



Comisión Nacional
de Hidrocarburos

Energy Data and Information

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Mexico-Alberta Regulatory Workshop

Mexico City

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Both the information and presentation that will be presented below are the sole responsibility of the speaker and do not necessarily represent the official position of the National Hydrocarbons Commission, which only authorizes the information included on the websites: www.cnh.gob.mx and www.ronda1.gob.mx, as well as the documents published in the Official Gazette of the Mexican Government.

Constitutional Amendment

Article 25.-

Government will:

- Continue to be in charge of strategic areas and maintain property and control of entities and new *State Productive Enterprises (SPEs)*.
- Provide the right conditions to include the private sector in national economic development.
- Be in charge of energy planning, social equity, productivity and sustainability.

Article 27. –

- Hydrocarbon resources will remain Mexico's. Petroleum exploration and extraction activities will be carried out by the State through *SPE entitlements* and contracts.
- *SPEs* may work with the private sector. Subsoil hydrocarbons belong to the Nation and this should be stated explicitly in *leases* and contracts.

Article 28.–

- The *Mexican Petroleum Fund* is established.
- The National Hydrocarbon Commission (CNH) and Energy Regulatory Commission (CRE) are considerably strengthened, becoming *Constitutionally Coordinated Entities*.
- Development and maintenance of the National Center of Information of Hydrocarbons (CNIH).

This is the most significant overhaul of the energy sector in this country in more than half a century: a truly major, better-than-expected reform.

According to...

Constitution of the Mexican United States

- CNH will develop and maintain the National Hydrocarbon Information Center (CNIH).

Hydrocarbons Law

- It belongs to the State information obtained from exploration or extraction activities.
- CNIH is responsible for the collection, shelter, use, administration and update, as well as the publication of the information.
- It is prohibited to publish, deliver, or acquire information without permission of CNH.
- Authorized entities that realize activities of recognition and superficial exploration will have a right to the commercial use of the information during a limited period of time.
- CNH will guarantee the confidentiality of the information in accordance with the period and criteria established in the applicable regulation.
- CNH will develop and maintain a National Core Repository
- CNH may hire the State productive enterprises or individuals to carry out activities of recognition or surface exploration.
- Within 2 years, PEMEX and IMP will transfer all the information.

Regulations

- CNH will define mechanisms and criteria to access to CNIH and Core Repository.
- CNH will sign inter-institutional agreements to access to information contained in the Centre.

- **Purpose:** To establish the requirements and procedures to obtain the right use of geological, geophysical, petrophysical, petrochemical, geochemical, and any type of obtained information from the ARES processes, as well as Exploration and Extraction hydrocarbon activities under contract, located in the National Hydrocarbons Information Center.
- **Scope**
 - i) Anyone
 - ii) Contractors and SPE
 - iii) Guidelines do not apply to ARES.
- **Granting use:** The Commission will grant the right of use of Information through a License Agreement.
- **Terms of use:** The Information shall be granted by a period of twenty five years which may be extended only once for an additional five years

Centro Nacional de Información de Hidrocarburos
Dirección General de Regulación y Consulta



JUAN CARLOS ZEPEDA MOLINA, EDGAR RENÉ RANGEL GERMAN, NÉSTOR MARTÍNEZ ROMERO, SERGIO HENRIVIER PIMENTEL VARGAS y HÉCTOR ALBERTO ACOSTA FELIX, Comisionado Presidente y Comisionados, respectivamente, integrantes del Órgano de Gobierno de la Comisión Nacional de Hidrocarburos, con fundamento en los artículos 25, párrafo cuarto, 27, párrafo séptimo y 28, párrafo cuarto de la Constitución Política de los Estados Unidos Mexicanos; 32, 35, 43, fracción I, Incisos b) y k) y último párrafo, y 95 de la Ley de Hidrocarburos; 2, fracción I, 3, 4, 22, fracciones II, III, V y VIII, 38, fracciones I y III, y 39, fracciones I, II y IV de la Ley de Organos Reguladores Coordinados en Materia Energética; 60 del Reglamento de la Ley de Hidrocarburos, y 10, fracción I, 11, 12 y 13, fracciones IV, Incisos a), c), d), V, Incisos a), c) y XIII del Reglamento Interno de la Comisión Nacional de Hidrocarburos

CONSIDERANDO

Que de conformidad con el artículo 32 de la Ley de Hidrocarburos, pertenece a la Nación la información geológica, geofísica, petrofísica, petroquímica, geoquímica y, en general, la que se obtenga o se haya obtenido de las actividades de Reconocimiento y Exploración Superficial, así como de Exploración y Extracción, llevadas a cabo por parte de Petróleos Mexicanos, cualquier otra empresa productiva del Estado o por cualquier persona.

