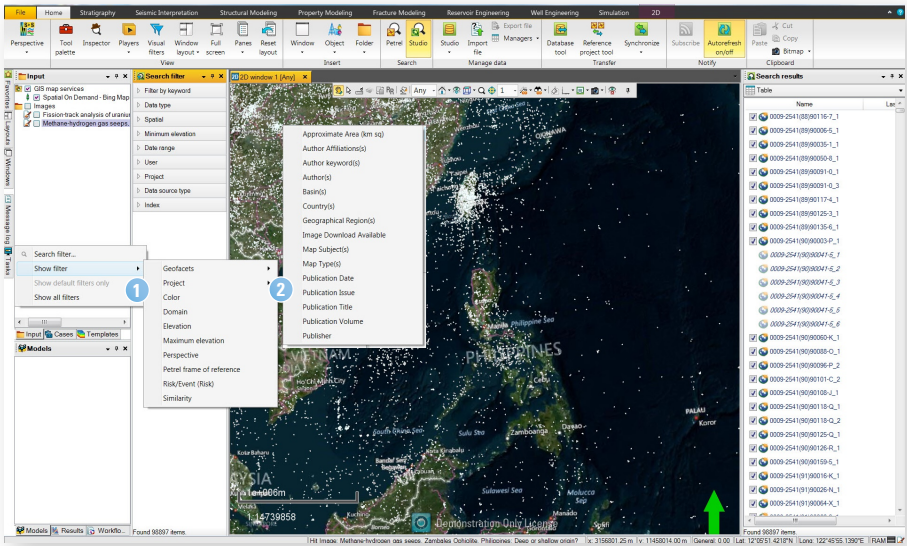
FILTERING WITH THE SEARCH FILTERS

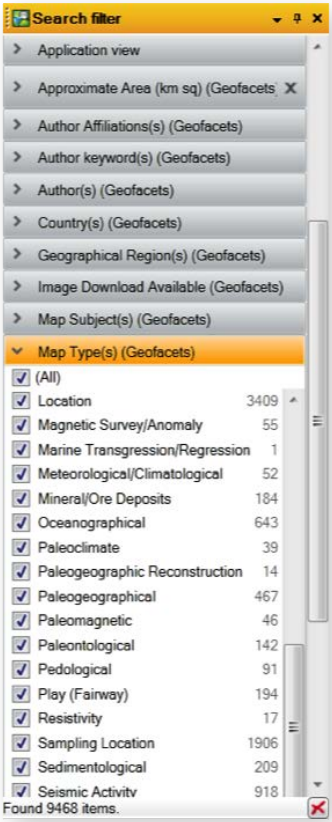
There are a variety of *Geofacets Connector*-specific **Search Filters**, in addition to the default Petrel **Search Filters**.

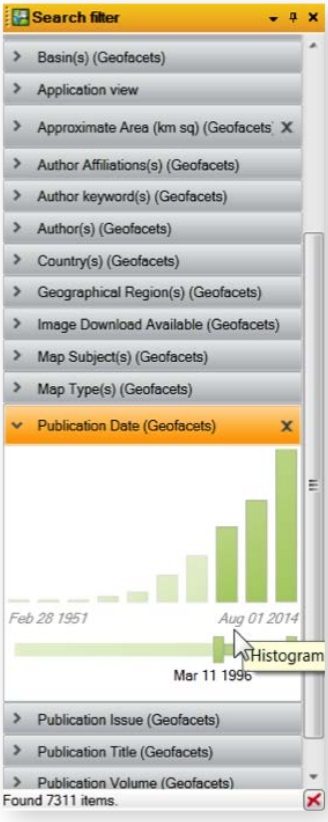
Geofacets has classified and indexed all of the maps in its database by map type, estimated map area (km2), geologic basin (based on IHS basin classification), author(s), author keyword(s), publisher, journal or publication title, and publication year, so that you can efficiently filter and refine your results to find the most relevant content quickly.

1. The *Geofacets Connector* **Search Filters** may be viewed by right-clicking on or within the **Search Filter** pane.

2. Select 'Show All' filters to view all Geofacets-specific filters (e.g., Basins, Countries, Map Type, Author, Journal Title, Publication Date, etc).







