

Reconnaissance and surface exploration

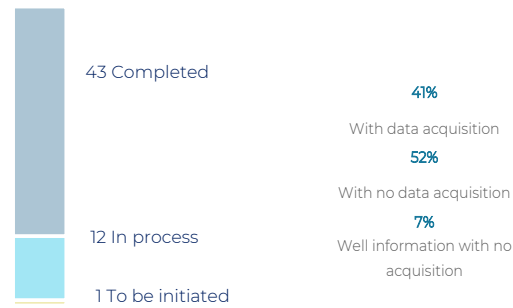
Projects approved in 2020

Company	Project	Technology
Stratascan	ARES-STR-MX-17-6T8/10162-19	Biostratigraphic
EMGS	ARES-MGS-MX-15-9I3/427-20	Electromagnetic
Pemex	ARES-PMX-MX-15-7N1/11406-19	2D and 3D seismic

Padrón ARES

97	Top 5. Companies with most projects		
Companies registered in ARES	Top	Company	Projects
	1	Dowell-Sib	11
	2	Seitel	8
	3	TGS	8
	4	CGG México	6
	5	PEMEX	4

56 current authorized projects



Approved Exploration Plans and Appraisal Programs  
Third quarter 2020

Operator	Contract / Entitlement	Plan / Program	Approval date	Investment MMUSD	Wells
Pemex Exploración y Producción	AE-0110	Modification to the Exploration Plan	6-Aug-20	2.55	0
	AE-0111	Exploration Plan	8-Sep-20	9.57	0
	AE-0112	Exploration Plan	8-Sep-20	9.57	0
	AE-0113	Exploration Plan	8-Sep-20	9.57	0
	AE-0114	Exploration Plan	8-Sep-20	9.57	0
	AE-0115	Exploration Plan	8-Sep-20	9.57	0
	AE-0116	Exploration Plan	8-Sep-20	9.57	0
	AE-0117	Exploration Plan	8-Sep-20	9.78	0
	AE-0118	Exploration Plan	3-Sep-20	29.25	1
	AE-0119	Exploration Plan	3-Sep-20	21.57	1
	AE-0120	Exploration Plan	23-Jul-20	13.44	1
	AE-0140	Exploration Plan	23-Jul-20	137.09	2
	AE-0151	Appraisal Program (Xolotl-1EXP)	28-Jul-20	21.03	1
	AE-0163	Exploration Plan	11-Aug-20	46.16	1
	AE-0164	Exploration Plan	11-Aug-20	55.41	1
	AE-0165	Exploration Plan	11-Aug-20	70.72	1
	AE-0166	Exploration Plan	11-Aug-20	79.37	1
	AE-0167	Exploration Plan	11-Aug-20	89.27	1
	AE-0168	Exploration Plan	11-Aug-20	120.89	1
	AE-0169	Exploration Plan	8-Sep-20	9.63	0
AE-0170	Exploration Plan	10-Sep-20	9.63	0	
AE-0171	Exploration Plan	16-Jul-20	20.54	1	
AE-0172	Exploration Plan	18-Aug-20	8.78	0	
AE-0173	Exploration Plan	18-Aug-20	8.78	0	
AE-0174	Exploration Plan	18-Aug-20	8.78	0	
DS Servicios Petroleros	CNH-M4-Ébano/2018	Modification to the Exploration Plan	10-Sep-20	9.13	1
Equinor Upstream México	CNH-R01-L04-A3.CS/2016	Modification to the Exploration Plan	6-Aug-20	106.93	1
Hokchi Energy	CNH-R03-L01-AS-CS-15/2018	Appraisal Program (Xaxamani-2EXP)	11-Aug-20	118.57	4
Jaguar Exploración y Producción 2.3	CNH-R02-L03-CS-01/2017	Modification to the Appraisal Program	6-Aug-20	20.38	4
Operadora Bloque 13	CNH-R02-L03-CS-05/2017	Modification to the Exploration Plan	30-Jul-20	25.18	3
Pantera Exploración y Producción 2.2	CNH-R02-L02-A9.BG/2017	Modification to the Exploration Plan	29-Sep-20	28.23	3
PC Carigali Mexico Operations	CNH-R02-L01-A6.CS/2017	Modification to the Exploration Plan	22-Jul-20	68.43	1
		<b>Total</b>		<b>1,196.97</b>	<b>30</b>

Note:  
Consider the minimal scenarios.

