



**Husky's Focus on East Coast  
Exploration and Production**

*Expo-Labrador  
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Ken Hansen, Manager - Frontier Exploration

*Expo Labrador 09*

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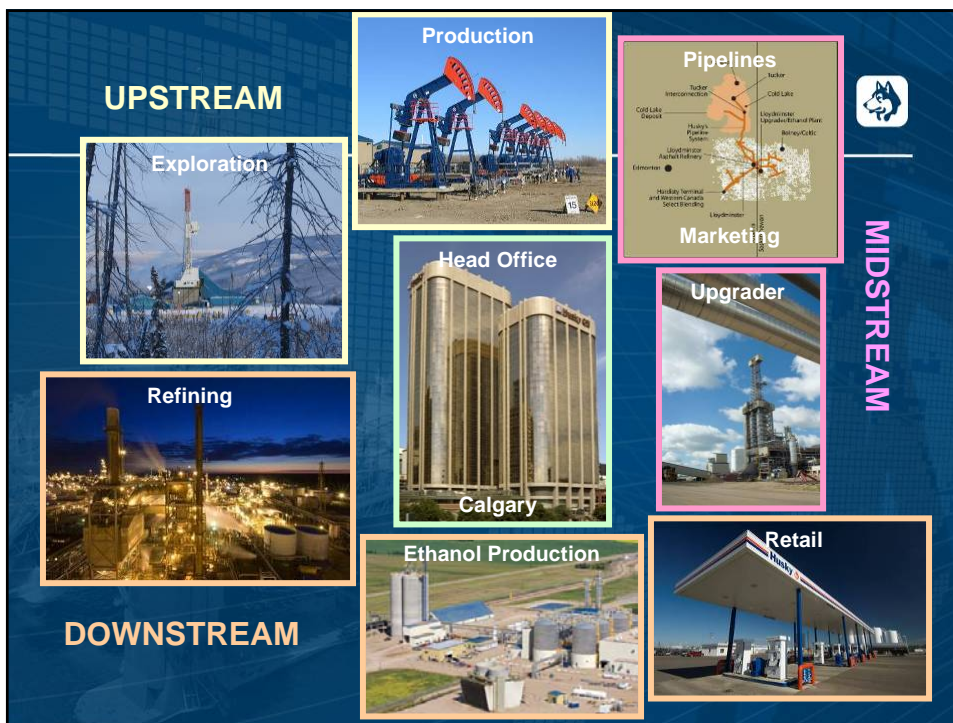
Agenda

- Husky Overview
- Husky's East Coast Activity
- Process from Exploration to Production
- Why Husky is Interested in Labrador

## Husky Overview

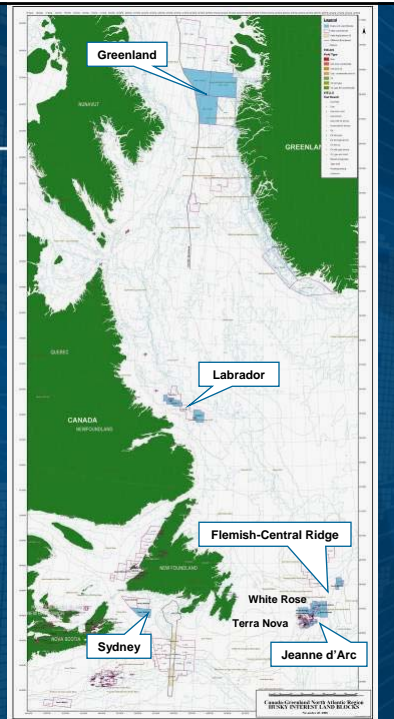


- Canada's third largest integrated energy company
- Three business segments
  - Upstream, Midstream and Downstream
- Operations in Canada, USA, Greenland, China and Indonesia