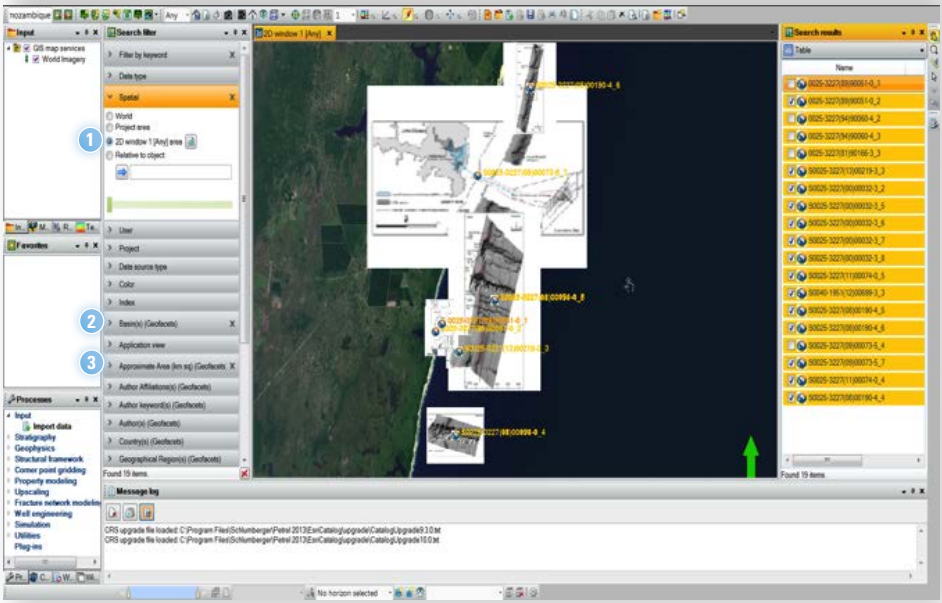
Geofacets Connector **Search Filters** are identified with the term "Geofacets" in brackets or parentheses, and just as with the Petrel default filters you can see the number of results for each term or attribute within a filter, and choose to filter results based on only one term or multiple terms as you would with any Petrel default filter.

The numbers following the Map Type names in the Map Type(s) filter indicate how many maps are classified and indexed with this map type. Note that a single map can have multiple map types associated with it. For example a map showing geological formations and structural features, in addition to seismic transect lines will be tagged with the ALL of the following map types:

- geological
- structural
- seismic survey

The example below shows the search results for a combined keyword search for “Mozambique” with the following filters applied:

1. **2D window Spatial** filter
2. **Basin** filter for “Mozambique Basin” only
3. **Approximate Area** filter (100 – 1000 sq. km)



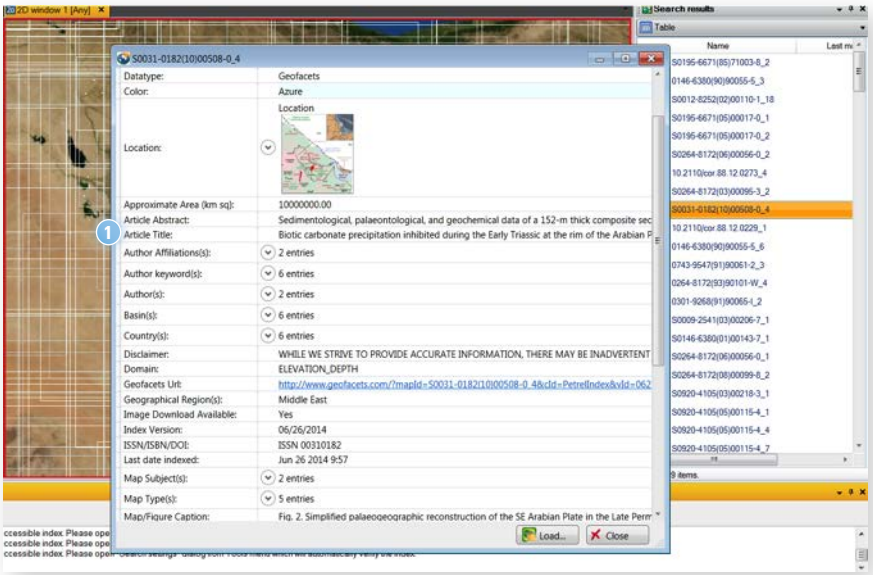
FILTERING WITH THE KEYWORD FILTER WITHIN THE MAP 'DETAILS'

In addition to filtering your results using the filters located under the **Search Filters** pane along the left side of the project window, you may also filter using specific attributes or terms associated with specific fields with Search Results' **Details** window.

