



Newfoundland and Labrador

Canada

Booth # 226

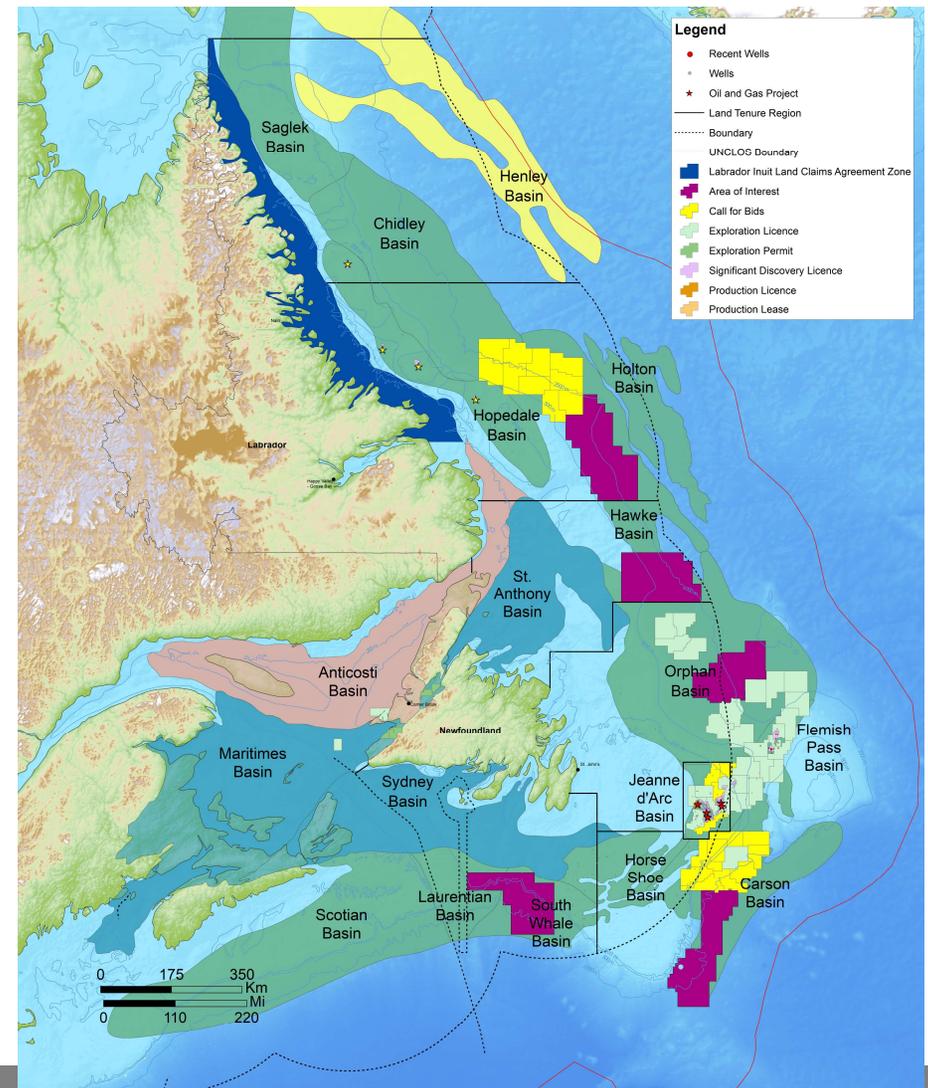
Strategic Location and Excellent Prospectivity

- Newfoundland and Labrador is one of Canada's premier energy producing areas with annual light crude production of 84 million barrels (or 230,151 bpd) in 2018
- 5 offshore fields produce ~25% of Canada's conventional light crude oil
- Total expenditures from 1966-2017 in NL's offshore area is \$59.4 billion
- Discovered resources: 4.3 Bbbls of oil, 12.6 Tcf of natural gas.
- Total cumulative oil production is 1.83 billion barrels over 20 years



Regional Overview

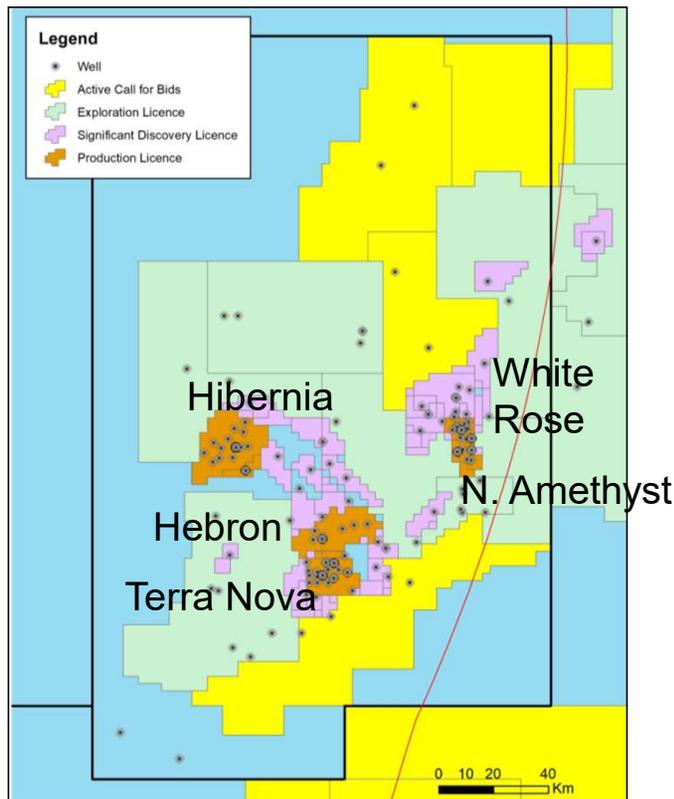
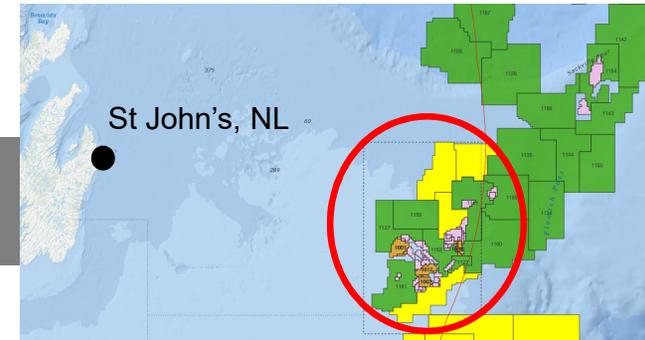
- Offshore area of 1.8 million km² or 445 million acres
- 3% held under license
- Production on the shelf for now and deep-water exploration drilling



