SODA: Stop Offshore Drilling in the Atlantic OFFSHORE DRILLING IN THE ATL





Infrastructure of the Oil & Gas Industry

Peg Howell, **SODA** Volunteer

My first rig



"Company Man"

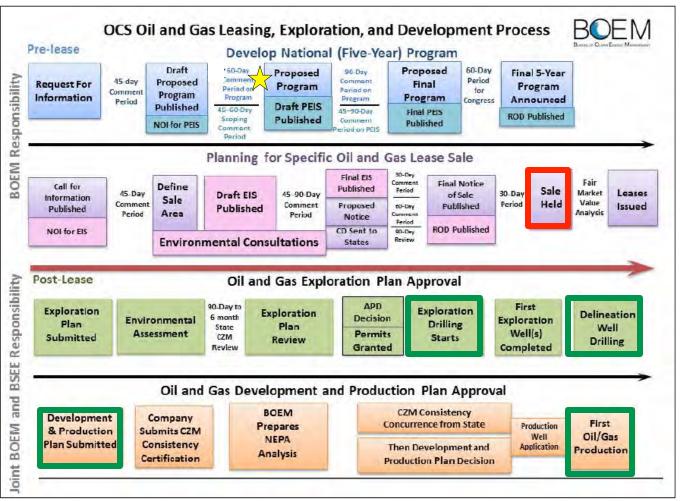


Penrod 60

Objectives

- Provide information about the on- and offshore infrastructure that supports offshore drilling during:
 - Exploration
 - Delineation
 - Development
 - Production
- Examples of infrastructure

OCS Oil and Gas Leasing, Exploration and Development Process



Possible Mid & South Atlantic **Timeline** 2015-2016 (3-5 years) ~2017-2022 Atlantic sale in 2021 (5-10 years)~2021-2028 If find producible quantities... (2-3 years) **Production begins** ~2030

Key: APD=Application for Permit to Drill; CD=Consistency Determination; CZM=Coastal Zone Management; EIS=environmental impact statement; NEPA=National Environmental Policy Act; NOI=Notice of Intent; PEIS=programmatic environmental impact statement; ROD=Record of Decision.

From prospect to pipeline

Exploration Drilling

Delineation Drilling

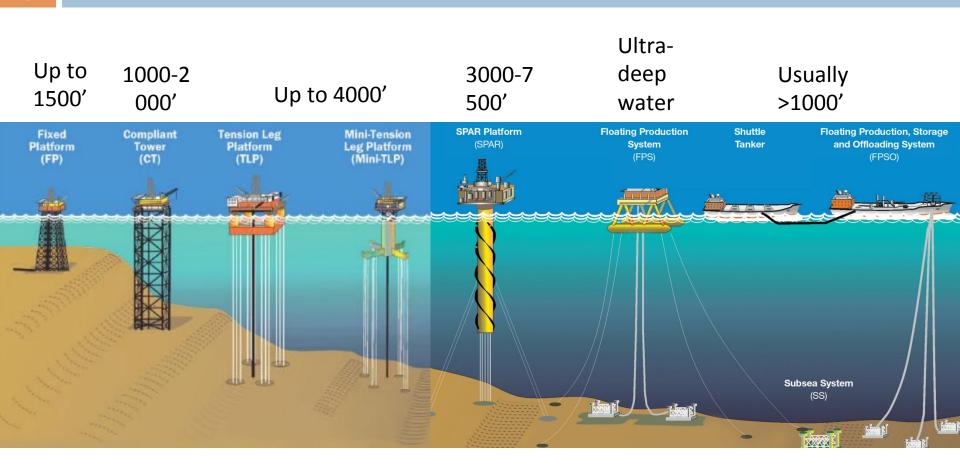
Development

Production

- Drill based on seismic analysis
- Estimate amount of O&G present
- Is additional drilling is warranted?
- If yes, do delineation drilling
- If no, plug and abandon "dry hole"

- Determine the extent and volume of the discovery
- Assess economics
- If economical now, decide to produce now or later
- If not economical now, decide to temporarily plug or release lease
- Begin engineering, designing, constructing, installing, commissioning and drilling to complete a series of production wells
- Design, obtain permits, construct, install and commission offshore and onshore facilities to recover hydrocarbons and transport them by pipelines and carriers to refineries, before distribution to consumers.

