

Technical Report

Block 12 N. El Dikheila offshore



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About The Block

Location: N. El Dikheila offshore block is a part of recent relinquished of NEMED concession previously operated by Shell. It is bounded from the north by Egypt's economic water border and located at a distance approximately 180 km to the north of the Mediterranean shore line.

Total Area : 7150 Km²

Water Depth: 2600 - 3000 m

Seismic Surveys

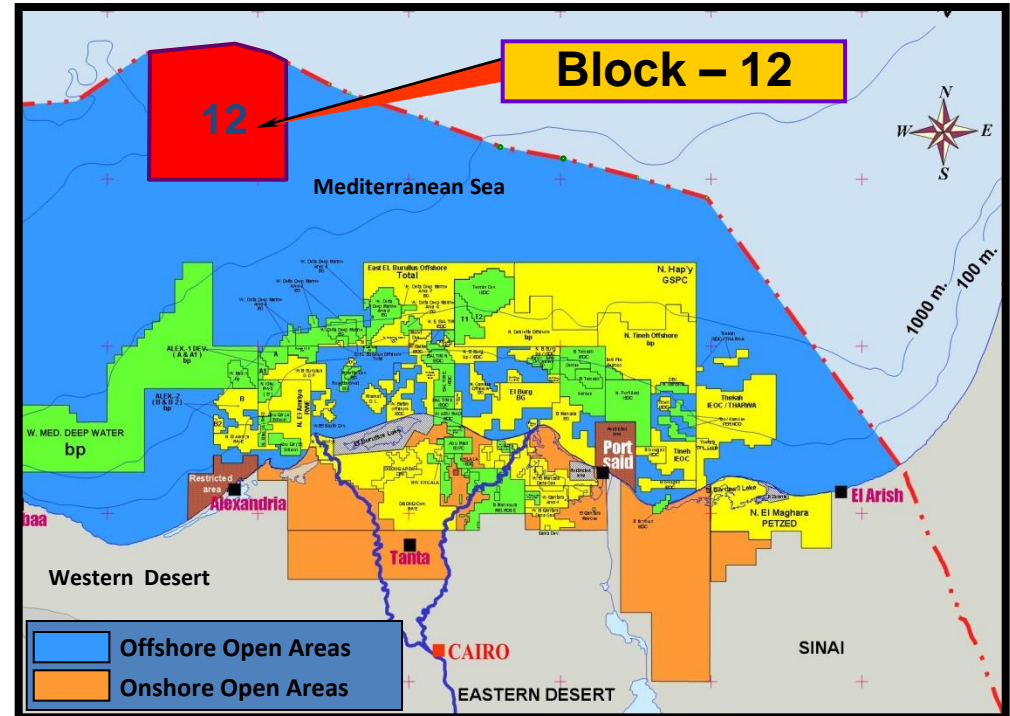
: 2D Seismic lines (approx. 4949 Km)

Wells: La 52-1 ,-2 ST1 and Ld 51-1 ST1.