Adicionalmente, esta disposición legal señala que corresponde a la Comisión Nacional de Hidrocarburos (en adelante, Órgano Regulador o Comisión) el acopio, resguardo, uso, administración y actualización, así como la publicación de dicha información, por medio del Centro Nacional de Información de Hidrocarburos.

Que el artículo 32 referido prohíbe a Petróleos Mexicanos, a cualquier empresa productiva del Estado, así como a los Particulares, el publicar, entregar o allegarse de la información antes referida, por medios distintos a los contemplados por la Ley o sin contar con el consentimiento previo de la Comisión.

Que este Órgano Regulador debe definir la confidencialidad y los criterios y plazos conforme a los cuales hará pública la información que reciba, y que las universidades y centros de investigación tendrán acceso a la información en los términos de los convenios que al efecto celebren con la Comisión, de acuerdo con lo señalado en el artículo 35 de la Ley de Hidrocarburos.

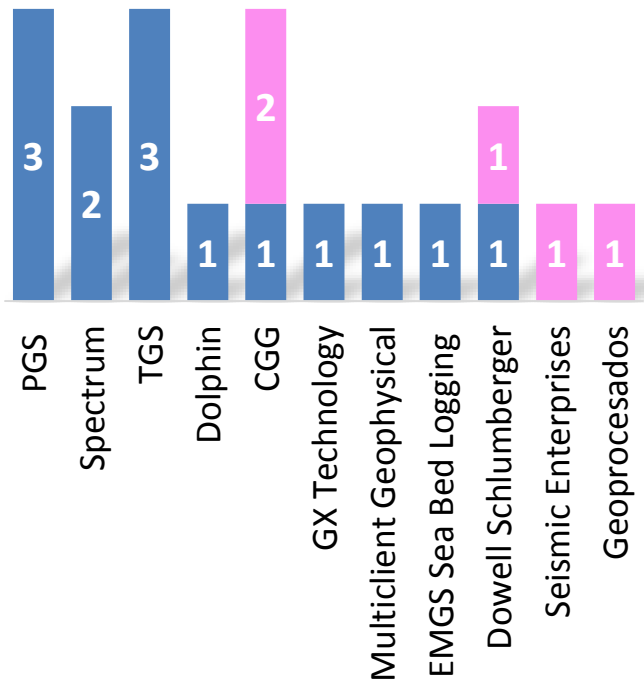
Que la Comisión debe ejercer sus funciones considerando el objetivo de acelerar el desarrollo del conocimiento del potencial petrolero del país, así como promover el desarrollo de las actividades de exploración y extracción de hidrocarburos en beneficio de México, en términos de lo dispuesto por las fracciones I y VI del artículo 39 de la Ley de los Organos Reguladores Coordinados en Materia Energética.

Que de conformidad con lo previsto en los artículos 4 de la Ley de los Organos Reguladores Coordinados en Materia Energética y 43, fracción I, Incisos b) y k) de la Ley de Hidrocarburos, corresponde a la Comisión emitir la regulación y supervisar su cumplimiento en las materias de su competencia, específicamente, respecto del acopio, resguardo, uso, administración y actualización, así como, en su caso, la publicación, a través del Centro Nacional de Información de Hidrocarburos, de la información geológica, geofísica, petrofísica, petroquímica, geoquímica y, en general, la que se obtenga o se haya obtenido de las actividades de Reconocimiento y Exploración Superficial, así como de Exploración y Extracción, llevadas a cabo por Petróleos Mexicanos, cualquier otra empresa productiva del Estado o por cualquier persona.