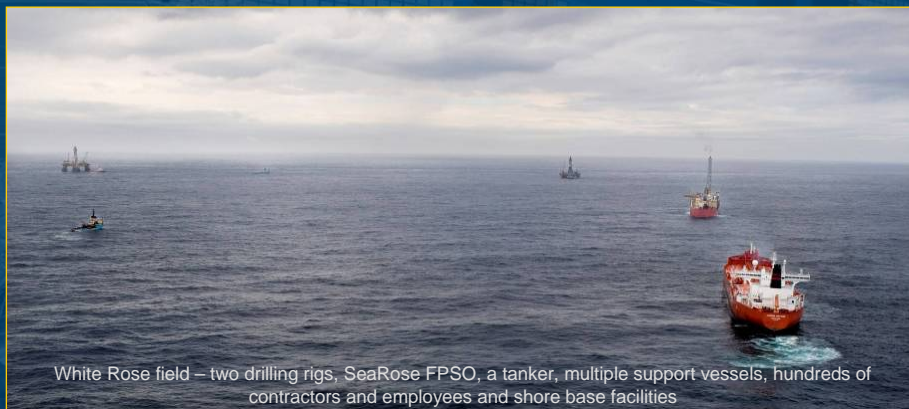


## Husky on the East Coast

- Active in region over 25 years
- St. John's office opened 1997
- Large land base:  
> 1.6 million hectares
- Focus on Jeanne d'Arc Basin
  - White Rose (operator)
  - White Rose Satellites (operator)
  - Terra Nova
  - 17 Exploration Licenses
  - 16 Significant Discovery Areas
- Expanded Exploration Effort
  - Labrador
    - 6 Significant Discovery Areas
  - Flemish–Central Ridge
  - Sydney
  - Greenland

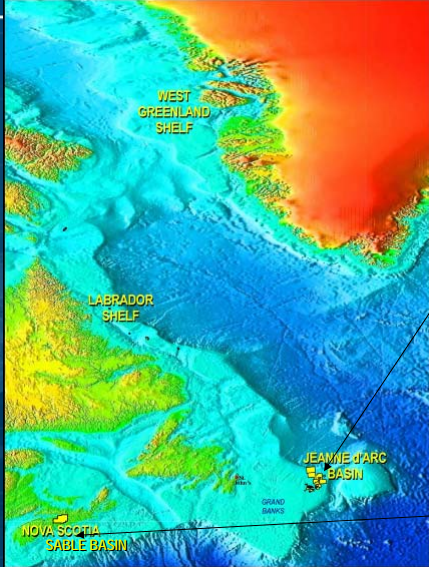


## Husky's East Coast Operations



White Rose field – two drilling rigs, SeaRose FPSO, a tanker, multiple support vessels, hundreds of contractors and employees and shore base facilities


### East Coast Oil & Gas Activity




**OIL FIELDS**

Hibernia

Terra Nova FPSO



White Rose FPSO



White Rose Satellite Developments

Hebron Development  
South Hibernia Development

**GAS FIELDS**

Sable Project  
Deep Panuke Development



## HS&E Principles & Values



*Husky Energy is committed to providing its employees, contractors and the general public with the highest possible level of Health, Safety and Environmental (HSE) protection.*

*We believe we can achieve this goal by managing our business under the following principles & values:*

- VISIBLE LEADERSHIP
- DEFINED RESPONSIBILITIES
- CLEAR ACCOUNTABILITY
- CONTINUOUS IMPROVEMENT
- EFFECTIVE CONTRACTOR MANAGEMENT
- WORKING CLOSELY WITH AFFECTED STAKEHOLDERS



**HOIMS**  
HUSKY OPERATIONAL INTEGRITY MANAGEMENT SYSTEM



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*The Husky Operational Integrity Management System is a set of corporate management system expectations that includes aspects of Health and Safety, the Environment, Quality, and Process Safety Management.*

Leadership, Commitment and Accountability

Performance Assessment and Continuous Improvement

“All hazards and risks from operations & equipment are identified and controlled or eliminated.”