Data review and Purchase form EGAS

Previous Concessionaire : Shell

Nearby Fields & Discoveries: La 52, Ld 51 and Kg 45 gas discoveries

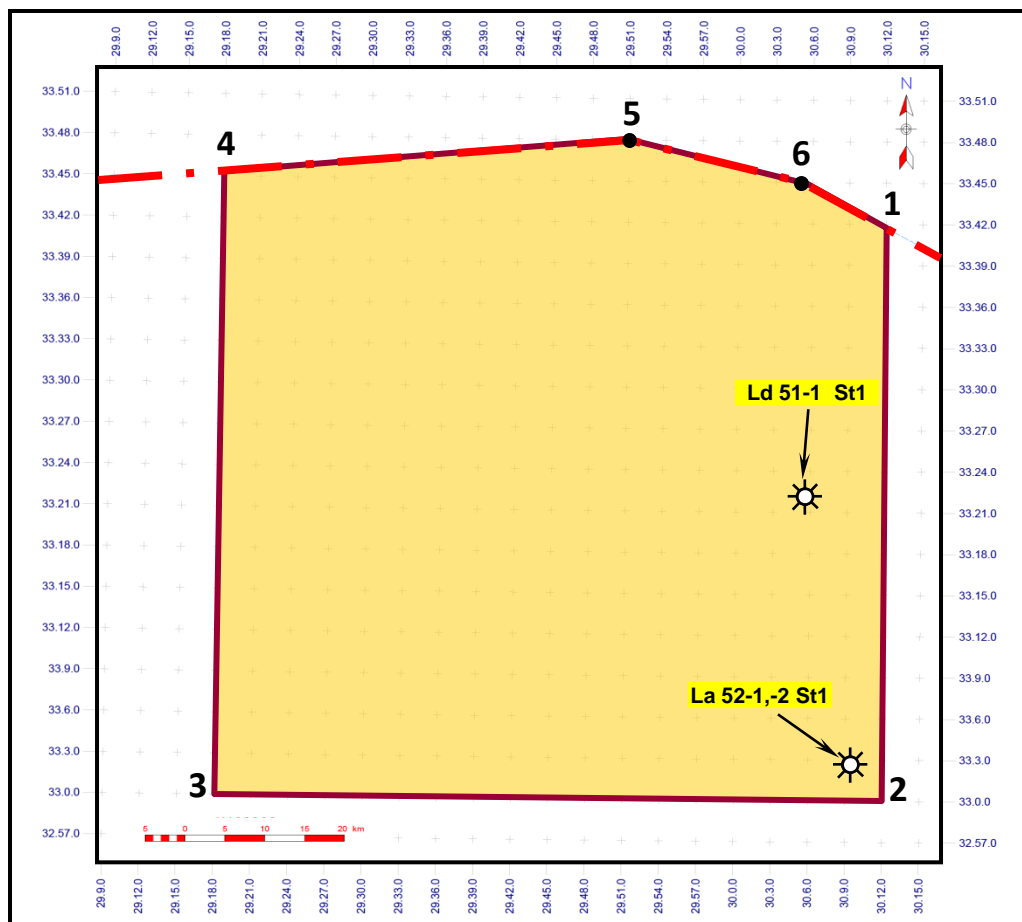


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No.	Latitude (North)			Longitude (East)		
1	33°	41'	44.9"	30°	12'	00"
2	33°	00'	00"	30°	12'	00"
3	33°	00'	00"	29°	18'	00"
4	33°	45'	18.9"	29°	18'	00"
5	33°	48'	00"	29°	51'	00"
6	33°	45'	00"	30°	05'	00"



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Wells:

COMPANY	WELL	SPUD	COMPL	FTD	FM. @ TD	Lat. N.	Long. E.	Status
Shell	Ld 51-1 ST1	17/2/2007	28/7/2007	4690 M	Abu Qir (Miocene)	33° 19' 35.12" N	30° 05' 28.25" E	Gas Discovery
Shell	La 52-2ST1	23/1/2007	8/6/2007	4123 M	Abu Qir (Miocene)	33° 03' 39.18" N	30° 08' 14.23" E	Gas Discovery
Shell	La52-1	24/12/2003	9/2/2004	4565M	Abu Qir (Miocene)	33° 03' 59.16" N	30° 07' 13.58" E	Gas Discovery