1. In addition to the default fields Petrel enables users to filter by, the *Geofacets Connector* enables users to use this feature to filter by keyword for a range of relevant fields, which are listed below:

- Article Title
- Author Affiliation
- Author(s)
- Author Keywords
- Article Abstract
- Basin (s)
- Country
- Geographical Region
- Image Download Available
- ISSN/ISSB/DOI
- Map Subject
- Map Type(s)
- Map/Figure Caption
- Project Coordinate System
- Publication Issue
- Publication Title
- Publication Volume
- Publisher

To filter your results, click on the 'magnifying glass' icon that appears when hovering in the data fields, and the results will be filtered according to all the terms listed. Note that the search terms will be added to the **Filter by keyword** filter in the **Search Filter** pane.



LINKING TO GEOFACETS TO VIEW THE MAP ARTICLE

1. While there is a significant amount of information about the map and the associated article available to view within your Petrel project, if you would like to get greater insight about the map and the scientific article in which the map was extracted, you can link out to Geofacets.com by clicking on the ***Geofacets url*** *link.*

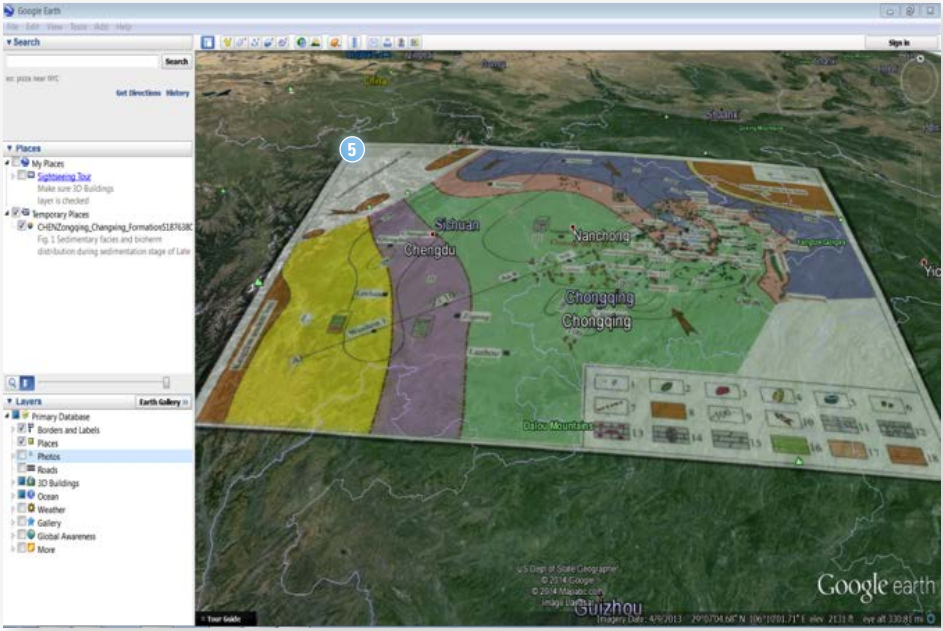
2. Via the ***Geofacets url***, the *Geofacets Connector* links you directly to Geofacets (assuming your company is IP authenticated) and opens the **Detailed Window** within the Geofacets product.

3. Within the *Geofacets* product, you can view all the same metadata (e.g., article title, authors, article abstract, map meta-data. etc) and link to a READ-ONLY PDF view of the article and related articles.

4. The READ-ONLY PDF is copy protected – you cannot download, save, or print the article. If you have a subscription to the online publication(s), you can link directly to the article at the publisher's website from within Geofacets as well.

5 Although the *Geofacets Connector* integrates the map GeoTIFFS seamlessly into Petrel, you can also download the map in many other image formats, such as KMZ for immediate viewing within Google Earth.

With the *Geofacets Connector,* you get knowledge, insight and integration in one platform.



