

\$ 1 Billion Exploration Program for Nova Scotia

March 6, 2012

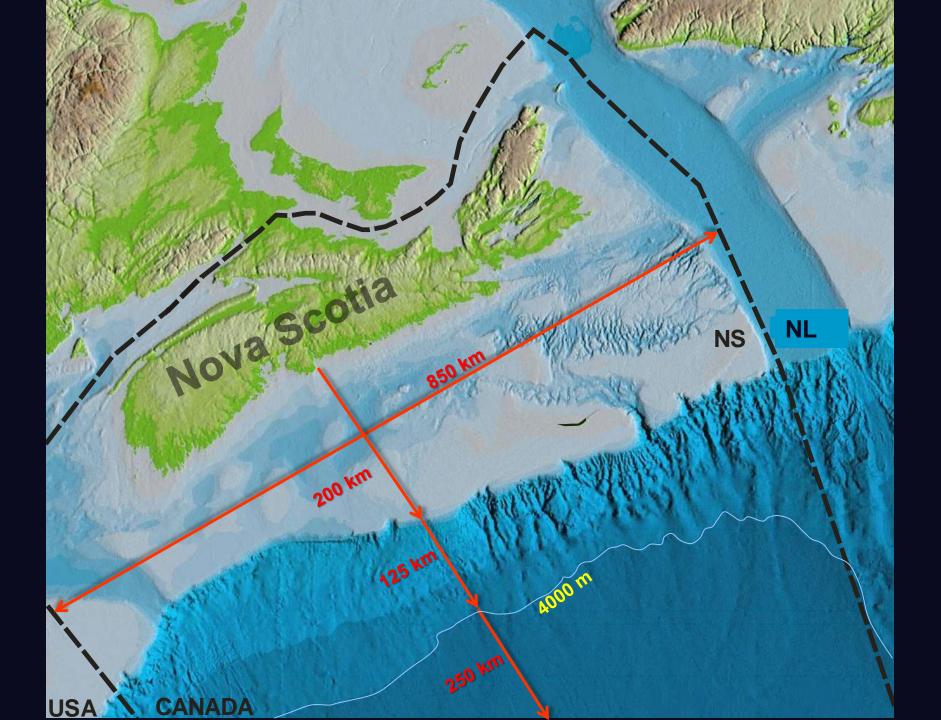
APPEX London

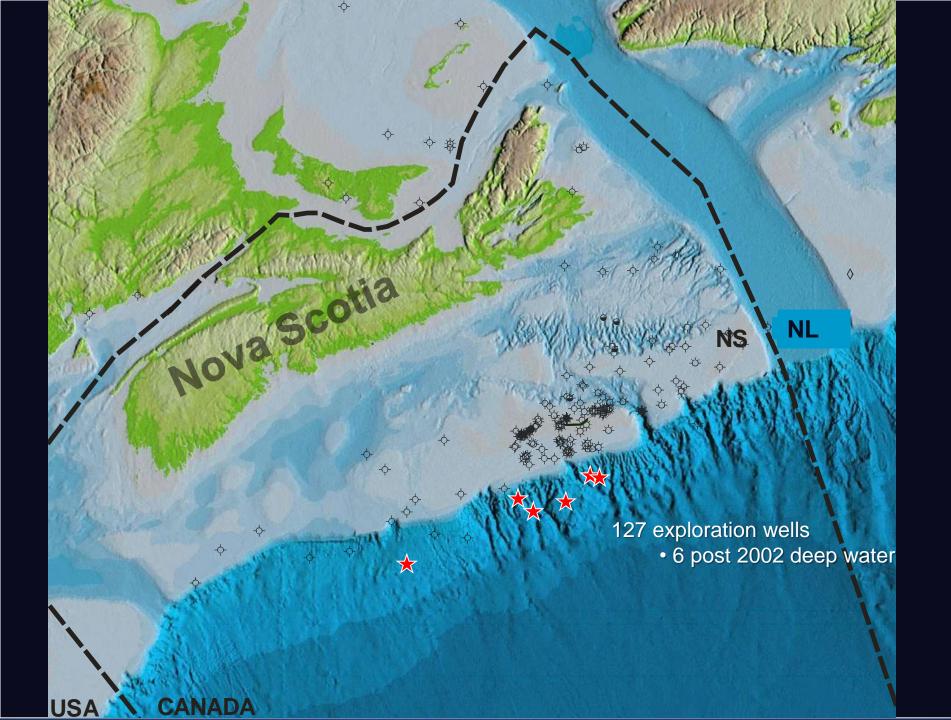
