

USER GUIDE

The CNSOPB Data Management Centre (DMC) is designed to provide registered users with access to non-confidential petroleum exploration and production data from offshore Nova Scotia, subject to certain conditions.

Access to the DMC is facilitated via an online web map interface, accessible 24/7 globally using any standard web browser on a device connected to the internet. There is no requirement to install third-party plugins in order to use the interface.

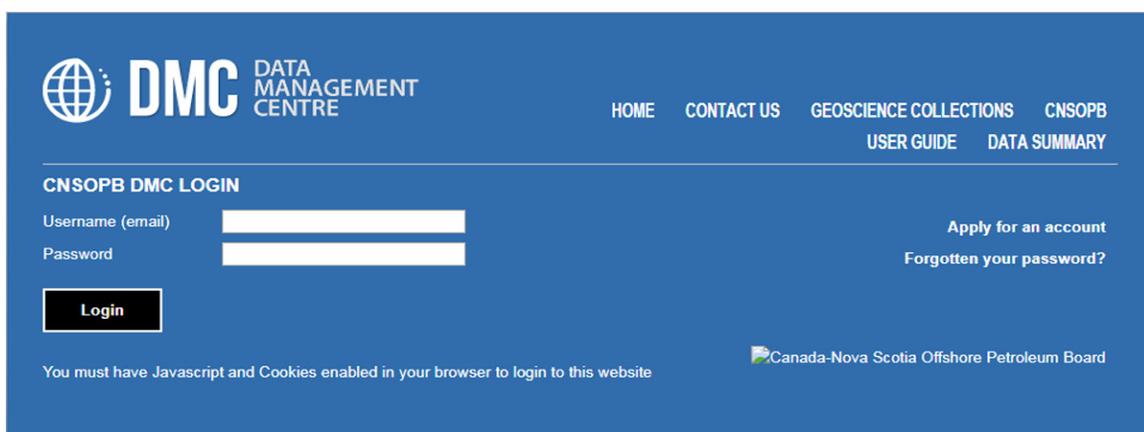
Any technical questions or issues concerning access to the DMC should be forwarded to dmcsupport@cnsopb.ns.ca

DMC User Account Registration:

The URL to access the DMC is <https://cnsopbdigitaldata.ca/>

First time users will need to click the 'Apply for an account' link in order to register themselves, and agree to the Terms and Conditions. Submitted applications are then reviewed by CNSOPB, and an email will follow to confirm approval of the account, with a link to set your account password.

Existing account users who have forgotten their passwords can reset them by clicking the 'Forgotten your password' link.

A screenshot of the DMC login page. The page has a blue header with the DMC logo and navigation links: HOME, CONTACT US, GEOSCIENCE COLLECTIONS, CNSOPB, USER GUIDE, and DATA SUMMARY. Below the header is a 'CNSOPB DMC LOGIN' section with two input fields for 'Username (email)' and 'Password', and a 'Login' button. To the right of the input fields are links for 'Apply for an account' and 'Forgotten your password?'. At the bottom, there is a note: 'You must have Javascript and Cookies enabled in your browser to login to this website' and the 'Canada-Nova Scotia Offshore Petroleum Board' logo.

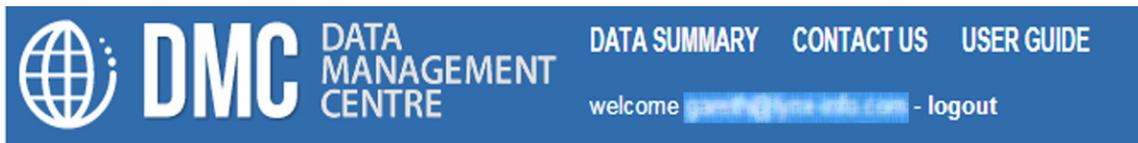
DMC Web Map Interface orientation:

New login sessions to the DMC web map are preceded with a Data Access & Confidentiality Agreement statement, which the user must accept in order to proceed.

