

After the big bumps

Upgraded seismic, new QI methods plus the conventional exploration tool box show what to go for in the Persian Gulf

Trond Christoffersen (GGS AS), Katya Krylova (GGS Interica)

Agenda:

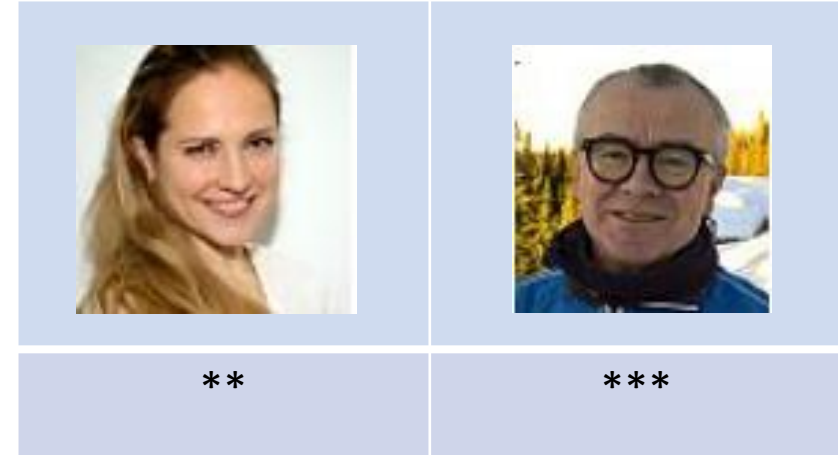
- Introduction and politics**
- A quick walk through the sweet-shop**
 - Geophysics**

WHO'S WHO ONE

GGS – Norwegian MC Seismic company.
Acquired, processed and holds the exclusive
licensing rights for PC-2000 (*)





INTERICA – Leading UK data management
company

GGS-Interica – JV managing reprocessing of
PC-2000 and markets the data in co-
operation with GGS.



- (*) PC2000, for 15 years the world's largest MC2D seismic survey. 105,000 km covering the entire Iranian PG plus the Sea of Oman
- (**) VP Sales and Marketing, GGS-Interica
- (***) COO GGS

WHO'S WHO TWO

					
*	**	***	****	*****	*****

- (*) President of the USA
- (**) President of France
- (***) President of Iran
- (****) President of Russia
- (*****) President of China
- (*****) No 5 heir to the Crown of the British Empire

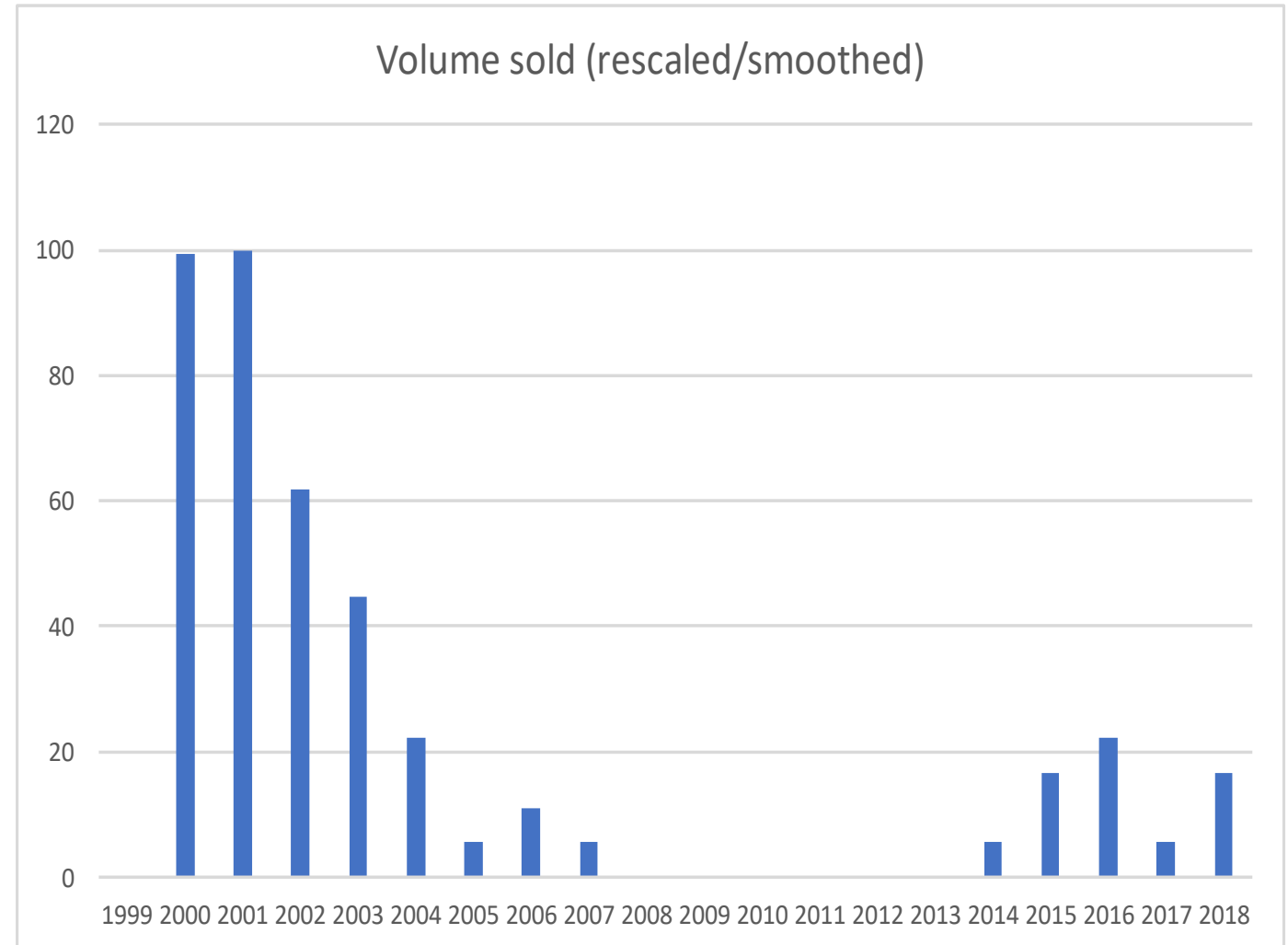
Purchased by 20 oil companies

- 8 Majors
- 10 Independents
- 2 NOCs

Working in Iran is all about long term commitment building trust and relationships

The successes and set-backs can be correlated with international relations (sanctions) and with the E&P terms.

