

### Reconnaissance and surface exploration

#### ARES third quarter 2022

Company	Project	Technology
Pemex	ARES-PMX-MX-15-7N1/8729-22	2D Seismic
Pemex	ARES-PMX-MX-15-7N1/8730-22	2D Seismic
Pemex	ARES-PMX-MX-15-7N1/8775-22	3D Seismic
Pemex	ARES-PMX-MX-15-7N1/8776-22	3D Seismic

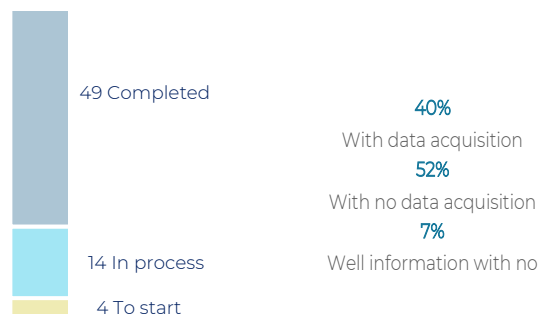
#### ARES register

**102**  
Companies registered in  
ARES

#### Top 5. Companies with most projects

Top	Company	Projects
1	Dowell-Slb	12
2	Pemex	10
3	TGS	8
4	Seitel	8
5	CGG México	7

#### 67 current authorized projects



### Approved Exploration Plans and Appraisal Programs Third quarter 2022

Operator	Block	Plan / Program	Approval date	Investment MMUSD	Wells
Pemex Exploración y Producción	A-0382	Evaluation Program (Kela-1EXP)	5-Jul-22	12.38	1
	AE-0124	Modification to the Exploration Plan	9-Aug-22	21.52	1
	AE-0125	Modification to the Exploration Plan	23-Aug-22	19.74	1
	AE-0133	Modification to the Exploration Plan	28-Jul-22	34.33	1
	AE-0140	Modification to the Exploration Plan	18-Aug-22	31.85	1
	AE-0166	Modification to the Exploration Plan	9-Aug-22	43.96	1
	AE-0177	Modification to the Exploration Plan	23-Aug-22	0.06	0
Wintershall Dea México	CNH-R03-L01-G-TMV-02/2018	Modification to the Exploration Plan	12-Jul-22	1.14	0
	CNH-R03-L01-G-TMV-03/2018	Modification to the Exploration Plan	12-Jul-22	1.15	0
Newpek Exploración y Extracción	CNH-R02-L03-BG-03/2017	Evaluation Program (Níquel y Palito Blanco)	5-Jul-22	2.77	0
Pantera Exploración y Producción 2.2	CNH-R02-L02-A10.CS/2017	Evaluation Program (Pasuku-1EXP)	11-Aug-22	0.78	5
				<b>169.68</b>	<b>11</b>

**Note:**  
The information corresponds to the most conservative scenarios

### Authorized exploration wells Third quarter 2022

Operator	Block	Well	Location	Authorization date
Pemex Exploración y Producción	A-0382	Kela-1DEL	Onshore	4-Aug-22
	AE-0122	Chulux-1EXP	Onshore	19-Jul-22
	AE-0141	Platao-1EXP	Onshore	26-Jul-22
	AE-0142	Xamitl-1EXP	Onshore	19-Jul-22
	AE-0177	Yuban-1EXP	Onshore	19-Jul-22
Iberoamericana de Hidrocarburos CQ, Exploración & Producción de México	CNH-R03-L01-AS-CS-13/2018	Xale-1EXP	Shallow water	19-Jul-22
	CNH-R02-L03-BG-01/2017	Llano Blanco-1001EXP	Onshore	18-Aug-22
	CNH-R02-L03-BG-04/2017	Sabinito Sur-101EXP	Onshore	18-Aug-22
China Offshore Oil Corporation E&P México	CNH-R02-L03-BG-04/2017	Aquiles-201EXP	Onshore	18-Aug-22
	CNH-R01-L04-A1.CPP/2016	Ameyali Sur-1EXP	Deep water	2-Aug-22
Pantera Exploración y Producción 2.2	CNH-R02-L02-A7.BG/2017	Euro-106DEL	Onshore	26-Jul-22
Shell Exploración y Extracción de Mexico	CNH-R02-L04-AP-CS-G04/2018	Aluk-1EXP	Deep water	18-Aug-22
Wintershall Dea México	CNH-R03-L01-AS-CS-14/2018	Kan-1EXP	Deep water	19-Jul-22