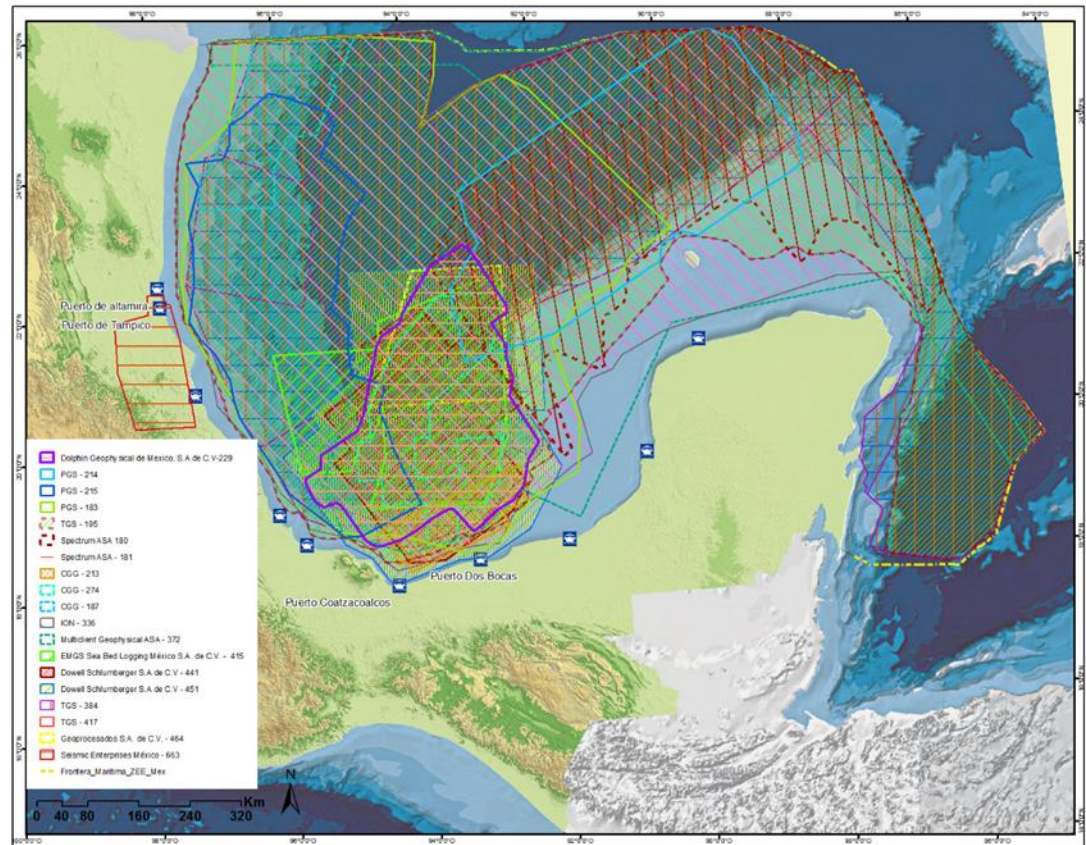
- Administrative authorization brought the National Hydrocarbons Commission (CNH) can perform activities related with recognition and surface exploration for an specified time. CNH grants the right of commercial use of resulting interpretations.
- Companies and state productive enterprises that wish to perform these activities in Mexico may request as many authorizations as needed.