LOADING MAPS INTO YOUR PROJECT

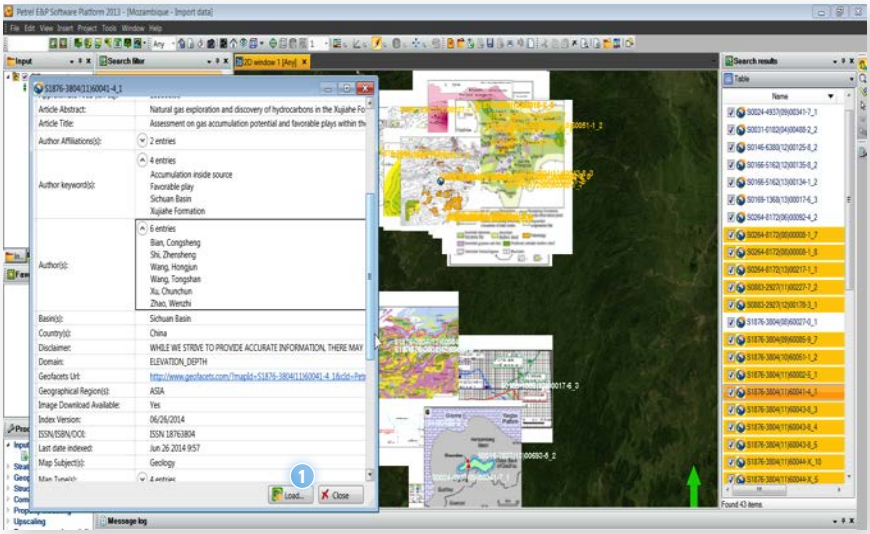
IMPORTANT NOTICE

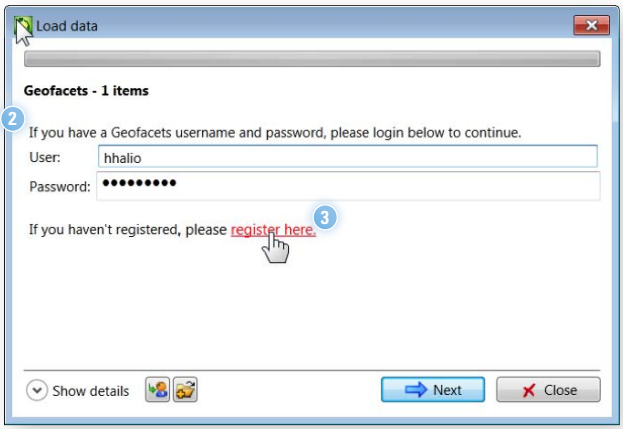
The *Geofacets Connector* images displayed in the 2D window when searching and filtering are low resolution replica thumbnail images. However, the high resolution GeoTIFFS will be loaded into your Petrel project when you decide that you want to LOAD the image into your project; this is to ensure optimum performance and speed when downloading the index(es) and minimize the impact of storing the index(es) locally on your computer.

1. Once you have selected the map(s) that you would like to load from the **Search Results** pane, open up the **Details** window, and click 'Load'.

2. You will be prompted to enter your registration username and password for Geofacets. After entering your username and password, click 'Next.'

3. If you do not have a username and password, click the link 'register here' which will take you the Geofacets.com registration page.





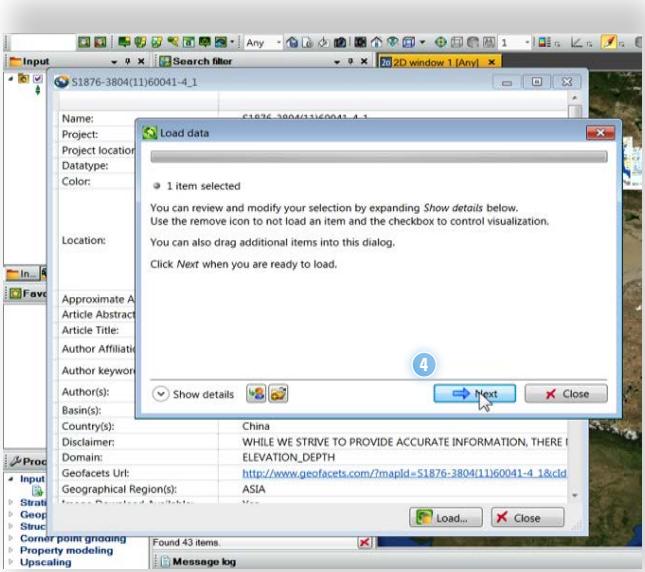
Registration gives you additional benefits when using Geofacets.com, such as saved searches, setting up your own personal alerts to notify you when we add map content relating to a specific geographic area (e.g., North Carnarvon Basin) or subject (e.g., carbonate reservoirs).