**Note:**  
The modifications to drilling authorizations are not considered.

## Authorizations and approvals during 2022

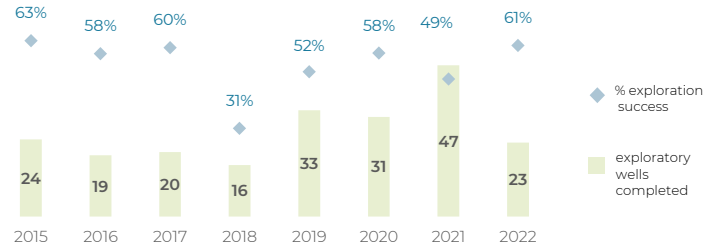
<b>6</b> ARES projects	<b>47</b> Exploratory wells	<b>55</b> Planes y Programas
<b>1</b> With data acquisition	<b>29</b> Onshore	<b>50</b> Exploration Plans
<b>5</b> With no data acquisition	<b>15</b> Shallow water	<b>16</b> Appraisal Programs
	<b>3</b> Deepwater	

## Exploration wells completed

### Result of completed wells in 2022

	Entitlements	Contracts	
Oil producer	3	0	<b>23</b> Exploratory
Oil discoverer	5	1	
Humid gas discoverer	0	1	
Dry gas discoverer	0	1	
Gas and condensate producer	1	0	<b>6</b> Appraisal
Non-commercial producer	5	0	
Water invaded	9	2	
Mechanical accident	1	0	
	<b>24</b>	<b>5</b>	

### 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 2022

Operator	Block	Well	Result	Drilling start and end	
Pemex Exploración y Producción	AE-0124	Kuun-1DEL	Invaded by Water	Jan-22	
		Sikte-1EXP	Mechanical accident	Jan-22	
	AE-0152	Niquita-1DEL	Oil Producer	Jan-22	
		Tlense-1EXP	Non-Commercial Producer	Jan-22	
	AE-0151	Pokche-201EXP	Invaded by Water	Jan-22	
		Pokche-101EXP	Oil Discoverer	Jan-22	
	AE-0070	Semillal-1EXP	Oil Discoverer	Jan-22	
	AE-0160	Wakax-1EXP	Invaded by Water	Jan-22	
	AE-0140	Tupilco-3001EXP	Oil Discoverer	Jan-22	
	AE-0154	Tlalkivak-1EXP	Oil Discoverer	Jan-22	
	AE-0142	Dzimpona-1EXP	Invaded by Water	Jan-22	
	Pantera Exploración y Producción 2.2	AE-0122	Maxtu-1EXP	Non-Commercial Producer	Jan-22
			Cibix-201EXP	Non-Commercial Producer	Jan-22
		AE-0149	Iyel-1EXP	Invaded by Water	Jan-22
		AE-0060	Valeriana-2DEL	Gas And Condensate Producer	Jan-22
		AE-0121	Cahuayu-1EXP	Non-Commercial Producer	Jan-22
		A-0382	Taxtunu-1DEL	Oil Producer	Jan-22
		AE-0135	Actul-1EXP	Oil Producer	Jan-22
		AE-0153	Iktan-1EXP	Non-Commercial Producer	Jan-22
		AE-0138	Charal-1EXP	Invaded by Water	Jan-22
AE-0175		Chuyan-1EXP	Invaded by Water	Jan-22	
A-0385	Chawila-1DEL	Invaded by Water	Jan-22		
Operadora Bloque 13	CNH-R02-L02-A10.CS/2017	Pasuku-1EXP	Wet Gas Discoverer	Jan-22	
		Sochiapán-1EXP	Invaded by Water	Jan-22	
	DS Servicios Petroleros	CNH-M4-ÉBANO/2018	Ébano-3000EXP	Oil Discoverer	Jan-22
Servicios Múltiples de Burgos	CNH-M3-MISIÓN/2018	Huasteca-1EXP	Dry gas discoverer	Jan-22	
		Xaxamani-4DEL	Invaded by Water	Jan-22	
Hokchi Energy	CNH-R03-L01-AS-CS-15/2018			Jan-22	

