

4TH BIDDING PROCESS DEEP-WATER BLOCKS ROUND 1

Deep-water Exploration and Production
License Contracts
in the Gulf of Mexico

June 2016

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30°0'0"N

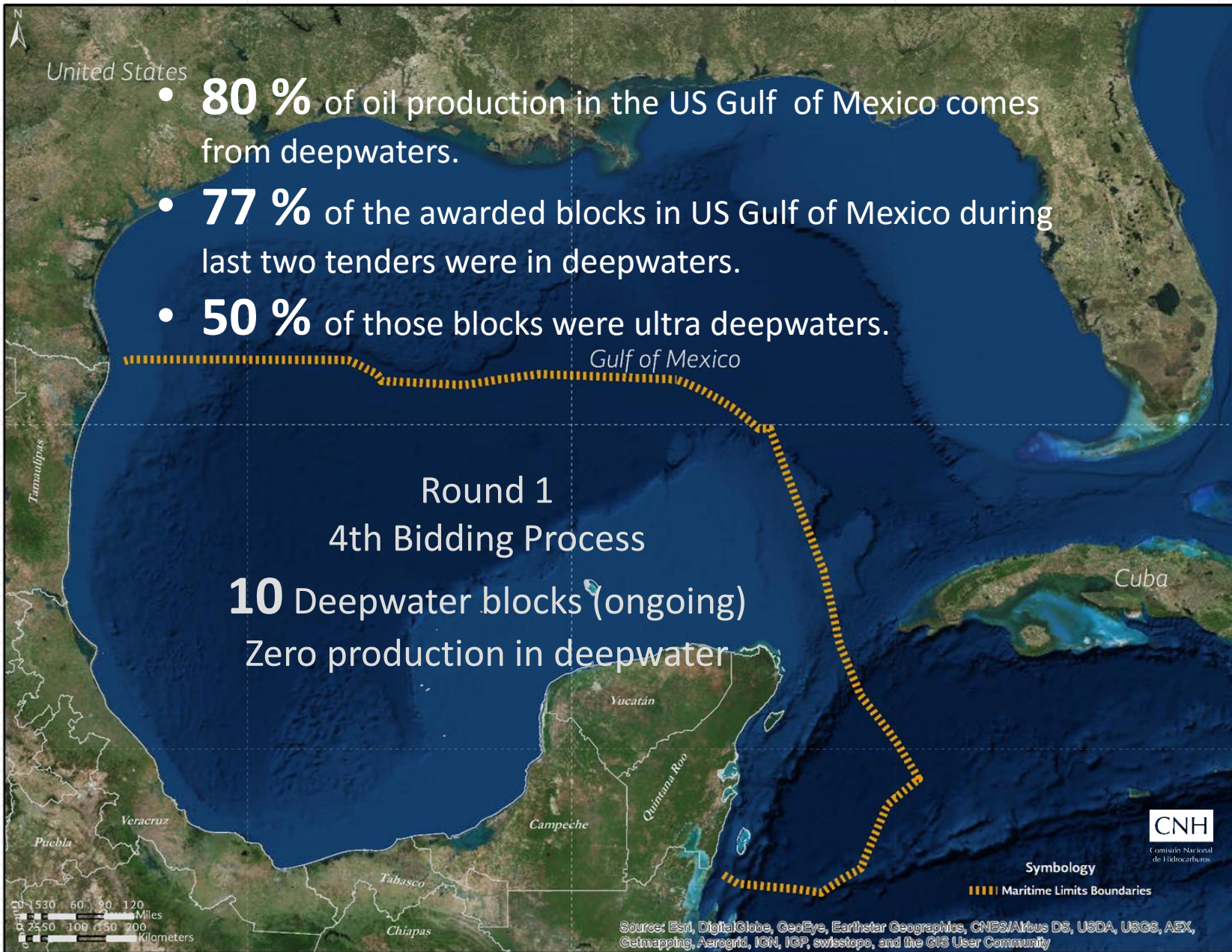
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- **80 %** of oil production in the US Gulf of Mexico comes from deepwaters.
- **77 %** of the awarded blocks in US Gulf of Mexico during last two tenders were in deepwaters.
- **50 %** of those blocks were ultra deepwaters.