Ferryland



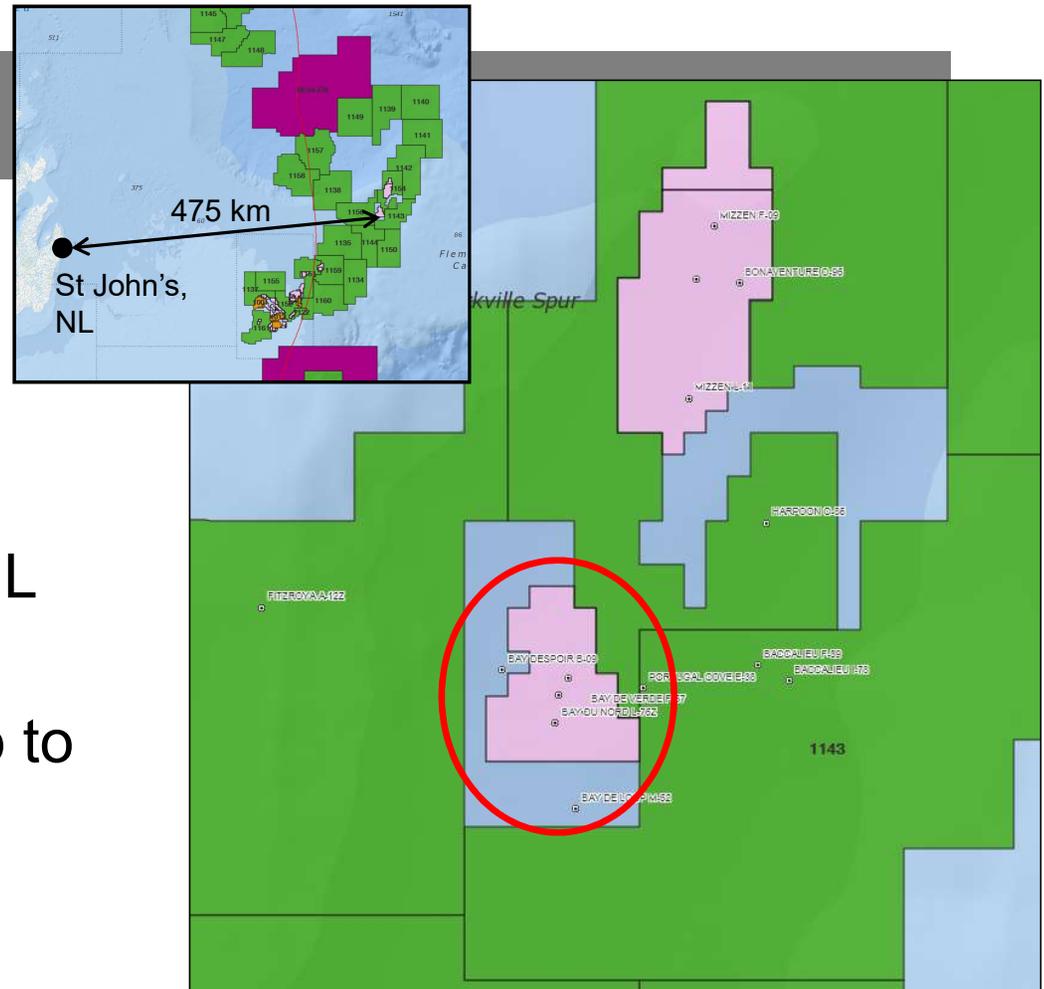
Producing Fields



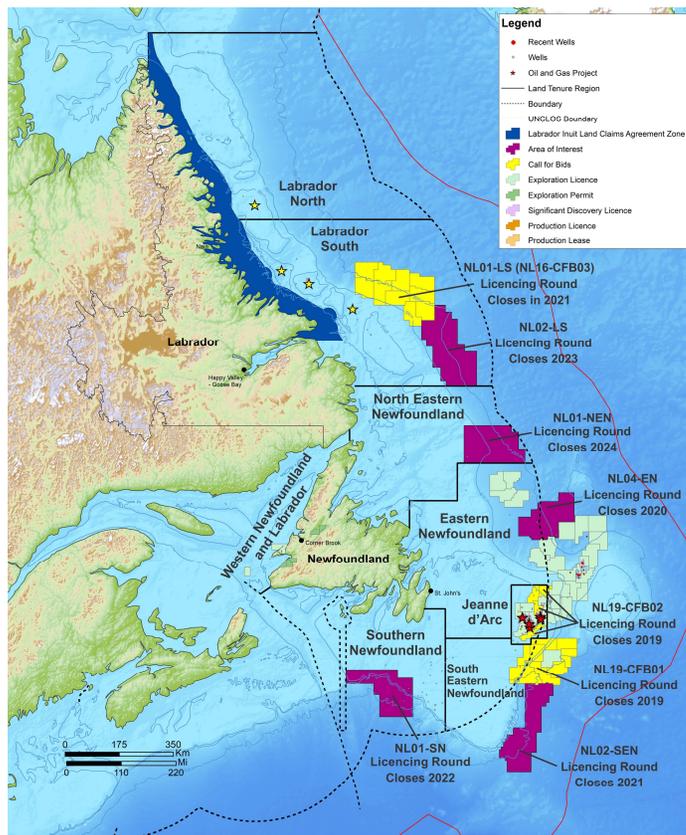
- Hibernia:
 - ExxonMobil (28%), Chevron, Suncor, CHHC, Murphy, Equinor
- Terra Nova:
 - Suncor (38%), ExxonMobil, Equinor, Husky, Murphy, Mosbacher, Chevron
- White Rose:
 - Husky (72.5%), Suncor
- North Amethyst:
 - Husky (69%), Suncor, Nalcor (5%)
- Hebron:
 - ExxonMobil (35%), Chevron, Suncor, Equinor, Nalcor (4.9%)

Bay du Nord

- Framework agreement announced in 2018
- FID in 2020
- 1,100 m water depth
- 475 km from St. John's, NL
- 407 million barrels
- Development plan with up to 30 wells
- Tieback potential



Scheduled Land Tenure Regions



High Activity (2-year cycle)

1. Eastern NL

Low Activity (4-year cycle)

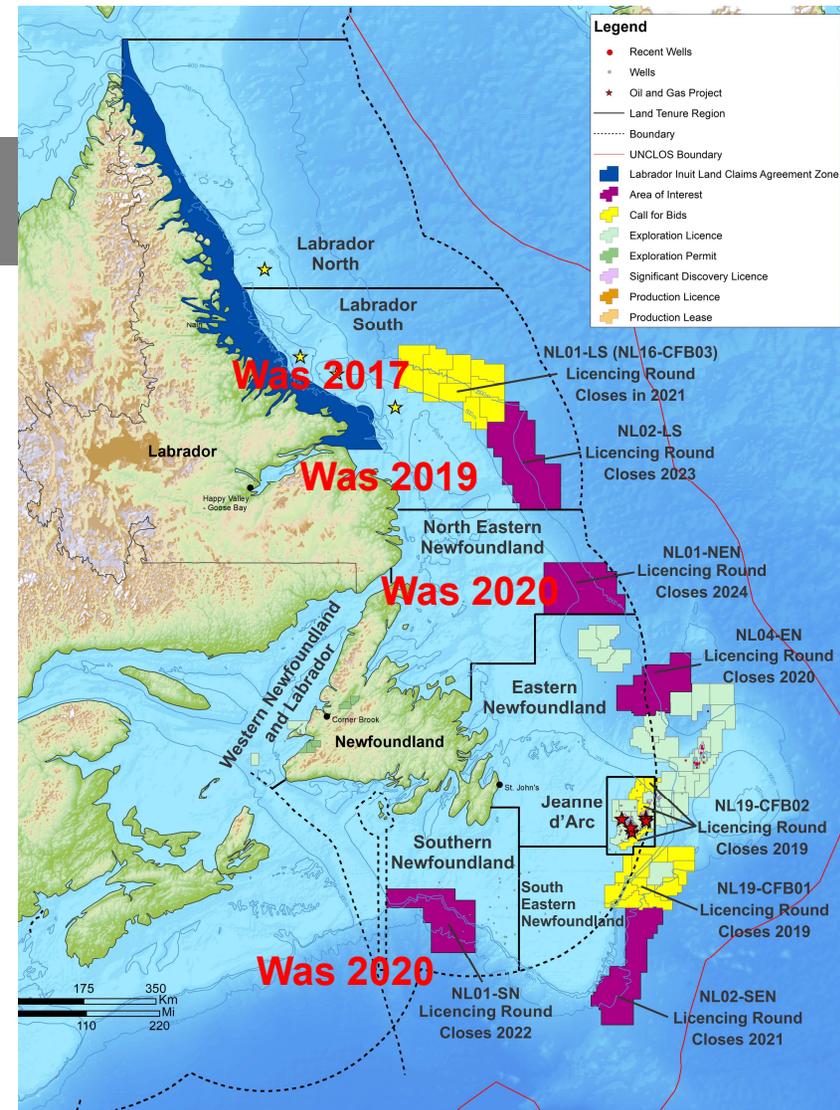
2. Labrador North
3. Labrador South
4. North Eastern NL
5. South Eastern NL
6. Southern NL
7. Western NL

Mature (1-year cycle)

8. Jeanne d'Arc

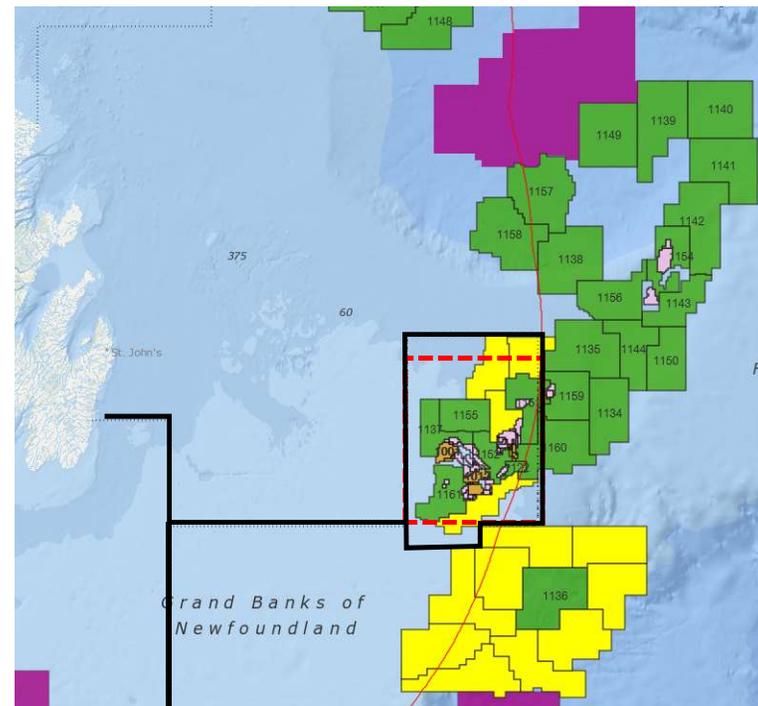
Land Tenure Changes

- Revised timing of the Call for Nominations schedule to accommodate completion of the environmental assessment process
- Rescheduled Call for Bids:
 - 2017 LS > 2021
 - 2019 LS > 2022
 - 2020 S NL > 2022
 - 2020 NE NL > 2024
- JD, EN, & SE NL Call for Bids scheduled for 2019-2021 the same