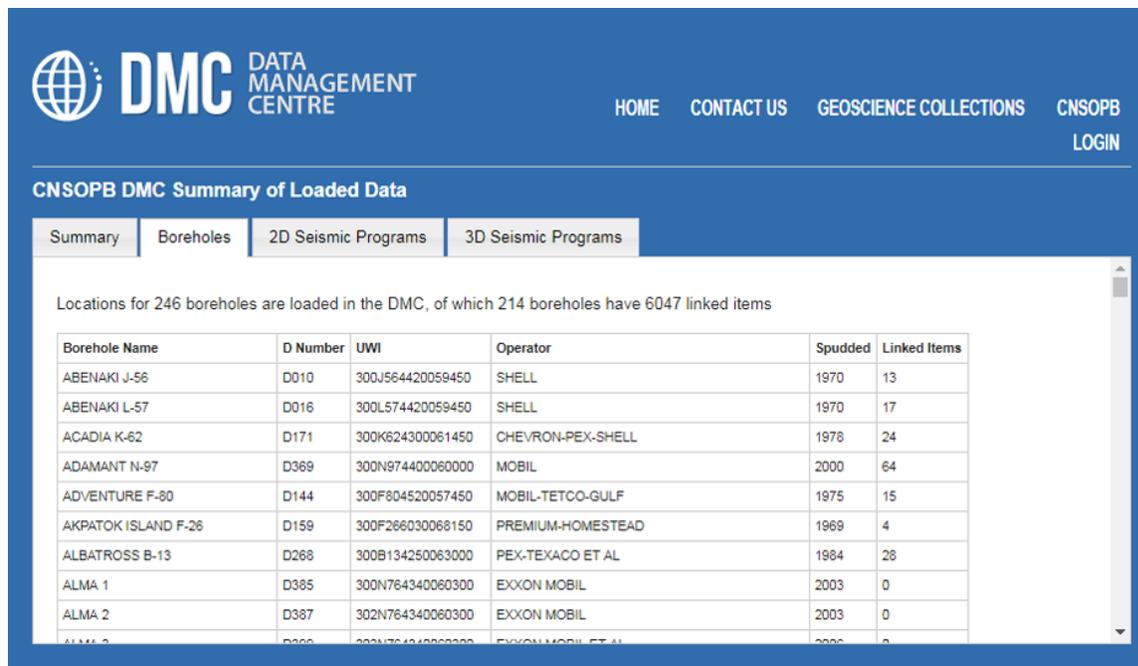
Following this, your DMC web map exploration can begin!

The interface has been designed to provide a straightforward and intuitive experience to the user, and little explanation is needed to get started. Navigation around the map is supported by left-mouse button drag, or finger-touch swiping on a touch-enabled tablet screen; Zoom-in and out of the map is facilitated by use of the two zoom buttons on the tool bar, mouse-wheel action, or pinch/zoom gestures on a tablet.

The top banner area provides links to a *DATA SUMMARY* page, a *CONTACT US* email link, and the *USER GUIDE* pdf link (this document).



Data Summary provides a link to a page with a breakdown of the quantities of map features and linked PDF items loaded for each of the different data categories. This is also a useful starting point in order to discover the names of the drilled boreholes and various seismic programs currently shown in the DMC, alongside Operator names and Year spudded/acquired.