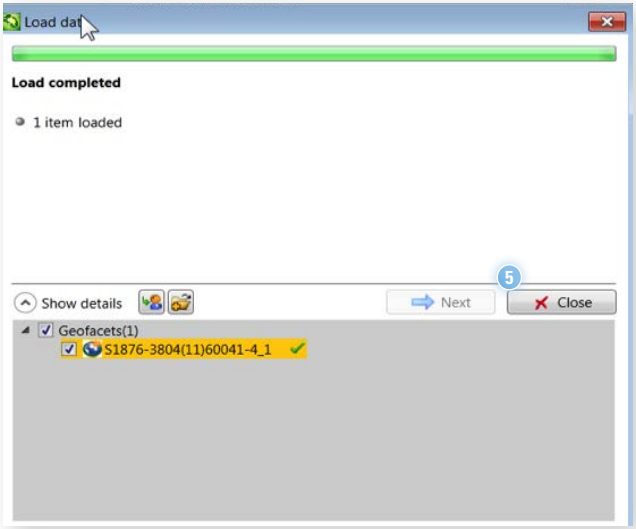
After you successfully register, return to your Petrel project. You can either close Geofacets.com or keep it open in your browser.

4. Returning to Petrel, in the **Load Data** dialog, click 'Next' to continue the loading process, and wait for the map to load.

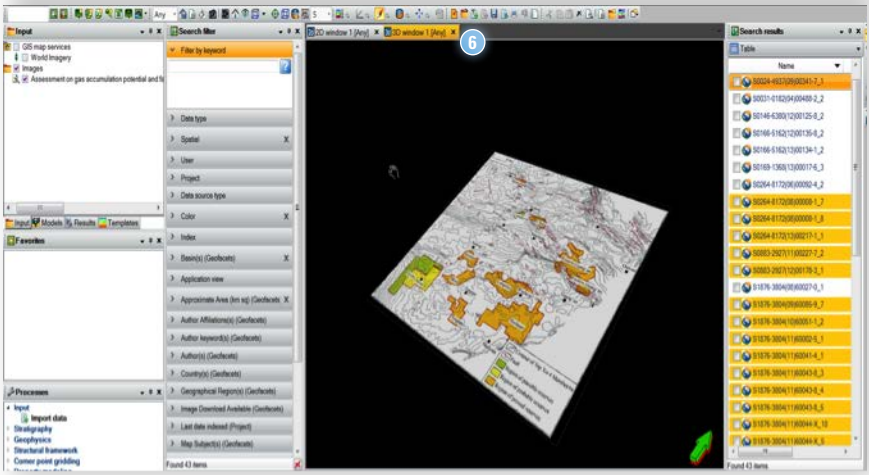
5. Once the load has been successfully completed, close the **Load data** dialog.

6. To view the map in either the 2D or 3D window, turn on the map image by going to the **Input** pane and **Imagery folder** and select the image.





Note: Your project must contain the correct cartographic transformation entries for certain datums and projection coordinate systems.



Additional integration, manipulation, and modeling of the map(s) using the variety of Petrel modules and plugin is beyond the scope of this user guide.

FREQUENTLY ASKED QUESTIONS

ABOUT THE CONTENT

WHAT INFORMATION AND CONTENT IS INCLUDED IN GEOFACETS AND THE *GEOFACETS CONNECTOR?*

Maps from the publishers aboves can be found in Geofacets

*For a complete journal and publication list see Appendix A

DOES THE *GEOFACETS CONNECTOR* OFFER CONTENT OTHER THAN MAPS?

Yes. In addition to providing downloadable maps sourced from the scientific literature, Geofacets and the *Geofacets Connector* provides access to valuable contextual information for each available map that includes meta data, article information and abstract, and links to a full-text, read-only PDF of the associated journal article.

DOES GEOFACETS CONTAIN MAPS AND INFORMATION RELATED ONLY TO OIL & GAS?

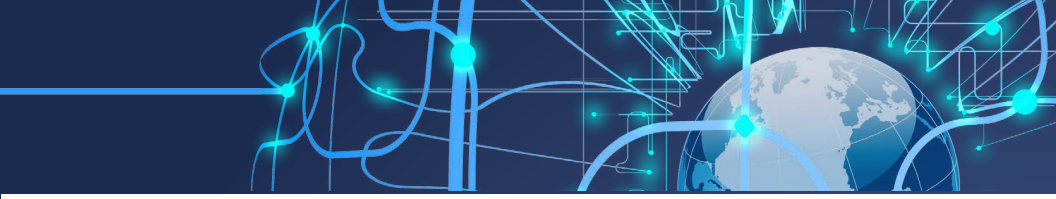
While the *Geofacets Connector* includes journals most relevant to the oil & gas industry, it also includes content related to other industries such as mining, and geosciences disciplines (e.g., climatology, geochemistry, volcanology, paleontology). Since Geofacets offers users the ability to filter content by unique map attributes such as map type (e.g., isopach, facies, etc), petroleum basin, or keyword, it is the most efficient way to find the relevant information you are looking for.

