

Reconnaissance and surface exploration

ARES fourth quarter 2021

Company	Project	Technology
Dowell-Slb	ARES-DSM-MX-15-3P2/10699-21	Geological studies of wells

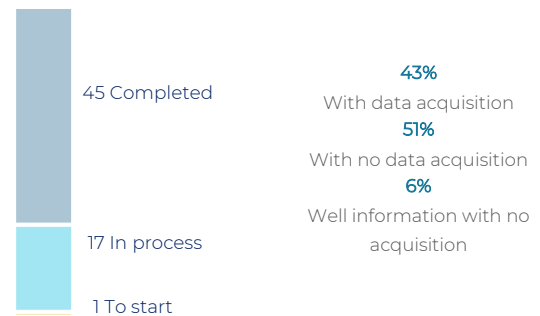
ARES register

101
Companies registered in
ARES

Top 5. Companies with most projects

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

63 current authorized projects



Approved Exploration Plans and Appraisal Programs Fourth quarter 2021

Operator	Contract / Entitlement	Plan / Program	Approval date	Investment MMUSD	Wells
Pemex Exploración y Producción	AE-0142	Appraisal Program (Racemosa-1EXP)	26-Oct-21	41.84	1
	AE-0146	Modification to the Exploration Plan	07-Dec-21	1.73	0
	AE-0382	Modification to the Exploration Plan	07-Dec-21	0.14	0
	AE-0180	Exploration Plan	16-Dec-21	9.09	1
Pantera Exploración y Producción 2.2	CNH-R02-L02-A4.BC/2017	Appraisal Program (Tenoch-1EXP)	25-Nov-21	3.03	0
PC Carigali Mexico Operations	CNH-R02-L04-AP-CS-G07/2018	Modification to the Exploration Plan	07-Dec-21	76.95	1
				132.78	3

Note:
The information corresponds to the most conservative scenarios

Authorized exploration wells Fourth quarter 2021

Operator	Contract / Entitlement	Well	Location	Authorization date
Pemex Exploración y Producción	AE-0143	Chucox-1EXP	Onshore	12-Oct-21
	AE-0151	Tlacame-101EXP	Shallow water	04-Nov-21
	AE-0124	Kuun-1DEL	Onshore	04-Nov-21
	AE-0135	Actul-1EXP	Onshore	11-Nov-21
	A-0382	Taxtunu-1DEL	Onshore	09-Dec-21
	AE-0142	Xinich-1EXP	Onshore	14-Dec-21
Iberoamericana de Hidrocarburos CQ	CNH-R02-L03-BG-01/2017	Llano Blanco-1001EXP	Onshore	11-Nov-21
		Sabinito Sur-101EXP	Onshore	23-Nov-21
Pantera Exploración y Producción 2.2	CNH-R02-L02-A9.BG/2017	Kuyu-1EXP	Onshore	28-Oct-21
	CNH-R02-L02-A4.BG/2017	Pípila-106DEL	Onshore	09-Dec-21

Note:
The modifications to drilling authorizations are not considered.

Authorizations and approvals during 2021

8	ARES projects	66	Exploratory wells	44	Planes y Programas
4	With data acquisition	46	Onshore	30	Exploration Plans
2	With no data acquisition	17	Shallow water	14	Appraisal Programs
2	Well information with no acquisition	3	Deepwater		

CNH EXPLORATION ACTIVITY

Comisión Nacional de Hidrocarburos

December 2021

Exploration wells completed

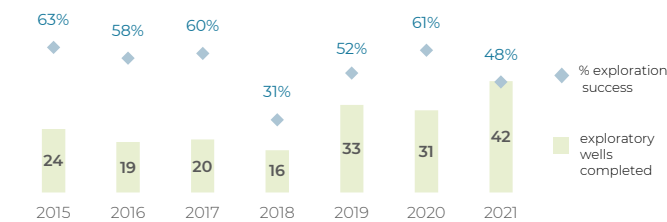
Result of completed wells in 2021

	Entitlements	Contracts
Oil producer	3	1
Oil discoverer	10	2
Gas and condensate producer	2	1
Gas and condensate discoverer	2	3
Non-commercial producer	3	2
Dry gas producer	0	1
Invaded with water	6	2
Dry	2	8
Mechanical accident	4	1
	32	21