19 Authorized Projects

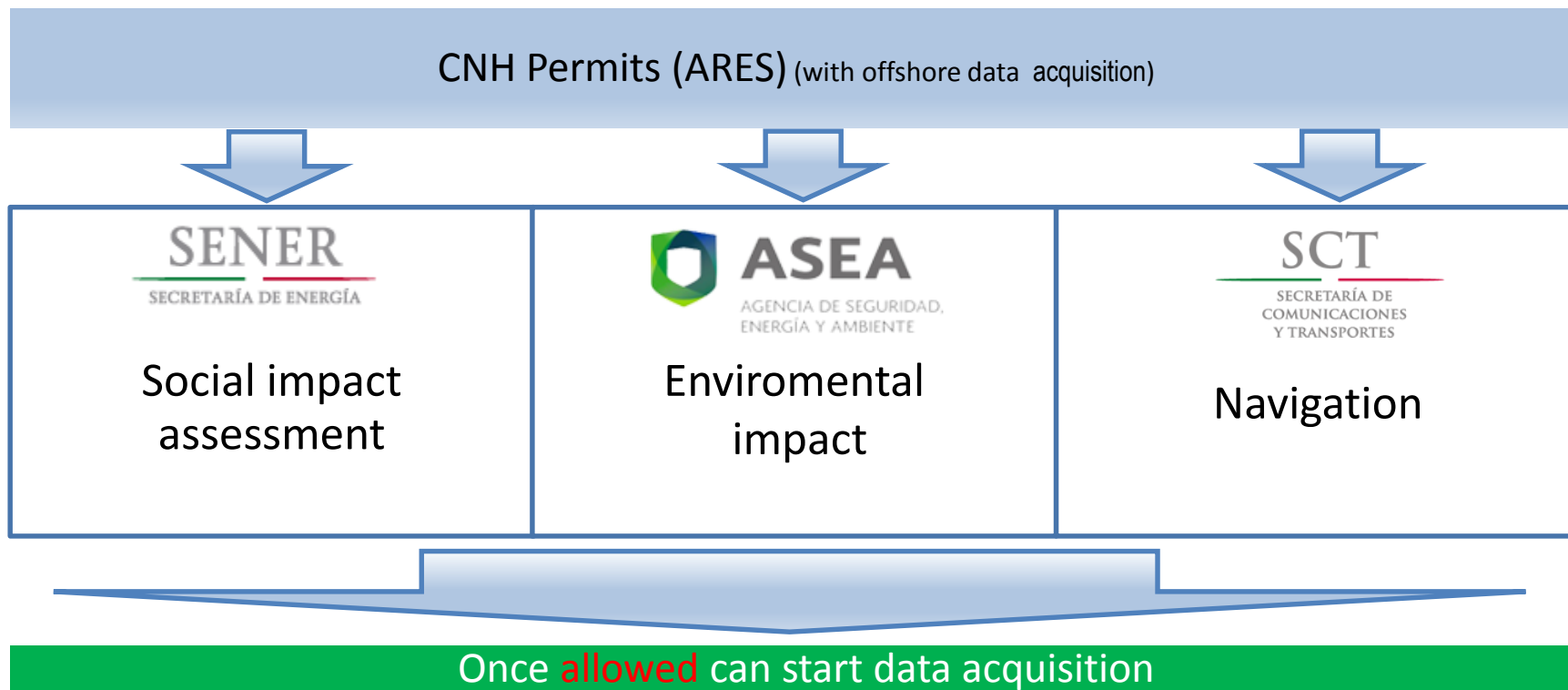
■ Acquisition ■ Processing

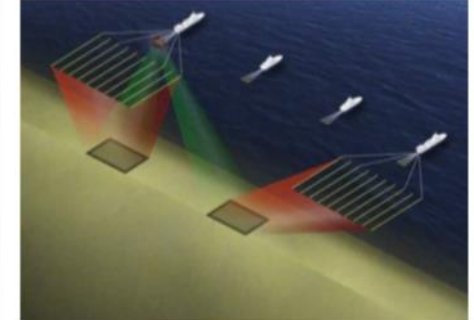


Autorización
Reconocimiento
Exploración
Superficial



Required permits to perform data acquisition activities





- 2D and 3D Data Acquisition
- Multibeam technology

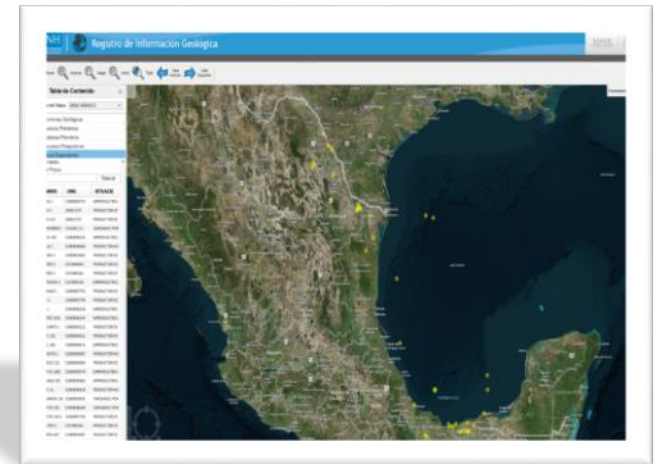
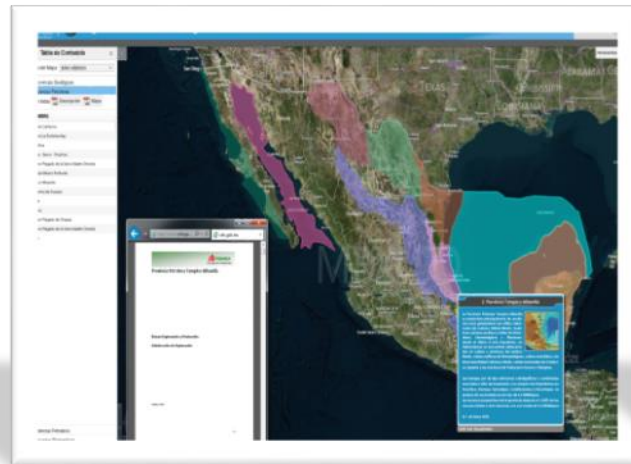
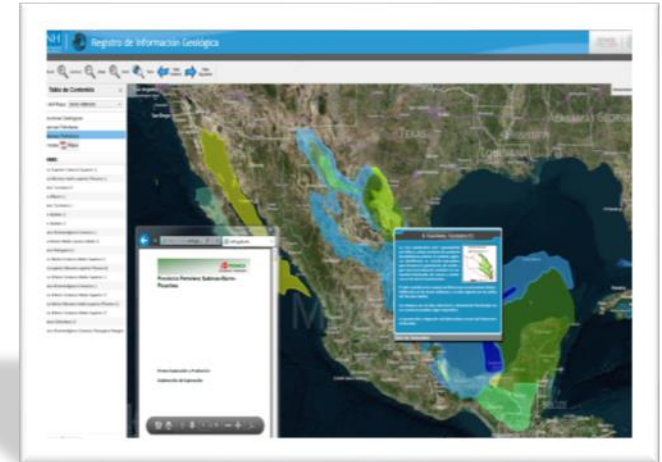
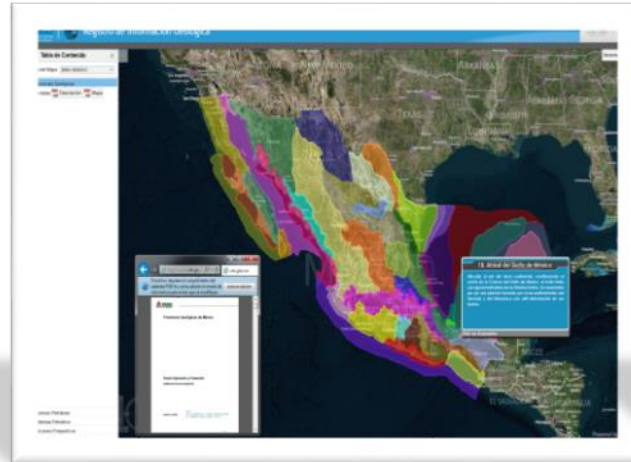


☐ *Geologic Provinces*

☐ *Petroleum Basin*

☐ *Prospective Resources*

☐ *Exploratory Wells*





The Data Ownership coming from Exploration and Extraction are national property this mandate is in the transitory provisions of the Constitution and Articles 35 and 43 of the Hydrocarbons Law.

National Hydrocarbons Commission is in charge of collecting, protecting, using, managing, updating and publishing of information, through the National Hydrocarbons Information Center (CNIH).

The National Hydrocarbon Information Center (**CNIH**) has been integrated by a system for gathering , collecting, protecting , managing , using, analyzing, updating and publishing the information and statistics shown in the following table. We also include the Core Repository.



Geophysics

- Seismic
 - Field
 - Processed
 - Interpreted
- Potential methods (processed and interpretation)
 - Gravimetry
 - Magnetometry
 - Electromagnetic

Geology

- Well
 - Surface and downhole coordinates
 - Gyroscope data
 - Lithological studies and reports
 - Oil Wells Investment
 - Production Test
 - Completion
- Cores
 - Acquisition
 - Imaging
 - Description of the cores
 - Basic and special analysis
 - Special analysis
 - Paleontological analysis
 - Petrographic analysis
- Well Logs
 - Open Hole logs
 - Special logs
- Sedimentology
- Stratigraphy
 - Biostratigraphic studies and reports
 - Geological markers

Reservoirs

- Petrophysics

- Cores Statistical Sampling Report
- Images
- Cores description
- Processing methods, parameters and information
- Petrophysical log interpretation