Offshore Drilling & Production



Exploration drilling

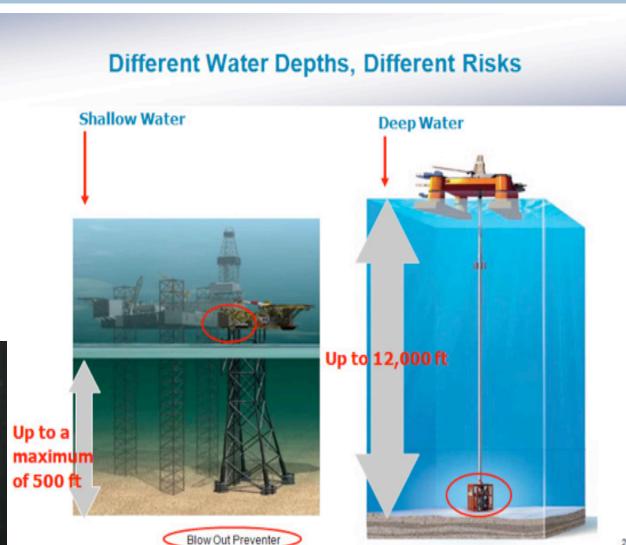


- "...Water depths for the survey area will range from approximately 328 ft to **over 16,404 ft.**"
 - Seismic company permit request

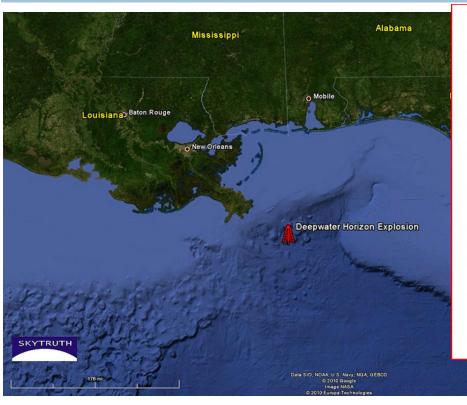
Deep water drilling is especially dangerous

- "Production from deepwater projects is expected to account for 75 % of production in 2035" -- API/Quest report
- Deepwater drilling is especially dangerous