Lessons have been learnt from the limitations of the Buy-Back contracts with the introduction of the IPC.



The USA withdrawal from the Iranian nuclear deal will no doubt stir up the path ahead.

New strict American sanction including secondary sections on non-American companies dealing with Iran.

To be seen:
Europe, Russia and China's response
The effect on Iran
For better or worse?

Not for the faint hearted.
Only for the ones with long term view.



French energy giant Total is preparing to pull out of a billion dollar gas project in Iran in the face of renewed US sanctions.

Total said it will unwind operations by November unless sanctions are waived.

The Persian Gulf is heavily under-explored as illustrated by the field size distribution. Which has the distribution characteristics of a basin in an immature exploration stage.

Increased reserves will come from:

- Mapping additional reserves in already discovered fields (e.g. additional reservoir layers). Horizontal arrow.
- Making new discoveries. Vertical arrow.

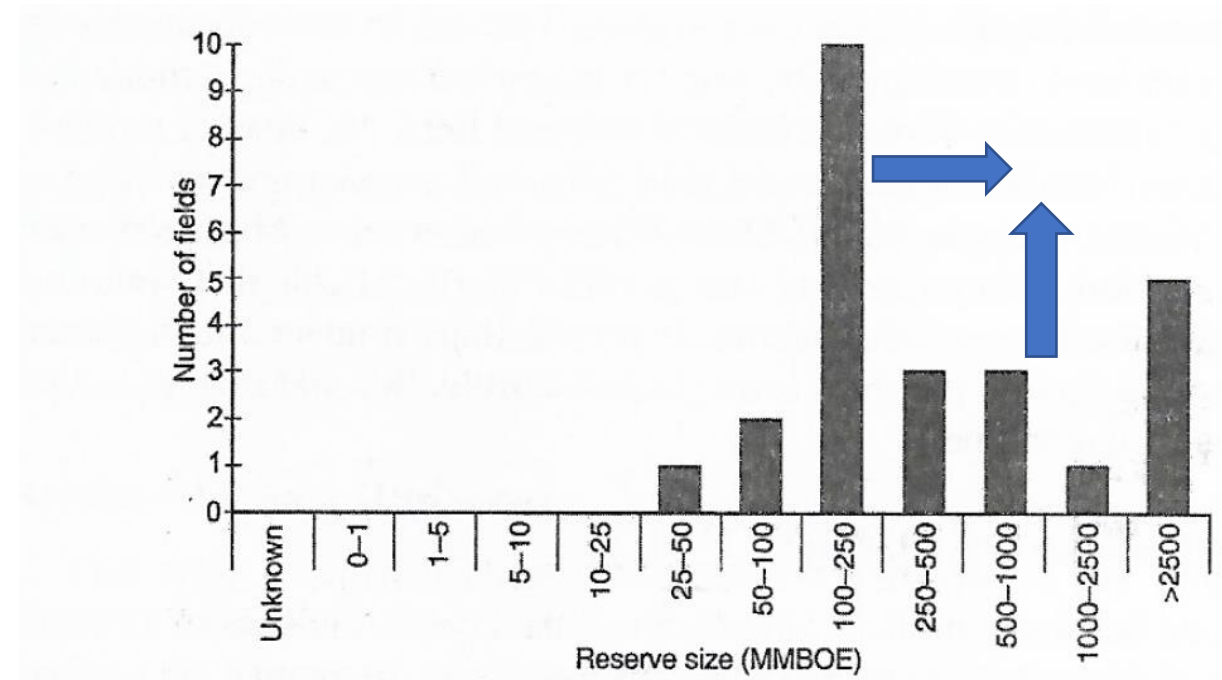


Figure 9-1. The reserves size distribution for Iranian petroleum fields in the Persian Gulf.

Which could lead to one of many possible outcomes.

Original chart from “Petroleum Geology of the Persian Gulf”, Tehran, 2010.