Updates to Land Tenure System

- Boundary for Jeanne d'Arc extended to align with basin geology
- Clarification regarding cross-boundary nominations
- Deadline extension: Call for Nominations for parcels (NL18-CFN03) extended to Jan 23, 2019 (original date Nov 14, 2018)
- Cumulative parcels scheduled for low activity areas



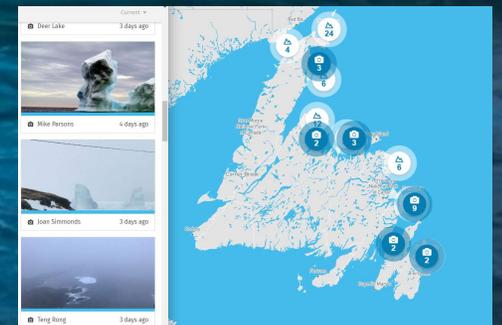
It took them **10,000** years to pay us a visit.

We don't suggest you wait that long.



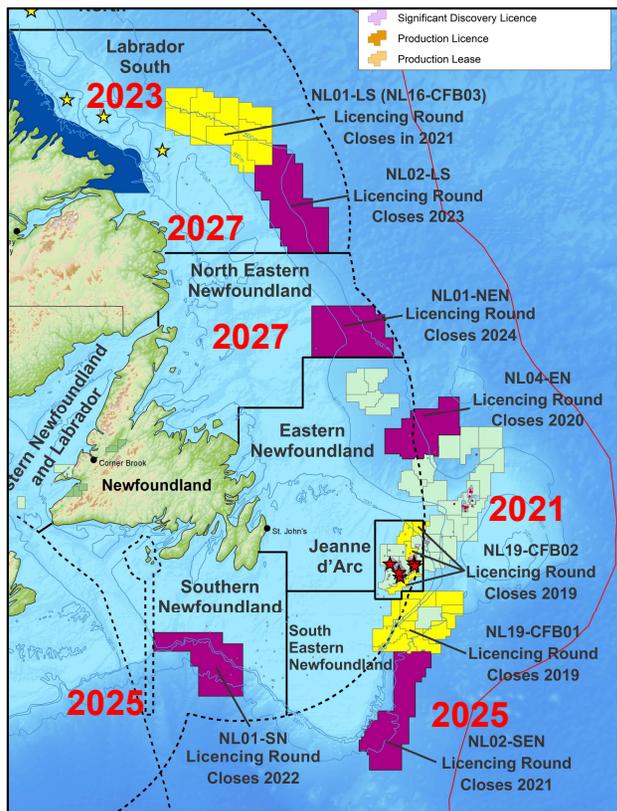
87 Icebergs are currently drifting past our shores.

[Explore Iceberg Map >](#)



<https://icebergfinder.com/>

Cumulative Parcels



Re-Posting Dates

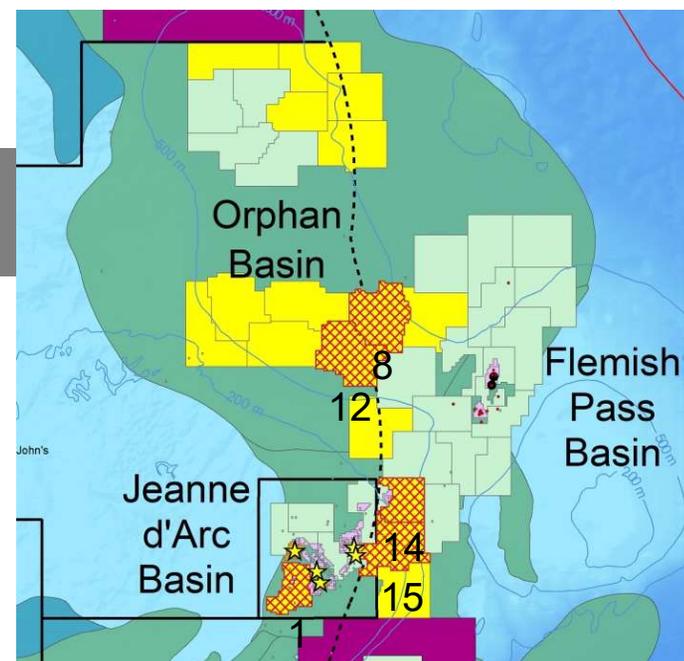
Year of Call for Bids Close – Cumulative Parcels (CP)

REGION	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Labrador South					CP					CP
North Eastern Newfoundland									CP	
South Eastern Newfoundland			CP				CP			
Southern Newfoundland							CP			

- Previously, unawarded parcels were offered on next Call for Bids round in land tenure region (every 1, 2, or 4 years, depending on activity level)
 - Meant low-activity areas would only have those parcels reposted every 4 years
- Now, unawarded parcels will be offered in low activity areas every 2 years, alternating between northern and southern areas
 - Jeanne d'Arc and Eastern Newfoundland no change, occur with scheduled Call for Bids

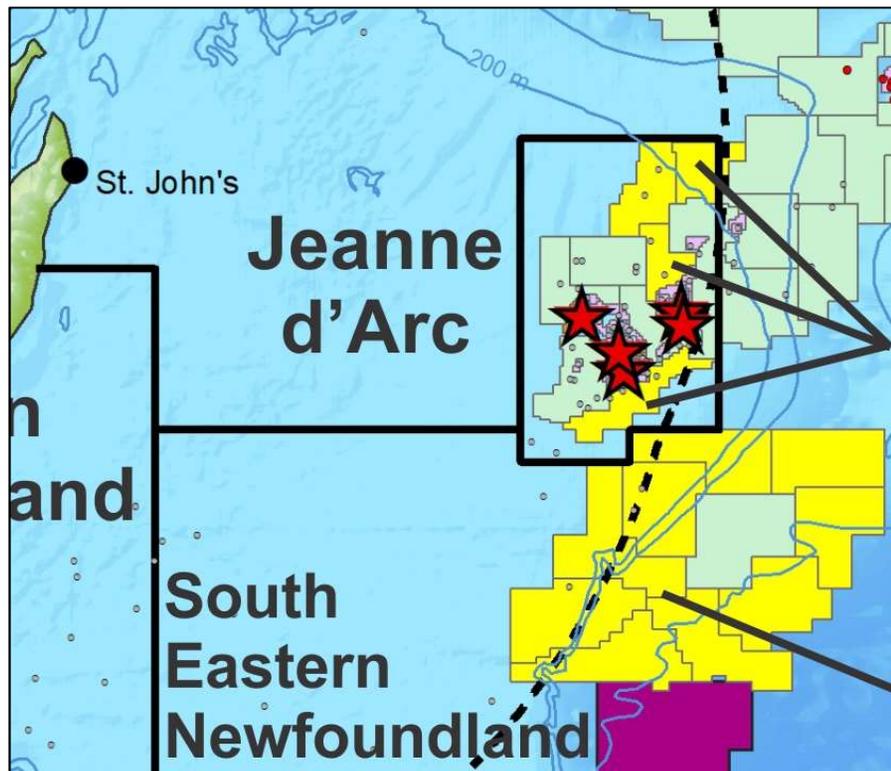
2018 Call for Bids

- EN CFN announced in 2016 by the C-NLOPB
- Largely underexplored area with only 11 wells in the vicinity of the parcels, excellent seismic coverage
- 9 new parcels, 7 reposted
- Call for Bids closed Nov. 2018; 5 successful bids
- Record setting