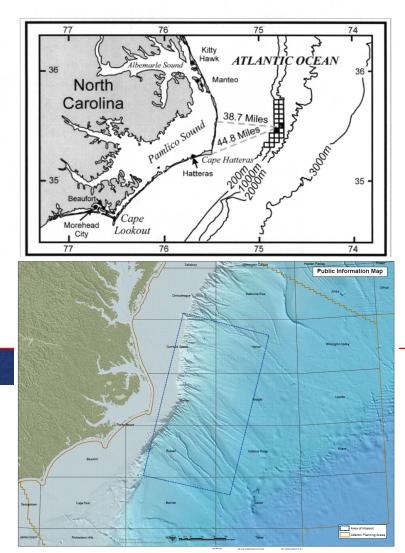




Manteo Prospect vs. Macondo/DW Horizon



The BP/Deepwater Horizon blowout was 45 miles offshore in 5000 ft of water



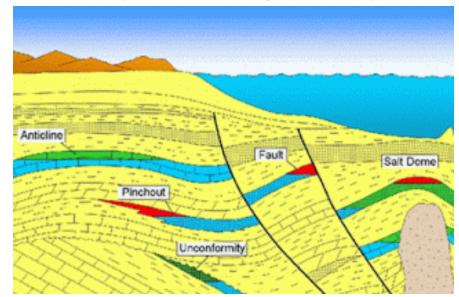
You can't explore for gas only

Drilling Advocates Claim

 We'll only produce the gas; natural gas production is less risky than oil

THE FACTS

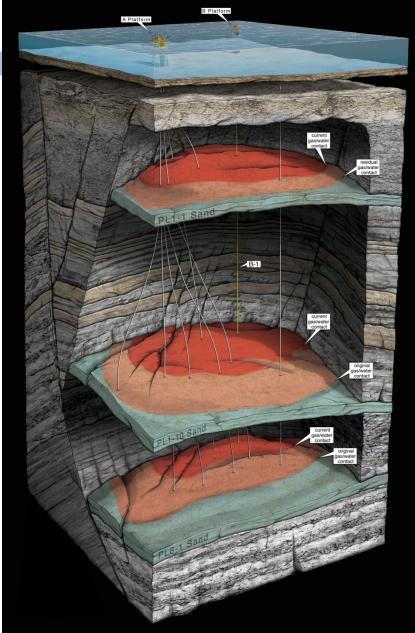
 Oil and natural gas exist together; you can't explore for gas only



Delineation Drilling

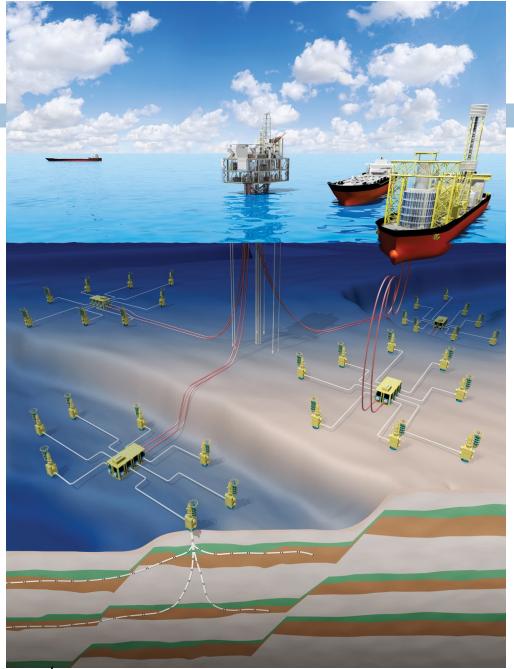
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- Assess economics
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Arena Energy's First Discovery High Island A-327 B-1

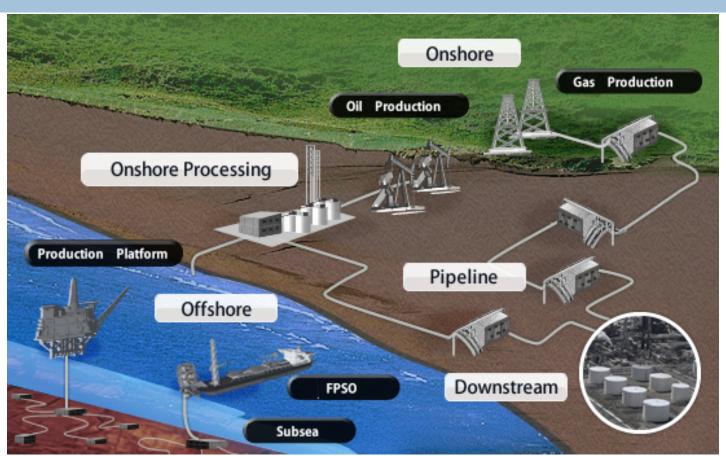


Development

Begin engineering, designing, constructing, installing, commissioning and drilling to complete a series of production wells



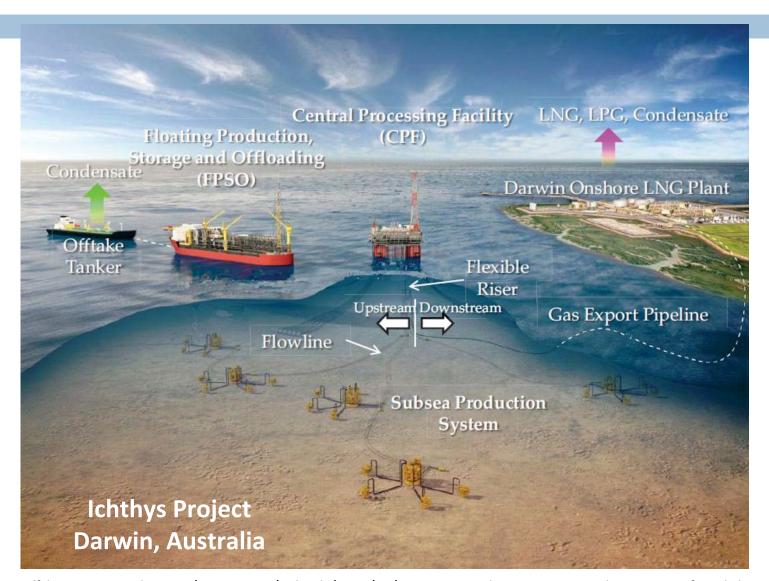
How do we get production to shore?