Round 1
4th Bidding Process
10 Deepwater blocks (ongoing)
Zero production in deepwater

Symbology
 Maritime Limits Boundaries

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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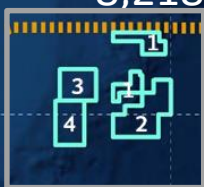
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10 Exploration Blocks (License Contracts) =

23,835 sq km

4 blocks in the
Perdido area covering
8,218 sq km



6 blocks covering
15,617 sq km within
the Salina Basin



Gulf of Mexico

Cuba

Yucatán

Campeche

Quintana Roo

United States

Source: National Hydrocarbons Commission CNH.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Geomapping, AeroGRID, IGN, IGP, swisstopo, and the GIS User Community

Round 1-Bidding 4

- Blocks
- Perdido Fold Belt Basin
- Salina Basin
- Maritime Limits Boundaries

United States

Perdido Area

USA

°API = 32-38



Success ratio = 45%

Drilled exploration wells = 11

Cost per barrel = 35 usd/barrel

Oil production (2015) = 65 thousand barrels per day

Gas production (2015) = 120 mmcf/d

Recoverable Reserves* = 511 mmboe

Mexico



°API = 28-47

Success ratio = 42%

Drilled exploration wells = 12

Oil production (2015) = 0 thousand barrels per day

Gas production (2015) = 0 mmcf/d

3P reserves = 1,000 mmboe

Markham Gas Processing Plant

Deer Park

Jones Creek Quintana

Trion-1

Maximino-1

Supremus-1

Exploratus-1

Vespa-1

SYMBOLY

- Round 1 - Bidding 4
- Pemex Farmouts
- Allochthonous salt
- Perdido Foldbelt
- Diapirs, minibasins and folds
- Peripheral belt
- Maritime Limits Boundaries
- Batimetria greater than 500 m
- 3er Party Oil Pipeline
- Oil Pipelines (Williams)
- Gas Pipelines (Williams)
- Transco (Williams)
- U. S. A. wells
- U. S. A. refineries
- Mexican wells**
- Unproductive well
- Oil and gas producer
- Non-commercial well
- Plugged well

Great White: Shell 33.34% (operator), BP 33.33%, Chevron 33.33%

Silvertip: Chevron 60% and Shell 40% (operator)