WILL I BE ABLE TO FIND ARTICLES THAT DO NOT CONTAIN ANY MAPS?

No. Only journal articles with maps are included in Geofacets.

HOW OFTEN IS THE CONTENT UPDATED?

As new journal articles featuring maps and other data are published in the journals and publications, we update Geofacets and the *Geofacets Connector* Indices with these new maps on an ongoing, monthly basis. On average, 2000 maps are added on a monthly basis.



WHAT GEOGRAPHIC AREAS ARE COVERED BY GEOFACETS AND THE *GEOFACETS CONNECTOR*?

There is no geographic limitation to the geographic areas that Geofacets covers. Subscribers have access to the global database, thereby eliminating the requirement of buying location modules to access content for specific regions. In addition, because Geofacets can be used to find geological analogs (i.e., salt dome tectonics, prograding delta, etc.), global access means you can discover relevant content that you did not know existed.

DO I STILL NEED SCIENCEDIRECT OR ACCESS TO OTHER PUBLISHER PLATFORMS IF I HAVE A SUBSCRIPTION TO GEOFACETS AND THE *GEOFACETS CONNECTOR*?

Geofacets and *Geofacets Connector* subscribers can access and download maps, and users can view a read-only PDF of each individual map's associated full-text scientific article, if they wish to better understand the map within the article context. Without a ScienceDirect subscription or subscription to our content partners' subscription platforms, Geofacets subscribers can only view a read-only PDF of the article, which cannot be saved, downloaded or printed. Hyperlinks to referenced, related and cited articles are not active within the read-only PDF.

IS THERE A FEE FOR ACCESSING THE FULL ARTICLE FROM WHICH A MAP IS SOURCED?

All subscriptions include access to a Read-Only PDF that allows the user to view the map source article via Geofacets and the *Geofacets Connector*.

In order to print or save the article, click the link in the Detail Window to access the publisher's web portal (i.e. ScienceDirect for Elsevier publications, The Lyell Collection page for the Geological Society of London publications, etc.). From there, an additional subscription is required for full-rights access or the individual article may be purchased. For more information about fees and subscriptions, please contact the appropriate journal or publication.

ARE ONLY JOURNALS IN ENGLISH LANGUAGE REFERENCED?

At present, the Geofacets content base contains only English language publications.

WILL YOU BE ADDING MAPS FROM OTHER SOCIETIES/SOURCES?

We are always looking for quality and relevant content partners. Please check the Product Release section for the latest information. In addition, we are continually updating our existing content base by adding maps weekly as new journal volumes are published.

ABOUT THE MAPS, MAP METADATA, AND OTHER DATA

HOW ARE BASINS DEFINED IN GEOFACETS AND THE *GEOFACETS CONNECTOR*?

Geofacets and the *Geofacets Connector* maps are indexed using IHS's geologic basin classification. IHS is a well-respected global provider of technical information, decision-support tools and resources for the energy industry.

Links to the publisher sites are provided for those who have subscription access to the various publisher platforms or those who do not but would like to purchase the article on a pay-per-view basis.

WHAT IS THE RANGE OF MAP SURFACE AREAS/SCALES AVAILABLE?

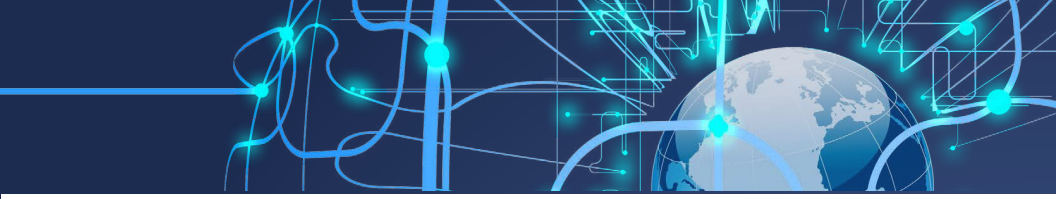
Maps are available at a variety of scales, depending on the publication and maps the author chose to convey geospatial information. For example, approximately 40% of the maps from the journal Petroleum Geoscience (ISSN 1747-5457) have areas less than 1,000 square miles (sq. mi.). Petroleum Geoscience contains many articles about individual petroleum systems at the field level, resulting in many large-scale (smaller area of coverage) maps. The journal Gondwana Research (ISSN 1342-937) primarily contains maps with areas between 100,000 sq. mi. and 10,000,000 sq. mi. because its articles are concerned with the origin and evolution of continents.

