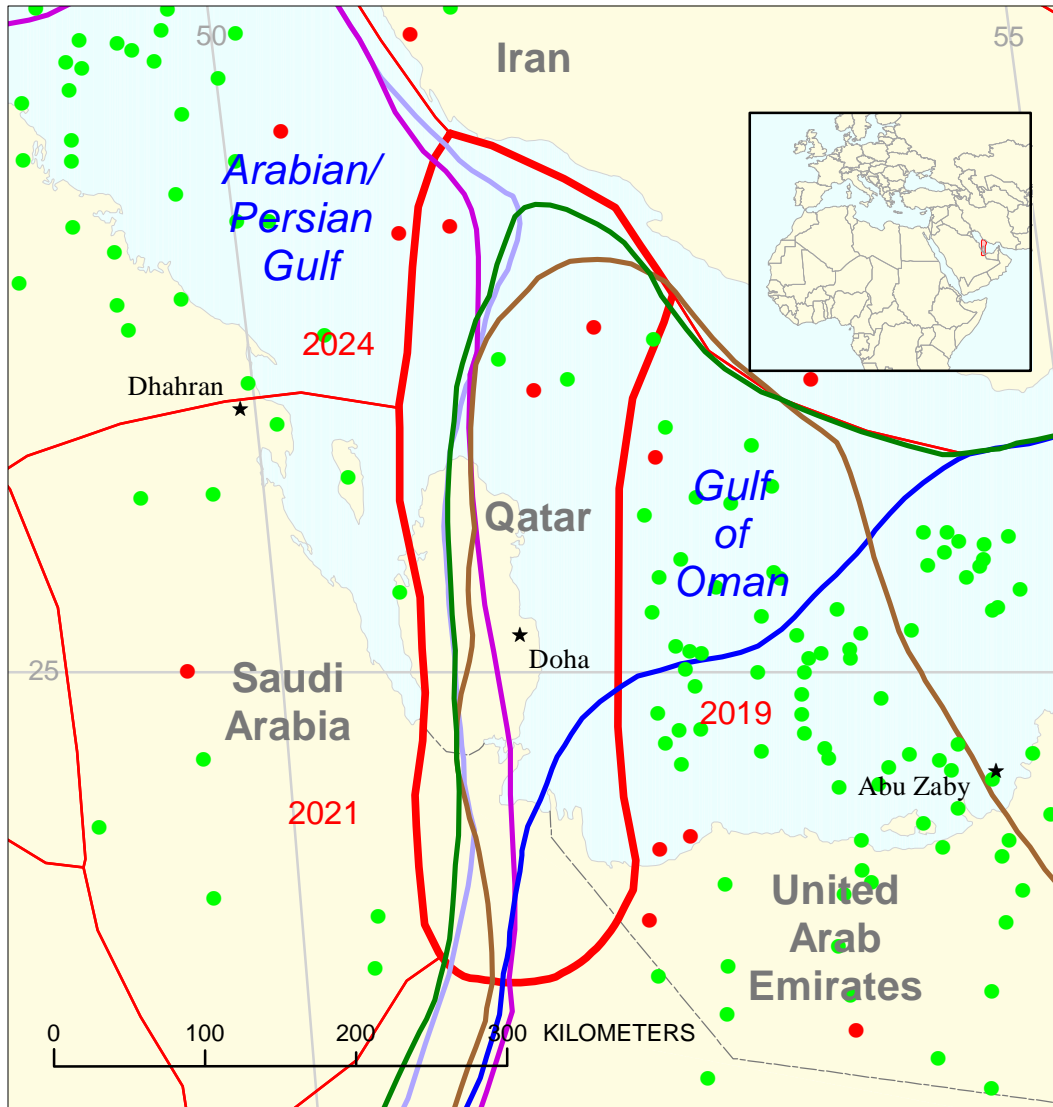


# Qatar Arch Geologic Province 2022



- Cretaceous Thamama/Wasia Total Petroleum System 201901
- Jurassic Hanifa/Diyab-Arab Total Petroleum System 201902
- Silurian Qusaiba Total Petroleum System 201903
- Central Arabia Qusaiba-Paleozoic Total Petroleum System 202101
- Arabian Sub-Basin Tuwaiq/Hanifa-Arab Total Petroleum System 202102
- Qatar Arch Geologic Province 2022
- Other geologic province boundary

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**Qatar Arch, Province 2022**  
**Assessment Results Summary - Allocated Resources**

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

Code and Field Type	MFS	Prob. (0-1)	Undiscovered Resources											
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean

**2022 Total: Assessed onshore portions of Qatar Arch Province**

Oil Fields		1.00	971	2,598	4,869	2,720	1,118	3,322	7,028	3,607	51	163	385	183
Gas Fields							1,689	5,220	10,423	5,543	124	387	823	419
Total		1.00	971	2,598	4,869	2,720	2,807	8,542	17,451	9,149	174	550	1,208	602