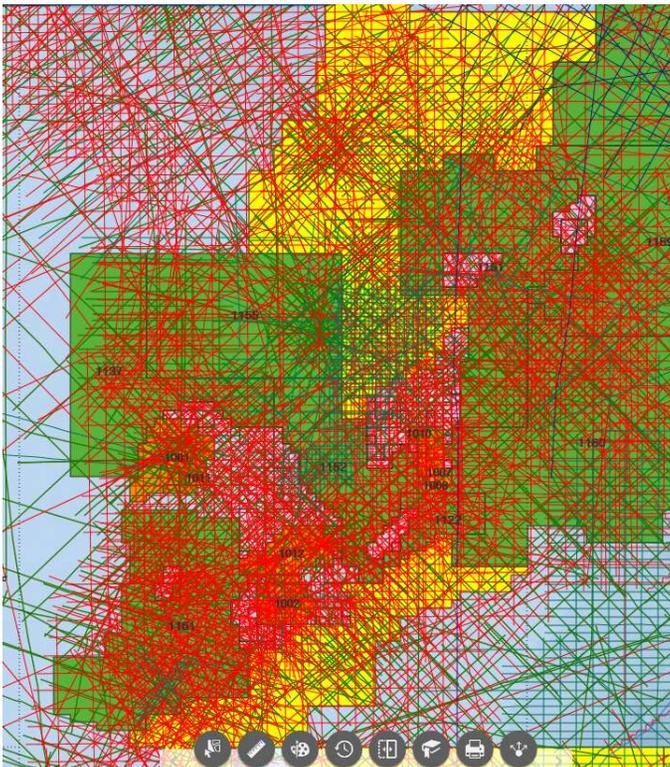
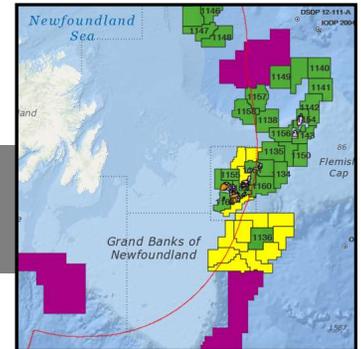
Exploration Licence	Hectares	Successful Bidders	Successful Bid
1157 (Parcel 8)	269,799	BHP (100%)	\$621,021,200
1158 (Parcel 12)	273,579	BHP (100%)	\$201,021,200
1159 (Parcel 14)	159,036	Equinor (70%) Husky (30%)	\$32,231,981
1160 (Parcel 15)	253,608	Equinor (60%) Suncor (40%)	\$480,000,000
1161 (Parcel 1 in JD)	142,448	Suncor (40%), Husky (30%), Equinor (30%)	\$51,999,555
Total Successful Bids			\$1,386,273,936

2019 Call for Bids

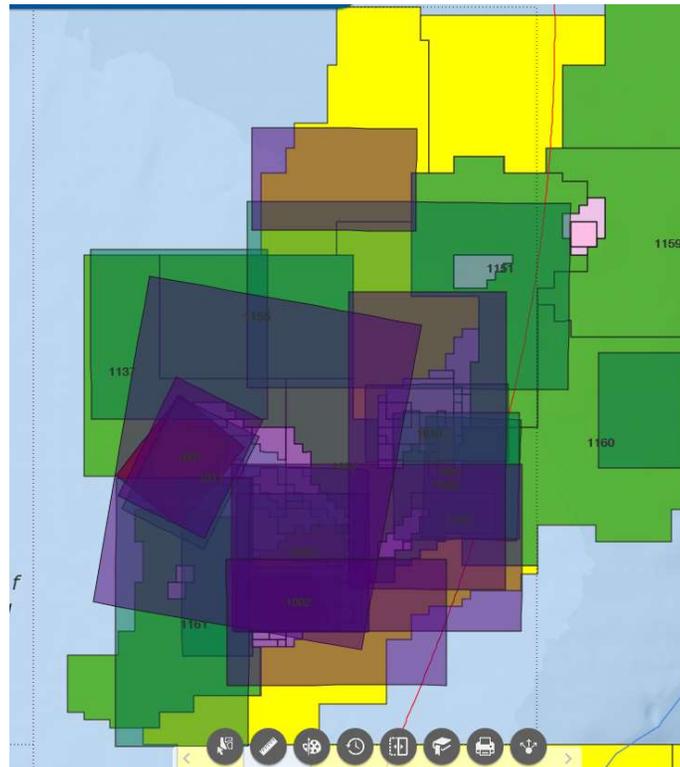


- Jeanne d'Arc:
 - 4 parcels (464,877 ha)
- SE NL:
 - 9 parcels (2.27 million ha)
- Water depth: 60 – 3,500 m
- Work commitment basis
- Closes at 12 pm NST on November 6, 2019