Brenton Smith

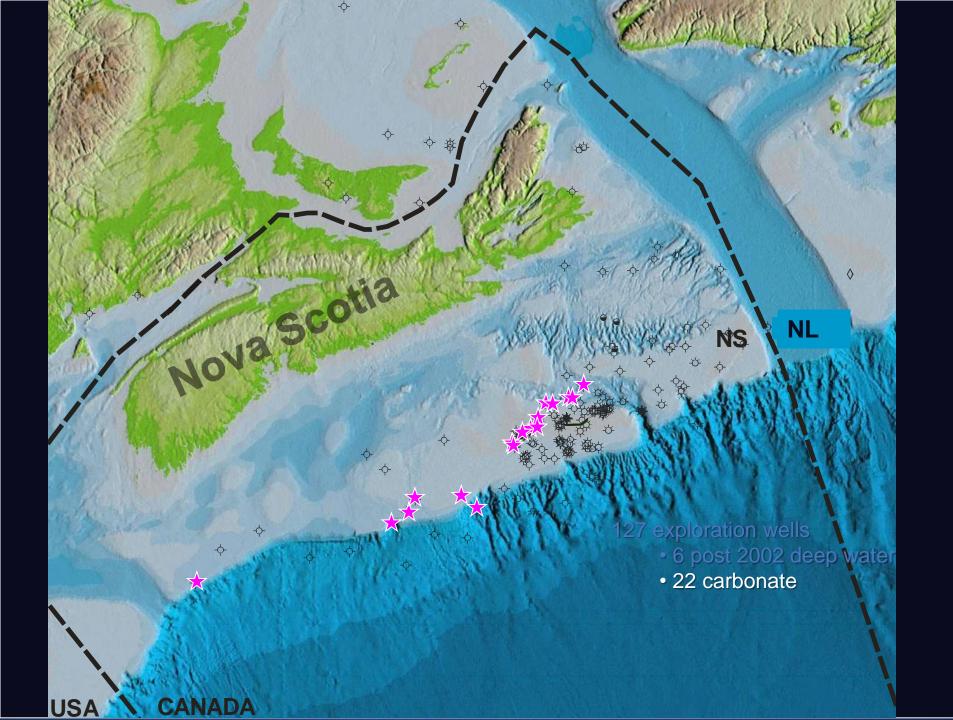
Outline

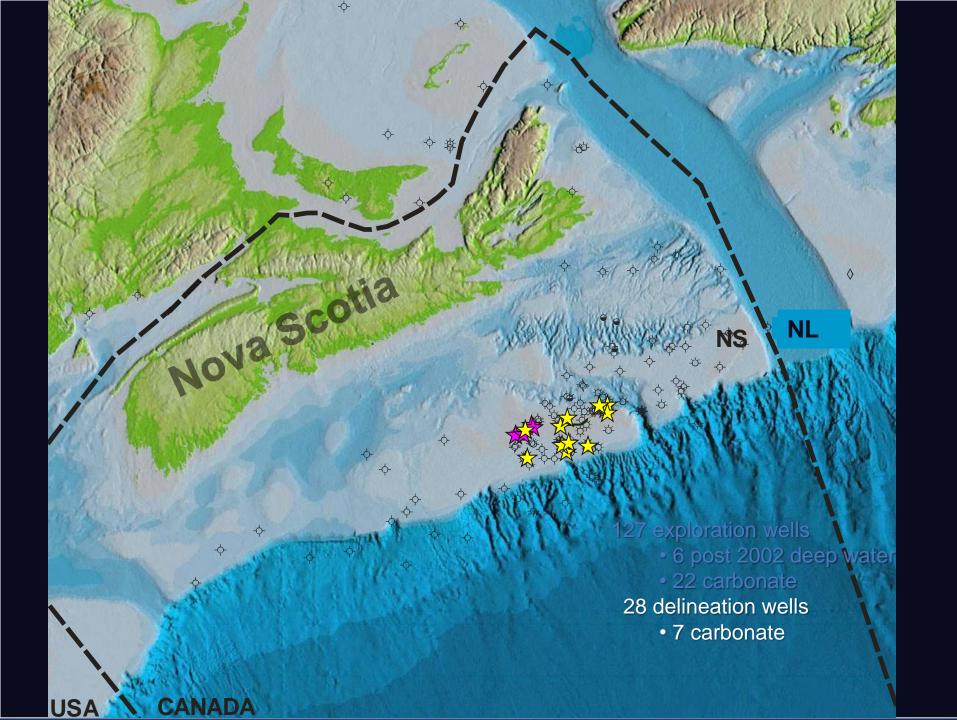


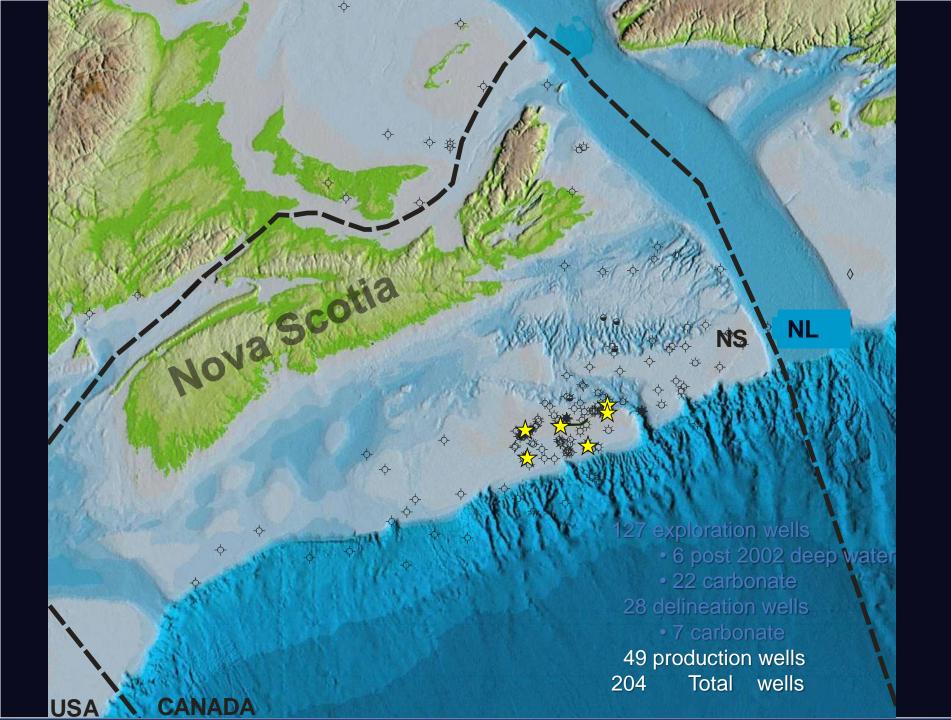
- Regional introduction to offshore NS
- Results recent Call for Bids
- Introduce forecasting system → Call for Bids
- Upcoming Call for Bids → Prospects