**2022 Total: Assessed offshore portions of Qatar Arch Province**

Oil Fields		1.00	808	2,195	4,169	2,306	1,099	3,151	6,417	3,383	49	152	344	169
Gas Fields							1,393	4,506	9,444	4,853	57	193	441	213
Total		1.00	808	2,195	4,169	2,306	2,492	7,657	15,861	8,235	106	345	785	382

**2022 Grand Total: Assessed portions of Qatar Arch Province**

Oil Fields		1.00	1,779	4,792	9,038	5,026	2,217	6,474	13,445	6,989	100	315	729	352
Gas Fields							3,082	9,726	19,868	10,396	180	580	1,264	632
Total		1.00	1,779	4,792	9,038	5,026	5,299	16,199	33,312	17,385	280	895	1,993	984

**Qatar Arch, Province 2022**  
**Assessment Results Summary - Allocated Resources**

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Code and Field Type	MFS	Prob. (0-1)	Undiscovered Resources											
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean

**201901 Cretaceous Thamama/Wasia Total Petroleum System**

20190101 Cretaceous Reservoirs in Northwest Desert Anticlines Assessment Unit (1% of undiscovered oil fields and 0% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	10	1.00	13	42	97	47	8	25	60	28	0	1	3	1
Gas Fields	60						0	0	0	0	0	0	0	0
Total			13	42	97	47	8	25	60	28	0	1	3	1

20190102 Cretaceous Reservoirs in South Gulf Suprasalt Structural Assessment Unit (3.2% of undiscovered oil fields and 0% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	10	1.00	39	111	234	120	29	86	198	97	2	5	13	6
Gas Fields	60						0	0	0	0	0	0	0	0
Total			39	111	234	120	29	86	198	97	2	5	13	6

20190102 Cretaceous Reservoirs in South Gulf Suprasalt Structural Assessment Unit (4.8% of undiscovered oil fields and 0% of undiscovered gas fields allocated to OFFSHORE province 2022)

Oil Fields	10	1.00	58	167	351	181	43	130	297	145	2	8	19	9
Gas Fields	60						0	0	0	0	0	0	0	0
Total			58	167	351	181	43	130	297	145	2	8	19	9

**Qatar Arch, Province 2022**  
**Assessment Results Summary - Allocated Resources**

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

Code and Field Type	MFS	Prob. (0-1)	Undiscovered Resources											
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean

**201902 Jurassic Hanifa/Diyab-Arab Total Petroleum System**

20190202 Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural Assessment Unit (17.15% of undiscovered oil fields and 17.15% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	10	1.00	195	618	1,250	659	397	1,322	2,931	1,451	22	77	185	87
Gas Fields	60						170	610	1,452	685	7	26	67	30
Total		1.00	195	618	1,250	659	567	1,932	4,382	2,136	29	103	253	117

20190202 Jurassic Reservoirs in South Gulf Suprasalt/Qatar Arch Structural Assessment Unit (17.85% of undiscovered oil fields and 17.85% of undiscovered gas fields allocated to OFFSHORE province 2022)

Oil Fields	10	1.00	203	643	1,301	686	414	1,376	3,050	1,511	23	81	193	91
Gas Fields	60						177	634	1,511	713	7	27	70	31
Total		1.00	203	643	1,301	686	590	2,011	4,561	2,224	31	108	263	122

**201903 Silurian Qusaiba Total Petroleum System**

20190301 Khuff Carbonates in Salt Structures Assessment Unit (0% of undiscovered oil fields and 18% of undiscovered gas fields allocated to OFFSHORE province 2022)

Oil Fields	10	1.00	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fields	60						1,216	3,871	7,933	4,140	49	166	371	182
Total		1.00	0	0	0	0	1,216	3,871	7,933	4,140	49	166	371	182

20190302 Paleozoic Reservoirs Assessment Unit (1% of undiscovered oil fields and 1% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	10	1.00	21	111	315	132	60	322	983	397	3	19	61	24
Gas Fields	60						725	2,620	5,641	2,842	54	204	483	228
Total		1.00	21	111	315	132	784	2,943	6,624	3,239	58	223	544	251

**Qatar Arch, Province 2022**  
**Assessment Results Summary - Allocated Resources**

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Code and Field Type	MFS	Prob. (0-1)	Undiscovered Resources											
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean

**202101 Central Arabia Qusaiba Paleozoic Total Petroleum System**

20210101 Central Arch Horst-Block Anticlinal Oil and Gas Assessment Unit (0% of undiscovered oil fields and 1% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	20	1.00	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fields	120						795	1,990	3,330	2,016	62	157	273	161
Total		1.00	0	0	0	0	795	1,990	3,330	2,016	62	157	273	161

**202102 Arabian Sub-Basin Tuwaiq/Hanifa-Arab Total Petroleum System**

20210201 Horst-Block Anticlinal Oil Assessment Unit (3% of undiscovered oil fields and 0% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	20	1.00	339	792	1,295	801	197	469	811	482	7	18	35	19
Gas Fields	120						0	0	0	0	0	0	0	0
Total		1.00	339	792	1,295	801	197	469	811	482	7	18	35	19