 Design, obtain permits, construct, install and commission offshore and onshore facilities to recover hydrocarbons and transport them by pipelines and carriers to refineries, before distribution to consumers.

http://www.yokogawa.com/us/industries/oil-gas-upstream/

Production: offshore to onshore



Infrastructure will ruin our coastline

Drilling Advocates Claim

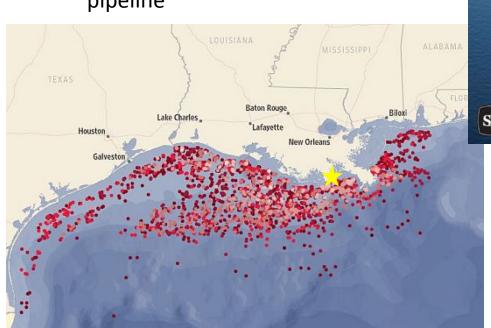
The Port of Georgetown can be a primary option for servicing related OCS development. We can be the next "Port Fourchon" (and please, make it happen as fast as you can!)

THE FACTS

Making the Port of Georgetown the next Port Fourchon will create industrialization and harm to tourism, fishing, health, and the productivity of our coastline

Port of Georgetown, SC can be the next Port Fourchon, LA!

- Port Fourchon has been in the making for 50+ years
- 1300 acre port now adding another
 4000 acres
- 250 oil field-related companies and LOOP (Louisiana Offshore Oil Port) pipeline





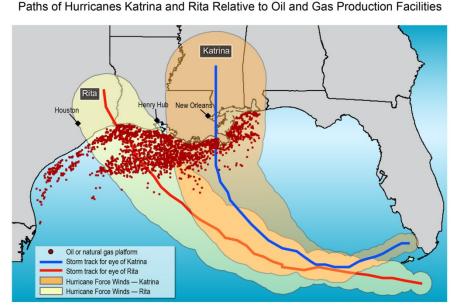
 Port Fourchon is not a vacation destination

Hurricanes: Katrina & Rita

- □ More than 9 million gallons of oil spilled from damaged offshore and coastal infrastructure
- Over 100 offshore platforms were totally destroyed
- □ More than 450 seafloor pipeline breaks
- □ Six weeks after Rita, **Tank Barge DBL 152** struck the unmarked ruins of an offshore oil platform that Rita had demolished
- □ ~2 million gallons of "slurry oil" dumped. Only 5% of this oil was recovered.
- □ Oil footprint covered **over 70 square miles**.