## Working with communities



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**Husky looks forward to working with communities and stakeholders in Labrador.**

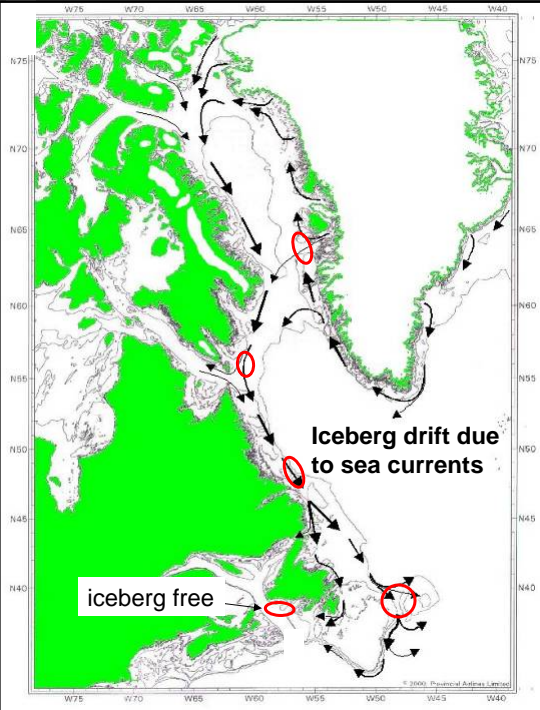
**Husky supports the Atlantic Accord principles of providing:**

- Full and fair opportunity to NL based companies
- First consideration for training and employment to NL residents

**Husky has a strong track record of working with stakeholders including**

- Communities
- Regulators
- Governments
  - Aboriginal
  - Provincial
  - Federal
  - Municipal
- Fishers
- Environmental groups
- Special interest groups
- Local businesses
- Educational institutions
- Other interested parties



### Challenges

- The harsh ice and weather conditions of the North Atlantic region
  - Operating in areas of heavy sea ice & icebergs
  - Short drilling season
  - Protecting production facilities
- Developing business support and infrastructure



○ Husky acreage

### Ice Management

Individual icebergs that pose a threat are monitored and forecasts are made and updated to re-assess the threat. Threatening ice is usually towed to a position where its trajectory will no longer present a threat.

The following methods are currently used on the Grand Banks for ice management basic tow strategy is to move icebergs off the 200m water depth contour so it will move south in the stronger currents

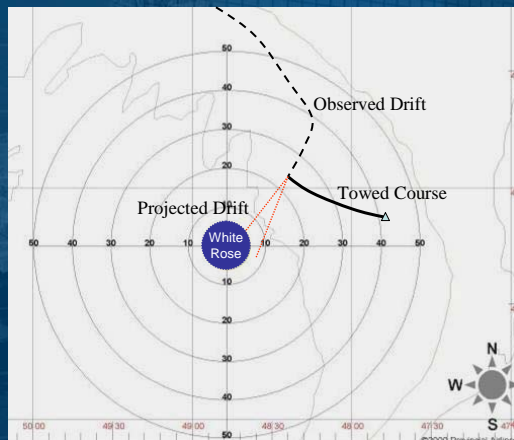
- Floating Towrope
- Net
- Two Vessels Tows
- Water Cannon
- Prop-Washing

