

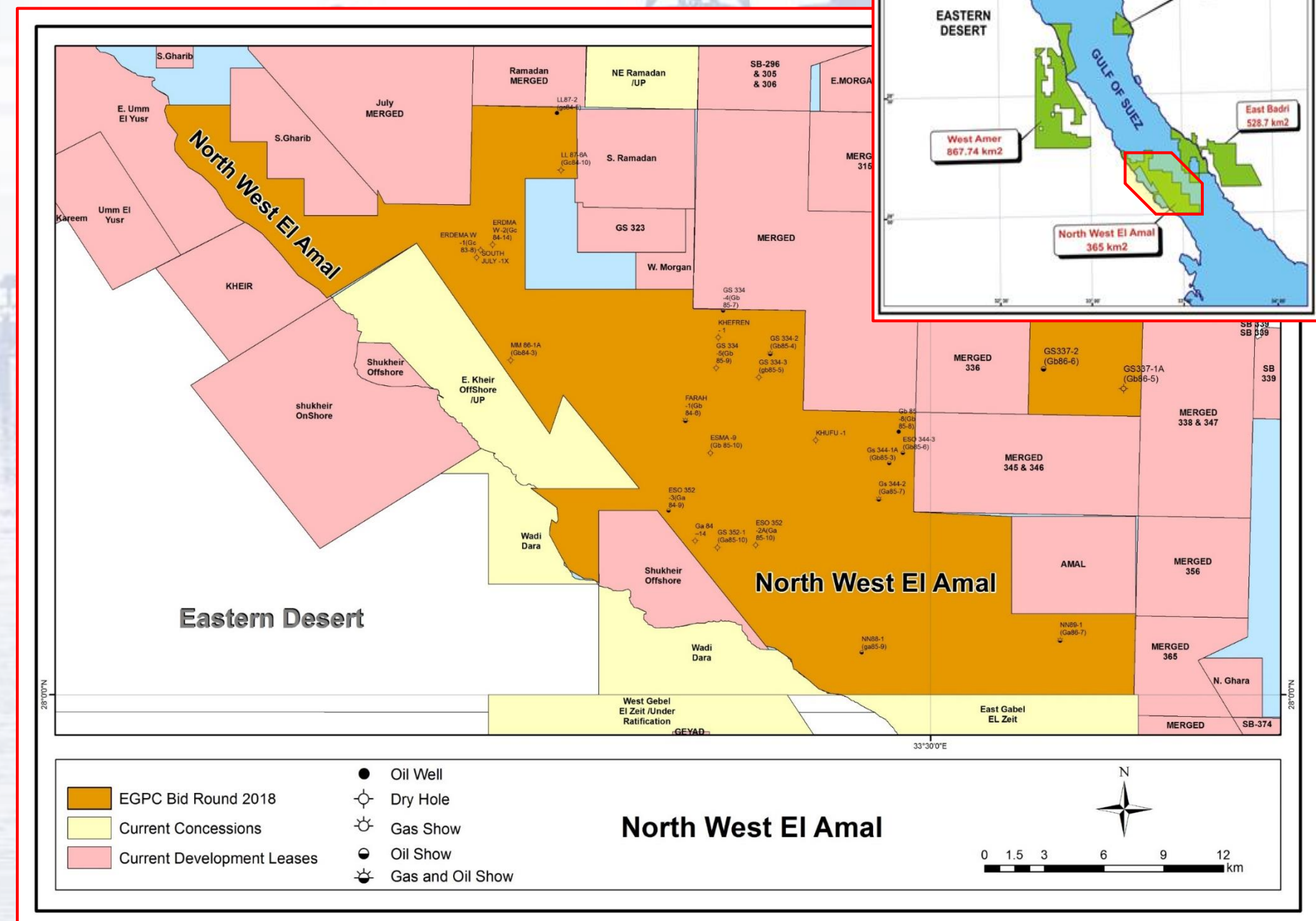
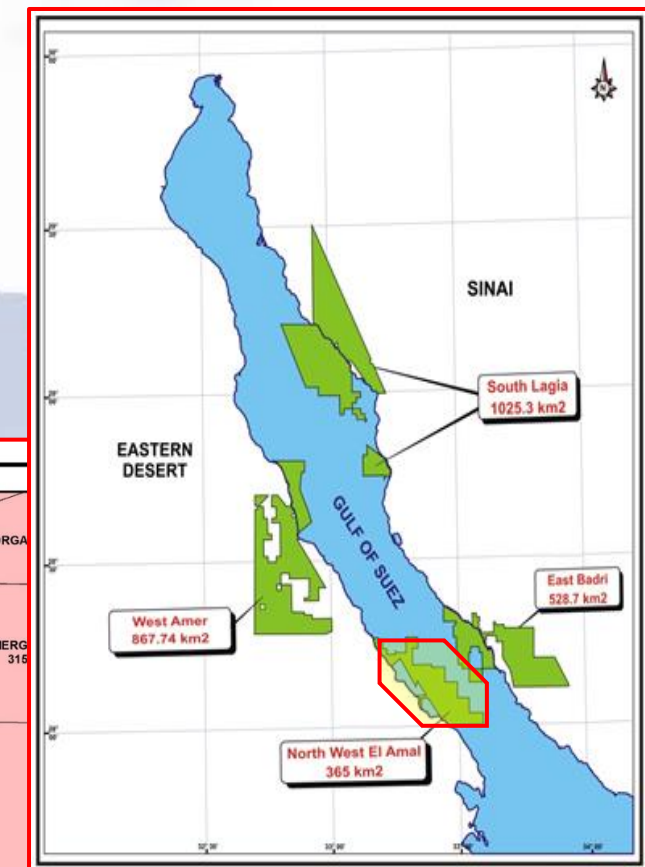
# 4. North West El Amal 2018 BID ROUND BLOCKS

## Block Summary

### Location :

The block is situated in the Southern province on the Western side of the offshore GOS basin, Southwest of the giant El Morgan oil field.

It's surrounded by offshore GUPCO production infrastructure and the large Ras Shukheir onshore GUPCO oil treatment base and facilities.