JDA Call for Bids

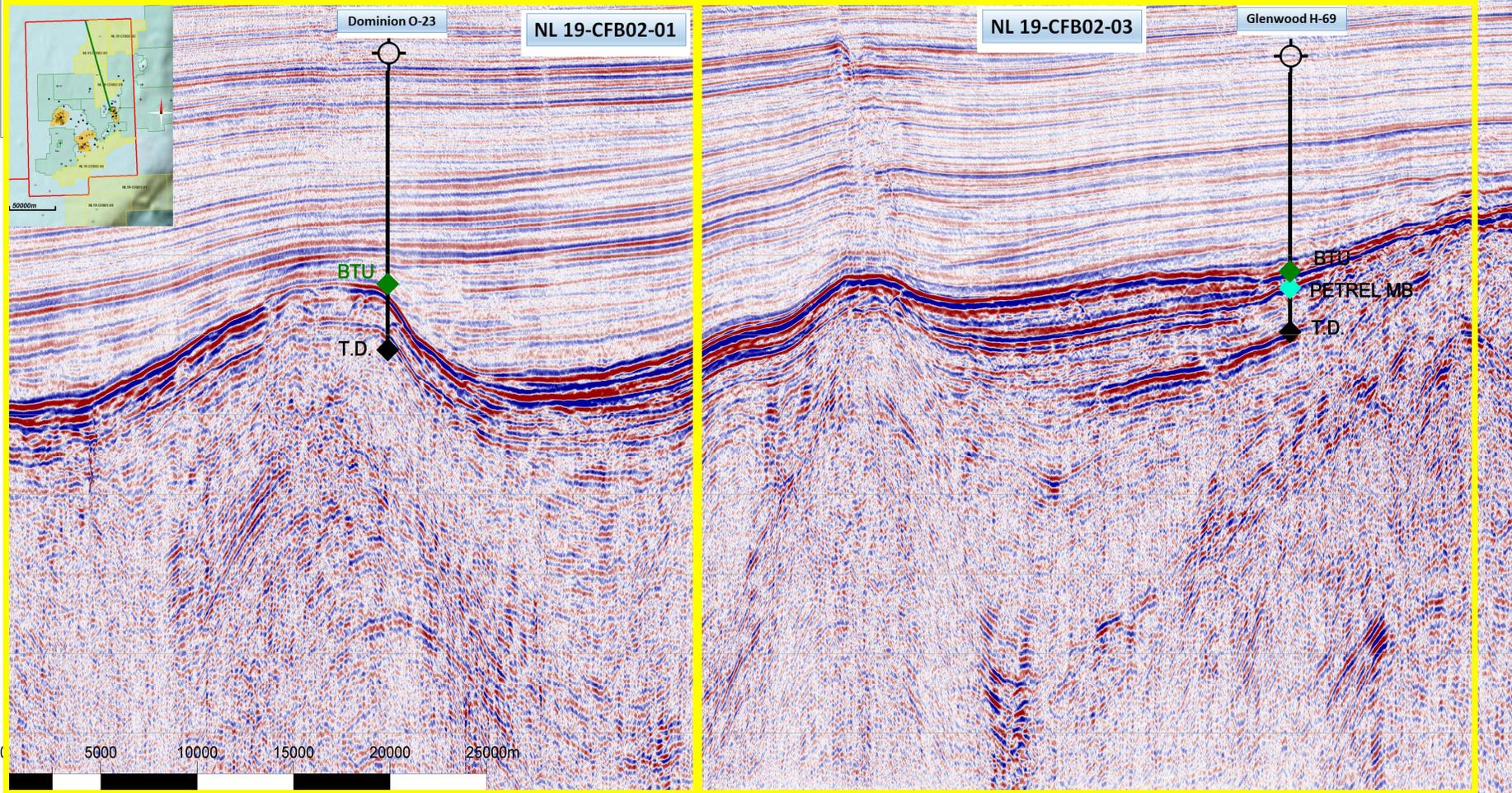


Public 2D Data

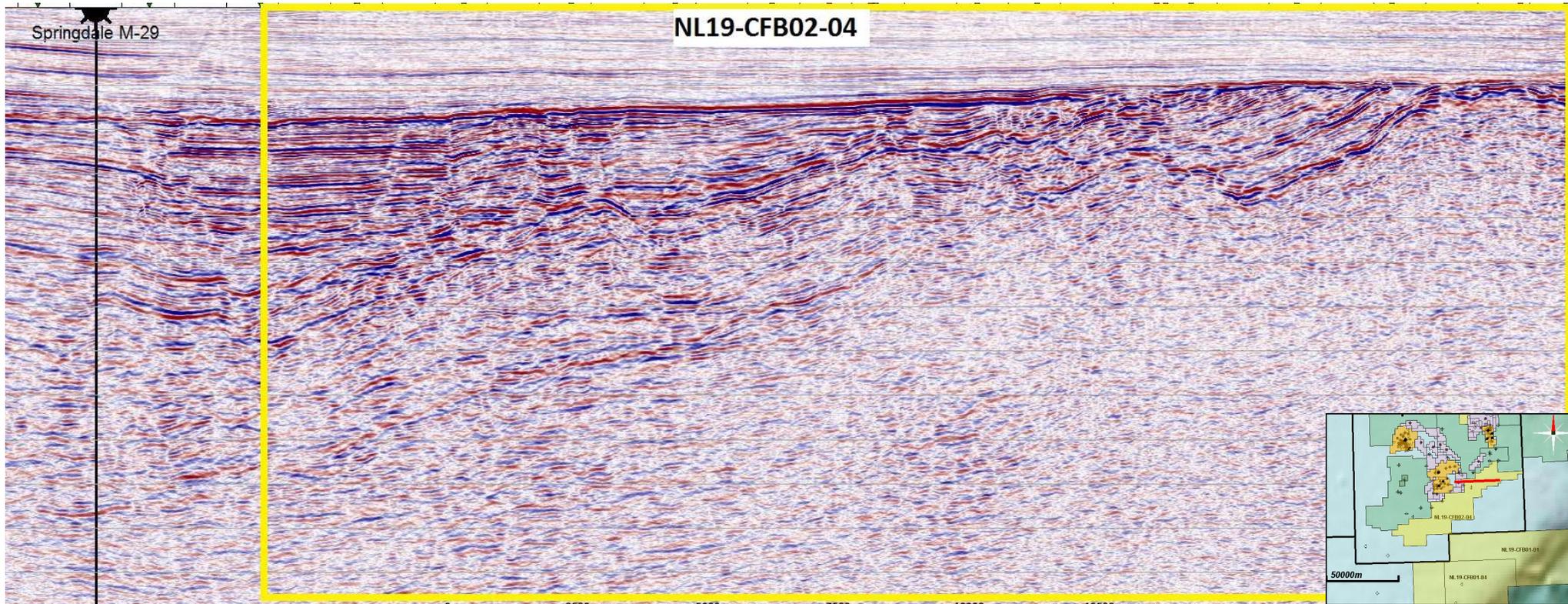


Public 3D Data

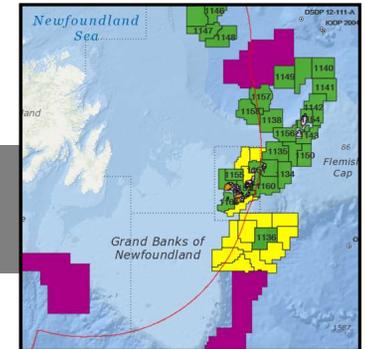
JDA Call for Bids Seismic



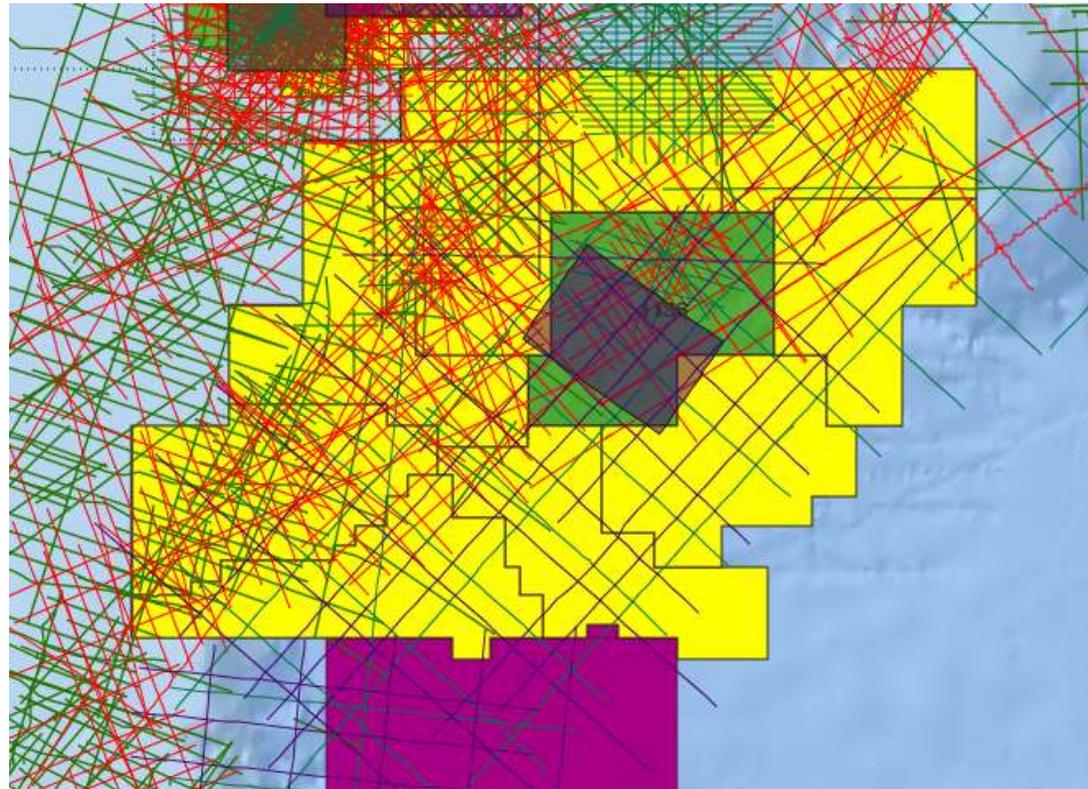
JDA Call for Bids Seismic



SE NL Call for Bids

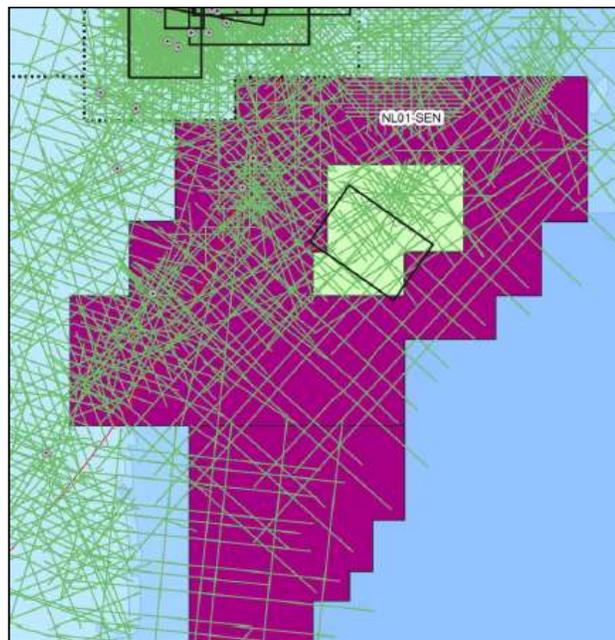


Public 2D &
3D Data



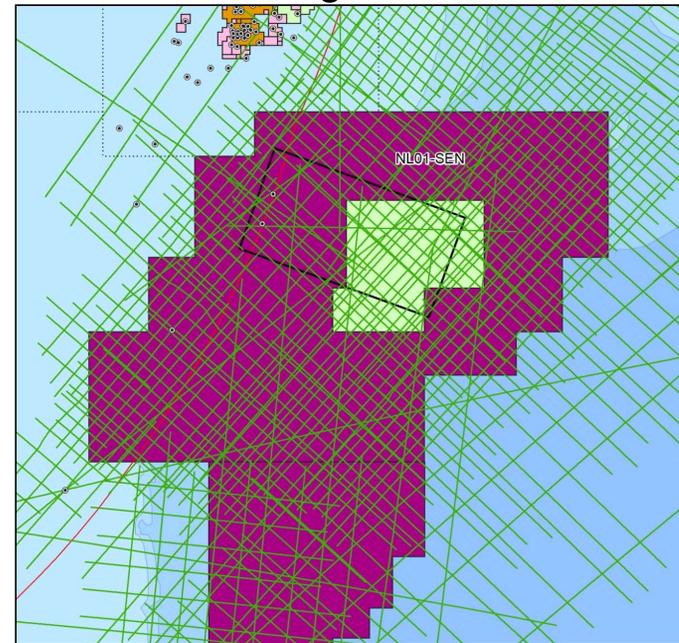