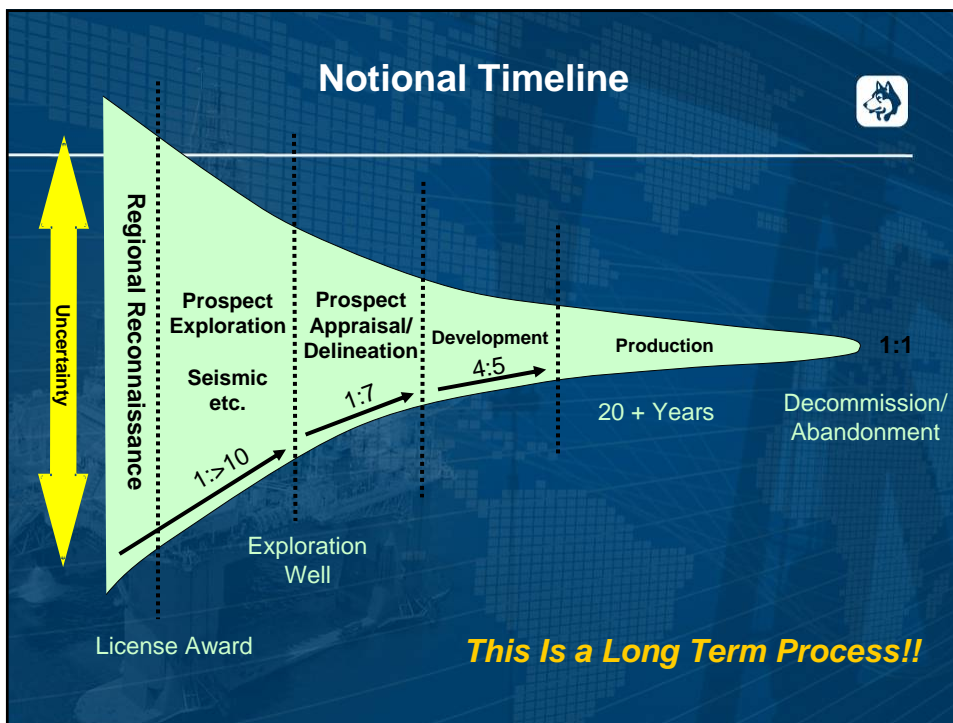
### Iceberg Management



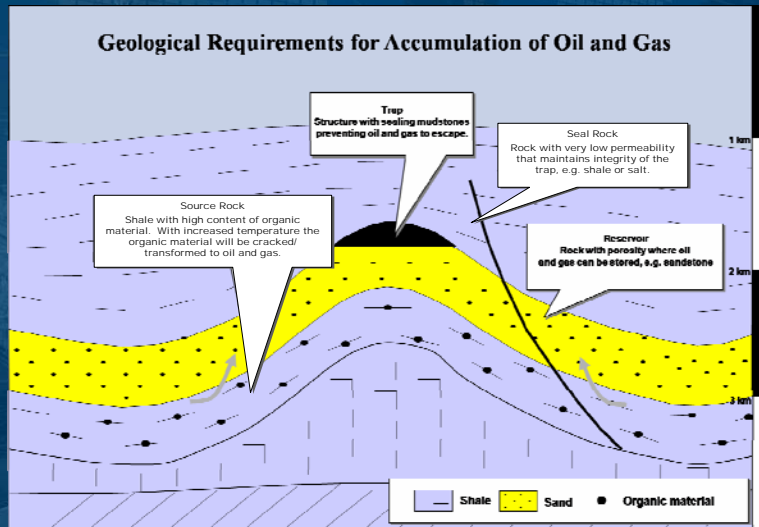
Physical Ice Management method depends on the type of ice, weather conditions, and available time and resources. However the success of deflecting icebergs off their natural drift is presently 92%



### Notional Timeline

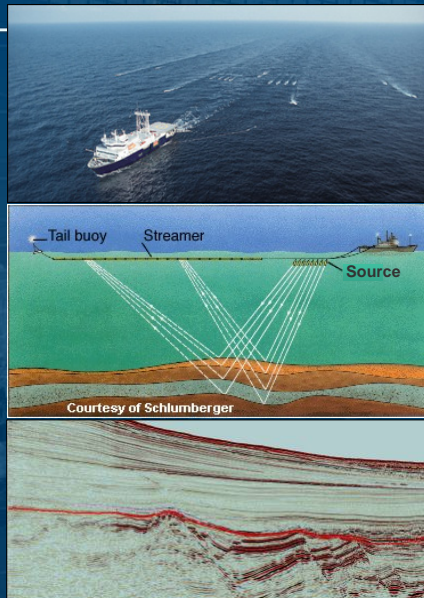


Prospect generation must establish if conditions exist for an accumulation of hydrocarbons, estimate the size, predict oil vs. gas and determine location for drilling.