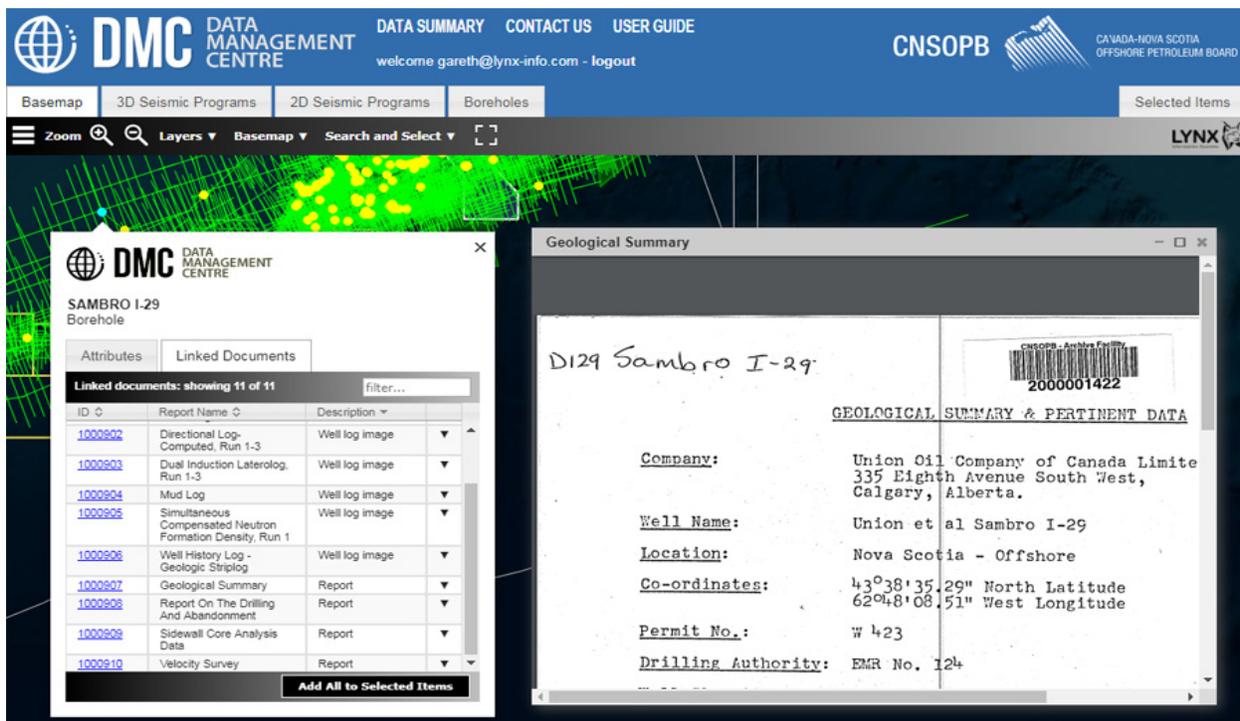
DMC Web Map Interface Search & Select:

There are a number of approaches that the user may take in order to select, view and retrieve data loaded to the DMC.

The simplest approach – perhaps useful to the user who can already pinpoint a particular borehole or 3D program of interest – is **simple point-and-click** to select a feature. This action will result in a pop-up window display with two tab views. The first ‘Attributes’ tab displays the metadata of the selected feature, whilst the ‘Linked Documents’ tab provides a tabular list of all the loaded items associated with the feature. A text entry box provides on-the-fly list filtering in order to find e.g. all Reports associated with a selected borehole.

Viewing of items directly in the interface is achieved by clicking on one of the item rows, which will load the PDF file into the browser’s PDF viewer.

Download of items is enabled by clicking the ‘Add All to Selected Items’ button in the bottom right of the pop-up. This adds the items to the Selected Items area (top right of the interface), from where the user can proceed to download all listed data items (more on this later).