*SE NL Sector Seismic Coverage

Public Data



Data courtesy of C-NLOPB.
20,179 km of 2D

Privileged Data

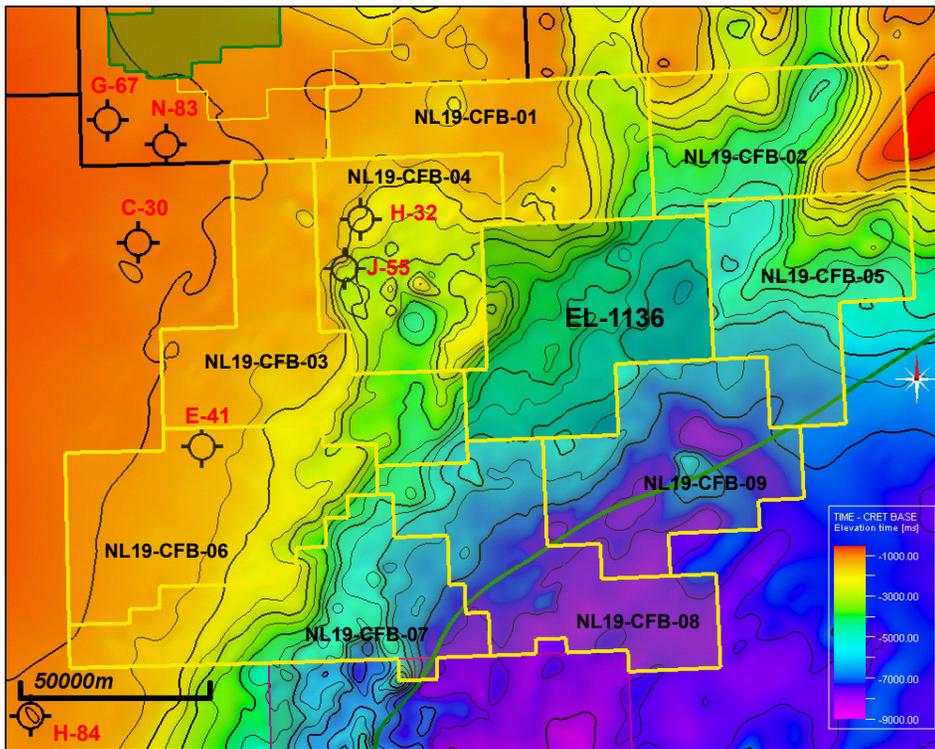


Data courtesy of TGS/PGS.
31,205 km of 2D, 7,850 km² of 3D

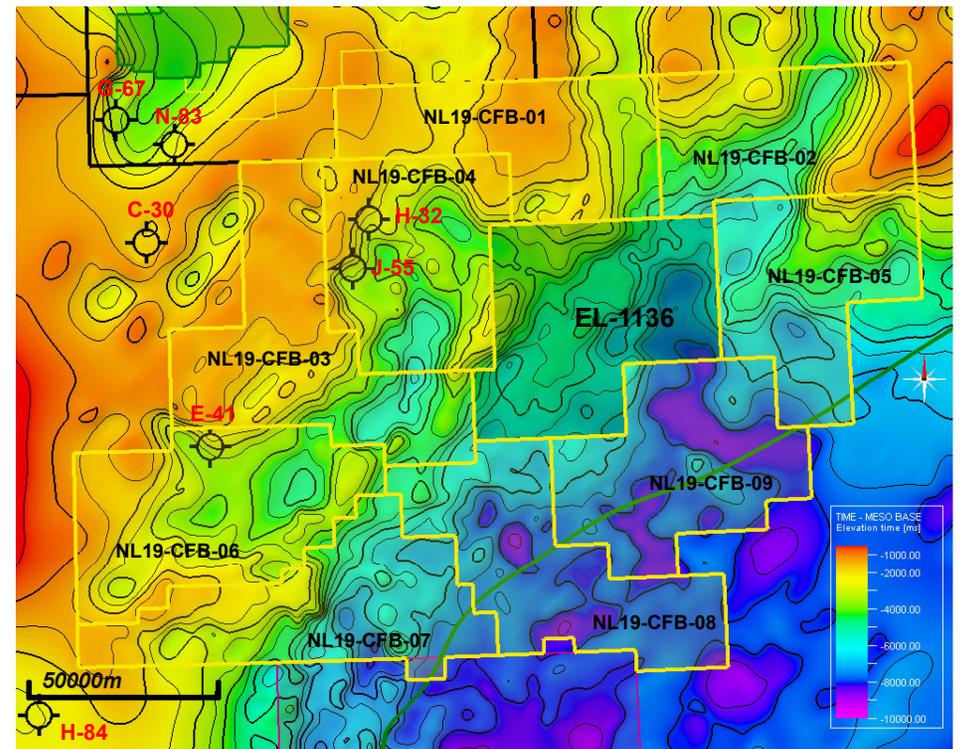
- Area of Interest
- Exploration Licence
- Significant Discovery Licence
- Production Licence
- 200 Nautical Mile Limit
- Land Tenure Region
- Petroleum Well

Basin Maps

500 ms c.i.