**Total Area:** 365 km<sup>2</sup>

**Previous Concessionaire:** Santos, Devon, Gupco, IEOC, UNOCAL, ELF AQ., ARCO, QUINTANA, Suco & Deminex

**2D Seismic Survey:** 5196 Km

**3D Seismic Survey:** 799 Km<sup>2</sup>

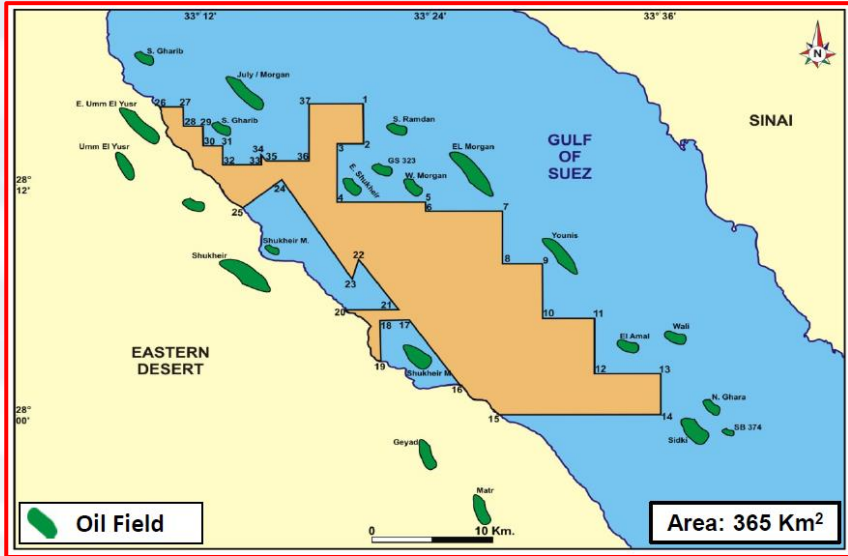
**Drilled Wells:** 24 Wells

**Range of wells TD:** from 6320 ft. to 13830 ft.



# 4. North West El Amal 2018 BID ROUND BLOCKS

## Block Coordinates



Geographic Coordinate System used: Egypt 1907  
 Angular Unit: Degree  
 Radians per unit: 0.0174532925199433  
 Prime Meridian: Greenwich, Longitude (00° 001 00.0011)  
 Datum: Egypt 1907  
 Spheroid: Helmert 1906  
 Semi major Axis: 6378200.0  
 Semi minor Axis: 6356818.169627891  
 Inverse Flattening: 298.3

Coordinates				
LAT.	LONG.	LAT.	LONG.	
1- 28° 15' 53.00"	33° 20' 21.00"	North along to the Western Coast of GOS Shore Line to point (20)		
2- 28° 14' 00.00"	33° 20' 25.00"	20- 28° 05' 36.00"	Western Coast of GOS Shore Line	
3- 28° 14' 00.00"	33° 19' 00.00"	21- 28° 05' 36.00"	33° 22' 06.00"	
4- 28° 11' 00.00"	33° 19' 00.00"	22- 28° 08' 08.00"	33° 20' 02.00"	
5- 28° 11' 00.00"	33° 23' 33.83"	23- 28° 07' 05.00"	33° 19' 40.00"	
6- 28° 10' 28.60"	33° 23' 33.30"	24- 28° 12' 15.00"	33° 16' 03.60"	
7- 28° 10' 25.39"	33° 26' 36.46"	25- 28° 10' 45.00"	Western Coast of GOS Shore Line	
8- 28° 07' 43.14"	33° 26' 32.75"	North along to the Western Coast of GOS Shore Line to point (26)		
9- 28° 07' 39.98"	33° 29' 35.83"	26- 28° 16' 00.00"	Western Coast of GOS Shore Line	
10- 28° 04' 57.70"	33° 29' 32.07"	27- 28° 16' 00.00"	33° 11' 00.00"	
11- 28° 04' 50.00"	33° 32' 12.00"	28- 28° 15' 00.00"	33° 11' 00.00"	
12- 28° 02' 12.00"	33° 32' 12.00"	29- 28° 15' 00.00"	33° 12' 00.00"	
13- 28° 02' 12.00"	33° 35' 34.00"	30- 28° 14' 00.00"	33° 12' 00.00"	
14- 28° 00' 00.00"	33° 35' 31.00"	31- 28° 14' 00.00"	33° 13' 00.00"	
15- 28° 00' 00.00"	Western Coast of GOS Shore Line	32- 28° 13' 00.00"	33° 13' 00.00"	
16- 28° 01' 13.30"	Western Coast of GOS Shore Line	33- 28° 13' 00.00"	33° 15' 00.00"	
17- 28° 05' 00.00"	33° 22' 35.00"	34- 28° 13' 41.82"	33° 15' 00.00"	
18- 28° 05' 00.00"	33° 21' 00.00"	35- 28° 13' 19.53"	33° 15' 11.63"	
19- Western Coast of GOS Shore Line	33° 21' 00.00"	36- 28° 13' 17.33"	33° 17' 30.53"	
		37- 28° 15' 59.51"	33° 17' 33.97"	