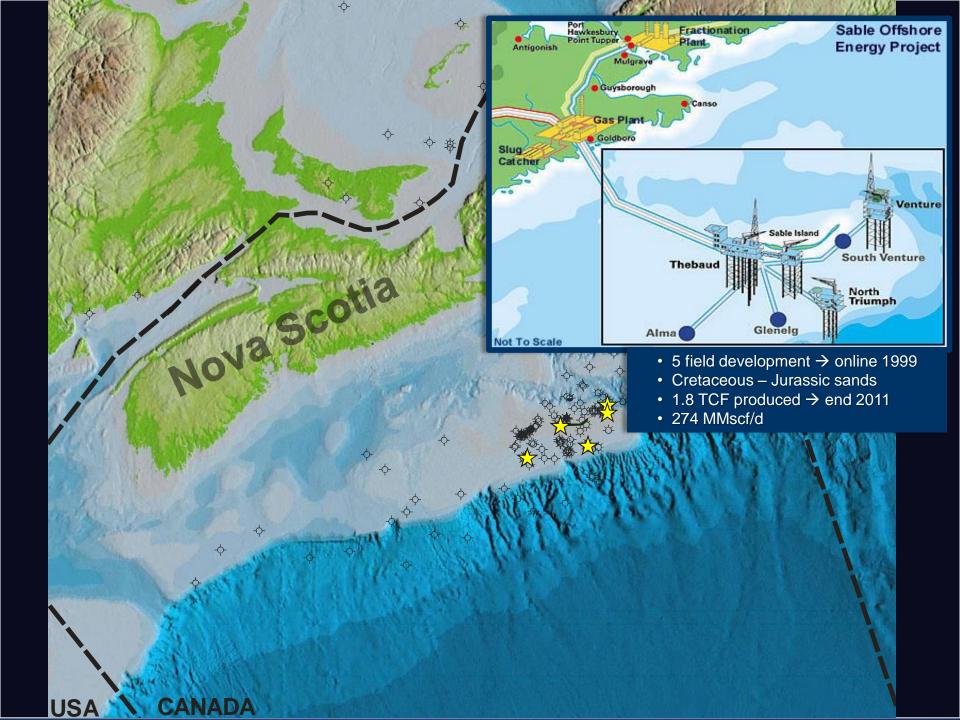


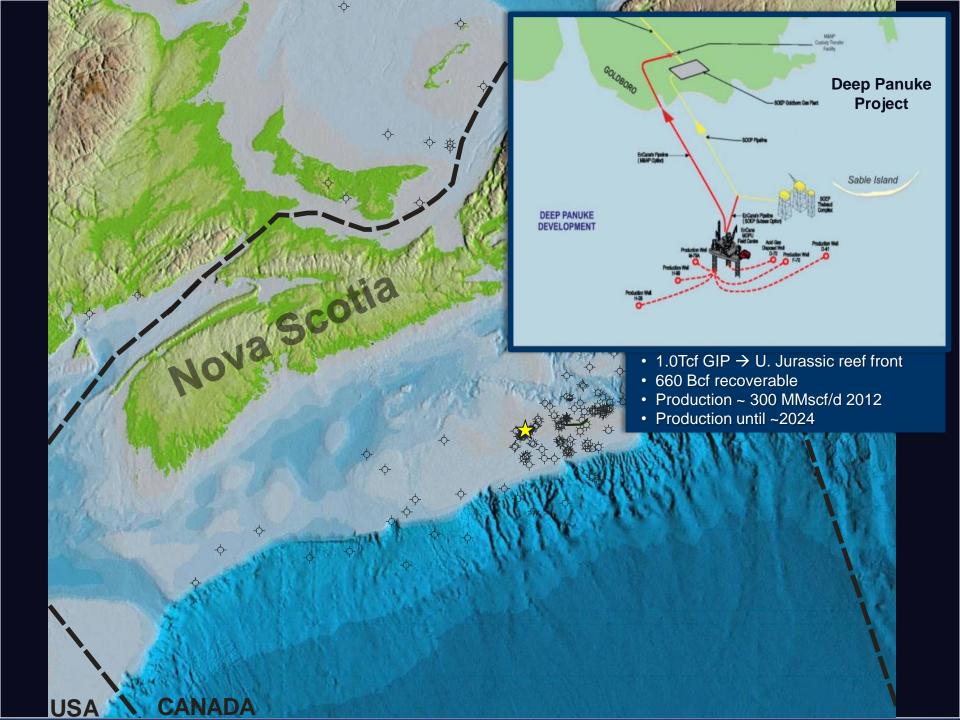


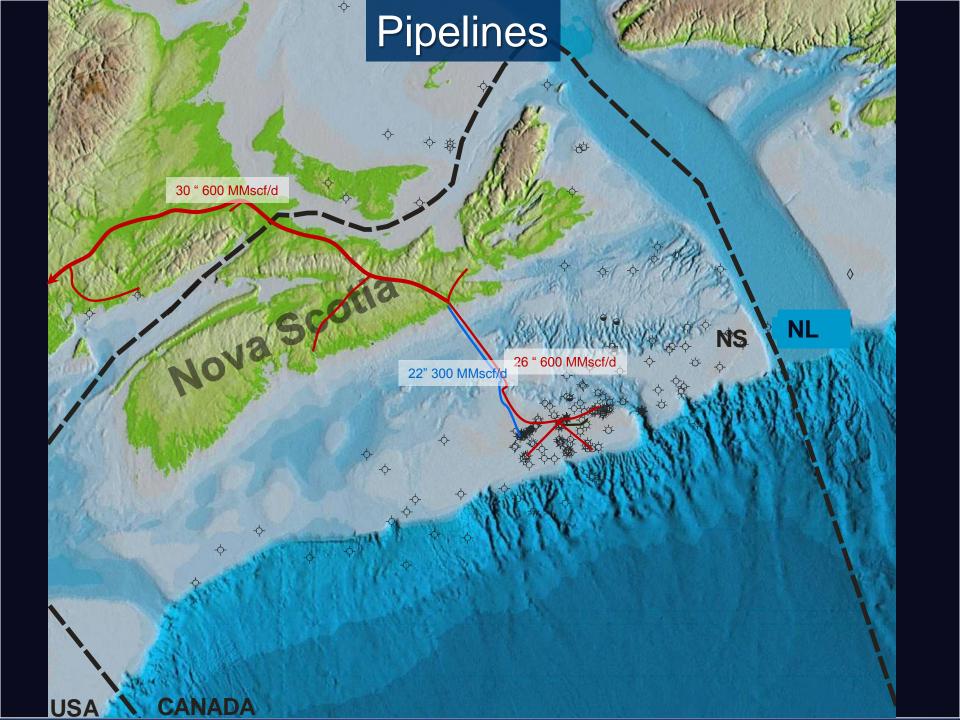


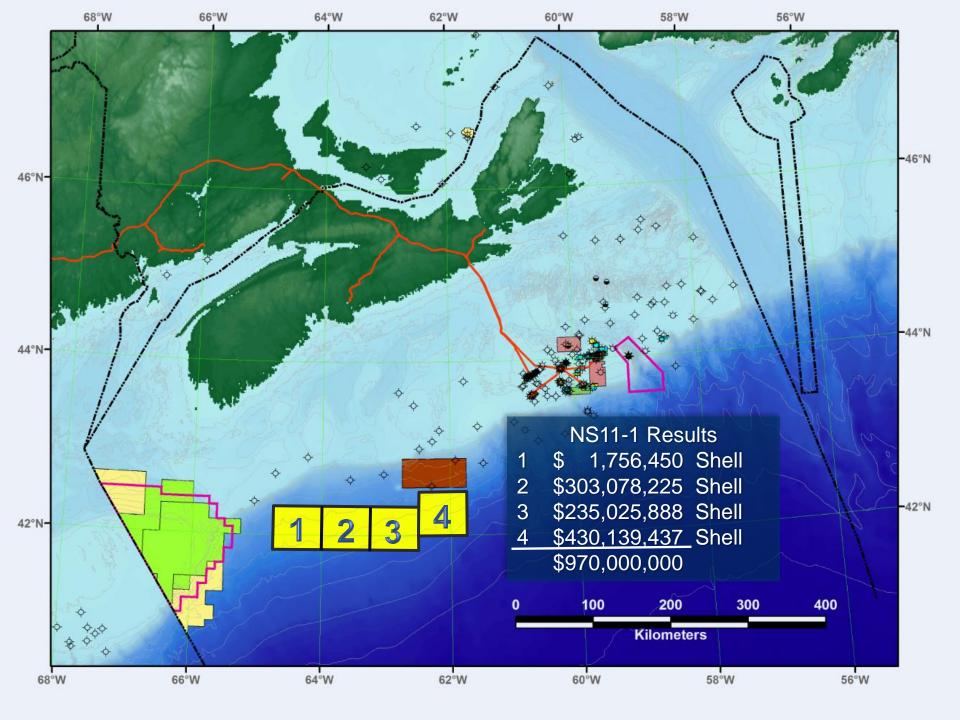


