

Reconnaissance and surface exploration

Projects approved in 2021

Company	Project	Technology
EMGS	ARES-MGS-MX-15-9I3/498-21	Electromagnetic
Dowell-Slb	ARES-DSM-MX-15-3P2/1422-21	3D Seismic
Pemex	ARES-PMX-MX-15-7N1/1601-21	2D Seismic
Dowell-Slb	ARES-DSM-MX-15-3P2/1335-21	Petrology
GX Geoscience	ARES-GXG-MX-15-6T6/4008-21	3D Seismic

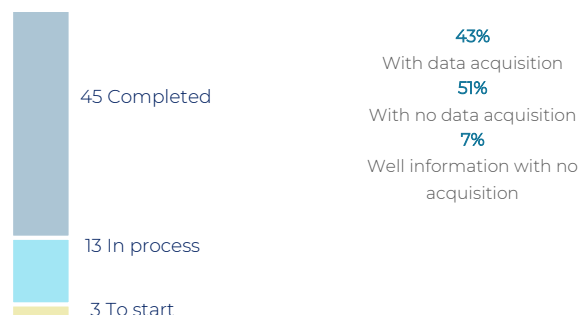
ARES register

Top 5. Companies with most projects

Top	Company	Projects
1	Dowell-Slb	13
2	Seitel	8
3	TGS	8
4	CGG México	6
5	Pemex	5

98
Companies registered in
ARES

61 current authorized projects



Approved Exploration Plans and Appraisal Programs Second quarter 2021

Operator	Contract / Entitlement	Plan / Program	Approval date	Investment MMUSD	Wells
Pemex Exploración y Producción	AE-0175	Exploration Plan	5-Apr-21	28.15	3
	AE-0144	Modification to the Exploration Plan	5-Apr-21	35.91	1
	AE-0177	Exploration Plan	15-Apr-21	33.03	3
	AE-0148	Modification to the Exploration Plan	15-Apr-21	21.32	1
	AE-0124	Modification to the Exploration Plan	11-May-21	169.52	4
	AE-0381	Modification to the Exploration Plan	11-May-21	14.09	1
	AE-0386	Modification to the Exploration Plan	11-May-21	14.09	1
	AE-0385	Modification to the Exploration Plan	21-May-21	12.56	1
Premier Oil	CNH-R03-L01-AS-B-57/2018	Modification to the Exploration Plan	22-Apr-21	4.22	0
	CNH-R03-L01-AS-B-60/2018	Modification to the Exploration Plan	29-Apr-21	4.23	0
Pantera Exploración y Producción 2.2	CNH-R02-L02-A10.CS/2017	Modification to the Exploration Plan	13-Apr-21	23.20	4
Eni México	CNH-R02-L01-A10.CS/2017	Appraisal Program (Sáasken)	15-Apr-21	8.64	0
Vista Oil & Gas Holding II	CNH-R02-L03-CS-01/2017	Modification to the Appraisal Program	25-May-21	10.23	4
Jaguar Exploración y Producción 2.3	CNH-R02-L03-VC-03/2017	Appraisal Program	15-Jun-21	0.54	0
			Total	560.70	28

Note:
Information corresponds to the minimal scenarios

Authorized exploration wells Second quarter 2021

Operator	Contract / Entitlement	Well	Location	Authorization date	
Pemex Exploración y Producción	AE-0151	Pokche-4DEL	Shallow waters	29-Apr-21	
		Natza-IEXP	Onshore	6-May-21	
	AE-0121	Tlakati-IEXP	Shallow waters	6-May-21	
		Kitxka-IEXP	Onshore	17-Jun-21	
		Cahuayu-IEXP	Onshore	17-Jun-21	
		Camatl-IDEL	Shallow waters	6-May-21	
		Ocuapán-30IEXP	Onshore	11-May-21	
		AE-0143	Chamak-IEXP	Shallow waters	27-May-21
		AE-0152	Chamak-IEXP	Shallow waters	27-May-21
		AE-0154	Tlalvikav-IEXP	Shallow waters	8-Jun-21
AE-0060	Valeriana-IDEL	Onshore	17-Jun-21		
AE-0144	Acatil-IEXP	Onshore	29-Jun-21		
Pantera Exploración y Producción 2.2	CNH-R02-L02-A10.CS/2017	Pasuku-IEXP	Onshore	3-Jun-21	
		Sakab-IEXP	Onshore	15-Jun-21	
		Taskuyu-IEXP	Onshore	6-May-21	
Repsol Exploración México	CNH-R02-L02-A9.BG/2017	Sasán-IEXP	Onshore	17-Jun-21	
		Polok-2DEL	Deep water	25-May-21	
Jaguar Exploración y Producción 2.3	CNH-R02-L04-AP-CS-G10/2018	Chak-IEXP	Deep water	27-May-21	
		Kakiwin-IEXP	Onshore	27-May-21	
Roma Energy México	CNH-R02-L03-VC-03/2017	Yaxkin-IEXP	Onshore	29-Jun-21	
		Paraíso-AIEXP	Onshore	27-May-21	
		Paraíso-BIEXP	Onshore	29-Jun-21	
Vista Oil & Gas Holding II	CNH-R02-L03-CS-01/2017	Vernet-1003DEL	Onshore	5-Apr-21	
		Sayulita-IEXP	Shallow waters	3-Jun-21	
Lukoil Upstream México	CNH-R02-L01-A12.CS/2017	Yoti Oeste-IEXP	Shallow waters	8-Jun-21	

Note:
Does not consider modifications made to drilling permits.