## NORTHWEST EL AMAL WELLS

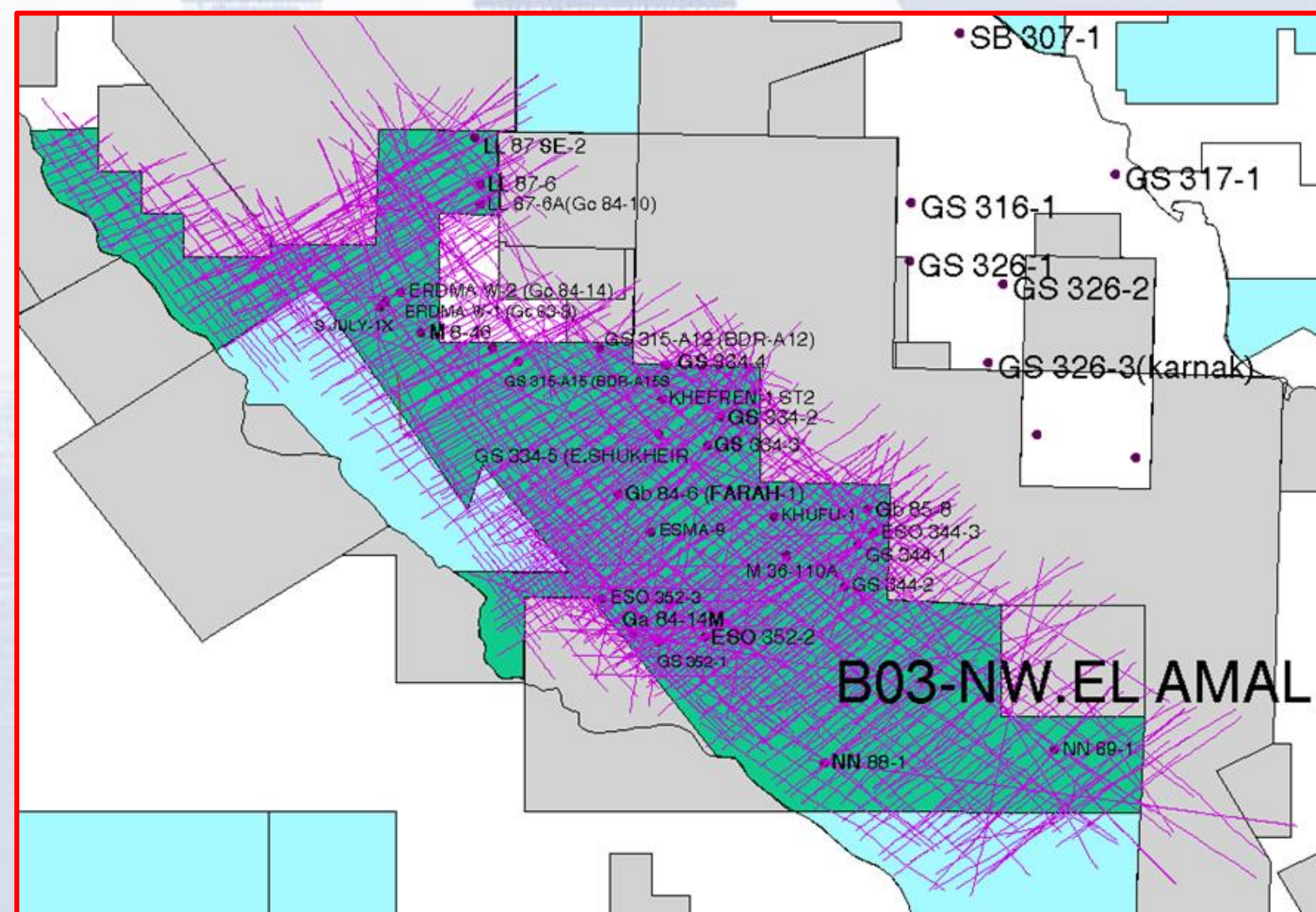
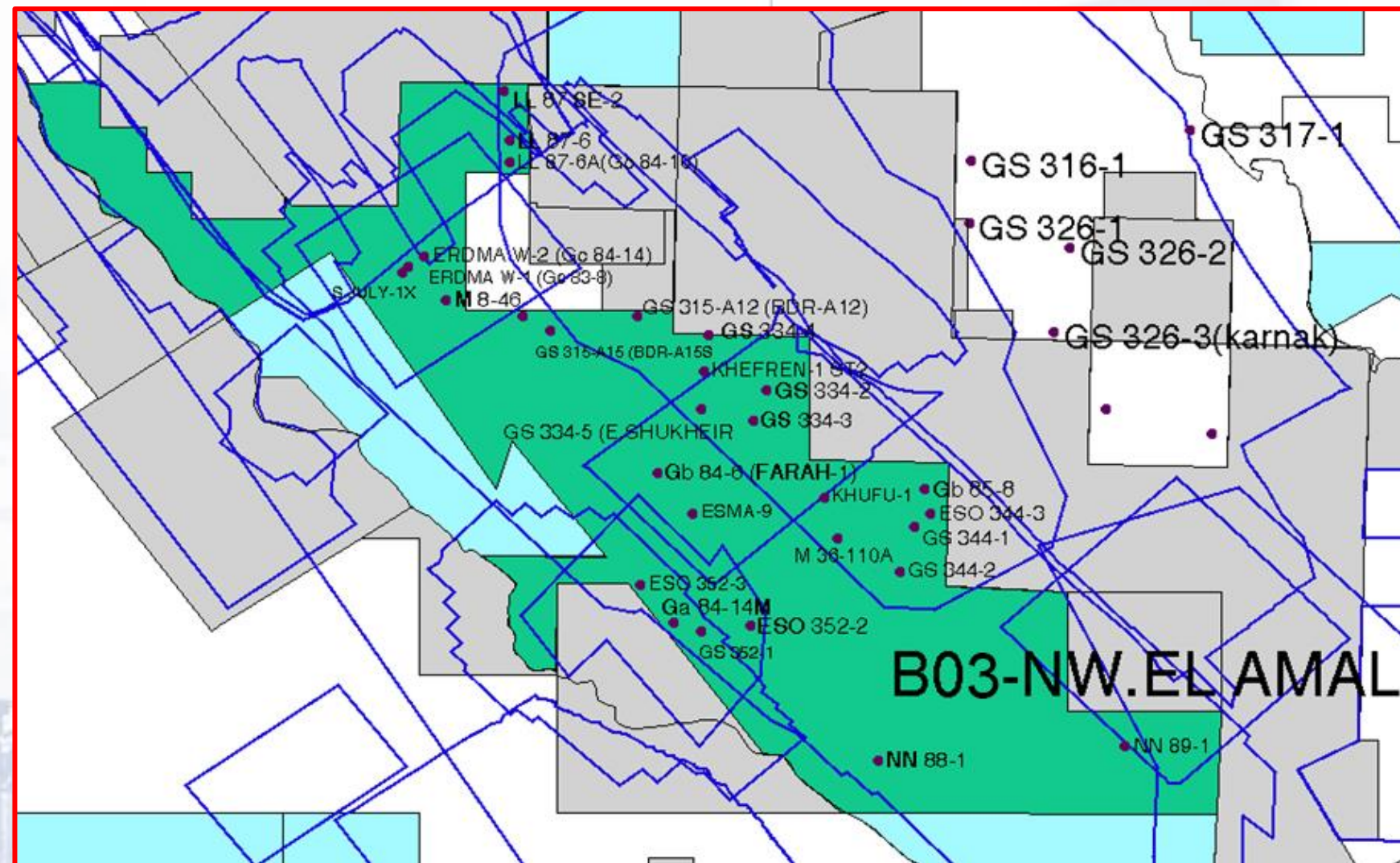
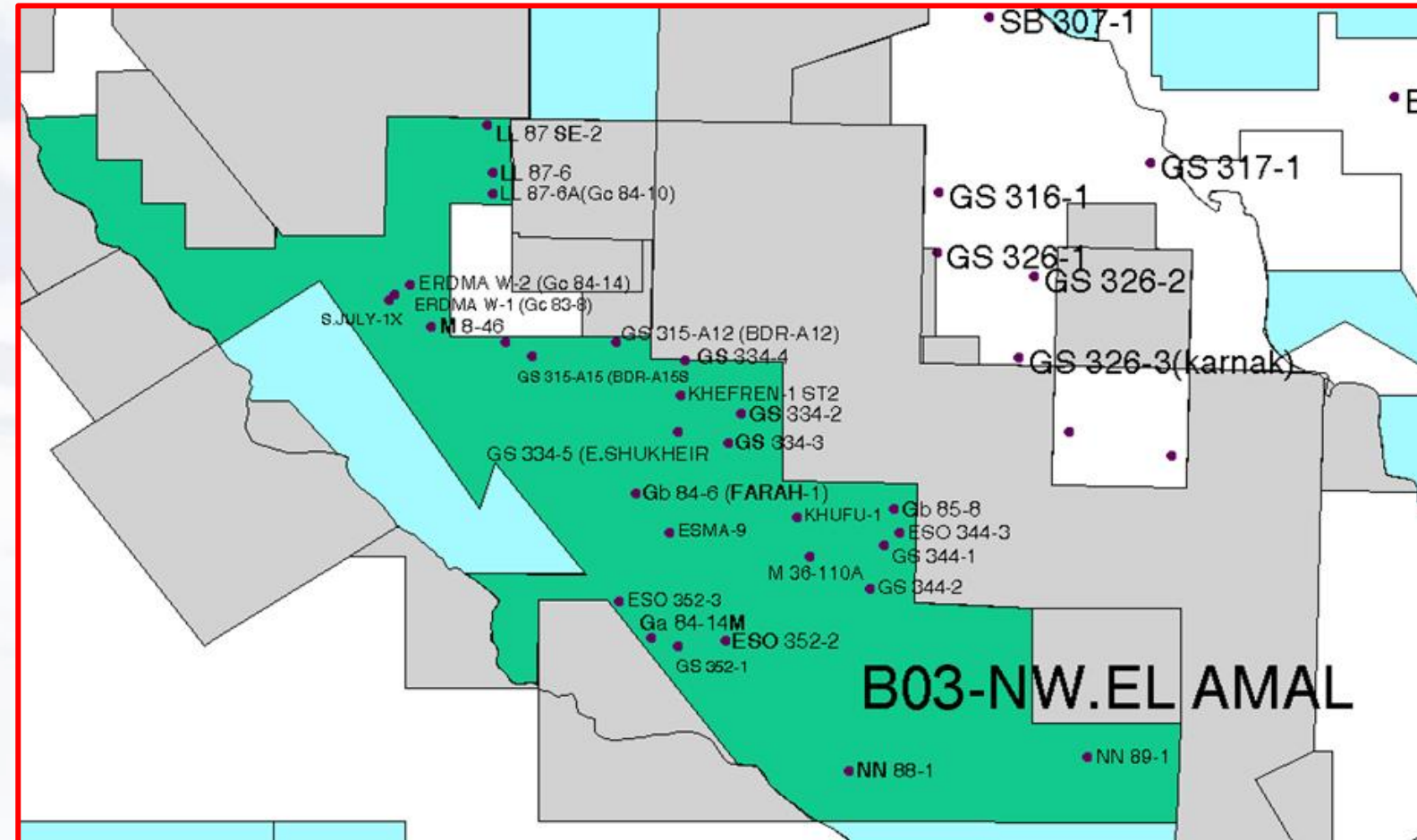
NO.	WELL NAME / NEW NAME	COMPANY	SPUD. DATE COMP. DATE	LAT. LONG.	T. D. FEET	FORMATION REACHED	FINAL STATUS
1	<i>SOUTH JULY -1X</i>	<i>SANTOS</i>	<i>23/12/2008 11/04/2009</i>	<i>28° 11' 52.0" 33° 17' 41.7"</i>	<i>11,390</i>	<i>RUDEIS</i>	<i>P &amp; A</i>
2	<i>KHUFU -1</i>	<i>DEVON</i>	<i>18/11/2005 23/02/2006</i>	<i>28° 06' 54.8" 33° 26' 53.6"</i>	<i>11,700</i>	<i>LOWER RUDEIS</i>	<i>P &amp; A</i>
3	<i>KHEFREN - 1</i>	<i>DEVON</i>	<i>18/07/2004 05/12/2004</i>	<i>28° 09' 42.0" 33° 24' 15.0"</i>	<i>13,091</i>	<i>THEBES</i>	<i>P &amp; A</i>
4	<i>ESMA -9 (Gb 85-10)</i>	<i>GUPCO</i>	<i>07/04/2000 25/06/2000</i>	<i>28° 06' 34.0" 33° 24' 02.0"</i>	<i>11,950</i>	<i>ASL</i>	<i>P &amp; A</i>
5	<i>GS 334 -5 (Gb 85-9)</i>	<i>GUPCO</i>	<i>09/01/1995 19/03/1995</i>	<i>28° 08' 52.3" 33° 24' 11.4"</i>	<i>13,026</i>	<i>NUBIA</i>	<i>P &amp; A</i>
6	<i>Ga 84 – 14</i>	<i>IEOC</i>	<i>07/06/1991 12/08/1991</i>	<i>28° 04' 10.8" 33° 23' 37.4"</i>	<i>6,320</i>	<i>RUDEIS</i>	<i>P &amp; A</i>