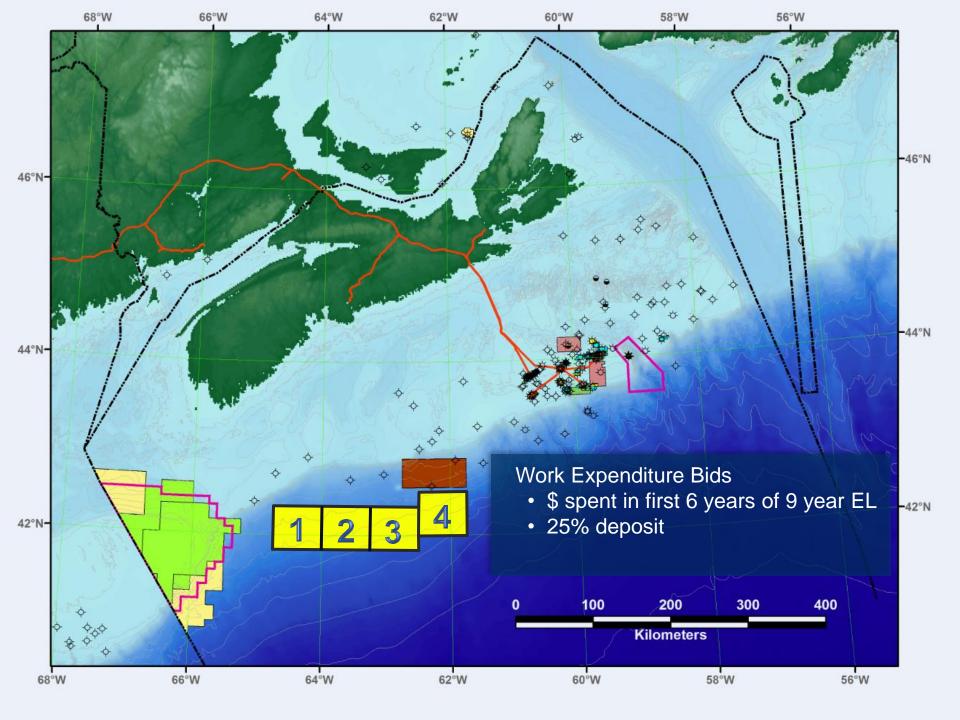








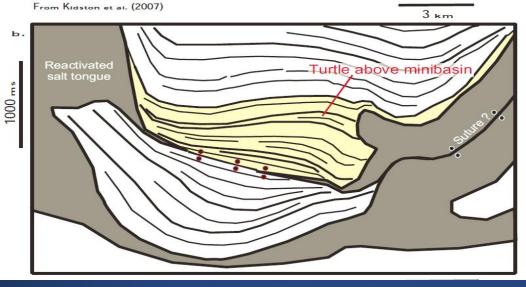




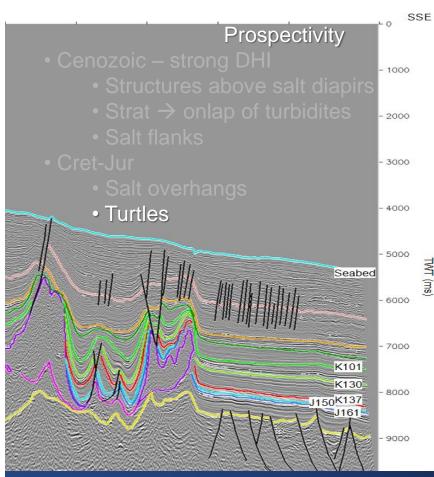


Torbrook-C-15 Block 4 Prospectivity • Cenozoic – strong DHI - 1000 Structures above salt diapirs • Strat → onlap of turbidites 2000 Salt flanks • Cret-Jur - 3000 Salt overhangs 4000 Turtles 5000 Seabed Salt Alloc Oligocene - 7000 K101 K130 J150K137