Tobago: Shell 32.5% (operator), Nexen 10%, Chevron 30%, Unocal 27.5%

Trident: Rocksource 100%

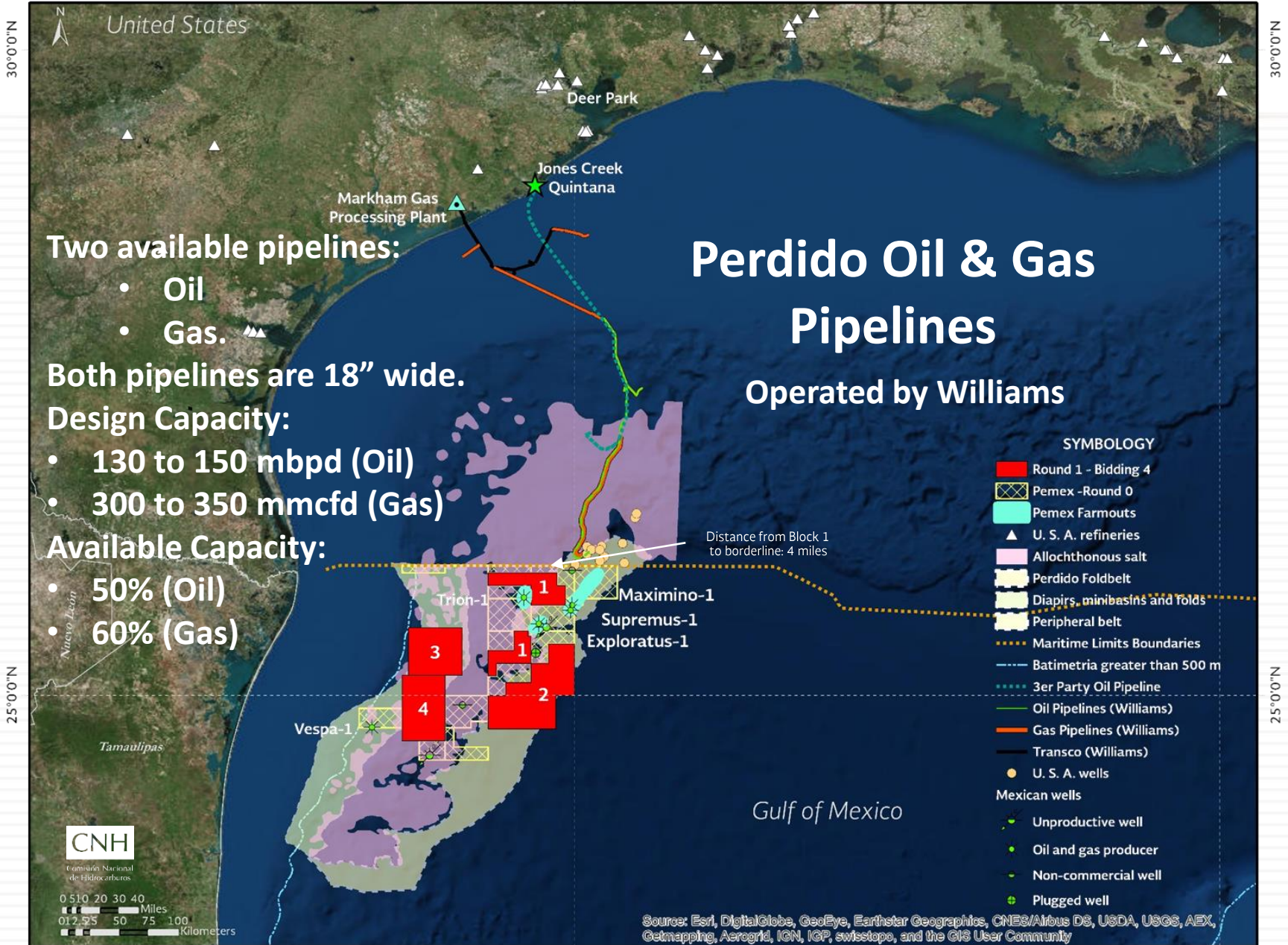
Area (sq km)	2,055
Prospective resources (MMboe)	976

*Recoverable Reserves= Proved plus probable oil, gas, condensate and LPG reserves.

Source: WoodMackenzie Global Economic Model and Upstream Data Tool. Chevron .Bureau of Ocean Energy Management BOEM. Petroleos Mexicanos and National Hydrocarbons Commission CNH..

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aergrid, IGN, IGP, swisstopo, and the GIS User Community





Two available pipelines:

- Oil
- Gas.

Both pipelines are 18" wide.

Design Capacity:

- 130 to 150 mbpd (Oil)
- 300 to 350 mmcf/d (Gas)

Available Capacity:

- 50% (Oil)
- 60% (Gas)