• PVT analysis

• Fluid analysis

• Reserves

- Original volumes
- 1P, 2P and 3P reserves
- Recovery Factors
- Documentation to certify volumes
- Certifying Companies reports

Drilling

- Drilling History
- Costs

Production

- Production history
- Monthly production data
- Production forecast

Surface facilities

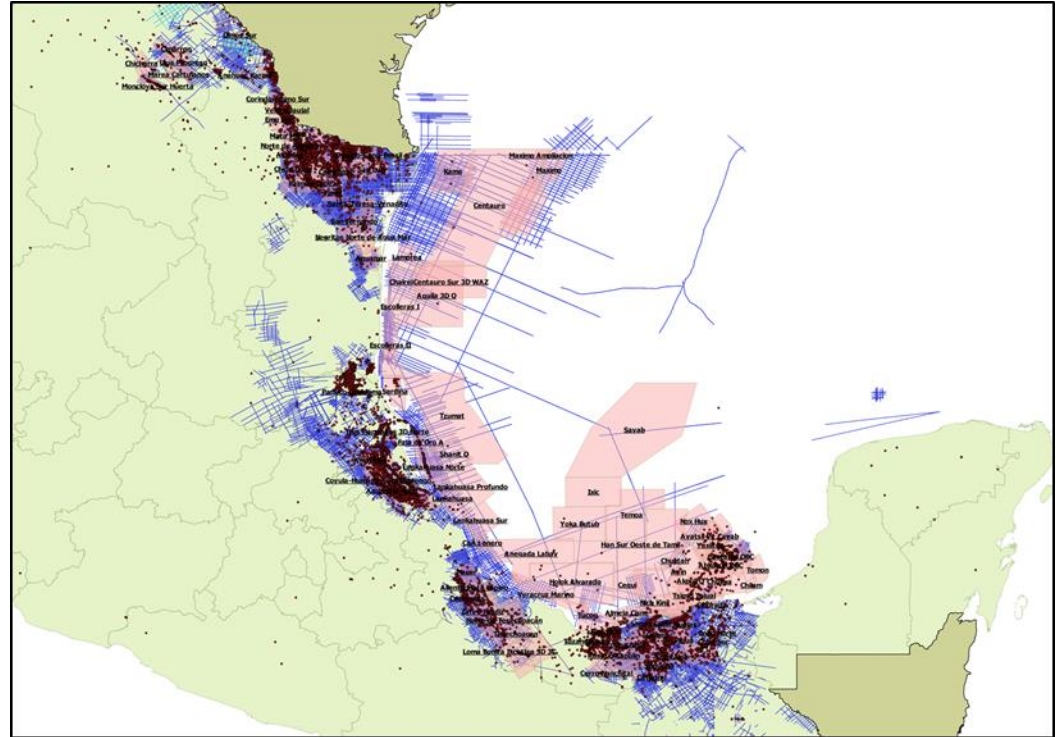
- Platforms
- Pipelines
- Station
- Injection and dehydrating plants
- Others

Current situation of CNIH:

The National Hydrocarbons Information Center (CNIH) has hired a storing capacity of 10 Petabytes (PB) besides data backup.

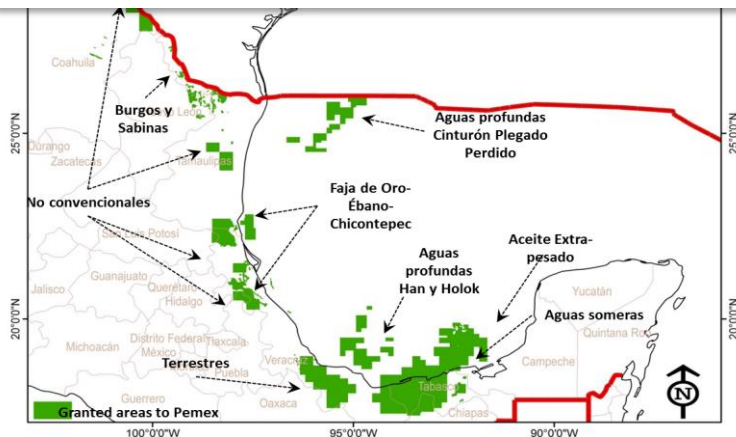
All the information will be transferred from PEMEX to CNH. This represents 5.5 PB.

1 (PB) has been already transferred.