7	<i>Gb 85 -8 (Gb 85-8)</i>	<i>UNOCAL</i>	<i>12/10/1990 27/12/1990</i>	<i>28° 07' 08.2" 33° 29' 08.3"</i>	<i>11,900</i>	<i>NUBIA "C"</i>	<i>Tested Oil L. Miocene with an average rate 845 BOPD of 26.6 API</i>
8	<i>ERDMA W -2 (Gc 84-14)</i>	<i>ELFAQ.</i>	<i>10/03/1990 07/05/1990</i>	<i>28° 12' 13.0" 33° 18' 07.7"</i>	<i>11,628</i>	<i>1. RUDEIS</i>	<i>P &amp; A</i>
9	<i>FARAH -1 (Gb 84-6)</i>	<i>UNOCAL</i>	<i>29/11/1989 19/02/1990</i>	<i>28° 07' 27.1" 33° 23' 21.3"</i>	<i>13,830</i>	<i>EOCENE</i>	<i>P &amp; A with Oil &amp; Gas shows in Kareem Fm.</i>
10	<i>ERDEMA W -1 (Gc 83-8)</i>	<i>ELFAQ.</i>	<i>28/08/1989 16/11/1989</i>	<i>28° 12' 04.0" 33° 17' 48.0"</i>	<i>10,499</i>	<i>RUDEIS</i>	<i>P &amp; A</i>
11	<i>GS 334 -4 (Gb 85-7)</i>	<i>GUPCO</i>	<i>10/06/1989 05/10/1989</i>	<i>28° 10' 25.5" 33° 24' 22.7"</i>	<i>13,518</i>	<i>THEBES</i>	<i>P &amp; A with Oil shows in Miocene</i>
12	<i>ESO 352 -3 (Ga 84-9)</i>	<i>ARCO</i>	<i>11/11/1986 23/12/1986</i>	<i>28° 05' 00.0" 33° 22' 54.0"</i>	<i>08,600</i>	<i>NUBIA</i>	<i>P &amp; A with Oil shows in L. Miocene</i>
13	<i>ESO 352 -2A (Ga 85-10)</i>	<i>ARCO</i>	<i>06/09/1985 30/11/1985</i>	<i>28° 04' 04.0" 33° 25' 16.0"</i>	<i>08,489</i>	<i>BASEMENT</i>	<i>P &amp; A</i>