42
Exploratory

11
Appraisal

Exploration success rates



Notes:
Does not include appraisal wells.
Exploratory success rate includes wells with the following results: producer, 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
		Tlakati-1EXP	Oil discoverer	Apr-21 to Jun-21
		Pokche-2DEL	Non-commercial producer	Jan-21 to Apr-21
		Pokche-3DEL	Oil producer	Jan-21 to Apr-21
		Pokche-1DEL	Oil producer	Jan-21 to Apr-21
		Siyán-1AEXP	Non-commercial producer	Jan-21 to Apr-21
		Tekuani-1EXP	Oil discoverer	Jan-21 to Apr-21
	AE-0125	Tlacame-101EXP	Invaded with water	Jan-21 to Apr-21
		Kusum-1EXP	Mechanical accident	Jan-21 to Apr-21
		Boxju-1EXP	Invaded with water	Jan-21 to Apr-21
	AE-0152	Tepaxtli-1EXP	Mechanical accident	Jan-21 to Apr-21
		Niquita-1EXP	Oil discoverer	Jan-21 to Apr-21
	AE-0032	Chamak-1EXP	Oil discoverer	Jan-21 to Apr-21
		Saap-1EXP	Oil discoverer	Jan-21 to Apr-21
		Ixachi-101EXP	Non-commercial producer	Jan-21 to Apr-21
	AE-0053	Ixachi-2001EXP	Gas and condensate discoverer	Jan-21 to Apr-21
		Quesqui-3DEL	Gas and condensate producer	Jan-21 to Apr-21
	AE-0122	Quesqui-2DEL	Gas and condensate producer	Jan-21 to Apr-21
		Tacam-1EXP	Invaded with water	Jan-21 to Apr-21
	AE-0148	Nipxi-1EXP	Non-commercial producer	Jan-21 to Apr-21
		Copali-1EXP	Oil discoverer	Jan-21 to Apr-21
	AE-0124	Camatl-1DEL	Oil producer	Jan-21 to Apr-21
		Kuun-1EXP	Oil discoverer	Jan-21 to Apr-21
	AE-0047	Miztli-1EXP	Mechanical accident	Jan-21 to Apr-21
		Yaxjut-1SON	Invaded with water	Jan-21 to Apr-21
	AE-0056	Cibix-1001EXP	Oil discoverer	Jan-21 to Apr-21
	AE-0140	Chauk-1EXP	Invaded with water	Jan-21 to Apr-21
AE-0156	Uts-1EXP	Invaded with water	Jan-21 to Apr-21	
AE-0146	Jecheh-1EXP	Mechanical accident	Jan-21 to Apr-21	
A-0385	Chawila-1EXP	Gas and condensate discoverer	Jan-21 to Apr-21	
AE-0138	Churingo-1EXP	Dry	Jan-21 to Apr-21	
AE-0142	Racemosa-1EXP	Oil discoverer	Jan-21 to Apr-21	
Pantera Exploración y Producción 2.2	CNH-R02-L02-A8.BG/2017	Rimo-1EXP	Invaded with water	Jan-21 to Apr-21
		Taskuyu-1EXP	Dry	Jan-21 to Apr-21
		Granaditas-106DEL	Gas and condensate producer	Jan-21 to Apr-21
Shell Exploración y Extracción de México	CNH-R02-L04-AP-PG03/2018	Chimalli-1EXP	Dry	Jan-21 to Apr-21
		Xuyi-1EXP	Dry	Jan-21 to Apr-21
		Xochicalco-1EXP	Non-commercial producer	Jan-21 to Apr-21
Operadora Bloque 12	CNH-R02-L03-CS-04/2017	Jamalem-1EXP	Gas and condensate discoverer	Jan-21 to Apr-21
		Ochpán-1EXP	Gas and condensate discoverer	Jan-21 to Apr-21
China Offshore Oil Corporation E&P Mexico	CNH-R01-L04-A1.CPP/2016	Ameyali-1EXP	Non-commercial producer	Jan-21 to Apr-21
		Xakpún-1EXP	Dry	Jan-21 to Apr-21
Repsol Exploración México	CNH-R02-L04-AP-CS-G10/2018	Chak-1EXP	Dry	Jan-21 to Apr-21
		Polok-2DEL	Oil producer	Jan-21 to Apr-21
PC Carigali Mexico Operations	CNH-R02-L01-A6.CS/2017	Moyote-1EXP	Dry	Jan-21 to Apr-21
		Bacalar-1EXP	Dry	Jan-21 to Apr-21
Jaguar Exploración y Producción 2.3	CNH-R02-L03-VC-02/2017	Pikit-1EXP	Gas and condensate discoverer	Jan-21 to Apr-21
		Kakiwin-1EXP	Invaded with water	Jan-21 to Apr-21
Eni México	CNH-R02-L01-A10.CS/2017	Sayulita-1EXP	Oil discoverer	Jan-21 to Apr-21
		Sáasken-2DEL	Dry	Jan-21 to Apr-21
Lukoil Upstream México Newpek	CNH-R02-L01-A12.CS/2017	Yoti Oeste-1EXP	Oil discoverer	Jan-21 to Apr-21
		Las Prietas-1EXP	Mechanical accident	Jan-21 to Apr-21
Vista Oil & Gas Holding II	CNH-R02-L03-CS-01/2017	Vernet-1001DEL	Dry gas producer	Jan-21 to Apr-21