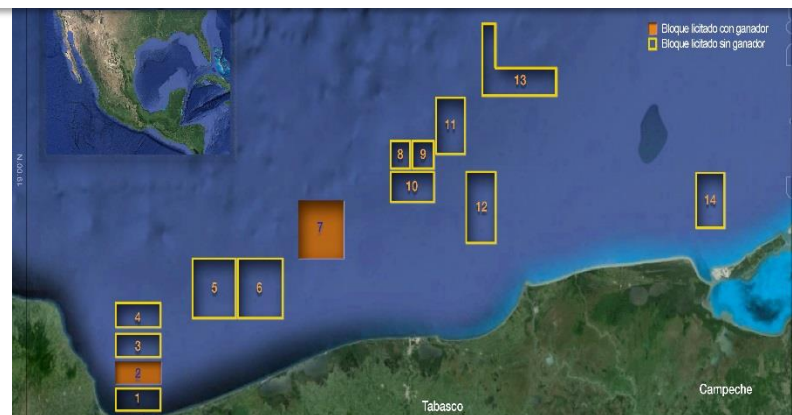
Round Zero

83% of 2P Reserves and 21% of Prospective Resources were granted to Pemex.



Round One: 1st Call, Shallow Water Exploration

Consortium Sierra Oil & Gas S. de R.L. de C.V., Talos Energy LLC y Premier Oil PLC won blocks 2 and 7.



Round One: 2nd Call, Shallow Water Extraction

9 Fields in 5 Contracts



Round One: 3rd Call, Onshore Extraction

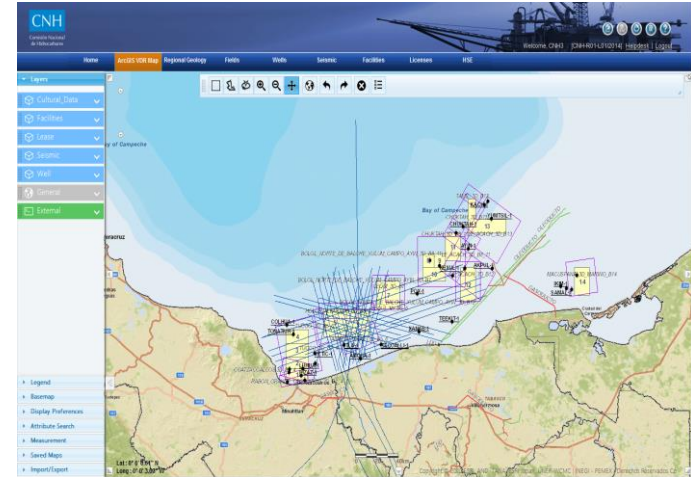
25 Fields: 8 Dry Gas, 14 Oil and 3 Gas and Condensate



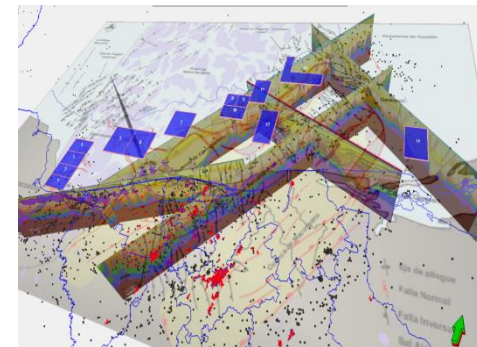
- Physical Data Room



- Virtual Data Room



Integrated Information



Completed

Package. 1: Shallow water (CNH-R01-L01/2014)

- Exploration
- 14 areas
- 34 wells
- 11 3D -Seismic studies
- 39 Packages Sold

Completed

Package. 2: Shallow water (CNH-R01-L02/2015)

- Extraction
- 5 areas
- 17 Wells
- 7 3D-Seismic studies
- 29 Packages Sold

Completed

Package. 3: Onshore (CNH-R01-L03/2015)

- Extraction
- 25 areas
- 1,222 Wells
- 17 3D-Seismic studies
- 64 Packages Sold

In progress

Package. 4: Farm Outs Pemex

- Extraction
- 7 areas
- 870 Wells
- 10 3D-Seismic studies

In progress

Package. 5: Deepwater & extra-heavy oil.

- exploration and extraction
- # Areas
- Tens of wells
- 3D-Seismic studies

Thanks!