## NORTHWEST EL AMAL WELLS

NO.	WELL NAME / NEW NAME	COMPANY	SPUD. DATE COMP. DATE	LAT. LONG.	T. D. FEET	FORMATION REACHED	FINAL STATUS
14	<i>ESO 344 -3 (Gb 85-6)</i>	<i>QUINTANA</i>	<i>22/01/1982 29/06/1982</i>	<i>28° 06' 33.9" 33° 29' 15.4"</i>	<i>12,929</i>	<i>NUBIA</i>	<i>P &amp; A with Oil shows in L. Miocene</i>
15	<i>MM 86-1A (Gb 84-3)</i>	<i>SUCO</i>	<i>29/05/1981 10/11/1981</i>	<i>28° 09' 04.8" 33° 18' 37.1"</i>	<i>11,198</i>	<i>NUBIA</i>	<i>P &amp; A</i>
16	<i>LL 87-6A (Gc 84-10)</i>	<i>SUCO</i>	<i>21/07/19/81 13/05/1982</i>	<i>28° 14' 14.3" 33° 19' 59.0"</i>	<i>12,650</i>	<i>MIOCENE- RUDEIS</i>	<i>P &amp; A</i>
17	<i>NN 88 -1 (Ga 85-9)</i>	<i>SUCO</i>	<i>05/03/1981 26/04/1981</i>	<i>28° 01' 09.0" 33° 28' 08.4"</i>	<i>07,235</i>	<i>BASEMENT</i>	<i>P &amp; A with Oil shows in Thebes Fm.</i>
18	<i>NN 89 -1 (Ga 86-7)</i>	<i>DEMINEX</i>	<i>06/07/1976 12/11/1976</i>	<i>28° 01' 29.4" 33° 33' 31.3"</i>	<i>13,385</i>	<i>MIOCENE- RUDEIS</i>	<i>P &amp; A with Oil &amp; Gas shows in L. Miocene</i>
19	<i>GS 352 -1 (Ga 85-10)</i>	<i>GUPCO</i>	<i>22/05/1976 06/07/1976</i>	<i>28° 04' 00.0" 33° 24' 13.5"</i>	<i>06,610</i>	<i>BASEMENT</i>	<i>P &amp; A</i>
20	<i>GS 334 -3 (Gb 85-5)</i>	<i>GUPCO</i>	<i>11/05/1976 11/08/1976</i>	<i>28° 08' 37.0" 33° 25' 21.0"</i>	<i>13,181</i>	<i>NUKHUL</i>	<i>P &amp; A</i>
21	<i>Gs 344 -2 (Ga 85-7)</i>	<i>GUPCO</i>	<i>15/02/1976 13/05/1976</i>	<i>28° 05' 19.0" 33° 28' 36.0"</i>	<i>12,430</i>	<i>NUBIA</i>	<i>P &amp; A with Oil &amp; Gas shows in L. Miocene &amp; Cretaceous</i>
22	<i>LL 87 -2 (Gc 84-5)</i>	<i>DEMINEX</i>	<i>28/01/1976 28/05/1976</i>	<i>28° 15' 46.9" 33° 19' 52.2"</i>	<i>12,308</i>	<i>NUBIA</i>	<i>L. Senonian (Raha)&amp; Nubia Oil Discovery</i>
23	<i>GS 334 -2 (Gb 85-4)</i>	<i>GUPCO</i>	<i>21/08/1975 20/11/1975</i>	<i>28° 09' 15.7" 33° 25' 39.2"</i>	<i>13,070</i>	<i>LOWER CENOMANIAN</i>	<i>P &amp; A with Oil &amp; Gas shows in L. Miocene</i>
24	<i>Gs 344 -1A (Gb 85-3)</i>	<i>GUPCO</i>	<i>20/05/1975 20/07/1975</i>	<i>28° 06' 17.0" 33° 28' 53.0"</i>	<i>11,336</i>	<i>NUBIA</i>	<i>P &amp; A with Oil shows in Cretaceous "Nubia - C"</i>