## Exploration Prospect Generation

### Seismic



### Other Methods



- Geophysical measurement of the earth's magnetic, gravity and electrical properties
- Look for hydrocarbon seeps
  - Satellite and air borne oil slick surveys
  - Water column samples
  - Sea floor bathymetry
  - Sea floor sediment samples
- Analogue Studies
- Integration and interpretation of data

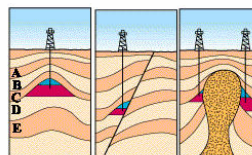
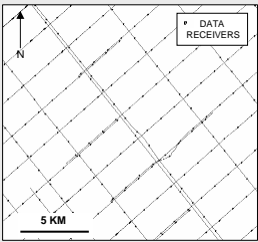
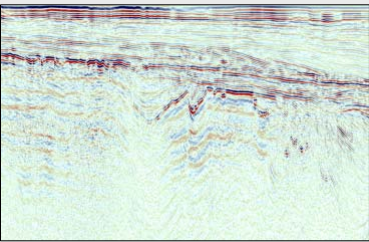
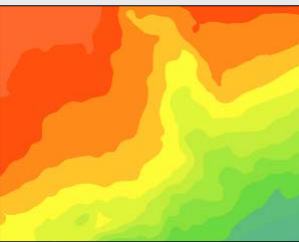
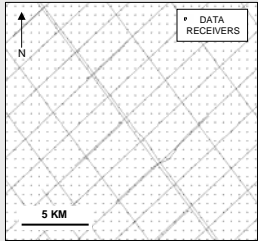
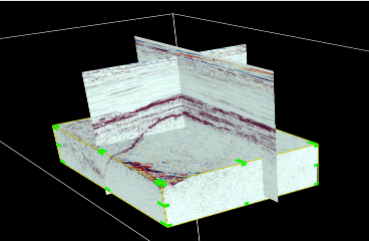
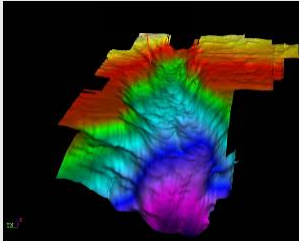


Photo courtesy Institute of Petroleum  
Oil reservoir rocks (red) and natural gas (blue) can be trapped by folding (left), faulting (middle) or pinching out (right).

### 2D SEISMIC SURVEY vs. 3D SEISMIC SURVEY

 <p><b>2D SEISMIC GRID</b></p> <p>2D seismic is recorded using data receivers in straight lines. Large areas can have no data coverage.</p>	 <p><b>2D SEISMIC IMAGE</b></p> <p>Only strips of information are acquired and these are often plagued by noise, making it difficult to interpret what is happening in the sub-surface.</p>	 <p><b>MAP FROM 2D DATA</b></p> <p>A low resolution map results; you get an idea of the gross structural elements. Well location can be risky. Analogous to a very low pixel image.</p>
 <p><b>3D SEISMIC GRID (OVER 2D LINES)</b></p> <p>3D seismic is recorded using many lines of receivers in a dense grid pattern.</p>	 <p><b>3D IMAGING</b></p> <p>With a dense grid of data, a continuous image through the sub-surface is acquired and the data can be manipulated in any direction.</p>	 <p><b>MAP FROM 3D DATA</b></p> <p>A high resolution map results; features are imaged in detail. Well location is optimized. Like taking a picture with a 12 mega pixel camera.</p>