WHY ARE NOT ALL MAPS AVAILABLE AS .GEOTIFFS OR SIMILAR FILE FOR LOADING INTO MY PETREL PROJECT?

Maps that cannot be georeferenced cannot be converted to a .geotiff file format, and therefore cannot be loaded into a Petrel project.

There are a few possible scenarios for why maps are not available as .geotiffs and cannot be loaded into a Petrel project:

- If a map is hand-drawn with errors introduced, which is common to maps generated prior to the mid-1990's when computers were not regularly used to generate maps
- If a map's scale cannot be determined or the scale is distorted
- If our modern day coordinate system does not apply to a map, i.e., for paleogeographic maps which depict geographic locations and movement of continents through geologic time
- If a map's geographic coordinate system or projection cannot be determined
- If a map has no geographic coordinates and/or geographic identifiers (e.g., countries, cities, states, etc) that can be used as a reference point
- If the .geotiff is corrupted
- If there is an error in the coordinates, coordinate referenced system or other geographic information during processing that defies the real-world coordinate system logic



Note, that even if some maps are not available for loading into your Petrel project, you can always download the maps as TIFF or JPEG files from the Geofacets url found in the individual map **Details** dialog.

WHY ARE LEGENDS AND KEYS OFTEN NOT INCLUDED WITH THE MAP I HAVE LOADED INTO MY PROJECT?

Based on user feedback, maps legends and keys have been cropped out so that they do not obstruct the view when integrating into your project with other data. However, in some cases it is quite difficult to crop or remove the legend and so the map is georeferenced including the legend. Using the Geofacets link included in the map **Details** dialog, you can link out to Geofacets to the "original image" tab in the Detailed Window to view the legend as it appeared in the journal article publication.

CAN I SEARCH FOR GEOLOGICAL CROSS-SECTIONS IN GEOFACETS?

Many publications in Geofacets contain geological cross-sections. However, cross-sections are not available as an extracted image at this time. Users can refine search results to the map types: Structural, Stratigraphic Units/Deposits, Seismic Survey, and Borehole/Corehole Location as geological cross-sections are frequently located in the associated publications for these map types. Users can also perform a keyword search or keyword refinement for "cross section".

CAN WE CREATE CROSS-SECTIONS USING THE MAPS FROM GEOFACETS?

The ability of a user to create cross-sections or other geological interpretations from Geofacets depends on the geographic area of interest and the research publications that exist in that area.

HOW DO I KNOW THAT THERE IS A SUFFICIENT LEVEL OF QUALITY CONTROL FOR HOW MAPS FROM GEOFACETS ARE GEOREFERENCED?

Maps are georeferenced by trained staff and must pass strict screening criteria to ensure proper geographic information is present before being georeferenced. The map must contain an adequate number of coordinate pairs (marked latitude/longitude intersections) and/or geographic identifiers must exist in at least three map quadrants for a map to be georeferenced. All other maps (about 25%) are geolocated (approximate map location is determined using information from the caption or title).

Georeferenced map alignment accuracy is checked by:

- Visually comparing the alignment of map control points with a basemap.
- Assessing the root mean square (RMS) error of the georeferenced control points compared to control point on the basemap. Lower RMS error indicates that control points on the basemap and georeferenced map are closely aligned. However, alignment error may still be present in maps with a low RMS error.
- Comparing the measure of the scale bar to the same distance measured on the base map, if present.

INTEGRATION FEATURES

CAN GEOFACETS AND THE *GEOFACETS CONNECTOR* INTEGRATE WITH OTHER TOOLS?

The *Geofacets Connector for Petrel and Studio* was developed specifically for enabling users to search, discover and integrate Geofacets content within their Petrel E&P platform.

However, subscribers to the *Geofacets Connector* can assess the the web-based Geofacets product (www.geofacets.com) at any time, enabling user to downloaded maps in a variety of formats (GeoTIFF or KMZ) from your web browser for integration into other GIS platforms. Non-georeferenced maps may be downloaded in TIFF format, and all maps are available in JPEG format. See our videos on this topic: GIS Integration and KMZ Download.

IS VECTOR DATA AVAILABLE AT THIS TIME, VIA GEOFACETS?

Georeferenced maps may be downloaded in GeoTIFF or KMZ raster image format. No content is available as vector data at this time.

HOW MANY MAPS ARE GEOREFERENCED AND CAN BE LOADED INTO PETREL?

Approximately, 75% maps are georeferenced and can be loaded into your Petrel project.