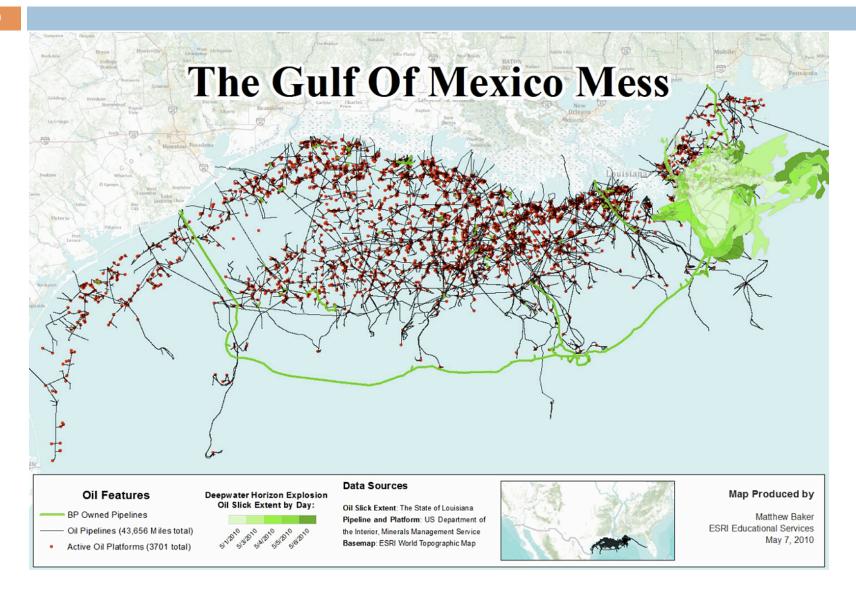


Port Fourchon



https://youtu.be/e9gLNwcaWDE

GoM infrastructure



Every US Coast...



Exxon Valdez 11 million gallons March 1989



Santa Barbara 3 million gallons January 1969



Santa Barbara pipeline break oil on 9 miles of beach May 2015



The Atlantic coast would be no different



Galveston Bay oil spills are routine -- averages 285 spills a year.



Oil Rig Explosion Kills 4 in Gulf of Mexico April 2015



Taylor Platform
Destroyed by Ivan
Leaking oil since 2004



Deepwater Horizon

210 million gallons

Hurricane Katrina 9 million gallons oil 100 rigs destroyed 450 pipeline breaks August 2005

A small sample since March 23





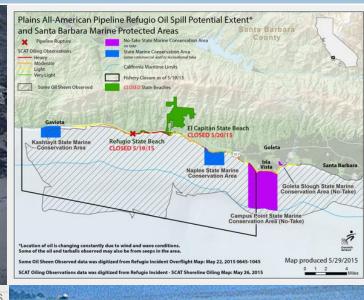




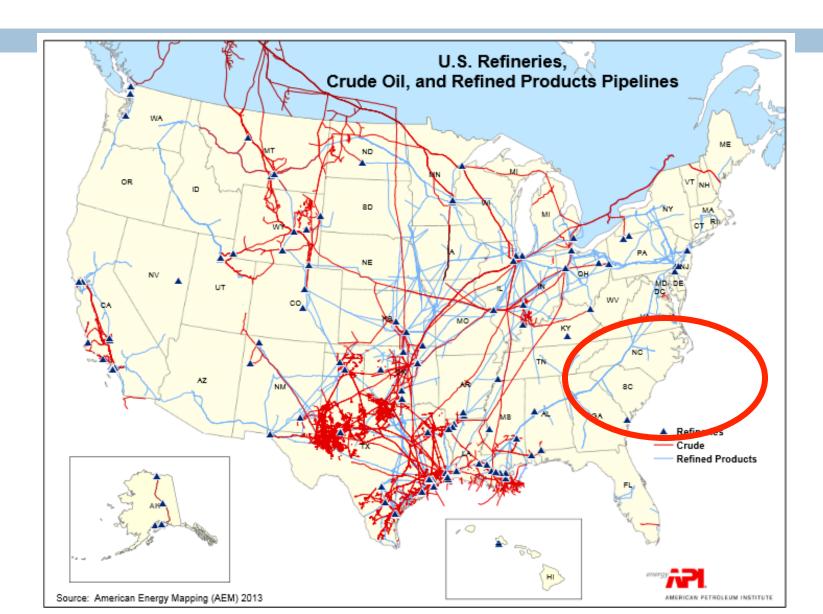
Sources: Santa Barbara County, MapBox, Times reporting

@latimesgraphics





Production: onshore to refineries & pipelines



Remember:

- Offshore drilling and the associated industrial infrastructure will FOREVER harm our property values, our beaches, our coastline and our way of life.
- It's not about energy independence, it's about oil companies wanting east coast infrastructure for EXPORT.
- We MUST let our elected officials know we OPPOSE seismic testing, offshore drilling and the infrastructure that comes with it. The time to take action is NOW.
- This is OUR LEGACY.

25 Appendix

U.S. EXPANDING CRUDE OIL, REFINED PRODUCTS, LIQUIDS, AND NATURAL GAS PIPELINES TO MEET DEMAND