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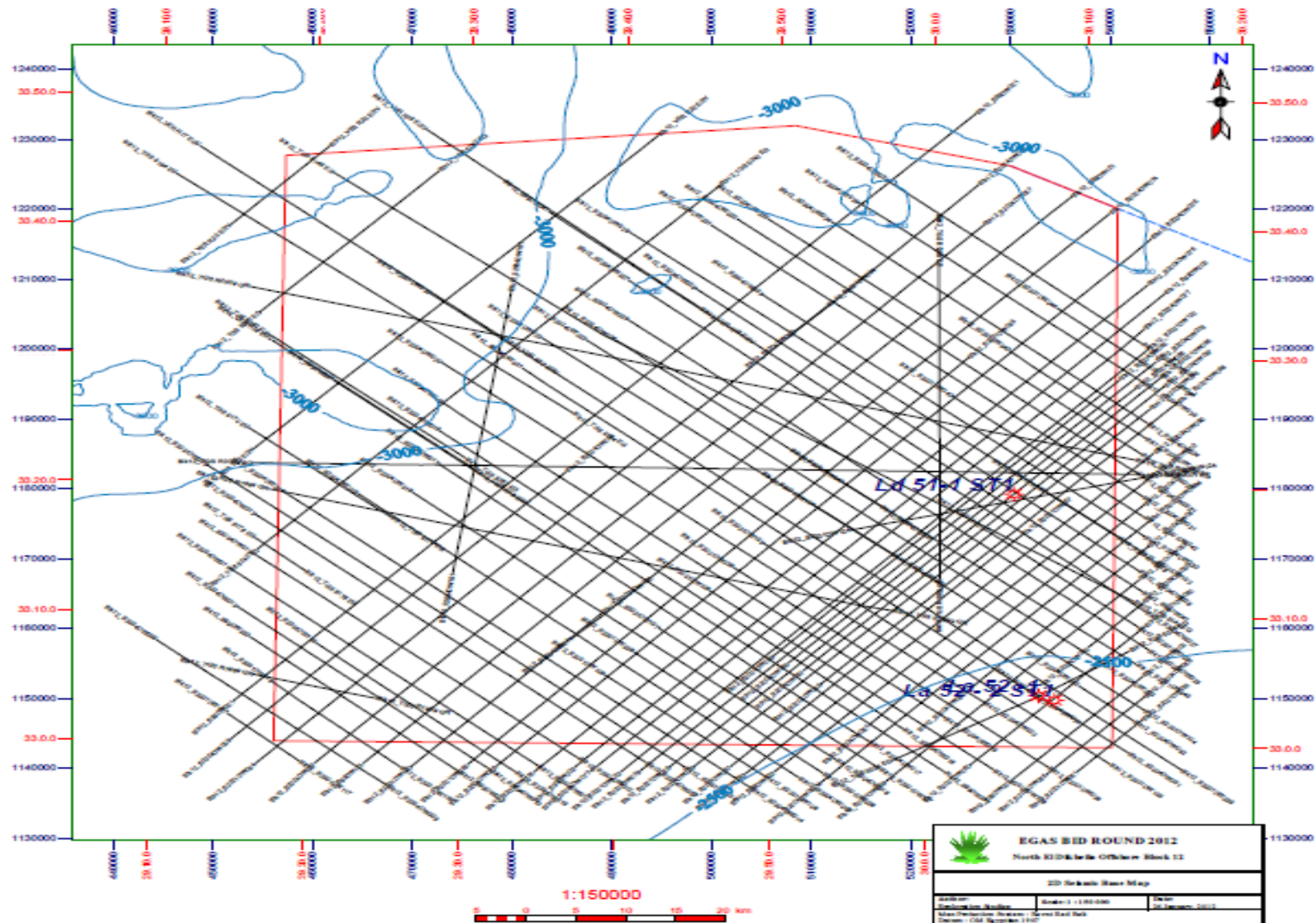
SEISMIC DATA

A) "2D" SEISMIC DATA (Segy Standard Format)

Survey Name	Digital 2D Data (Km)	No. of Seismic lines
S99DW	568	8
S2001DW	1117	29
S2004DW	2508	48
TGS	583	13
VER	173	5
TOTAL	4949	103

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PRICE LIST							
Block No.	Block Name	Area (Km²)	Principal Data Package			3D Surveys	
			2D Total Line Km	Drilled Wells	Price US\$	3D Survey Km²	Price US\$
12	N. El Dikheila offshore	7150	4949	3	239855	-	-

- Data Package for each block in digital format will be available at EGAS premises at prices as shown in the above table.
- Technical reports for all wells are available for purchase at: (\$1100 for hard copy and \$1200 for digital format per well)
- Final geological reports for all wells are available for purchase at: (\$1500 for hard copy and \$1700 for digital format per well)
- Data review will be available at EGAS premises using Geographix Software (Seisvision, Prizm & Geoatlas) at cost:

10% of total price of the principal data package (2D and well logs) with a minimum of \$2000/block

10% of total price of request 3D seismic survey

- In case of data purchase after review, review fees will be deducted from the total purchase price

PROSPECTIVITY

Pliocene Play Concept:

This play was successfully explored in the offset block located to the south of this block, where gas bearing sand in slope channel complex was discovered in Kg 45-1 well.

Source :

Basal Pliocene shale provides excellent source rock for the biogenic gas.

Reservoir:

The reservoir rocks are represented by turbidite channel sand with high porosity and permeability.