## Seismic Database



**2D Seismic Survey: 5196 Km**

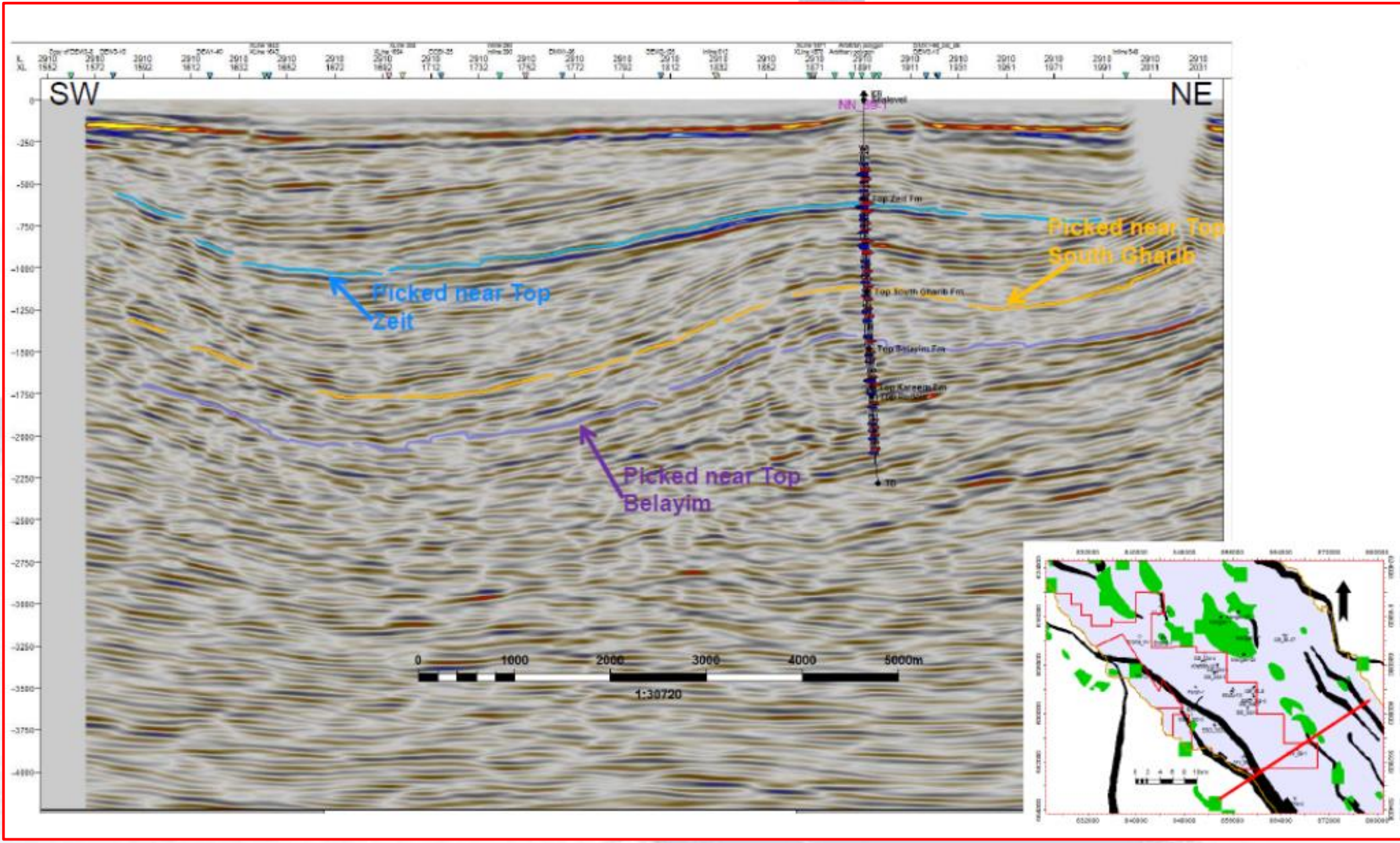
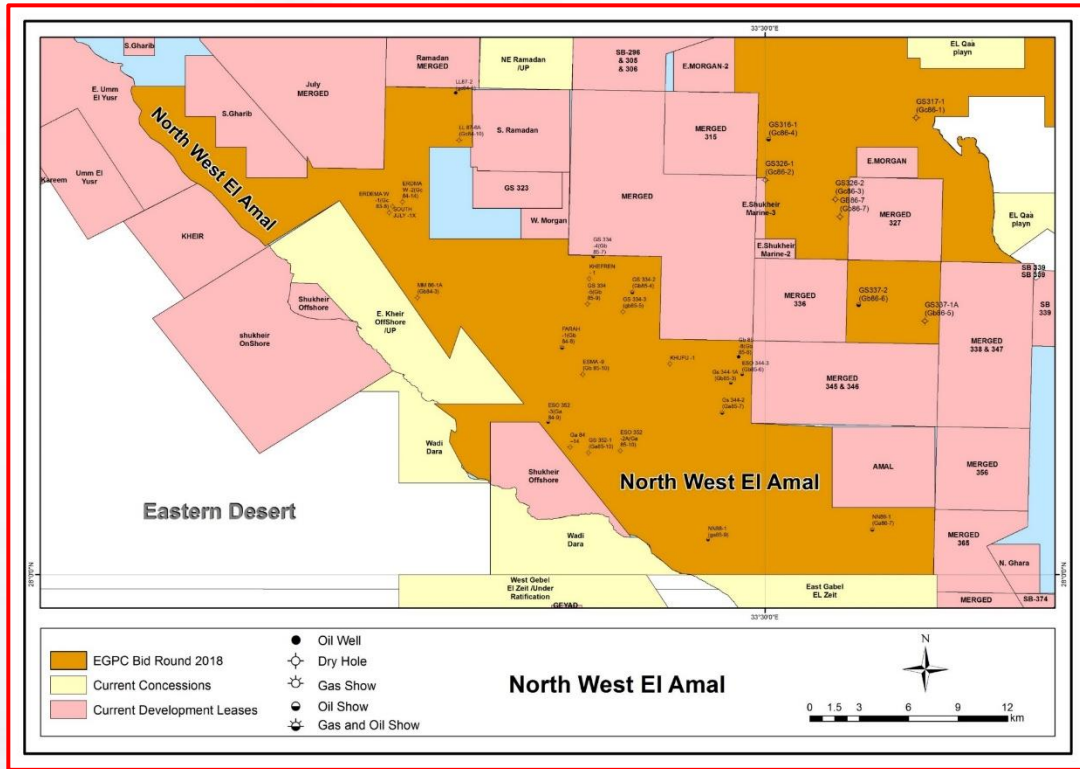
**3D Seismic Survey: 799 Km<sup>2</sup>**

- ✓ RWE-NWEA Reprocessing: 415 Km<sup>2</sup>
- ✓ Gupco CGOS Reprocessing: 384 Km<sup>2</sup>



# 4. North West El Amal 2018 BID ROUND BLOCKS

## Seismic Model





### Petroleum System Elements & Hydrocarbon Plays

➤ **Basin:** The area lies in Southern central province of the GOS in the East Zeit trough.