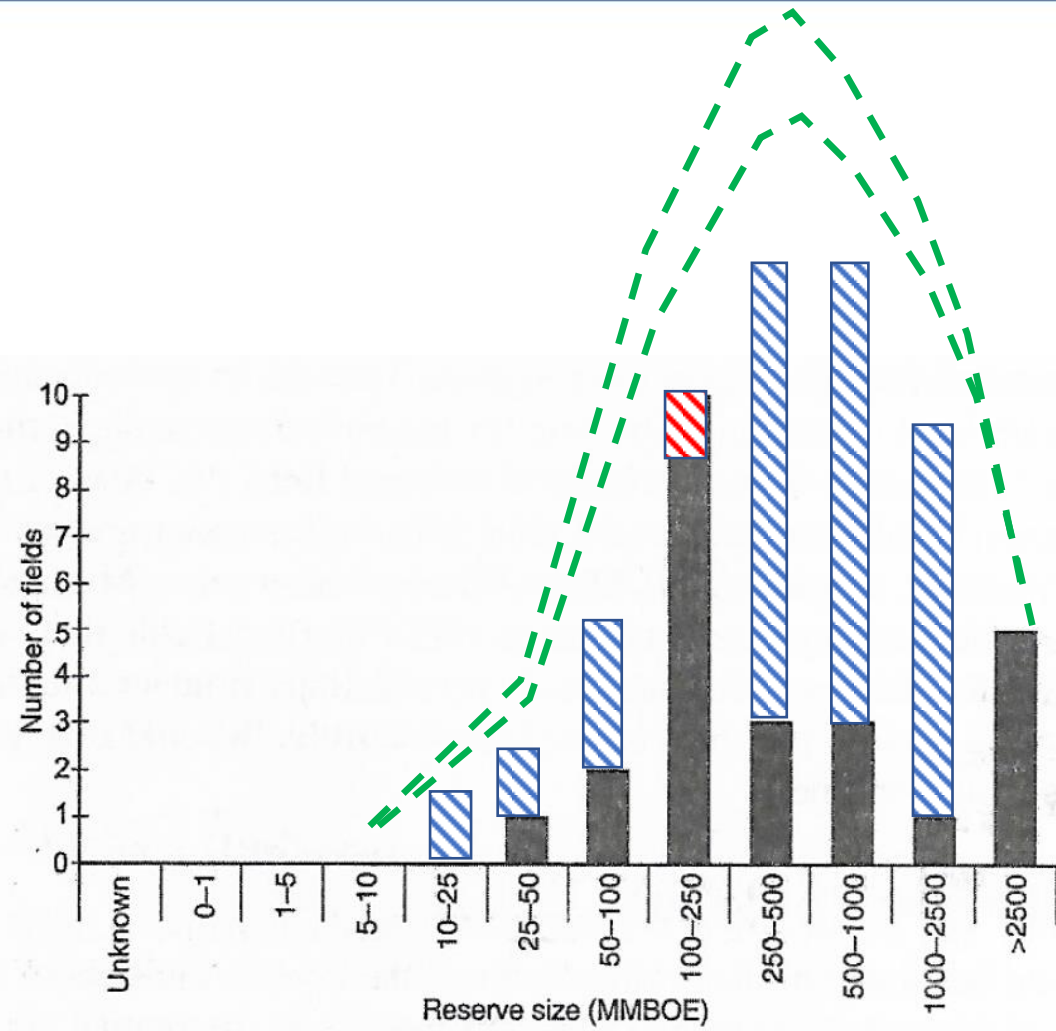
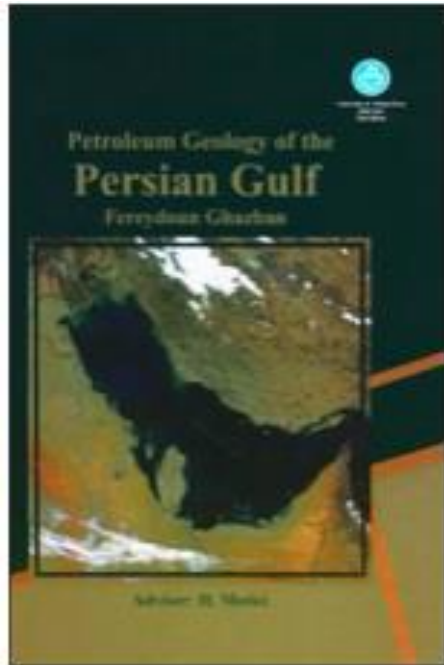
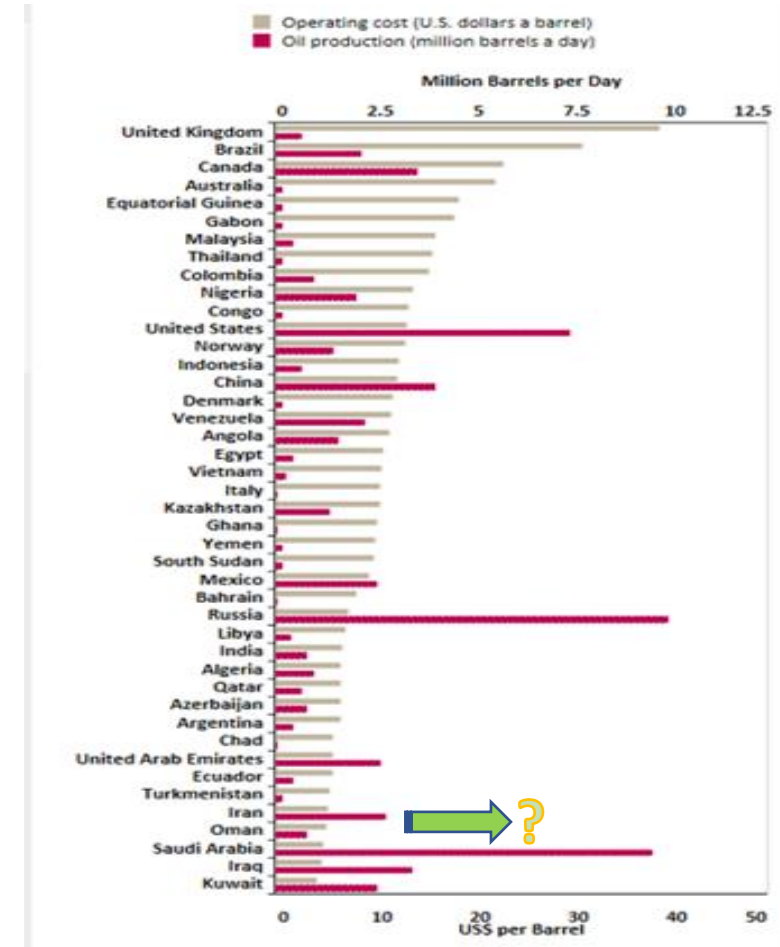


Figure 9-1. The reserves size distribution for Iranian petroleum fields in the Persian Gulf.