**Notes:**  
With the information available as of November 30, 2022.  
In accordance with the Well Drilling Guidelines (Lineamientos de Perforación de Pozos), there is a deadline for Oil Operatorsto report to the Commission the final drilling results and completion of exploratory wells; thus, information is subject to change.

Onshore Shallow water

Discoveries in 2022

Operator	Contract / Entitlement	Discovery	Location	Age	Preliminary volume	
					Liquid hydrocarbons (MMb)	Gas (Bcf)
Pemex Exploración y Producción	AE-0151	Tekuani-1EXP	Shallow water	Middle Pliocene	14.47	7.37
		Pokche-101EXP	Shallow water	Cretaceous	9.40	23.90
		Xanab-201EXP	Aguas someras	Cretaceous	12.70	8.20
	AE-0121	Cahuayu-1EXP	Terrestre	Middle Cretaceous (Upper Tamaulipas), Lower Cretaceous (Tamaulipas Inferior)	56.00	85.00
	AE-0122	Maxtu-1EXP	Terrestre	Middle Cretaceous (Upper Tamaulipas)	9.40	23.90
	AE-0135	Actul-1EXP	Onshore	Lower Pliocene	28.78	13.50
	AE-0141	Cibix-201EXP	Onshore	Lower Pliocene	40.38	1.78
	AE-0142	Xinich-1EXP	Terrestre	Lower Pliocene, Upper Miocene	48.83	26.95
	AE-0143	Chucox-1EXP	Terrestre	Lower Pliocene, Upper Miocene	38.50	25.55
	AE-0144	Acatil-1EXP	Terrestre	Middle Cretaceous	6.70	25.00
	AE-0149	Atoyatl-1EXP	Aguas someras	Middle and Lower Pliocene	27.58	22.77
	AE-0150	Macuil-1EXP*	Shallow water	Lower Pliocene and Middle Pliocene	49.12	19.93
	AE-0152	Tlense-1EXP	Aguas someras	Lower Pliocene	2.83	1.27
	AE-0154	Tlalkivak-1EXP	Shallow water	Cretaceous, Upper Kimmeridgian Jurassic	28.88	154.22
	AE-0166	Akal-501EXP	Aguas someras	Upper Kimmeridgian Jurassic	19.00	10.00
	Servicios Múltiples de Burgos	CNH-M3-MISIÓN/2018	Forcado-101EXP	Terrestre	Eocene (Queen City and Yegua)	0.00
Huasteca-1EXP			Terrestre	Eocene (Queen City and Yegua)	0.00	0.68
Operadora Bloque 12	CNH-R02-L03-CS-04/2017	Ochpán-1EXP	Onshore	Middle Miocene	0.00	8.94
DS Servicios Petroleros	CNH-M4-ÉBANO/2018	Tecani-1EXP	Terrestre	Lower Miocene	0.00	45.00
		Ébano-3000EXP	Onshore	Cretaceous (Upper Tamaulipas)	1.60	0.09
Eni México	CNH-R02-L01-A10.CS/2017	Sayulita-1EXP	Shallow water	Upper Miocene	21.98	5.51
Lukoil Upstream México	CNH-R02-L01-A12.CS/2017	Yoti Oeste-1EXP	Shallow water	Upper Miocene	19.80	11.13
Pantera Exploración y Producción 2.2	CNH-R02-L02-A10.CS/2017	Pasuku-1EXP	Onshore	Miocene (Lower Amate)	0.01	11.90
					<b>435.96</b>	<b>535.69</b>

\*Includes three discovery notifications.

Approvals and authorizations location  
Third quarter 2022