Check the approvals and authorizations at [gob.mx/cnh/articulos/registro-publico](http://gob.mx/cnh/articulos/registro-publico)

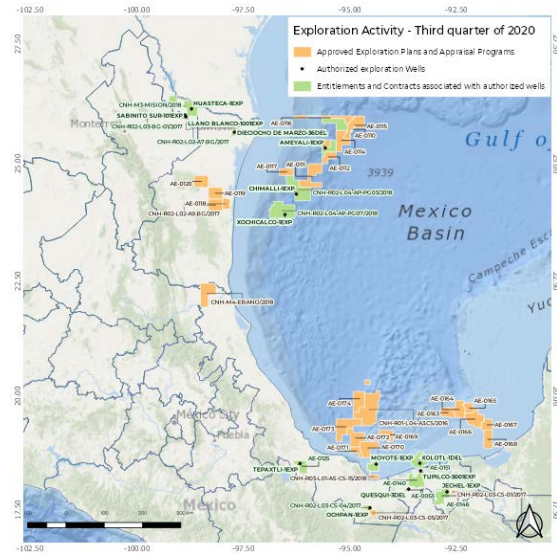
Visit the Hydrocarbon Map at [mapa.hidrocarburos.gob.mx](http://mapa.hidrocarburos.gob.mx)

## Authorized exploration wells Third quarter 2020

Operator	Contract / Entitlement	Well	Location	Authorization date
Pemex Exploración y Producción	AE-0146	Jechel-1EXP	Onshore	14-Jul-20
	AE-0140	Tupilco-3001EXP	Onshore	23-Jul-20
	AE-0125	Tepaxtli-1EXP	Onshore	23-Jul-20
	AE-0151	Xoloti-IDEL	Shallow water	4-Aug-20
Shell Exploración y Extracción de Mexico Iberoamericana de Hidrocarburos CQ, Exploración & Producción de México	CNH-R02-L04-AP-PG03/2018	Chimalli-1EXP	Ultra deep water	6-Aug-20
	CNH-R02-L04-AP-PG07/2018	Xochicalco-1EXP	Deep water	28-Aug-20
China Offshore Oil Corporation E&P Mexico	CNH-R02-L03-BG-01/2017	Sabinito Sur-101EXP	Onshore	18-Aug-20
	CNH-R02-L03-BG-01/2017	Llano Blanco-1001EXP	Onshore	25-Aug-20
Operadora Bloque 12	CNH-R01-L04-A1.CPP/2016	Ameyali-1EXP	Ultra deep water	22-Sep-20
Pantera Exploración y Producción 22	CNH-R02-L03-CS-04/2017	Ochpán-1EXP	Onshore	28-Aug-20
PC Carigali Mexico Operations	CNH-R02-L02-A7.BG/2017	Dieciocho de Marzo-36DEL	Onshore	13-Aug-20
Servicios Múltiples de Burgos	CNH-R02-L01-A6.CS/2017	Moyote-1EXP	Shallow water	17-Sep-20
	CNH-M3-MISIÓN/2018	Huasteca-1EXP	Onshore	13-Aug-20

**Notes:**  
Exploration wells include stratigraphic boreholes and appraisal wells.  
Does not consider modifications made to drilling permits

## Approvals and authorizations location

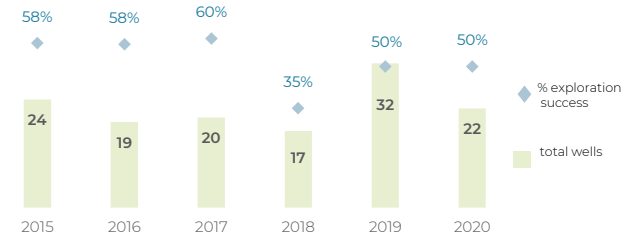


## Exploration wells completed in 2020

### Result of completed wells

	13 Entitlements	10 Contracts
Oil producer and discoverer	3	3
Oil and gas producer	0	0
Gas and condensate producer	1	0
Wet gas producer and discoverer	0	0
Dry gas producer and discoverer	0	2
Successful	0	0
Non-commercial producer	2	1
Information collector	0	0
Invaded with water	6	2
Dry	0	2
Mechanical accident	1	0

### Exploration success rates



**Notes:**  
Does not include appraisal wells.  
The 2020 information corresponds to cumulative data through June 2020.  
Exploratory success rate includes wells with the following results: oil producer and discoverer, oil and gas producer and discoverer, gas and condensate producer and discoverer, wet gas producer and discoverer, dry gas producer and discoverer, successful and non-commercial producer.