.. what to go for in the Persian Gulf Introduction and politics

- Unique geological attractiveness
- Unique potential to large increase of production at low cost
- Unique possibility of establishing new player relations in the void after sanctions through balanced approach to exploration, development and IOR
- Terms enabling this seems now to be obtainable for win-win solutions (IPC vs Buy-Back)



IPC PROJECTS

Undeveloped and developed proven fields

52 Hydrocarbon Fields (26 packages)							
Oil Fields (29)- STOIP 391 BSTB				Gas Fields (23)- GIIP 255 TSCF			
Green (Undeveloped) Fields (12)		Brown (Developed) Fields (17)		Green (Undeveloped) Fields (21)		Brown (Developed) Fields (2)	
Onshore (9)	Offshore (3)	Onshore (12)	Offshore (5)	Onshore (13)	Offshore (8)	Onshore (2)	Offshore (0)
South Azadegan-Phase2	South Pars Oil Layer	Ahwaz-Bangestan	Foroozan	Halegan, Sefid-Baghoun, Sefid-Zakhor, Day and Aghar	South Pars (Phase 11)	Tang-e-Bijar and Ilam refinery	
Changuleh	Golshan&Ferdowsi Oil Field	Mansouri-Bangestan	Soroosh	Khami Reservoirs	Farzad-A		
Darquain-3rd Phase (Bangestan)		Ab-Teymour	Nowrooz	Karun-Bangestan&NGL-1700	Farzad-B		
Susangerd, Jufair, Sepehr, Sohrab, Band-e-Karkheh and Arvand		Aban, Paydar, West-Paydar, Danan, Cheshmekhosh, Dalpari, Naft-Shar, Dehloran and Sumar	Dorood		North Pars		
			Salman Oil Field		Golshan&Ferdowsi Gas Field		
					Kish (Phase 2&3)		

IPC PROJECTS

Exploration blocks offered

Sub-Basin/Basin		Block
CENTRAL IRAN		KAVIR
MOGHAN		MOGHAN
PERSIAN GULF		BAMDAD MAHAN PARSA
KOPE DAGH		SARAKHS DUSTI RAZ
EASTERN IRAN		SISTAN
TAYBAD		TAYBAD
DEZFUL	ZAGROS	ABADAN
LORESTAN		TIMAB ZAHAB
FARS		TUDEJ
CASPIAN SEA		BLOCK 24 BLOCK 26 BLOCK 29 SARDAR -E-JANGAL

- NIOC offers 18 E&P blocks which enclose six geological basins.
- The offered blocks are mixture of mature plays, high potential and new frontier basins.

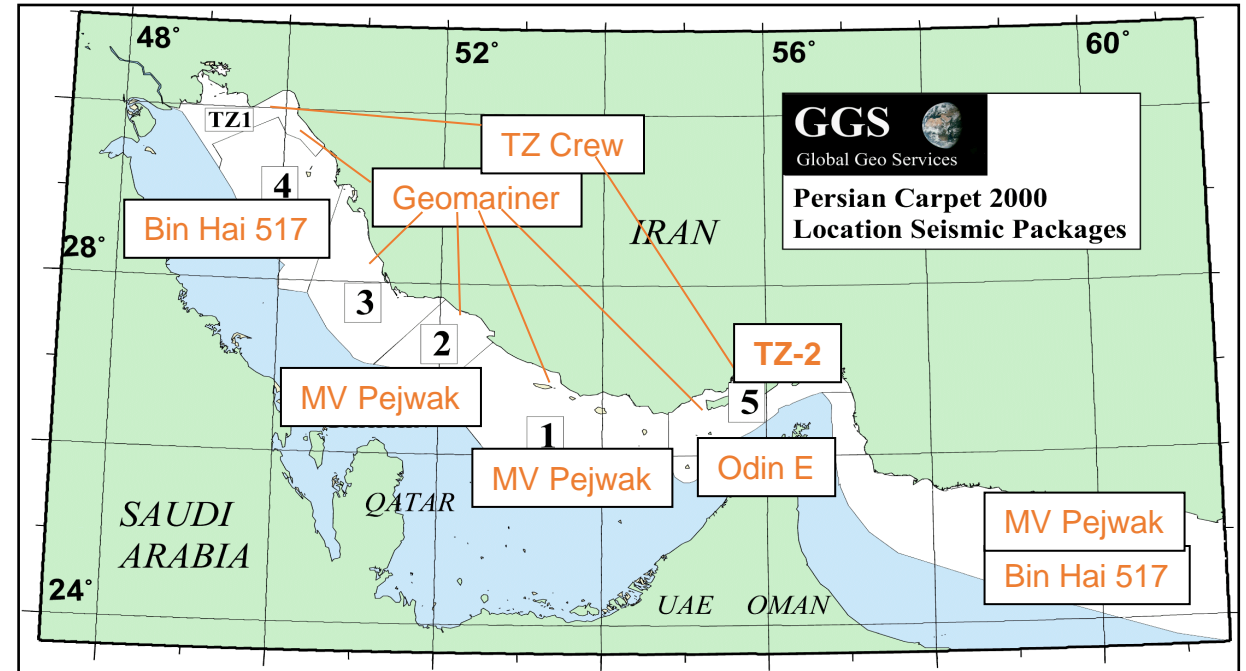


Up to 6 vessels acquiring data

105,000 km collected during a period of more than 2 years (1999-2002)