Trapping:

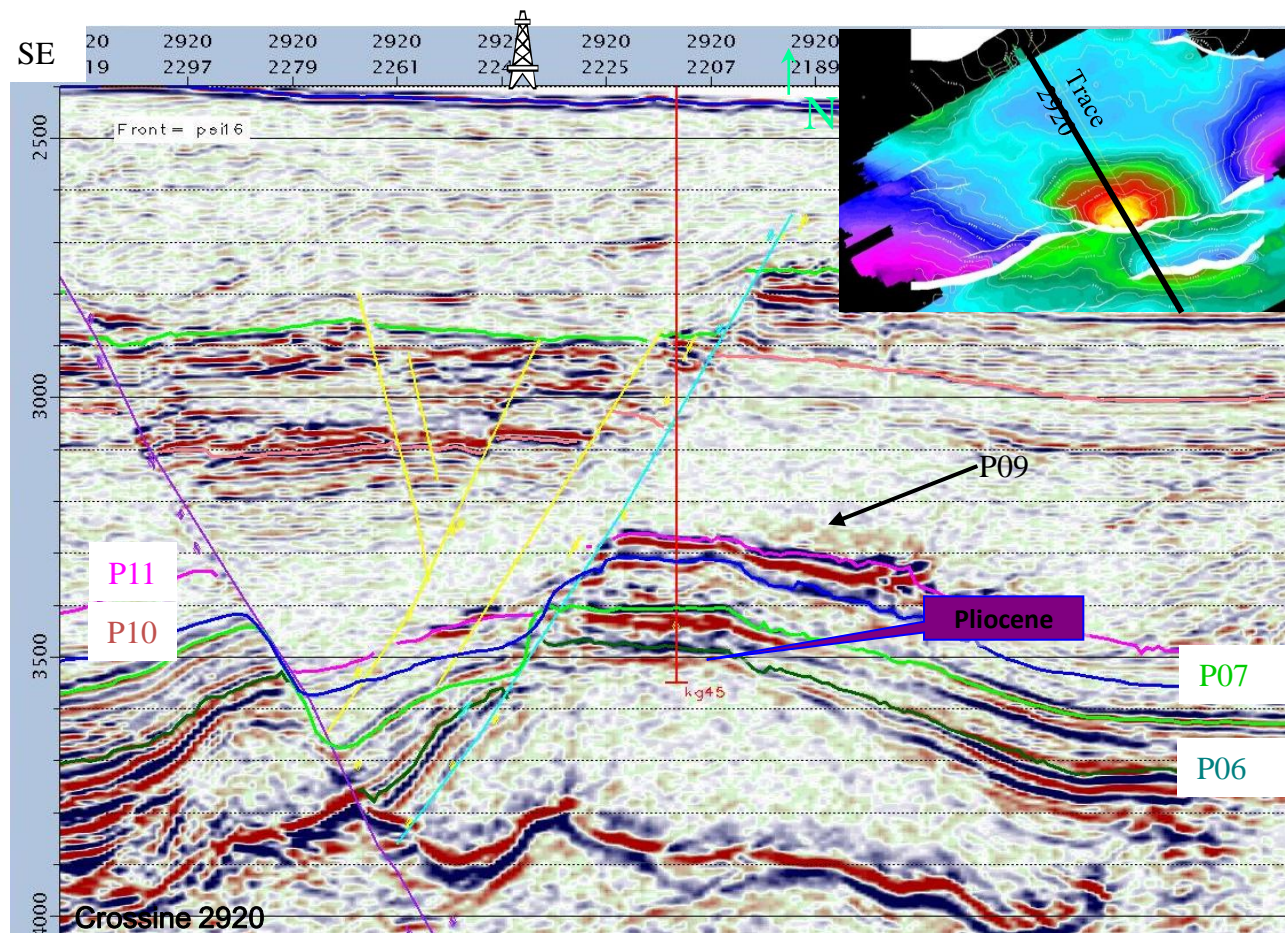
Structure / Stratigraphic traps provide the main trapping style.

Sealing:

The thick interbedded shales act as good sealing capacity for this play.

Charging:

Charging carried out through the interbedded and intraformational Shales which act as good source rocks for the biogenic gas.



