

Tunisia Hydrocarbon Prospectivity

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Entreprise Tunisienne d'Activités Pétrolières المؤسسة التونسية للأنشطة البترولية

www.etap.com.tn

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- 1- General introduction
- 2- Geologic overview
- 3- Open blocks, Prospects and Leads examples
- 4- What we have yet to explore
- 5- How to explore in Tunisia?





Tunisia hydrocarbon resources

Tunisia is located between Algeria to the West and Libya to the East, a proven Petroleum Province with conventional total proven reserves of approximately 60 BBLO of oil and more than 215 TCFG. The oil and gas sector is managed by ETAP (The national oil company) under the authority of the DGH (Ministry of industry and small and medium sized companies)

ETAP mission :

Entreprise Tunisienne d'Activités Pétrolières المترولية

- The promotion of the hydrocarbon exploration.
- The management of the national heritage in the hydrocarbon sector.
- Conducting development studies of oil and gas discoveries.
- Management of interests in concessions and research licenses.
- The realization of technical and economic studies of projects.
- Providing petroleum services (studies, analysis...)
- The training of Tunisian executives in the different branches of the oil industry.

















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Exploration and production wells in Tunisia



Gulf of Hammamet

Wells: 103 Producing reservoirs: Miocene & Cretaceous OIIP: 440 MMBLS Cumulative Production up to 12/31/2017: 53 MMBLS

Gulf of Gabes

Wells: 256 Producing Reservoirs: Eocene, Cretaceous & Jurassic OIIP: 2245 MMBLS Cumulative Production up to 12/31/2017: 475 MMBLS

Ghadames Basin Wells: 367 Producing Reservoirs: Triassic, Devonian, Silurian & Ordovician OIIP: 2700 MMBLS Cumulative Production up to 31/12/2017: 890 MMBLS

Tunisia Oil & Gas Infrastructure Map

- ✓ 1 Refinery on-stream
- ✓ 9 Oil Storages
- \checkmark 3 gas compression stations
- ✓ 4 gas processing plants
- ✓ 1 LPG plant
- ✓ 3 LPG storages
- ✓ 8 Oil Tanker Terminals
- ✓ 3 Oil pipelines
- ✓ 10 Gas pipelines

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Tunisia structural domains and play systems

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Jebil Open Block - Jemna Prospect (El Atchane reservoir)

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570000

	Reservoir	Lithology	Porosity (%)	Seal	Source rock
	Ordovician ElAtchane	Hard and compact massive sandstone with shale and siltstones layers	8-14	Shale of the Upper Silurian lower Devonian, Eruptive rocks/ or the TAGD Fm (Carnian)	The Upper Silurian Feguaguira source rock and aditional ordovician Azel source rock
Dep top	th may of Je El Ateriane r	emna prospect at eservoir			420000 450000 W S F

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48,0000

Jemna Prospect (P10)Expected Top Reservoir (m)3335Vertical closure115Areal Closure (sq Km)9,4GIIP (BCF)125,33

Ksar Tlili Open Block- Oued Bahloul Prospect (Serdj reservoir)

Reservoir	Porosity (%)	Seal	Source rock	
Middle Aptian Serdj formation	6-10	Lower Fahden Fm	Lower Fahdene Formation	

Oued Bahloul Prospect- Serdj reservoir (P10)				
Expected Top Reservoir (m)	450			
Vertical closure	260			
Areal Closure (sq Km)	12			
GIIP (BCF) (PA ressources)	52			

Sidi Amor Open Block- Pilau Lead (Bou Dabbous reservoir)

Italian field analogs In the thrust belt zone

Panda: 710 BCF Pliocene Sandstone

- Galliano: 400 BCF Oligo-Miocene Sandstone
- Val d'Agri: 1.02 BBOE, Mesozoic Carbonates
- Luna: 1.3 TCF, Miocene Sandstone

Reservoir	Lithology	Porosity (%)	Seal	Source rock
Ypresian Boudabous Fm	Fractured Limestone	8-40	Upper Eocene Souar Fm	Ypresian Boudabous Fm Cenomanian Bahloul Fm

Depth map at top

Bou Dabbous reservoir

Pilau Lead – Bou Dabbous reservoir	P10
Area (sq km)	61,64
Expected Top Reservoir (m)	3700
Vertical closure	400
STGIIP 10 ⁹ scf	3593,31

Mrezga Open Block- Alpha Prospect (Birsa reservoir)

Ksar Ezzaouia Open Block- Salt related structures

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Block Acquisition Process

There are two ways to grant a license, either by directly submitting an offer to the DGH or through a data room before the submission of the offer.

- The DGH and ETAP evaluate the financial and technical offers. The offer will be forwarded to the CCH (Consultative Committee of Hydrocarbons) that has 4 meetings per year to evaluate the offers (31 of January, 30 of April, 31 of July & 31 of October).
- In case of approval of the agreement by the CCH, the parliament ratify the contract Bidder-State.
- The contract and associated documents should be published in the Journal officiel as a decree.

Data room access

ETAP provides data room for visiting companies. The access to data is free of charge, and visitors benefit from ETAP's expertise.

- First, the company sends a request to the CEO of ETAP with the selected blocks, an information sheet fill formed and the 03 latest annual and financial reports;
- After the technical and financial evaluation, ETAP contacts the company to schedule the visit and the duration of the DR
- Work stations with all data of the requested blocks will be available(seismic, wells, reports, regional studies...) in ETAP
- At the end of the mission, the company can ask for a package of data (limited)

Tunisia Licensing Chart

Thank You for your attention

Welcome to ETAP booth N° 204

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