2km x 2km grid in the Persian Gulf, wider in the Sea of Oman

Truly international crews successfully completing a highly complex operation



TZ CREW BEACH



ODIN



BIN HAI 517



PEJWAK



MV GEOMARINER



TZ CREW TIDAL ZONE
HAI SHI (SHOOTING VESSEL) **BIN HAI 504 (MOTHER SHIP)**



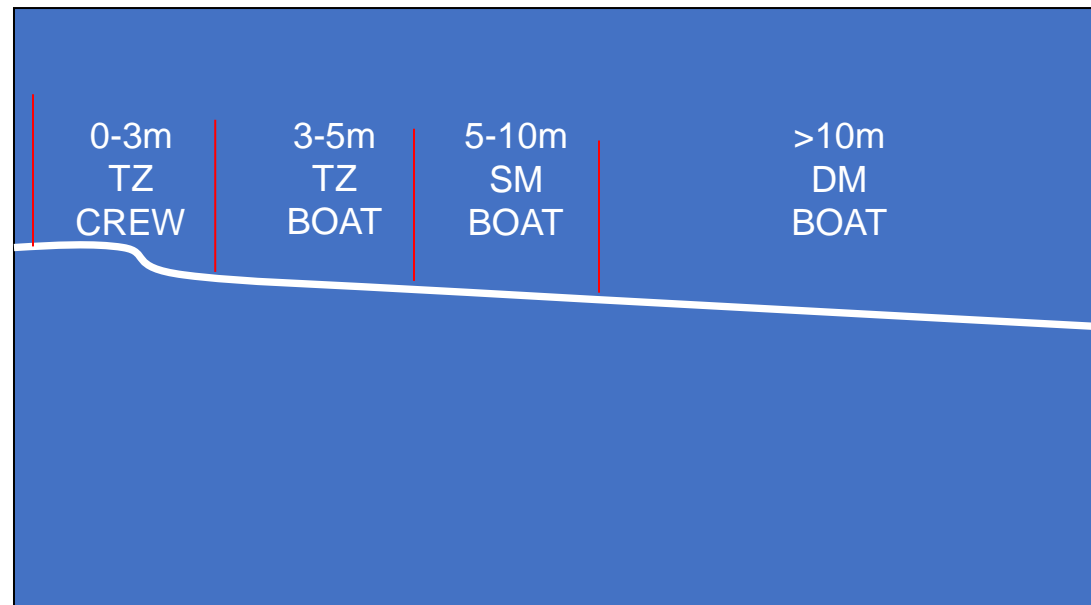
4 DATA COLLECTION METHODS

TZ DYNAMITE

TZ BOAT

SHALLOW MARINE VESSEL

DEEP MARINE VESSEL



Data Collection Methods

.. what to go for in the Persian Gulf The tour

SIMPLIFIED KEY

Period	Epoch	Formation	Lithology
Tertiary	Mio	Fars	Clastics and Evaporites
		L. Fars	Clastics and Evaporites
		Kharg	Clastics and Evaporites
	Oligo	Agah Jari	Clastics and Evaporites
		Bakhtiari	Clastics and Evaporites
Mishan		Clastics and Evaporites	
Eo - Palaeo	Gur Member	Clastics and Evaporites	
	Gachsaran	Clastics and Evaporites	
	Ghar (Ghar-Ashmar)	Sandstone	
Cretaceous	Upper	Chameli Member	Clastics and Evaporites
		Chehel Member	Clastics and Evaporites
		Asmari	Carbonates
		Jahrum (Damman)	Carbonates
		Rus	Evaporites/Galt
	Middle	Rashuma	Carbonates
		Paludon	Carbonates
		Tayarat	Carbonates
		Tarbour	Carbonates
		Bahra	Carbonates
		Gurpi	Shale/Marl
		Ilam	Carbonates
		Lafan	Shale
		Sarvak	Carbonates
		Bangestan	Carbonates
Lower	Mishri	Carbonates	
	Ahmadi	Carbonates	
	Maudud	Carbonates	
	Nahr Umr	Carbonates	
	Kashoumi	Carbonates	
	Darlet	Carbonates	
	A.B.C Sand	Sandstone	
	Burgan	Sandstone	
	Darjani (Shuaila)	Carbonates	
	Shuiba	Carbonates	
Jurassic	Upper	Zubair	Sandstone
		Qadwan	Carbonates
		Rafawi	Carbonates
		Kharabi	Carbonates
		Khalil Member	Carbonates
	Middle	Fahliyan	Carbonates
		Yamaha	Carbonates
		Sulay	Carbonates
		Garau	Carbonates
		Hith	Evaporites/Galt
	Lower	Gahla	Evaporites/Galt
		Arab A.B.C.D	Carbonates
		Jubaila	Carbonates
		Hamra	Carbonates
		Dumrah	Carbonates
L. Surmei shale		Shale/Marl	
Daro		Carbonates	
Diyab		Carbonates	
Najmah		Carbonates	
Gargelu		Carbonates	
Triassic	Upper	Ardel	Carbonates
		Mand Member	Carbonates
		Alan eq.	Carbonates
		Mus	Carbonates
		Adaya eq.	Carbonates
	Middle	Bulman	Carbonates
		Lithos Bed	Carbonates
		L.S.G.M.	Carbonates
		Neyriz	Evaporites/Galt
		Dashlak	Carbonates
	Lower	(Bafra Dol.)	Carbonates
		H-Anhydrite	Evaporites/Galt
		Bluezone ?	Carbonates
		Gulistan	Carbonates
		Aghar Shale	Shale
Permian	Sudair	Carbonates	
	Kargan	Carbonates	
Permian	Dalan	Carbonates	
	Nar Member	Carbonates	
	L. Dalan	Carbonates	
	Faraghu	Clastics	
	Silurian	Clastics	