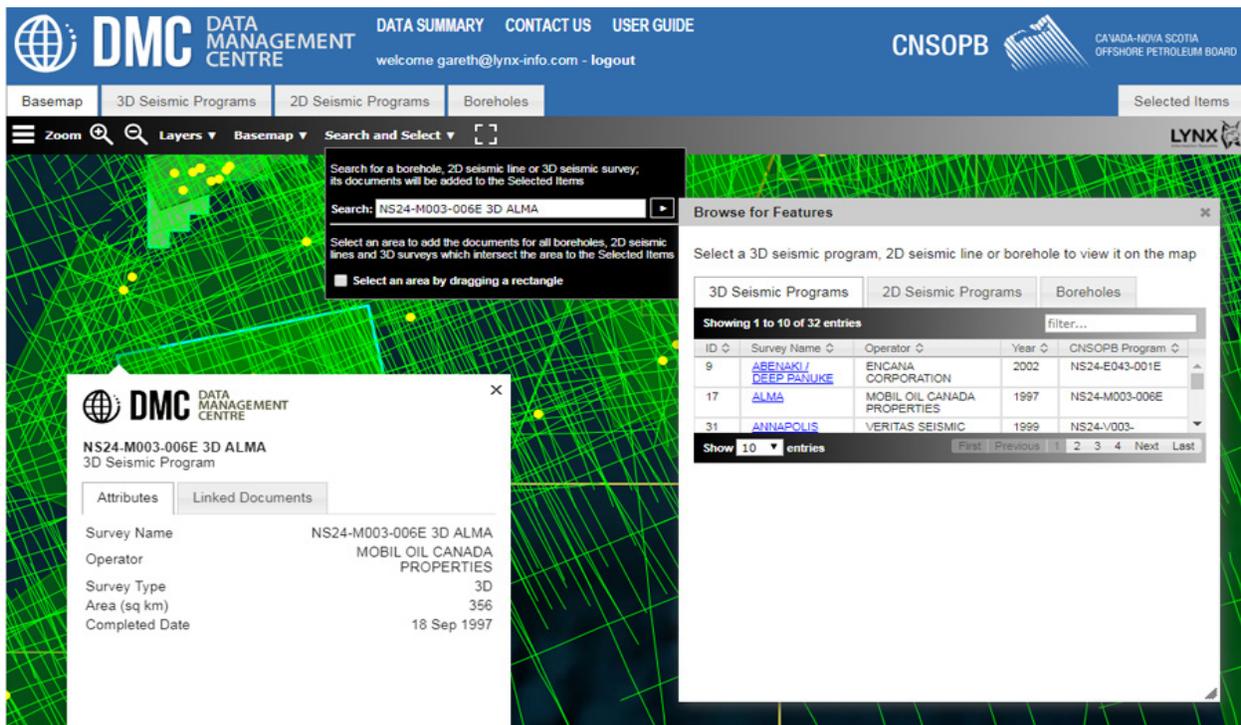
The screenshot displays the DMC web interface. At the top, there is a navigation bar with the DMC logo, 'DATA MANAGEMENT CENTRE', and links for 'DATA SUMMARY', 'CONTACT US', and 'USER GUIDE'. A user login area shows 'welcome gareth@lynx-info.com - logout'. On the right, the 'CNSOPB' logo and 'CANADA-NOVA SCOTIA OFFSHORE PETROLEUM BOARD' are visible. Below the navigation bar, there are tabs for 'Basemap', '3D Seismic Programs', '2D Seismic Programs', and 'Boreholes'. A 'Selected Items' button is located on the far right. The main map area shows a green grid with yellow dots representing boreholes. A pop-up window titled 'SAMBRO I-29 Borehole' is open, showing two tabs: 'Attributes' and 'Linked Documents'. The 'Linked Documents' tab is active, displaying a table of 11 linked documents. Below the table is an 'Add All to Selected Items' button. To the right of the pop-up, a 'Geological Summary' window is open, showing a scanned document for 'D129 Sambro I-29'. The document includes a barcode with the number '2000001422' and the title 'GEOLOGICAL SUMMARY & PERTINENT DATA'. The summary lists the following information:

GEOLOGICAL SUMMARY & PERTINENT DATA	
<u>Company:</u>	Union Oil Company of Canada Limited 335 Eighth Avenue South West, Calgary, Alberta.
<u>Well Name:</u>	Union et al Sambro I-29
<u>Location:</u>	Nova Scotia - Offshore
<u>Co-ordinates:</u>	43°38'35.29" North Latitude 62°48'08.51" West Longitude
<u>Permit No.:</u>	W 423
<u>Drilling Authority:</u>	EMR No. 124

A second approach is to use the **Search and Select** function available from the toolbar.

This can be used to select features by one of two methods: the first is to use the ‘Select an area by dragging a rectangle’, enabling features to be selected graphically (but note that there is a maximum selection area size of 10,000 square km).