WHY ARE SOME OF THE MAPS FADED OUT IN THE SEARCH RESULTS TABLE?

While all maps from Geofacets are downloadable as TIFF or JPEG files, there are a few possible scenarios for why maps found in Geofacets could not be georeferenced:

- If a map is hand-drawn with errors introduced, which is common to maps generated prior to the mid-1990's when computers were not regularly used to generate maps
- If a map's scale cannot be determined or the scale is distorted
- If our modern day coordinate system does not apply to a map, i.e., for paleogeographic maps which depict geographic locations and movement of continents through geologic time
- If a map's geographic coordinate system or projection cannot be determined
- If a map has no geographic coordinates and/or geographic identifiers (e.g., countries, cities, states, etc) that can be used as a reference point

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CONTENT USAGE PERMISSIONS

CAN I USE THE MAPS FROM GEOFACETS AND THE GEOFACETS CONNECTOR IN THE PUBLIC DOMAIN?

Geofacets customers must comply with all terms of their subscription agreement and the terms and conditions associated with each map, including restrictions on republishing the original or modified maps. Any public display or republishing must be cleared by the copyright holder, however any internal use is allowed. The terms and conditions for map use vary based on publisher and may be accessed via the Detail Window.

ADDITIONAL TRAINING AND SUPPORT RESOURCES

Please visit **www.elsevier.com/geofacets** for more information on Geofacets, including FAQ's, training videos, and a link to the Geofacets User Guide.

APPENDIX A

DESCRIPTION OF GEOFACETS CONNECTOR FIELDS IN THE MAP 'DETAILS' WINDOW

FIELD	DESCRIPTION
MAP ID	Map ID from the Geofacets Connector Index.
PROJECT	Default field defined by Petrel.
PROJECT LOCATION	Default field defined by Petrel.
DATATYPE	This is the index/database name.
COLOR	This is the description of the map color (e.g., black & white, color).
LOCATION	Low resolution map thumbnail image. The high-resolution map is available when end users load Geofacets Connector map into their Petrel project.
APPROXIMATE AREA (KM2)	This is the surface area of the map.
ARTICLE TITLE	This is the article title.
AUTHOR AFFILIATION	These are the affiliations of the authors.
AUTHOR(S)	List of authors of the journal article.
AUTHOR KEYWORDS	These are the author defined keywords.
ARTICLE ABSTRACT	This is the abstract of the article. At the end of the abstract will be a link that when clicked on by the user, will open up the Map Detailed Window in Geofacets where the user is authenticated and can view the Map and the Read-Only PDF of the article.
BASIN (S)	This is the basin(s) that the map covers.
COUNTRY	This is the country(s) that the map covers.
DISCLAIMER	This is general legal disclaimer regarding images and accuracy.
DOMAIN	Default field defined by Petrel.
GEOFACETS URL	The url to link users to the Map record in at Geofacets.com. In addition, to viewing the map and map details, users can view a READ-ONLY PDF version of the article or access the article at the publishers website.
GEOGRAPHICAL REGION	This is the region the map covers
IMAGE DOWNLOAD AVAILABLE	Indicates whether the map be loaded into Petrel

FIELD	DESCRIPTION
INDEX VERSION	This is the date in which the index was created.
ISSN/ISSB/ DOI	This is the ISSN number of the journal publication.
LAST DATE INDEXED	
MAP SUBJECT	This is the Map Subject.
MAP TYPE(S)	This is the Map Type
MAP/FIGURE CAPTION	This is the caption of the map image as defined in the journal article.
MAXIMUM ELEVATION	Default field defined by Petrel.
MINIMUM ELEVATION	Default field defined by Petrel.
PAGE NUMBER OF MAP IN ARTICLE	Page number that the map can be found in the article.
PAGE RANGE	These are the page numbers in which the article is located in the Source Title
PROJECT COORDINATE SYSTEM	Coordinate system of map GeoTIFF
PUBLICATION DATE	Date that the map and article were published.
PUBLICATION ISSUE	Publication issue of the journal article and map.
PUBLICATION TITLE	The title of the journal or special publication.
PUBLICATION VOLUME	Publication volume of the journal article and map.
PUBLISHER	This is the publisher/content source of the map/article.
TERMS & CONDITIONS OF IMAGE USE	*Information about copyright protections and ownership; what you can and cannot use Geofacets map images and information obtaining permissions for its re-use.*
TERMS & CONDITIONS OF GEOFACETS	*Link to Geofacets.com Terms & Conditions*

GEOFACETS
from ELSEVIER
Petrel
Studio