Shale

Carbonates

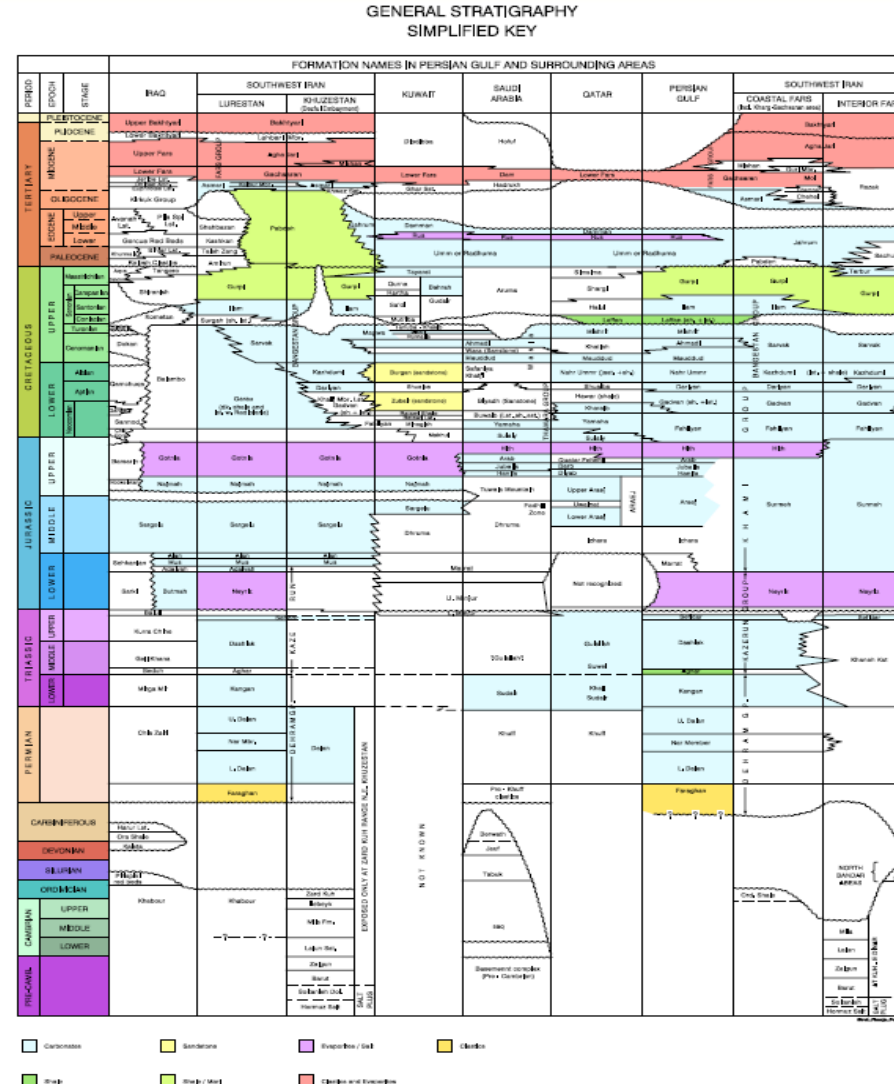
Clastics

Sandstone

Clastics and Evaporites

Evaporites/Galt

Shale/Marl



Generalized stratigraphy in the PG area

Key to formations

.. what to go for in the Persian Gulf

The tour

SIMPLIFIED KEY

Period	Epoch	Formation	Lithology
Tertiary	Mio	Fars	Clastics and Evaporites
		L. Fars	Clastics and Evaporites
		Kharg	Clastics and Evaporites
		Agha Jari	Clastics and Evaporites
		Bahariyari	Clastics and Evaporites
		Mishan	Clastics and Evaporites
	Oligo	Gul Member	Clastics and Evaporites
		Sachsaran	Clastics and Evaporites
		Ghar (Ghar-Azhmari)	Sandstone
	Eo - Palaeo	Champek Member	Clastics and Evaporites
		Chehel Member	Clastics and Evaporites
		Asmari	Carbonates
Cretaceous	Upper	Jahrum (Damman)	Carbonates
		Rus	Evaporites/Gall
		Radhuma	Carbonates
		Pabdeh	Shale/Mari
		Tayarat	Carbonates
		Tarsoor	Carbonates
	Middle	Sahra	Carbonates
		Gurji	Shale/Mari
		Iam	Carbonates
		Lafan	Shale
		Sarvak	Carbonates
		Bangestan	Carbonates
	Lower	Mishrif	Carbonates
		Ahmadi	Carbonates
		Maudud	Carbonates
		Nahr Umr	Carbonates
		Kazhdumi	Carbonates
		Dair Lst	Carbonates
Jurassic	Upper	A B C Sand	Sandstone
		Burgan	Sandstone
		Dariyan (Shuiba)	Carbonates
		Shuiba	Carbonates
		Zubair	Sandstone
		Gadvan	Carbonates
	Middle	Ratawi	Carbonates
		Rharaib	Carbonates
		Khali Member	Carbonates
		Fahliyan	Carbonates
		Yamama	Carbonates
		Sulbiy	Carbonates
Triassic	Upper	Garu	Carbonates
		Hitt	Evaporites/Gall
		Gothia	Evaporites/Gall
		Arab A B C D	Carbonates
	Middle	Jubaila	Carbonates
		Hanifa	Carbonates
		Bumeh	Carbonates
		L. Surmei shale	Shale/Mari
	Lower	Darb	Carbonates
		Diyab	Carbonates
Permian	Upper	Najmah	Carbonates
		Dargatu	Carbonates
		Arari	Carbonates
		Mano Member	Carbonates
	Middle	Alan ec.	Carbonates
		Mus	Carbonates
		Adaya ec.	Carbonates
		Butmah	Carbonates
Permian	Lower	Lithode Bed	Carbonates
		L.S.S.M.	Carbonates
		Neyriz	Evaporites/Gall
		Dashlak	Carbonates
	Upper	(Defdar Dol.)	Carbonates
		Bluzzone ?	Carbonates
Permian	Middle	Gulalah	Carbonates
		Aghar Shale	Shale
	Lower	Sudair	Carbonates
		Kangan	Carbonates
Permian	Upper	Dalan	Carbonates
		Nar Member	Carbonates
		L. Dalan	Carbonates
		Faraghun	Clastics