## Exploration Drilling





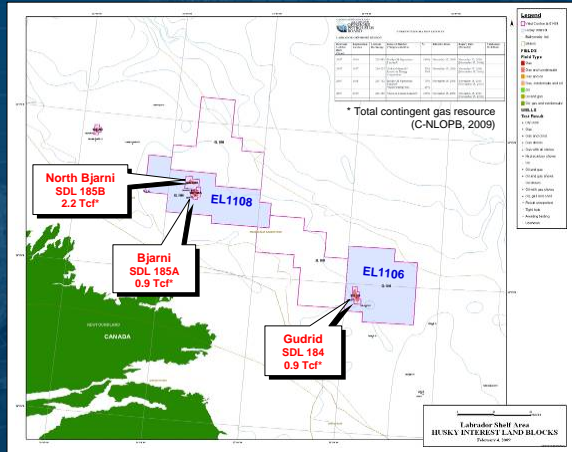
Drill Ship – West Navion



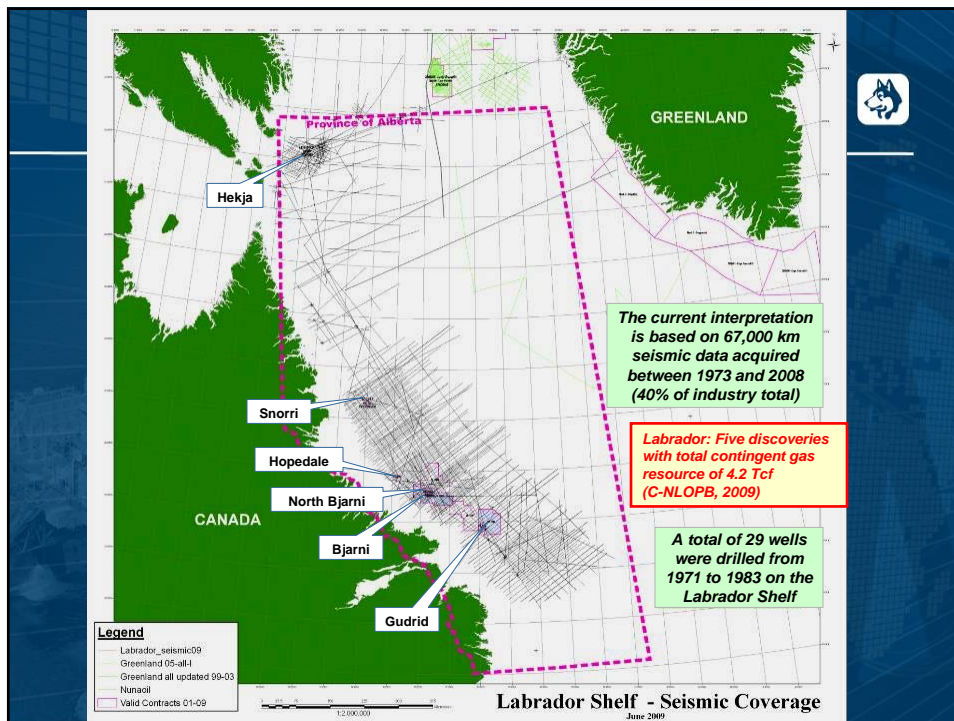
Henry Goodrich Semi-Submersible

- An exploration well is drilled to test a prospect
- In Labrador water depth – 250 to 500 metres
- Drill depth from 2,500 to 5,000 metres
- One well would typically require a full summer season of from 60 up to 120 days to complete

## Why Husky is Interested in Labrador?



- Lightly explored area with high historical success rate
- Husky owns rights (from 17% to 43%) in 5 SDL's in Labrador plus the Hekja discovery in Nunavut
- Husky has an extensive grid of 2D seismic
- In 2008, acquired two Exploration Licenses
- Have identified prospects offsetting large gas discoveries on both blocks



## Next Steps



### Period One (six years)

- Husky is committed to growing its business in Newfoundland/Labrador in a responsible sustainable manner
- Conducting a seismic environmental assessment
- Consulting with affected stakeholders
- Evaluate legacy seismic and integrate with other technical data
- Acquire new 2D possibly 3D seismic data in 2010/2011
- Exploration drilling pending analysis of new seismic data
- An exploration well must be drilled in Period One to validate license and go to Period Two (3 years)
- Participating in ESRF study on the socio-economic impacts of oil and gas development in Labrador



Questions?



## CAUTIONARY NOTES FOR EXPO-LABRADOR – JUNE 21-24, 2009



### Forward Looking Statements

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