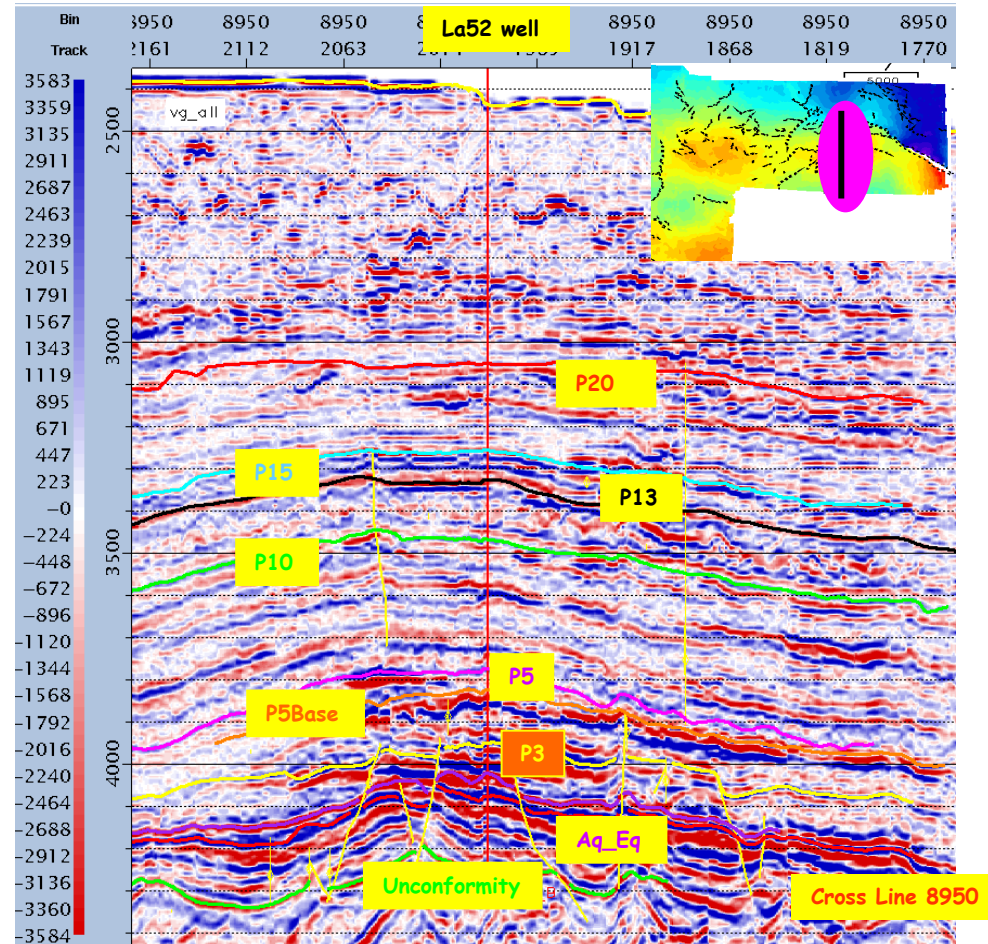
PROSPECTIVITY

Messinian Play Concept:

This play is represented by Messinian sand (Abu Madi channel) which deposited in deltaic / shallow marine environment just after the end of the Messinian salt crisis. This play was successfully drilled and explored as gas bearing sand in La52-1,2 and Ld51-1 wells drilled in this block.

The well La52-1 encountered Abu Madi reservoir channel at depth 3948 m trapped in four way dip closure. The petrophysical parameters of this reservoir indicates that the net pay thickness is 23m with average porosity 26% and average water saturation 42%. The estimated GIIP of this well is 1042 BCF and the recoverable reserve is 562 BCF.

The well Ld51-1 encountered Abu Madi reservoir channel at depth 4320 m trapped in four way dip closure. The petrophysical parameters of this reservoir indicates that the net pay thickness is 26 m with average porosity 26% and average water saturation 32%. The estimated GIIP of this well is 255 BCF and the recoverable reserve is 138 BCF which referred that this block is very promising for new Miocene discoveries and added reserves.



PROSPECTIVITY

Source :

The terrestrial and marine deposits developed during Oligocene-Miocene time are considered the main source rocks.

Reservoir:

The reservoir sand was deposited in channel / Levee system which significantly encountered below and in between the Rosetta anhydrites as hydrocarbon bearing sand as in La52-1,2 and Ld 51-1 wells drilled in this block.

Trapping:

The traps are mainly structural traps with partial stratigraphic.

Sealing:

Rosetta anhydrite act as an efficient seal.

Charging:

Charging carried out from deep-seated normal faults possibly from Oligocene and Lower Miocene deposits.