ASM - ASMARI

SAR - SARVAK

KAZ - KAZHDHUMI

DAR - DARIYAN

GAD - GADVAN

FAH - FAHLIYAN

SUR - SURMEH

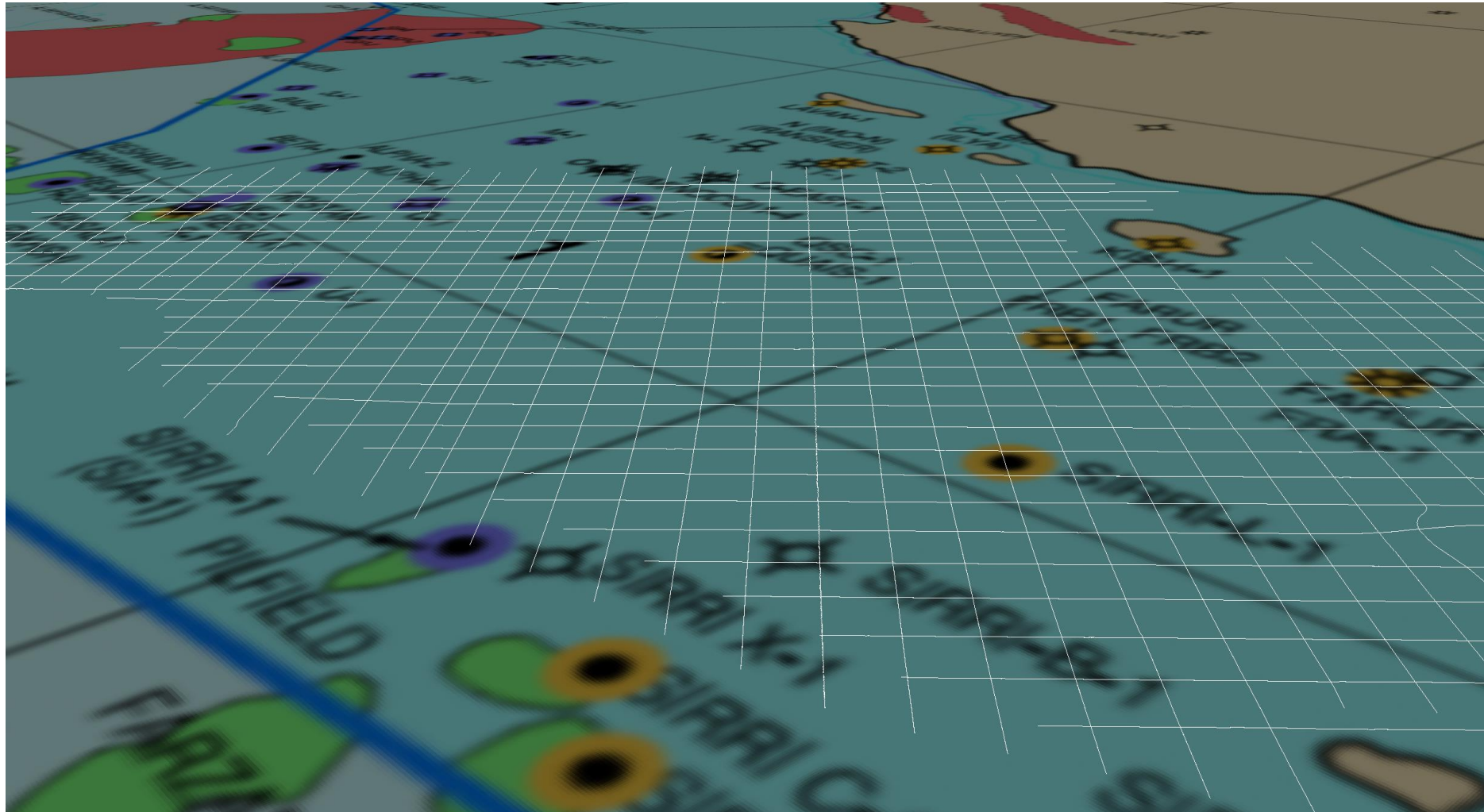
KAN - KANGAN

DAL - DALAN

Generalized stratigraphy in the PG area

Key to formations

Shale	Clastics	Clastics and Evaporites	Shale/Mari
Carbonates	Sandstone	Evaporites/Gall	