Perdido Oil & Gas Pipelines

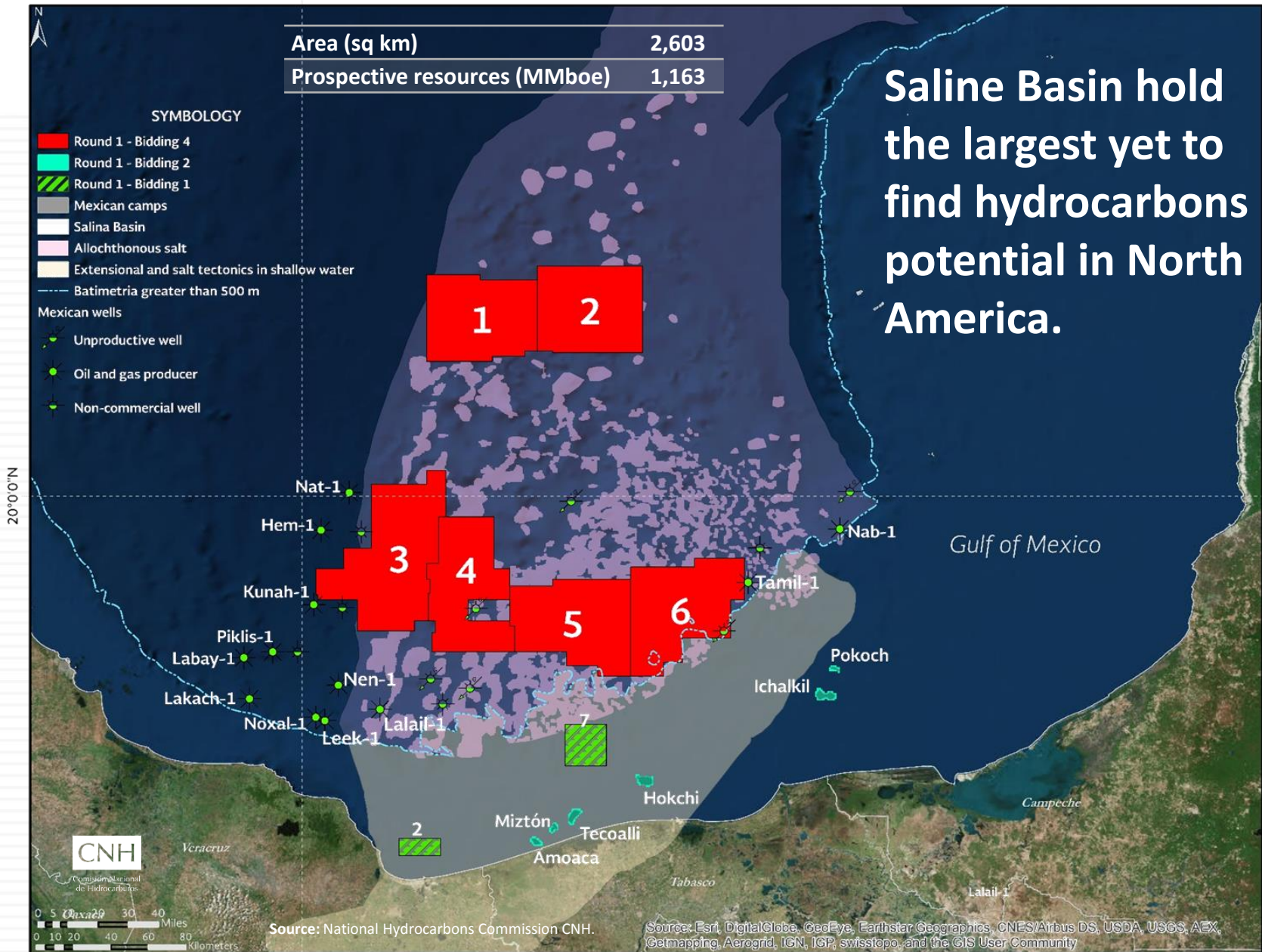
Operated by Williams

SYMBOLOLOGY

- Red square: Round 1 - Bidding 4
- Yellow cross-hatch: Pemex - Round 0
- Cyan square: Pemex Farmouts
- White triangle: U. S. A. refineries
- Pink area: Allochthonous salt
- Light purple area: Perdido Foldbelt
- Light green area: Diapirs, minibasins and folds
- Light yellow area: Peripheral belt
- Dotted line: Maritime Limits Boundaries
- Dashed blue line: Batimetria greater than 500 m
- Dotted green line: 3er Party Oil Pipeline
- Green line: Oil Pipelines (Williams)
- Orange line: Gas Pipelines (Williams)
- Black line: Transco (Williams)
- Yellow circle: U. S. A. wells
- Mexican wells:
 - Green circle: Unproductive well
 - Red circle: Oil and gas producer
 - Blue circle: Non-commercial well
 - Green circle with cross: Plugged well