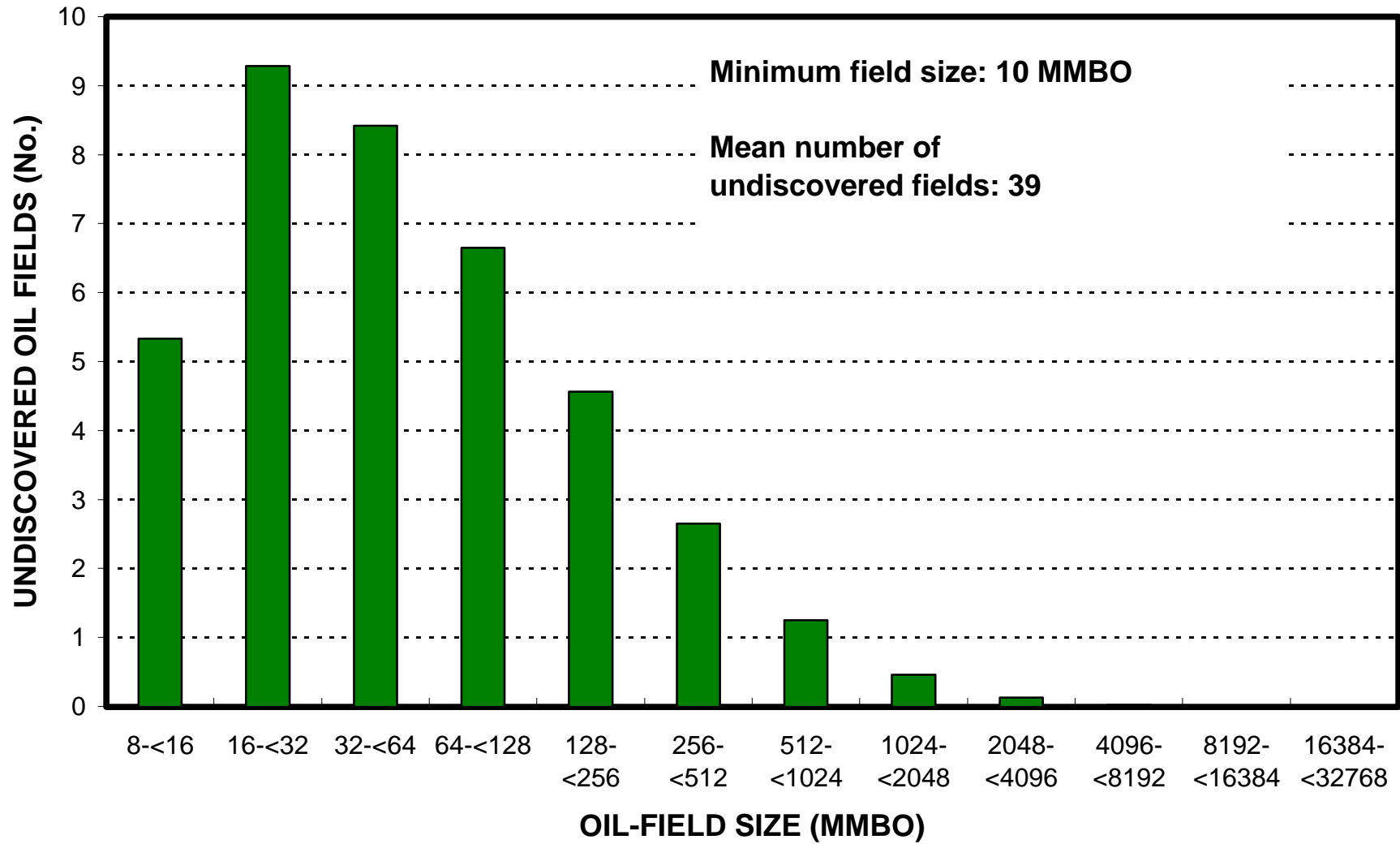
20210202 Salt-Involved Structural Oil Assessment Unit (6.4% of undiscovered oil fields and 0% of undiscovered gas fields allocated to ONSHORE province 2022)

Oil Fields	20	1.00	365	923	1,678	959	428	1,097	2,046	1,151	16	43	88	46
Gas Fields	120						0	0	0	0	0	0	0	0
Total		1.00	365	923	1,678	959	428	1,097	2,046	1,151	16	43	88	46

20210202 Salt-Involved Structural Oil Assessment Unit (9.6% of undiscovered oil fields and 0% of undiscovered gas fields allocated to OFFSHORE province 2022)

Oil Fields	20	1.00	547	1,384	2,517	1,439	642	1,646	3,069	1,727	24	64	132	69
Gas Fields	120						0	0	0	0	0	0	0	0
Total		1.00	547	1,384	2,517	1,439	642	1,646	3,069	1,727	24	64	132	69

# Qatar Arch, Province 2022 Undiscovered Field-Size Distribution



# Qatar Arch, Province 2022 Undiscovered Field-Size Distribution