a sw 0001



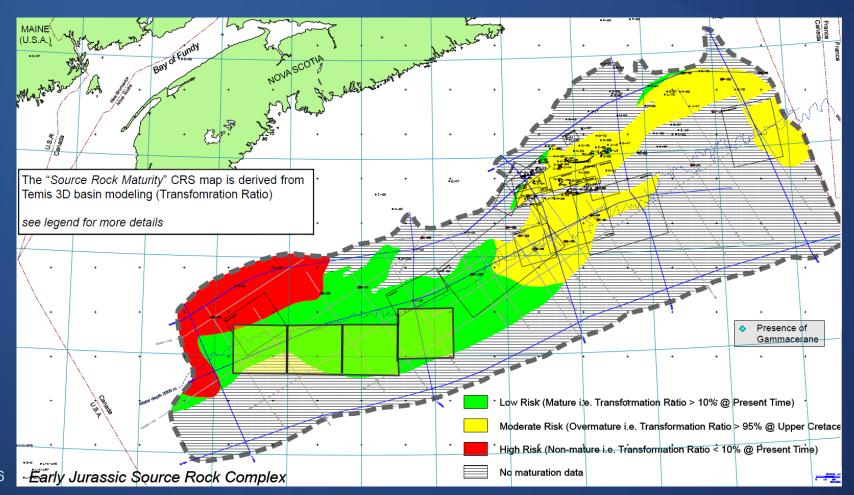
- CANADA - June 2011

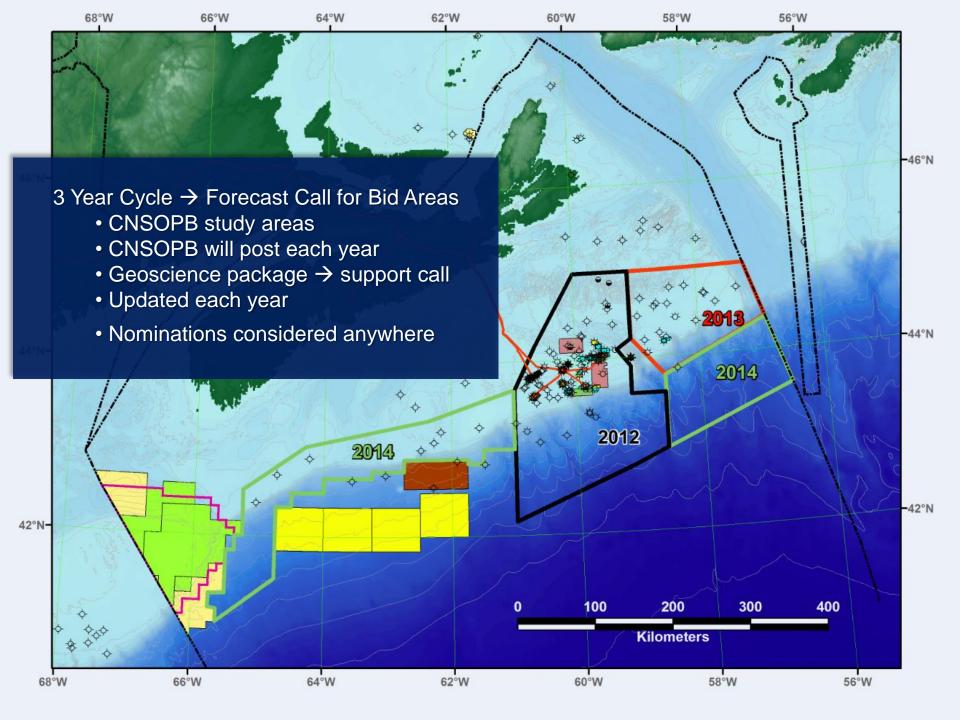


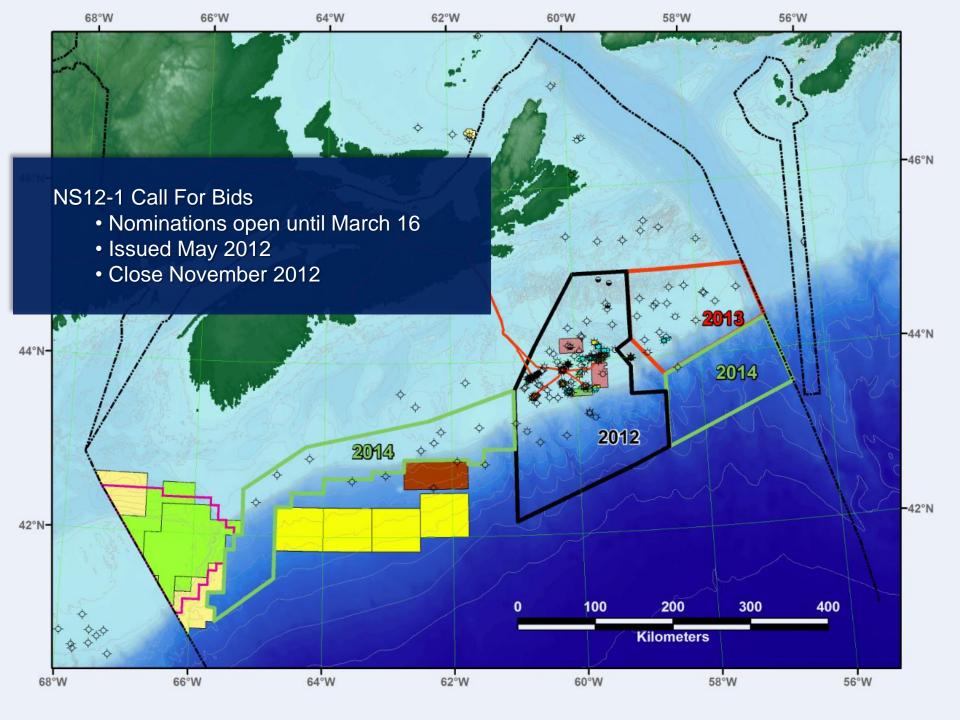


Possible Oil

- Oil prone Pliensbachian SR
- Present day oil window









2012 Study Area

- Deep water
- Sable sub basin shelf
- Western Abenaki sub basin



Deep Water

- Large multi TCF prospects
- 12 leads 15 → 200 km²
- Water 1500 → 3200m
- Proven gas pay