➤ **Sources:**

The principal source rock is almost certainly the pre-rift, Campanian Brown Limestone, Thebes limestones and the deep marine syn-rift Miocene Rudeis shales, have probably contributed also.

➤ **Reservoirs:**

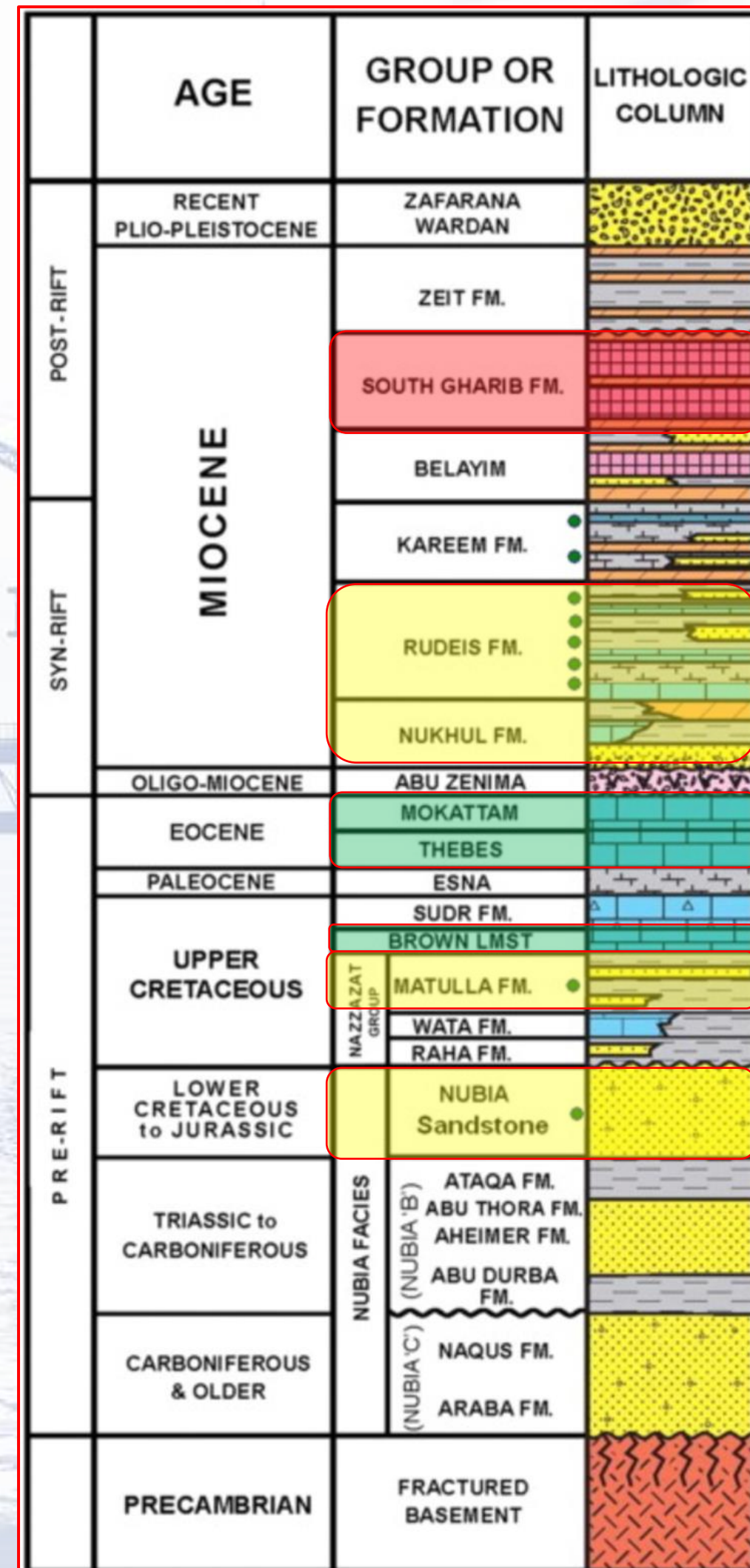
Nubia Sandstone is the main reservoir rock, Cretaceous Matulla sandstone and The Miocene of Nukhul and L. Rudeis.

➤ **Seal:**

Main vertical seal is Anhydrites & Salts of South Gharib Fm in addition to the shales of Rudeis & Kareem Formations