Notes:

With the information available as of February 18, 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.

Jan-21 Apr-21 Jun-21 Sep-21 Dec-21

Onshore Shallow waters Deep water

Visit the Hydrocarbon Information System sih.hidrocarburos.gob.mx

Discoveries in 2021

Operator	Contract / Entitlement	Discovery	Location	Age	Preliminary volume	
					Liquid hydrocarbons (MMb)	Gas (Bcf)
Pemex Exploración y Producción	AE-0385	Chawila-1EXP	Onshore	Middle Cretaceous	31.18	35.97
	AE-0124	Kuun-1EXP	Onshore	Upper and Middle Cretaceous	214.20	168.30
		Tum-1EXP	Onshore	Upper and Middle Cretaceous	132.00	1,022.00
		Tupilco-3001EXP	Onshore	Upper and Middle Cretaceous, Upper	282.40	499.70
	AE-0142	Racemosa-1EXP	Onshore	Upper and Middle Cretaceous	273.29	521.70
	AE-0148	Copali-1EXP	Shallow water	Lower Pliocene	6.86	13.86
	AE-0150	Amatl-1EXP	Shallow water	Lower Pliocene	3.81	0.94
		Coatzin-1EXP	Shallow water	Upper Kimmeridgian Jurassic	40.00	73.00
	AE-0151	Tlakati-1EXP	Shallow water	Upper Miocene	21.45	8.57
		Niquita-1EXP	Shallow water	Upper Miocene	51.20	37.02
AE-0152	Saap-1EXP	Shallow water	Pleistocene	7.22	3.60	
	Chamak-1EXP	Shallow water	Upper Miocene	22.49	5.50	
Pantera Exploración y Producción 2.2	CNH-R02-L02-A4.BG/2017	Tenoch-1EXP	Onshore	Oligocene	0.12	9.20
	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	174.50
China Offshore Oil Corporation E&P Mexico	CNH-R01-L04-A4.CPP/2016	Ameyali-1EXP	Ultra Deep water	Lower Eocene	83.30	164.50
Newpek Exploración y Extracción	CNH-R02-L03-BG-03/2017	Las Prietas-1EXP	Onshore	Oligocene	0.01	1.43
Operadora Bloque 12	CNH-R02-L03-CS-04/2017	Jamalem-1EXP	Onshore	Lower Miocene	15.01	138.00
Shell Exploración y Extracción de México	CNH-R02-L04-AP-PG07/2018	Xochicalco-1EXP*	Ultra Deep water	Lower Eocene		
					1,228.27	2,909.15

Note:
The Xochicalco-1EXP well reported a preliminary volume of 100 MMboe.

Approvals and authorizations location Fourth quarter 2021