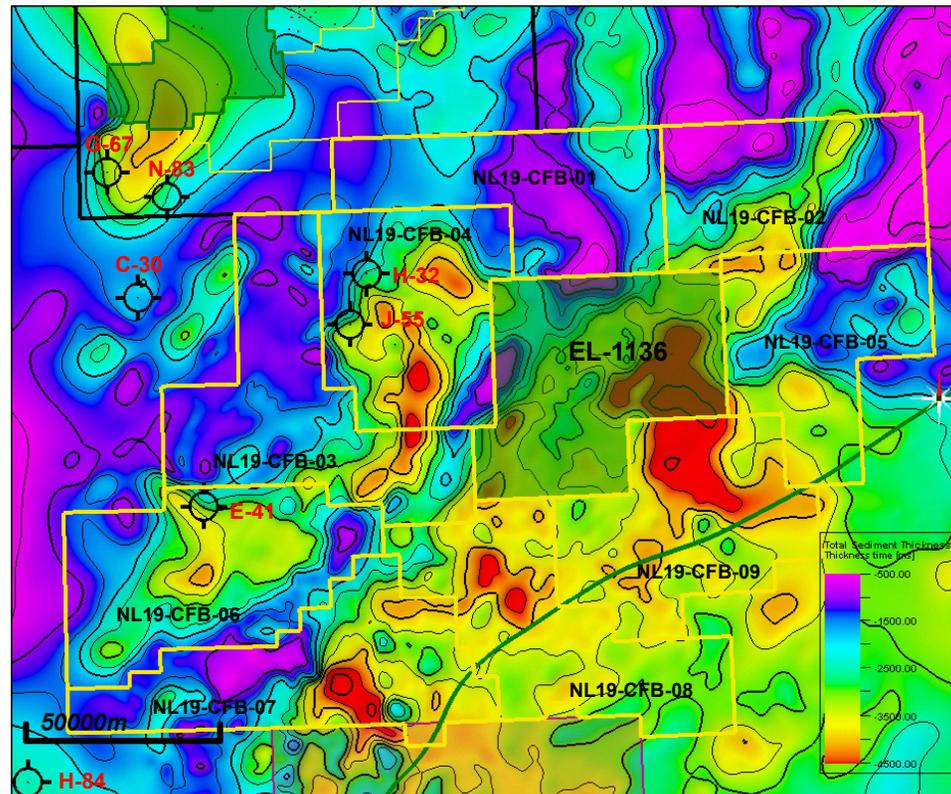
Base Cretaceous Time



Base Mesozoic Time

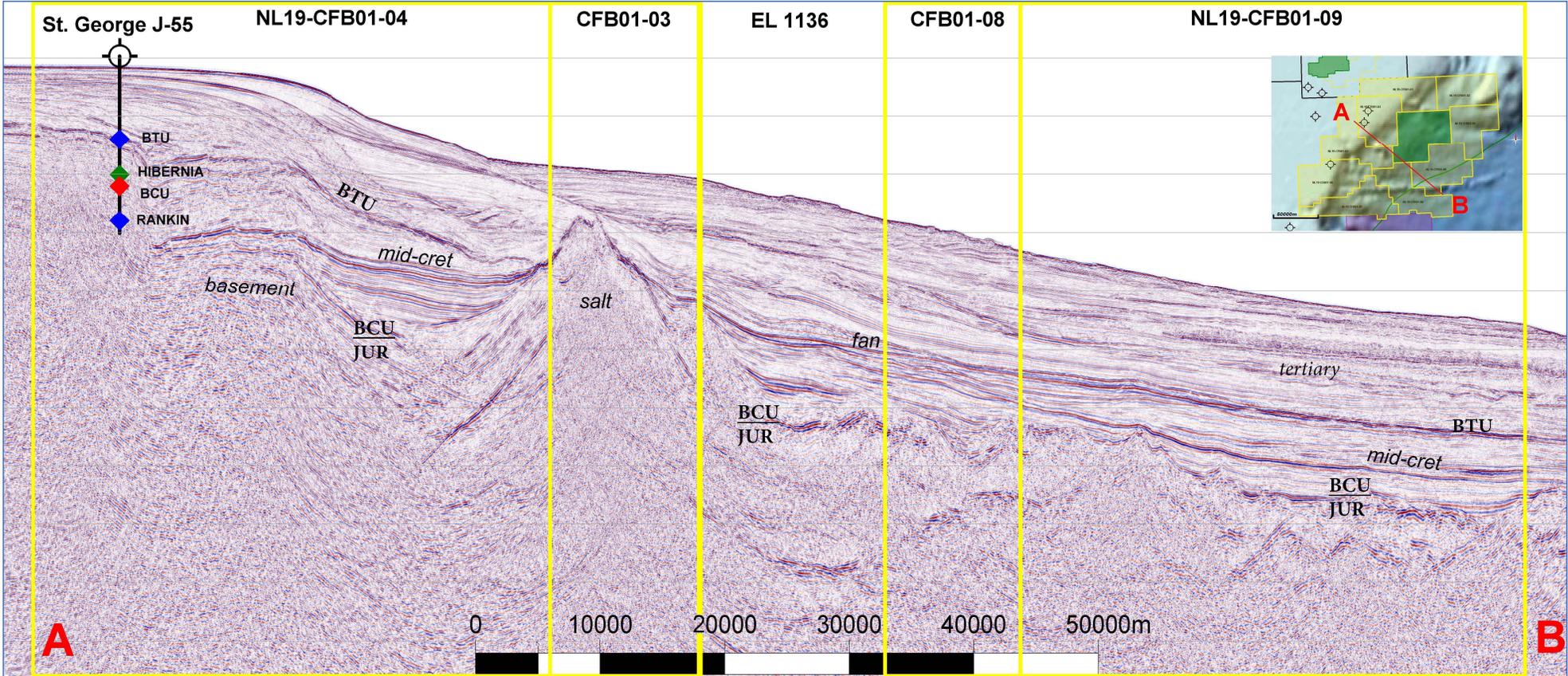
Basin Maps

500 ms c.i.

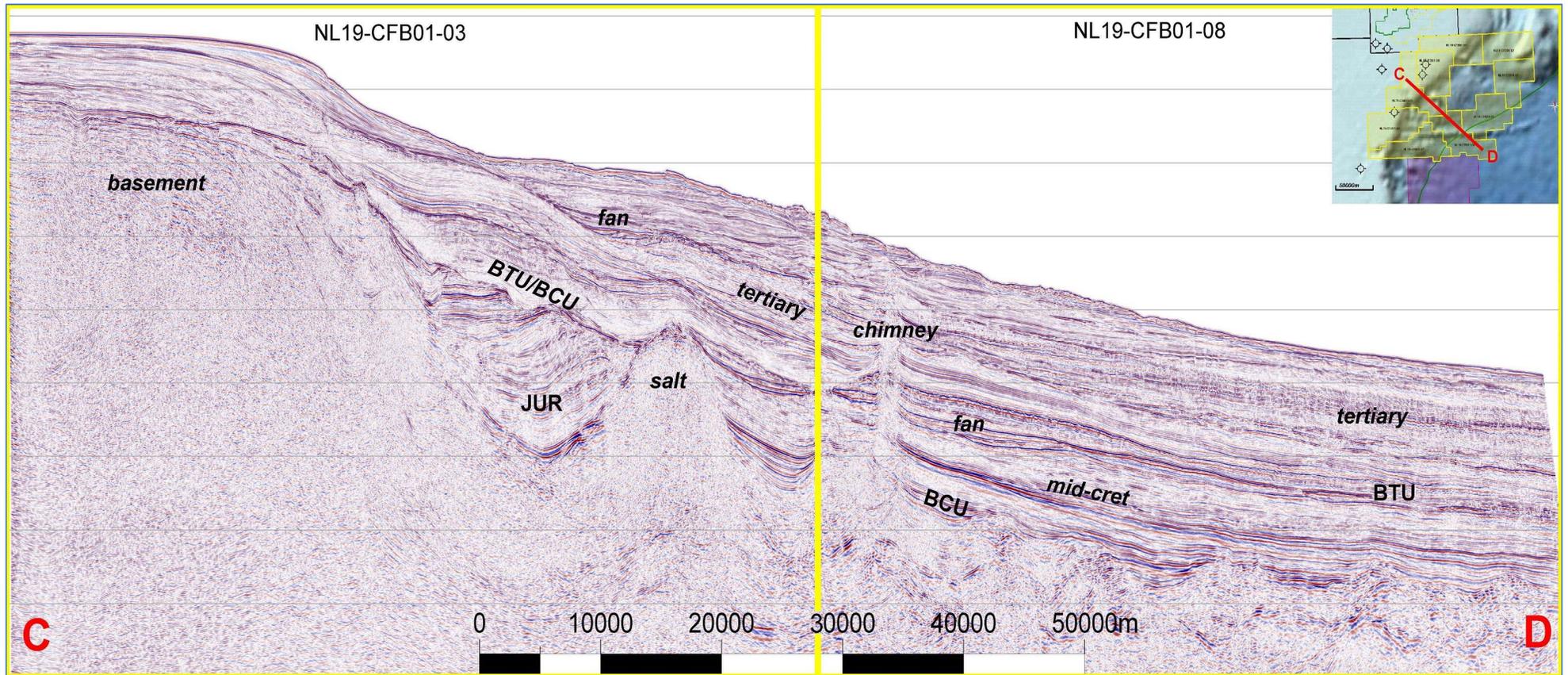


Total Sediment Thickness (time)

Carson Seismic



Carson Seismic



Interactive Mapping App

Offshore Seismic Data Coverage Mapping App (Public-domain)

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Bonaventure O-96

Well_No	441
Well_Name	Bonaventure O-96
Operator	Statoil et al
UWI	3000964820046000
UWI (Datum)	NAD 27
Well Termination Date	6/10/2017, 9:30 PM
Classification	Exploration/Delineation
Well Status	Suspended
TD (m)	0.00
Water Depth (m)	1,116.00
Inclination	Vertical
Area	NENS
Soud Date	21-May-2017

[Zoom to](#)

(1 of 2)

CA-3000650-GOA

Program Number	CA-3000650-GOA
Year	2005
Release Date	April 8, 2011
Operator	Chevron Canada Limited
Type	3D Seismic - Gravity
Title	8924-C047-002E - 2005 - Chevron Canada Limited - Exclusive - 3D Seismic - Gravity - Orphan Basin - Northeast Newfoundland Shelf - EN
Program Category	Exclusive
Years Class	2000-2010 - 3D Seismic

[Zoom to](#)

Atlantic Mid-Ocean Channel

Northwest Atlantic Mid-Ocean Ridge

Hemish Gap

ODP 12-112-A

ODP 105-647-B

ODP 12-111-A

ODP 2004-2013 303-U1303-B

ODP 210-1276-A

ODP 210-1277-A

Sable Island Bank

Newfound

Newfound

Exploration Data Room

Advance 2030 Initiative

Announced October 26, 2018

Newfoundland & Labrador Exploration Data Room

www.hydrocarbonassets.com

Introduction

Basin Geology

Basin Geology

Orphan Basin

A true frontier basin, the Orphan Basin is the largest sedimentary basin offshore Newfoundland. Only 11 wells have been drilled in or on the margins of the Orphan Basin. Wells drilled pre-1990 targeted basement highs and onlap or drape features. Wells drilled post-1990 tested stratigraphic-structural plays. All wells were abandoned, some with good oil and gas shows. The well results suggest exploring in deeper basinal areas such as the Calls for Bids where source rocks may be mature. As previously shown in other parts of the basin, targeting geophysical anomalies may indicate sand fairways and/or presence of hydrocarbons.