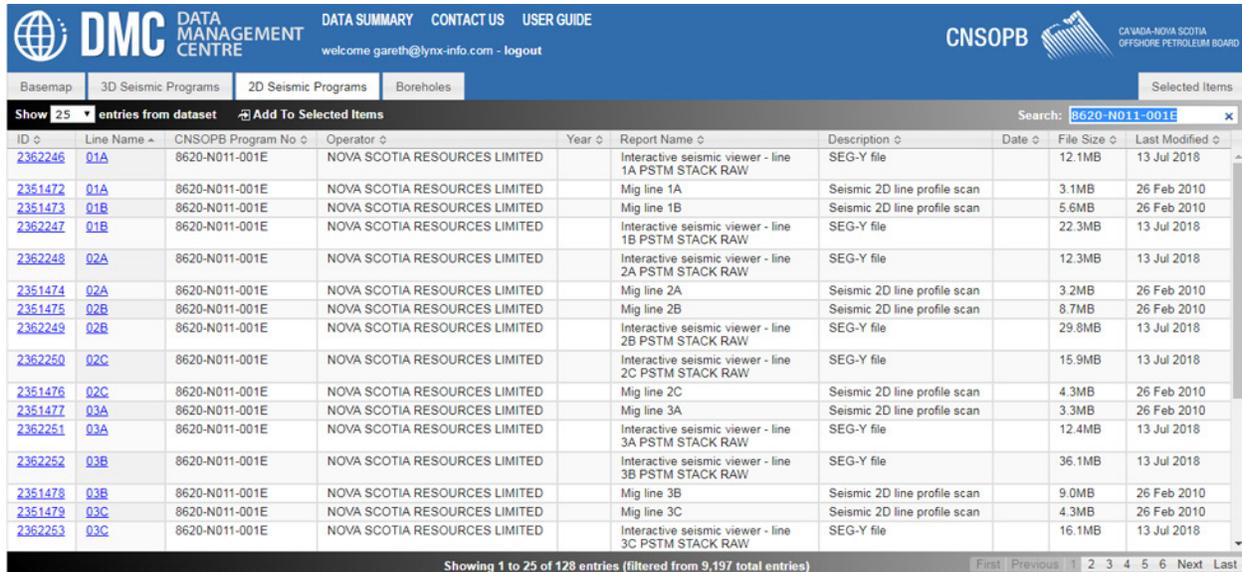
A second, more guided method, is to use the Search box to enter a known feature name, or to use the Browse for Features box in conjunction with this.



A third approach is to bypass the basemap display and to select items directly from the **tabular list displays** that can be accessed by clicking on the tabs above the toolbar.

These tabs display the entire list (showing 25 entries per page by default – although this can be changed to a maximum of 100) of items loaded for each of the three layer categories.

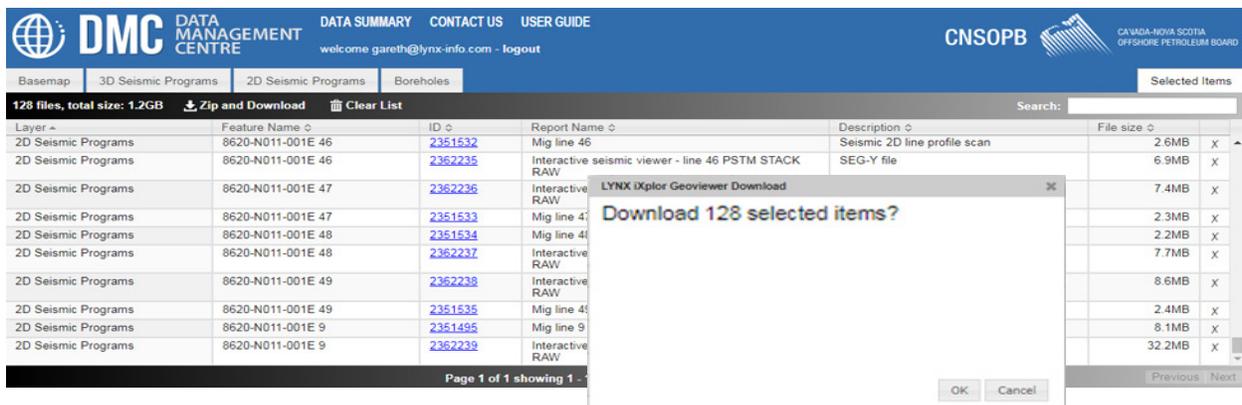
Selecting items using the **tabular list displays** is perhaps most useful when selecting all items associated with a particular 2D seismic program. Use the Search box feature to type in the name of a 2D program, and this will filter all item records for that program. The screenshot beneath show the 2D items listed under program '8620-N011-001E'. Note that clicking in the ID cell for an item will launch the item viewer, whilst item metadata can be viewed by clicking in the Line Name cell.