### Follow up of exploration wells completed in 2020

Operator	Contract / Entitlement	Well	Result	Drilling start and end
Pemex Exploración y Producción	AE-0155	Zazitun-1EXP	Invaded with water	Jan-20 to Feb-20
		Holboton-1EXP	Invaded with water	Jan-20 to Feb-20
	AE-0073	Pankiwi-1EXP	Oil discoverer	Jan-20 to Feb-20
	AE-0018	Baalkah-1EXP	Invaded with water	Jan-20 to Feb-20
	AE-0161	Ku-201EXP	Invaded with water	Jan-20 to Feb-20
	AE-0133	Andarani-1EXP	Invaded with water	Jan-20 to Feb-20
	AE-0059	Terra-101EXP	Oil discoverer	Jan-20 to Feb-20
	AE-0042	Rabasa-1001EXP	Mechanical accident	Jan-20 to Feb-20
	AE-0141	Pachil-1EXP	Invaded with water	Jan-20 to Feb-20
	AE-0382	Kela-1EXP	Non-commercial producer	Jan-20 to Feb-20
	AE-0150	Paki-1EXP	Oil discoverer	Jan-20 to Feb-20
	AE-0153	Chi-1EXP	Non-commercial producer	Jan-20 to Feb-20
AE-0053	Quesqui-IDEL	Gas and condensate producer	Jan-20 to Feb-20	
Repsol Exploración México	CNH-R02-L04-AP-CS-G10/2018	Polok-1EXP	Oil discoverer	Mar-20 to Apr-20
	CNH-R02-L04-AP-CM-G01/2018	Chinwol-1EXP	Oil discoverer	Mar-20 to Apr-20
Newpek Exploración y Extracción	CNH-R02-L03-BG-02/2017	Juum-1EXP	Invaded with water	Mar-20 to Apr-20
		Treviño-1001EXP	Dry gas discoverer	Mar-20 to Apr-20
Eni México	CNH-R02-L01-A10.CS/2017	Treviño-2001EXP	Dry gas discoverer	Mar-20 to Apr-20
		Saásken-1EXP	Oil discoverer	Mar-20 to Apr-20
Shell Exploración y Extracción de Mexico	CNH-R02-L01-A7.CS/2017	Ehecatt-1EXP	Dry	Mar-20 to Apr-20
	CNH-R02-L04-AP-CS-G01/2018	Chibu-1EXP	Non-commercial producer	Mar-20 to Apr-20
Capricorn Energy México	CNH-R02-L04-AP-CS-G02/2018	Max-1EXP	Dry	Mar-20 to Apr-20
	CNH-R02-L01-A9.CS/2017	Bitol-ISON	Invaded with water	Mar-20 to Apr-20

**Note:**  
In accordance with the deadlines established in the Well Drilling Guidelines (Lineamientos de Perforación de Pozos), there is a deadline for Oil Operators to report to the Commission the final drilling results and completion of exploratory wells; thus, information is subject to change

## Discoveries in 2020

Operator	Contract / Entitlement	Discovery	Location	Age	Preliminary volumes	
					Oil (MMb)	Gas (MMMpc)
Pemex Exploración y Producción	AE-0151	Tiamatini-1EXP	Shallow water	Lower Pliocene and Upper Miocene	34.2	215
		Chejekbal-1EXP	Shallow water	Upper Jurassic Tithonian and Kimmeridgian	102.5	186.0
	AE-0382	Xolotl-1EXP	Shallow water	Upper Miocene	7.1	21.8
		Kela-1EXP	Onshore	Middle Cretaceous	14.0	14.0
		Taxtunu-1EXP	Onshore	Upper and Middle Cretaceous and Upper Jurassic Kimmeridgian	40.0	50.0
		Itta-1EXP	Shallow water	Upper Miocene	28.8	18.4
		Vinik-1EXP	Onshore	Cretaceous	23.0	355.0
		Terra-101EXP	Onshore	Upper and Middle Cretaceous	40.0	116.0
		Valeriana-2DEL	Onshore	Cretaceous	38.0	400.0
		Paki-1EXP	Shallow water	Lower Pliocene	8.0	21.0
		Chi-1EXP	Shallow water	Middle Pliocene	2.1	3.2
Repsol Exploración México	CNH-R02-L04-AP-CS-G10/2018	Polok-1EXP	Deep water	Lower Miocene	187.0	23.9
		Chinwol-1EXP	Deep water	Lower Pliocene	87.6	32.0
Newpek Exploración y Extracción	CNH-R02-L03-BG-02/2017	Treviño-1001EXP	Onshore	Middle Oligocene	0.1	8.6
		Treviño-2001EXP	Onshore	Middle Oligocene	0.0	0.5
Eni México	CNH-R02-L01-A10-CS/2017	Saäsken-1EXP	Shallow water	Lower Pliocene	142.6	68.2
Shell Exploración y Extracción de México	CNH-R02-L04-AP-CS-G01/2018	Chibu-1EXP	Deep water	Oligocene and Eocene	59.6	0.0

**Note:**

For the Chejekbal-1EXP, Taxtunu-1EXP and Valeriana-2DEL wells, final drilling and completion reports are pending.