Deep Water Prospect

Closures

• P50 Area

P50 Net Pay

P50 Porosity

Mean In Place

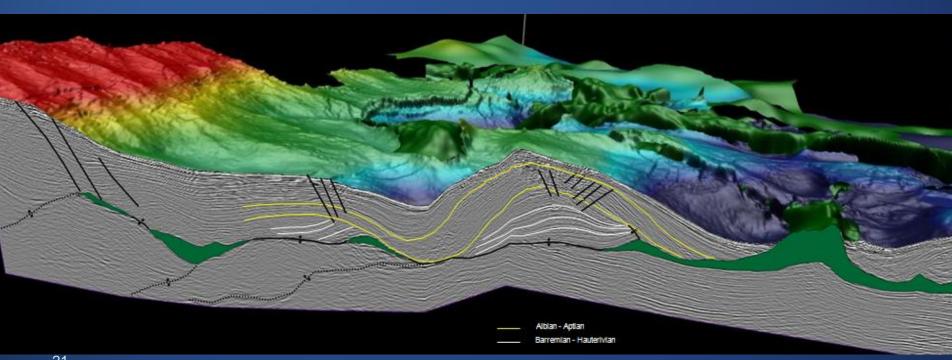
 $25 \rightarrow 80 \text{ km}^2$

31 km²

50 m

22 %

4.3 tcf





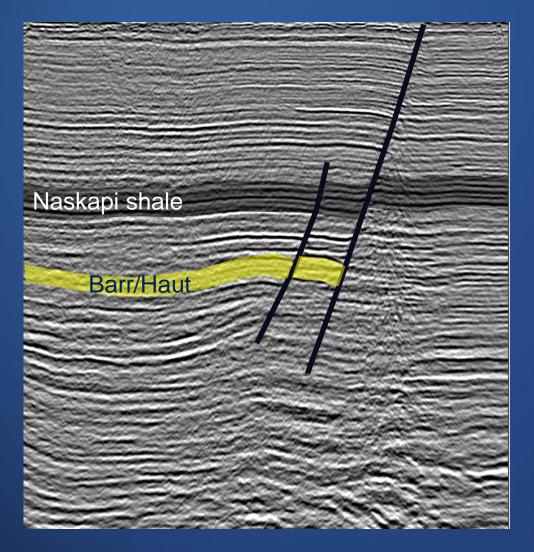
Sable Sub Basin

- Infrastructure in place
- Water depth 50 150m
- 1.8 TCF produced
- 45 million BBL oil produced
- 23 Significant Discoveries
- 55 leads → 16 Tcf GIIP*

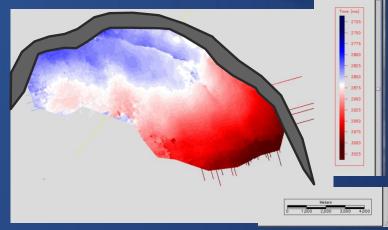
*Shell OTC paper 22028

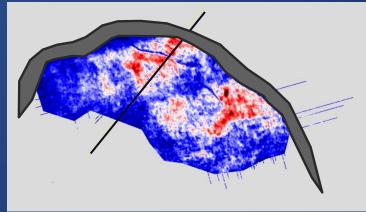


Sable Sub Basin Prospect



Molega – Up. Miss Rollover







Western Abenaki Sub-basin

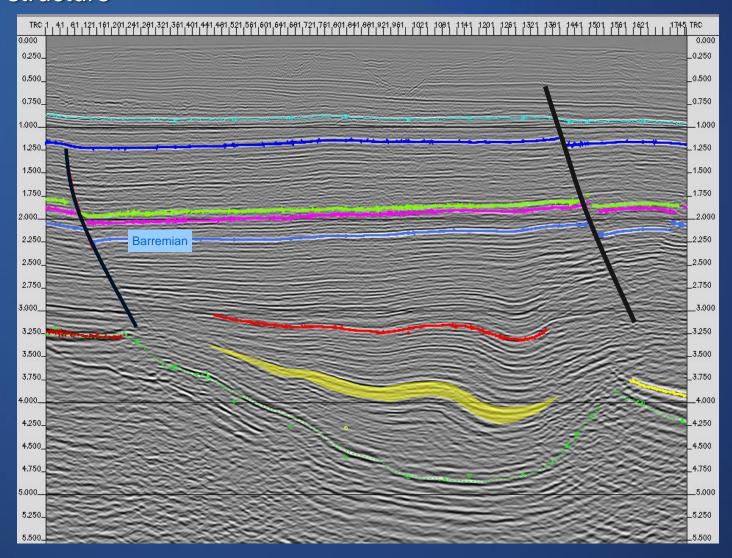
- Under explored, last well 1976
- Water depth 50 100m
- Defined "oil rim" *
- Oil shows in 3 wells

* OETRA 2011



Abenaki Sub Basin Prospect

Turtle structure





Conclusions

- Shell awarded 4 blocks on western Scotian slope \$ 970 million
- 2 blocks received highest ever offshore eastern Canada
- 3 year rolling forecast areas for future call for bids.
 - Nominations considered on all available land
- NS12-1
 - Nominations close March 16, 2012
 - Call opens May,2012
 - Call closes November, 2012.
- Come see us at Booth