Approval and authorizations location



Check the approvals and authorizations at
gob.mx/cnh/articulos/registro-publico

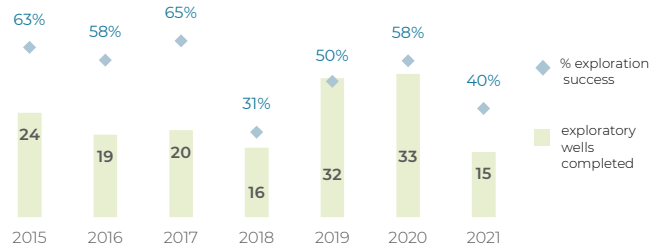
Exploration wells completed

Result of completed wells in 2021

	10 Entitlements	7 Contracts
Oil producer and discoverer	3	
Oil and gas producer		
Gas and condensate producer and discoverer	1	1
Wet gas producer and discoverer		
Dry gas producer and discoverer		
Successful		
Non-commercial producer	1	2
Information collector		
Invaded with water	3	
Dry		3
Mechanical accident	2	1

Note:
Exploration wells include stratigraphic boreholes and appraisal wells

Exploration success rates



Notes:
Does not include appraisal wells.
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 2021

Operator	Contract / Entitlement	Well	Result	Drilling start and end
Pemex Exploración y Producción	AE-0151	Xolotl-1DEL	Oil discoverer	Jan-21 to Feb-21
	AE-0152	Niquita-1EXP	Oil discoverer	Jan-21 to Feb-21
	AE-0032	Ixachi-1101EXP	Non-commercial producer	Jan-21 to Feb-21
	AE-0047	Yaxjut-1SON	Invaded with water	Jan-21 to Feb-21
	AE-0125	Kusum-1EXP	Mechanical accident	Jan-21 to Feb-21
	AE-0140	Chauk-1EXP	Invaded with water	Jan-21 to Feb-21
	AE-0148	Copali-1EXP	Oil discoverer	Jan-21 to Feb-21
	AE-0156	Uts-1EXP	Invaded with water	Jan-21 to Feb-21
	AE-0053	Quesqui-3DEL	Productor de gas y condensado	Jan-21 to Feb-21
	AE-0146	Jechel-1EXP	Mechanical accident	Jan-21 to Feb-21
China Offshore Oil Corporation E&P Mexico	CNH-R01-L04-A1.CPP/2016	Ameyali-1EXP	Non-commercial producer	Jan-21 to Feb-21
	CNH-R01-L04-A4.CPP/2016	Xakpün-1EXP	Non-commercial producer	Jan-21 to Feb-21
Shell Exploración y Extracción de México	CNH-R02-L04-AP-PG03/2018	Chimalli-1EXP	Dry	Jan-21 to Feb-21
	CNH-R02-L04-AP-PG06/2018	Xuyi-1EXP	Dry	Jan-21 to Feb-21
PC Carigali México	CNH-R02-L01-A6.CS/2017	Moyote-1EXP	Dry	Jan-21 to Feb-21
Operadora Bloque 12 Newpek	CNH-R02-L03-CS-04/2017	Jamalem-1EXP	Gas and condensate discoverer	Jan-21 to Feb-21
	CNH-R02-L03-BG-03/2017	Las Prietas-1EXP	Mechanical accident	Jan-21 to Feb-21

Notes:
Report with the information available as of July 23, 2021.
In accordance with 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.

Legend: Onshore (green), Shallow water (blue), Deep water (grey)

Discoveries in 2021

Operator	Contract / Entitlement	Discovery	Location	Age	Preliminary volume	
					Liquid hydrocarbons (MMb)	Gas (Bcf)
Pemex Exploración y Producción	AE-0150	Amatl-1EXP	Shallow water	Lower Pliocene	3.8	0.9
		Coatzin-1EXP	Shallow water	Upper Jurassic Kimmeridgian	40	73
	AE-0142	Racemosa-1EXP	Onshore	Upper and Middle Cretaceous	273.29	521.7
	AE-0152	Niquita-1EXP	Shallow water	Upper Miocene	51.2	37.02
	AE-0124	Kuun-1EXP	Onshore	Upper and Middle Cretaceous	214.2	168.3
	AE-0140	Tupilco-3001EXP	Onshore	Upper and Middle Cretaceous and Upper Jurassic Kimmeridgian	282.4	499.7
Pantera Exploración y Producción 2.2	CNH-R02-L02-A7.BG/2017	Dieciocho de Marzo-36DEL	Onshore	Lower Miocene		31.36
Jaguar Exploración y Producción 2.3	CNH-R02-L03-TM-01/2017	Spinini-1EXP	Onshore	Cretaceous	43.72	174.5