Distance from Block 1 to borderline: 4 miles

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Best Leading Indicator : G&G Permits



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Granted permits represent:

71%

of all the 2D seismic data collected by Pemex.

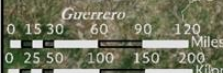
3.2

times 3D wide azimuth (WAZ) seismic data collected by Pemex.

More than 2.5 billion dollars will be invested in exploration during the 3 following years.

Granted permits: 34

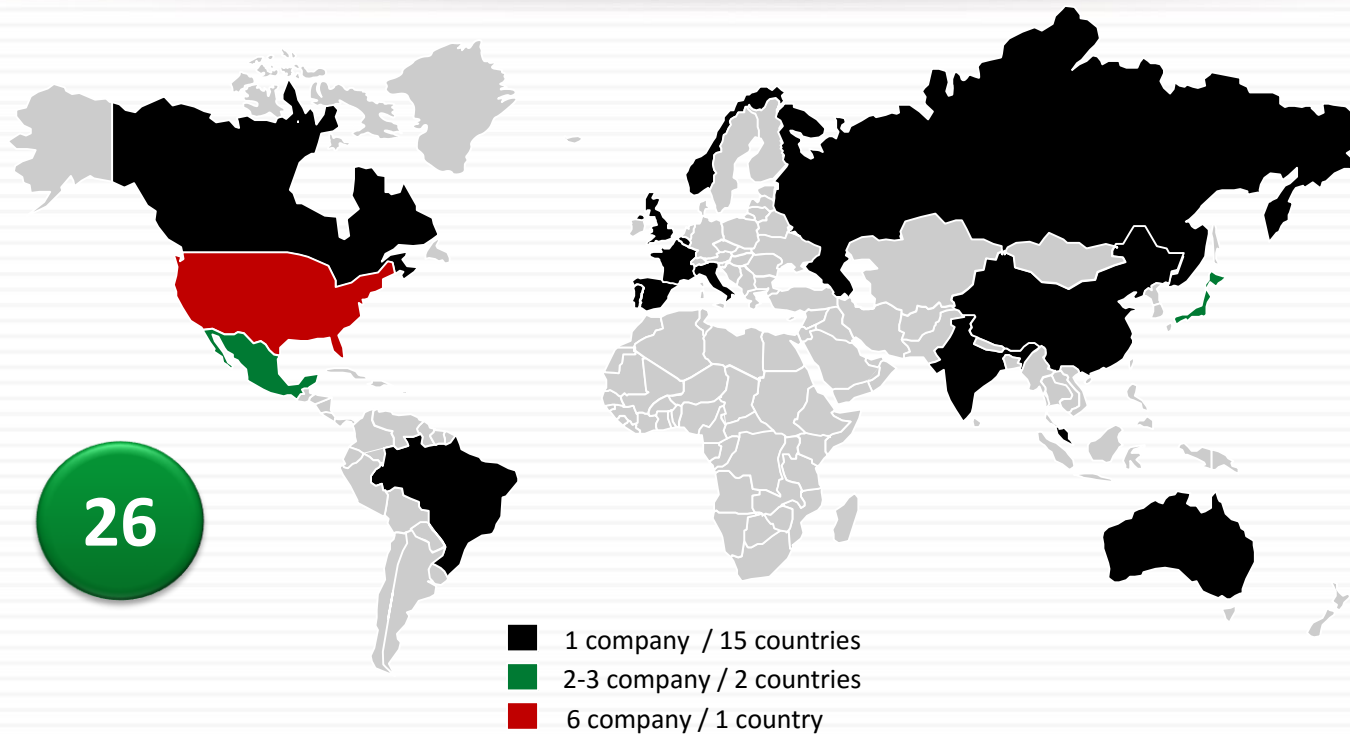
Companies: 14



Source: National Hydrocarbons Commission CNH.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