ID	Line Name	CNSOPB Program No	Operator	Year	Report Name	Description	Date	File Size	Last Modified
2362246	01A	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 1A PSTM STACK RAW	SEG-Y file		12.1MB	13 Jul 2018
2351472	01A	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 1A	Seismic 2D line profile scan		3.1MB	26 Feb 2010
2351473	01B	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 1B	Seismic 2D line profile scan		5.6MB	26 Feb 2010
2362247	01B	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 1B PSTM STACK RAW	SEG-Y file		22.3MB	13 Jul 2018
2362248	02A	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 2A PSTM STACK RAW	SEG-Y file		12.3MB	13 Jul 2018
2351474	02A	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 2A	Seismic 2D line profile scan		3.2MB	26 Feb 2010
2351475	02B	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 2B	Seismic 2D line profile scan		8.7MB	26 Feb 2010
2362249	02B	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 2B PSTM STACK RAW	SEG-Y file		29.8MB	13 Jul 2018
2362250	02C	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 2C PSTM STACK RAW	SEG-Y file		15.9MB	13 Jul 2018
2351476	02C	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 2C	Seismic 2D line profile scan		4.3MB	26 Feb 2010
2351477	03A	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 3A	Seismic 2D line profile scan		3.3MB	26 Feb 2010
2362251	03A	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 3A PSTM STACK RAW	SEG-Y file		12.4MB	13 Jul 2018
2362252	03B	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 3B PSTM STACK RAW	SEG-Y file		36.1MB	13 Jul 2018
2351478	03B	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 3B	Seismic 2D line profile scan		9.0MB	26 Feb 2010
2351479	03C	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Mig line 3C	Seismic 2D line profile scan		4.3MB	26 Feb 2010
2362253	03C	8620-N011-001E	NOVA SCOTIA RESOURCES LIMITED		Interactive seismic viewer - line 3C PSTM STACK RAW	SEG-Y file		16.1MB	13 Jul 2018

Clicking the 'Add to Selected Items' button will transfer all records *per page* to the **Selected Items** area. So for large lists of items, it is sensible to show the maximum list of 100 entries in order to reduce the number of pages and hence the button-clicking needed.

From the Selected Items area, click 'Zip and Download' in order to download the files to your local drive area.



Layer	Feature Name	ID	Report Name	Description	File size	
2D Seismic Programs	8620-N011-001E 46	2351532	Mig line 46	Seismic 2D line profile scan	2.6MB	x
2D Seismic Programs	8620-N011-001E 46	2362235	Interactive seismic viewer - line 46 PSTM STACK RAW	SEG-Y file	6.9MB	x
2D Seismic Programs	8620-N011-001E 47	2362236	Interactive RAW		7.4MB	x
2D Seismic Programs	8620-N011-001E 47	2351533	Mig line 47		2.3MB	x
2D Seismic Programs	8620-N011-001E 48	2351534	Mig line 48		2.2MB	x
2D Seismic Programs	8620-N011-001E 48	2362237	Interactive RAW		7.7MB	x
2D Seismic Programs	8620-N011-001E 49	2362238	Interactive RAW		8.6MB	x
2D Seismic Programs	8620-N011-001E 49	2351535	Mig line 49		2.4MB	x
2D Seismic Programs	8620-N011-001E 9	2351495	Mig line 9		8.1MB	x
2D Seismic Programs	8620-N011-001E 9	2362239	Interactive RAW		32.2MB	x

Interactive SEG-Y and LAS viewers:

A number of boreholes and a smaller number of 2D/3D programs have digital vector data available for download. The DMC web map provides the option to load and enable viewing of these data types via two interactive viewers (Lynx *iSeisview* and *iLogview*) which work to render and serve SEG-Y and LAS records securely over the internet.

Currently, LAS files can be viewed for 3 boreholes: CREE E-35, DOMINION J-14 & MARCOH D-41. SEG-Y files can be viewed for the 2D program 8620-N011-001E and the 3D program NS24-N011-001E