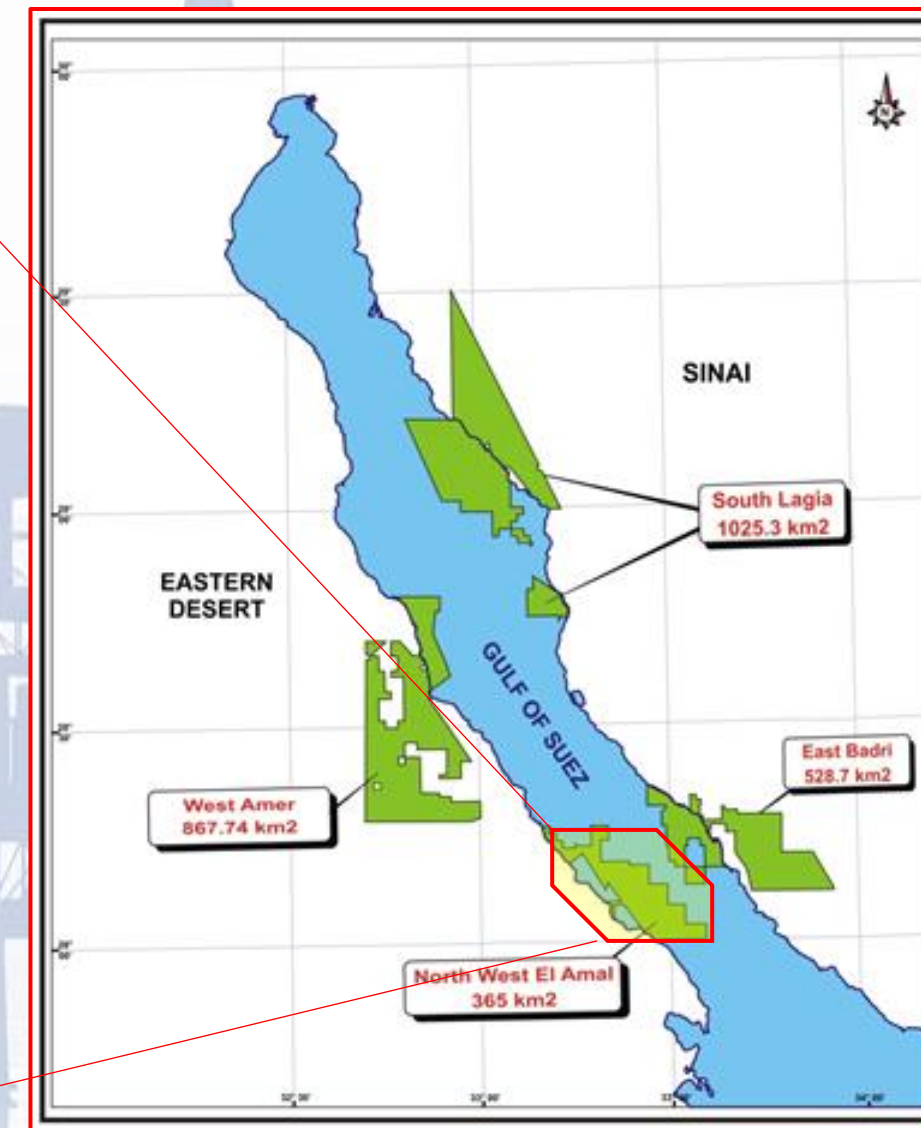
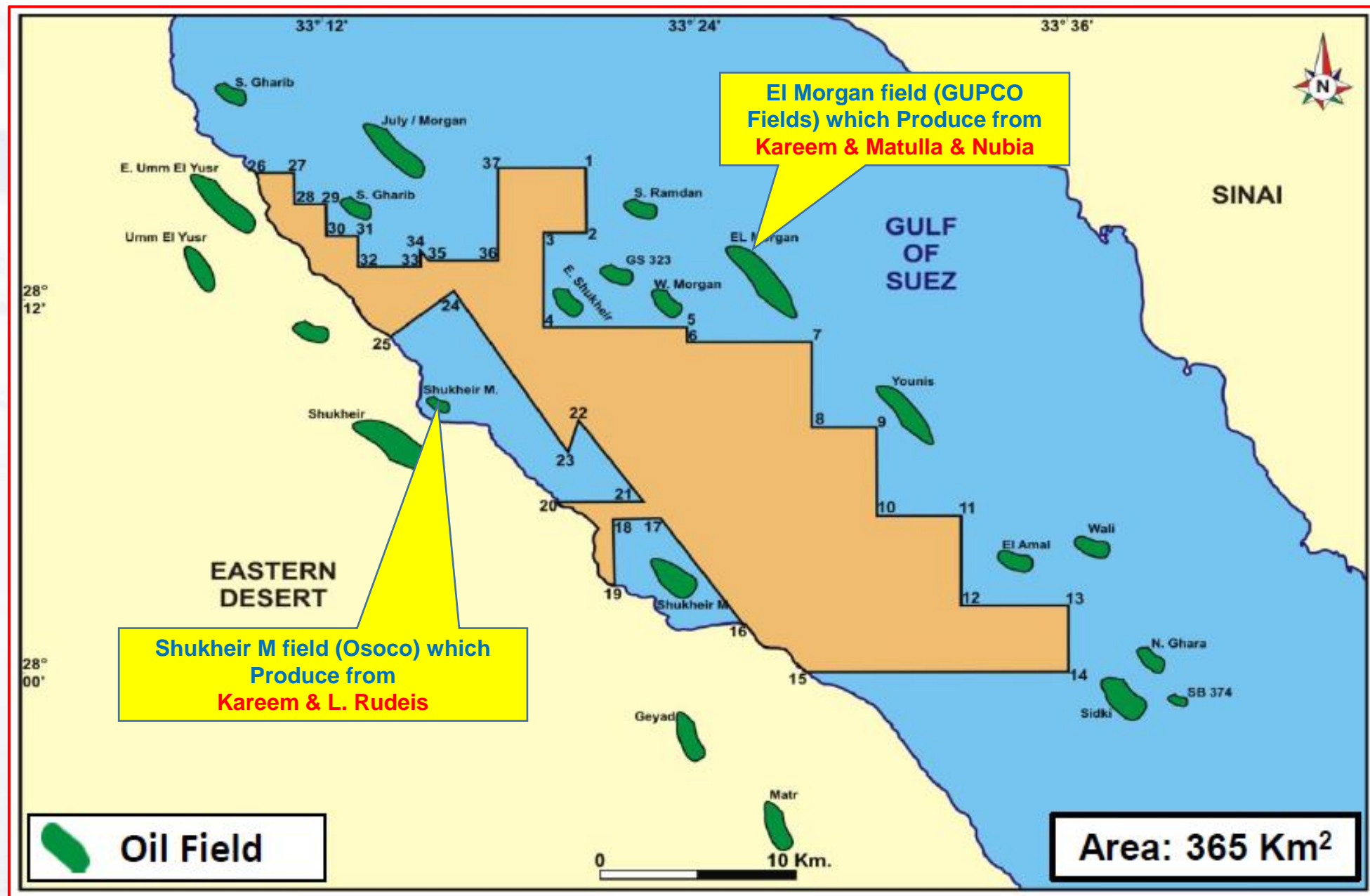
➤ **Trap Mechanism:**

The Block have mainly structure trap rotated Tilted fault block and horst block.





## Nearby Fields & Productivity



### Nearby Fields:

July, Morgan, S. Gharib, S. Ramadan, Younis, El Amal, Sidki, Shukheir M & L, E. Shukheir and Um El Yusr fields.