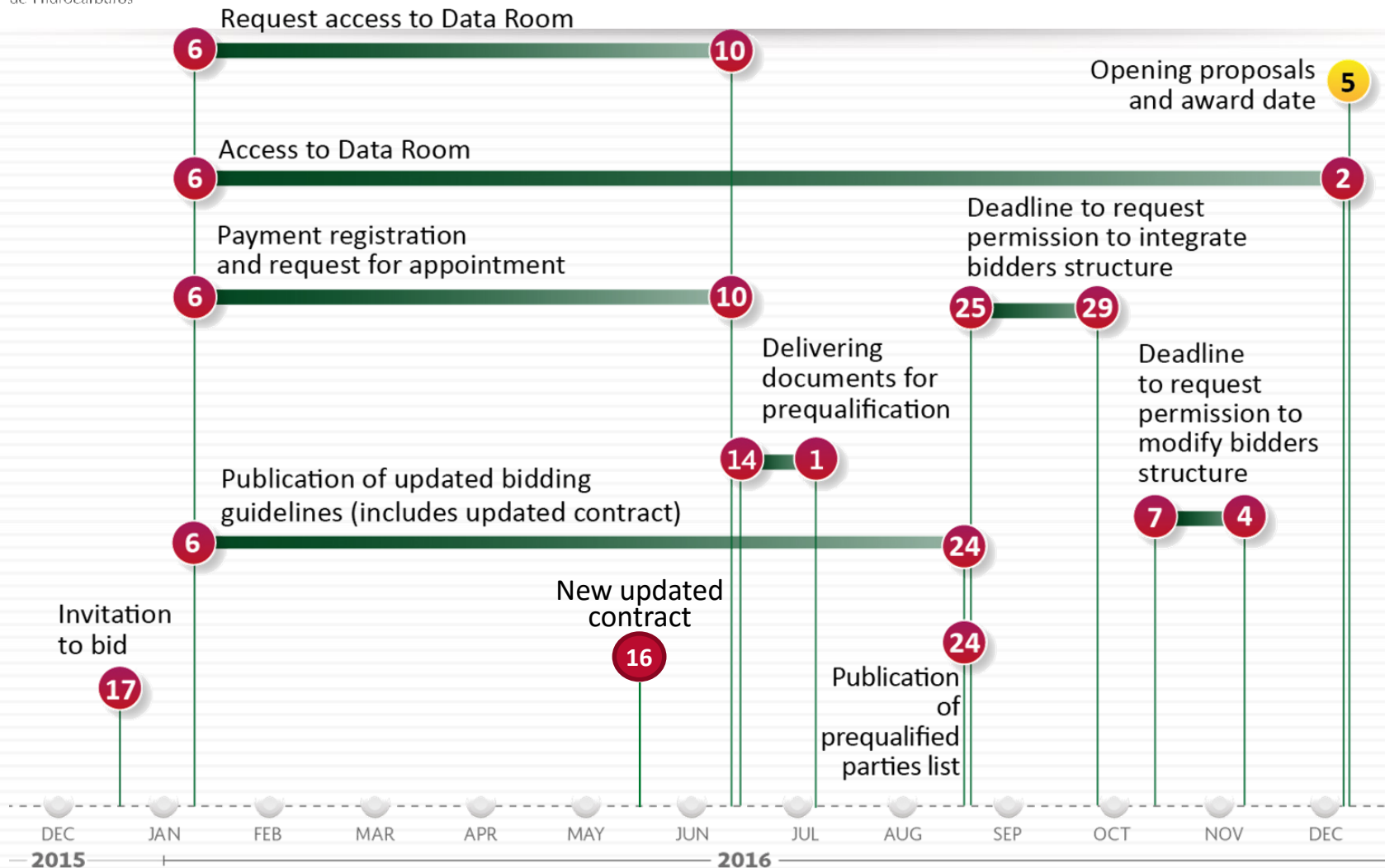
4th Invitation to Bid



- | | | | |
|--------------------|------------------|--------------------------|----------------|
| 1. Atlantic Rim * | 8. Galp | 15. NBL México* | 22. Repsol* |
| 2. BHP Billiton * | 9. Hess* | 16. ONGC Videsh | 23. Shell* |
| 3. BP* | 10. Inpex* | 17. Ophir | 24. Sierra O&G |
| 4. Chevron* | 11. Lukoil | 18. Petrobras* | 25. Statoil* |
| 5. China Offshore* | 12. Mitsui | 19. PetroCanada* | 26. Total* |