Central Ridge/South Flemish Pass

With only 4 wells drilled within the Calls for Bids and several in the vicinity, the CR/SFP Calls for Bids can be considered a frontier exploration area despite its proximity to the producing Jeanne d'Arc Basin and proven Flemish Pass Basin. Several wells in the CR/SFP Calls for Bids area had significant oil and gas shows including South Tempest G-88 that tested 1,250 bopd of 42° API oil from Late Jurassic sandstones. Several wells also provide source rock information including Panther P-52, with 600 m of source rock drilled and Lancaster G-70 that drilled high quality Late Jurassic Type II-III source rocks.

Orphan and Flemish Pass Basins

Stratigraphic Unit	Lithostratigraphy	Seismic Markers	Seismic Sequences
JEANNE D'ARC
FLEMISH PASS
ORPHAN BASIN

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Site Dashboard

Others are Editing
Recently Modified
Recently Added
My Favorites

- View All
- Print
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- Close Window
- View Tiles



Newfoundland Labrador Exploration Data Room

Well History Report

Chevron et al Lona O-55

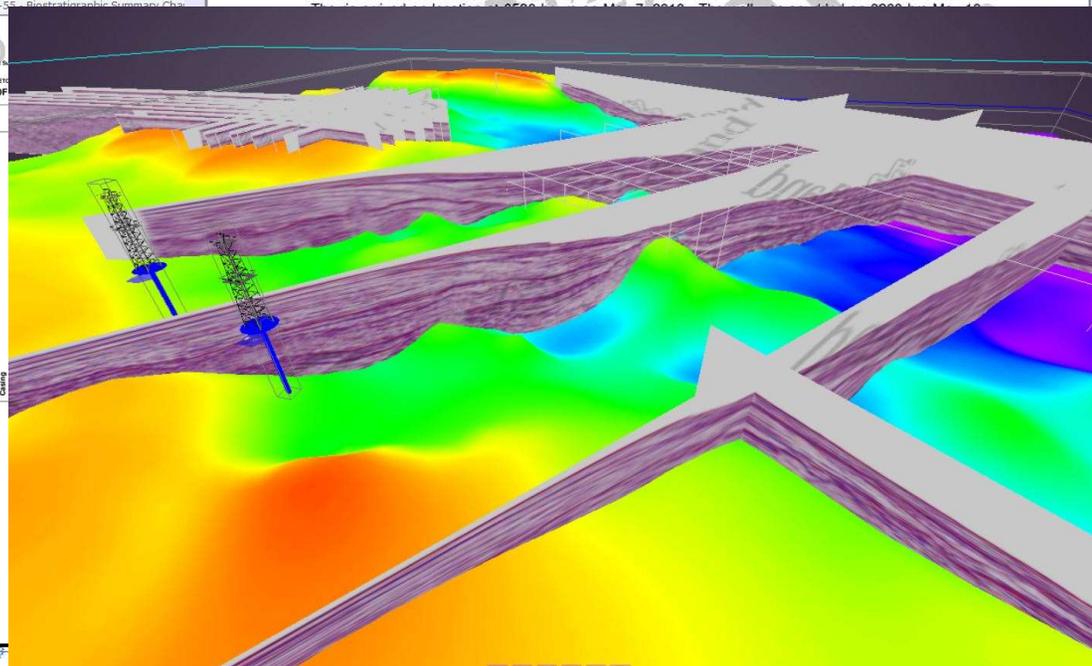
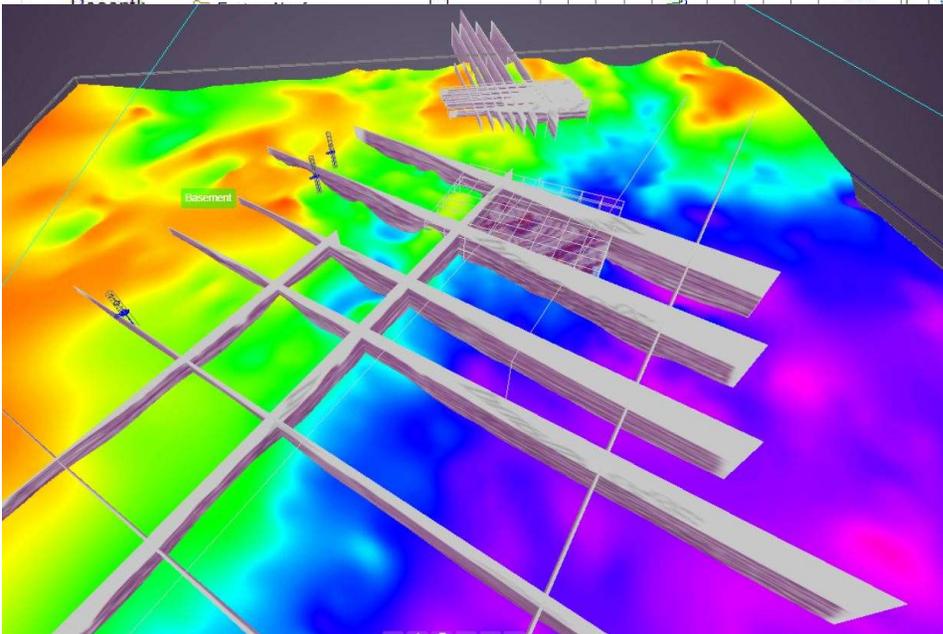
1. Well History Summary

Chevron et al Lona O-55 is located approximately 427 km northeast of St. John's, Newfoundland, Canada in the Orphan Basin. The final wellhead location is 49 deg 04' 47.6454" North Latitude and 47 deg 22' 55.1271" West Longitude in Exploration License 1074R. The water depth is 2602 m.

The well was a deepwater exploration well with a purpose to evaluate the potential hydrocarbon objectives in fluvial to marginal marine sandstone reservoirs of Upper Jurassic and Lower Cretaceous age. The total depth (TD) of the well was planned to be in the Upper Jurassic (Tithonian) aged sediments.

The well is owned by Chevron Canada Limited ("Chevron"), Shell Canada, Imperial Oil and Exxon-Mobil Canada. Chevron is the operator of record for the well.

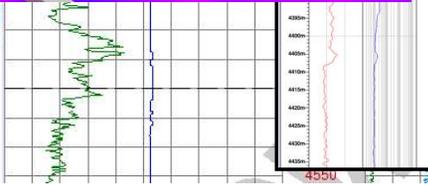
Chevron accepted the Stena Carron, owned by Stena Drilling, at 1500 hrs on April 27, 2010 at a location approximately 46 km from St. John's, Newfoundland, Canada. The Stena Carron was loaded with extra riser, bulk material, and other various supplies prior to transiting to the Lona O-55 location on May 5, 2010 at 2340 hours.



- Reports
- 369_Mizzen F
- 384_Margare
- 385_Harpoon
- 391_Bay du t
- 395_Bay du t
- 404_Bay de \

Track Table			
Log	Divs	first	Decades
<input type="checkbox"/>	10	2	1
<input type="checkbox"/>	10	2	1
<input checked="" type="checkbox"/>	10	2	1
<input type="checkbox"/>	10	2	1

Rotation
 Flip Mirror



Virtual Exploration Data Room

The screenshot displays the website for the Department of Natural Resources in Newfoundland and Labrador. The central feature is a 3D globe with several location markers in purple and orange, representing exploration data points. The website layout includes a left-hand navigation menu with sections like 'Home', 'News & Highlights', 'Energy', 'Mines', 'Resource Opportunities', 'Royalties and Benefits', 'Programs and Funding', 'Major Projects', 'Maps', 'Careers in Industry', and 'Other Resource Departments'. Below this is a 'Quick Links' section with various service links. The main content area on the right contains a 'Minister' profile for Hon. Siobhan Coady, a 'Migrating Muskrat: 30 Month Review' article, and a 'The Department' section with links to 'About the Department', 'Branches and Divisions', 'Agencies', 'Legislation', 'Publications', and 'Contact Information'. A 'Contact Us' section provides the department's address and phone number. The footer includes a copyright notice and the URL <https://www.nr.gov.nl.ca/nr/>.

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Minister
Hon. Siobhan Coady

Migrating Muskrat: 30 Month Review

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Newfoundland and Labrador

Newfoundland and Labrador

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