| 6. Eni* | 13. Mitsubishi * | 20. Petroleos Mexicanos* | |
| 7. Exxon Mobil* | 14. Murphy Sur* | 21. Petronas* | |

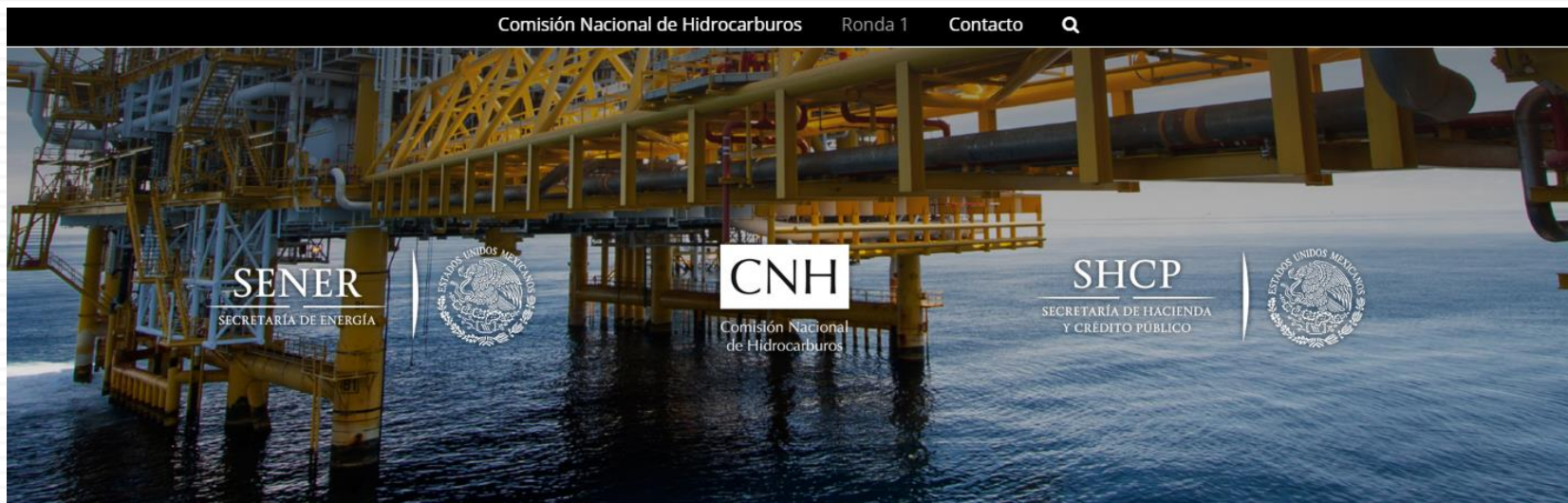
* With Access to Data Room

4th Invitation to Bid: Timeline



Deadline to sign contracts: No later than 90 days after the Award Decision to be published in the Official Gazette.

Source: National Hydrocarbons Commission CNH.



**For more information
www.ronda1.gob.mx**