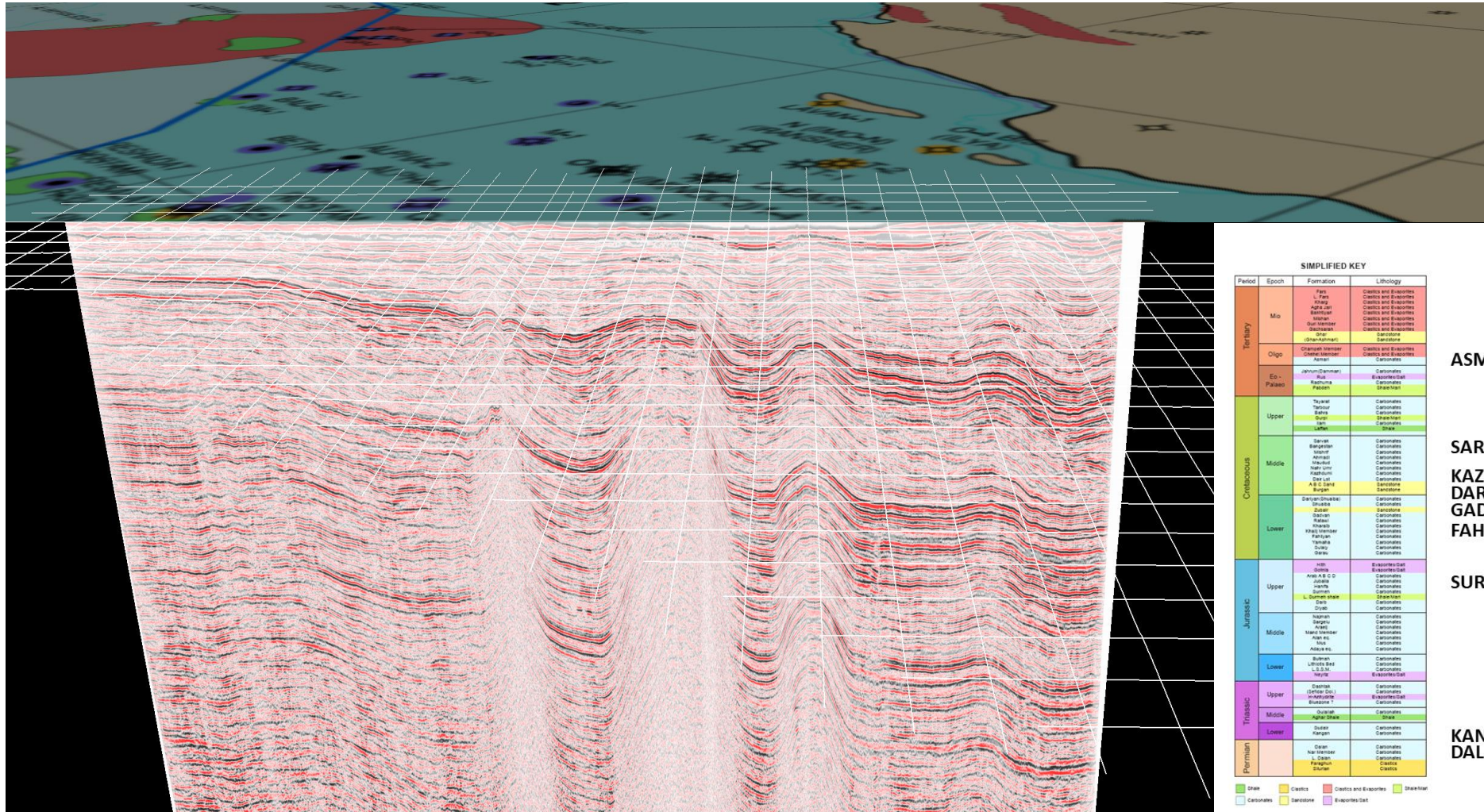
Reshadat



Disc. year	Prod. init. year	Dim. kmxkm	Seismic Data	No. Wells	Formation	API Degrees
1966	1969-72				Sarvak Dariyan Surmeh	20 32 37

Field	STOIP	Cumulative Production	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Reshadat	«1-5 BBL»	101 (1980)	« > 100 MBL/d»	To be proposed by contractor

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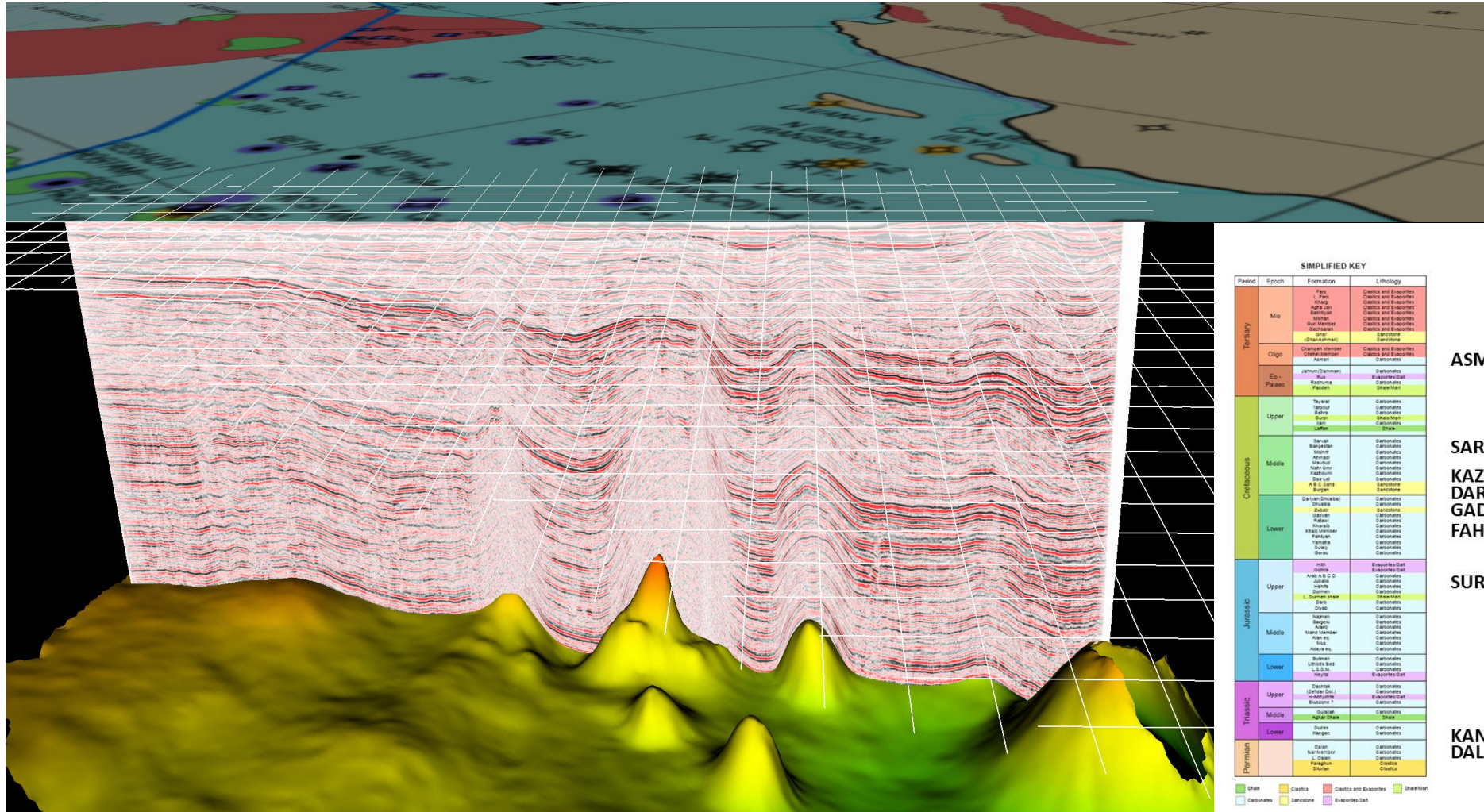
FAH

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Khuff
(Kangan, Dalan below)

SIMPLIFIED KEY			
Period	Epoch	Formation	Lithology
Tertiary	Miocene	Pas	Clastics and Evaporites
		Arang	Clastics and Evaporites
		Agah Jari	Clastics and Evaporites
		Bahari	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Tertiary	Oligocene	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Cretaceous	Upper	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Cretaceous	Middle	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Cretaceous	Lower	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Jurassic	Upper	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Jurassic	Middle	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Jurassic	Lower	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Triassic	Upper	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Triassic	Middle	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Triassic	Lower	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Permian	Upper	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Permian	Middle	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
Permian	Lower	Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites
		Shahr-e Khameneh	Clastics and Evaporites

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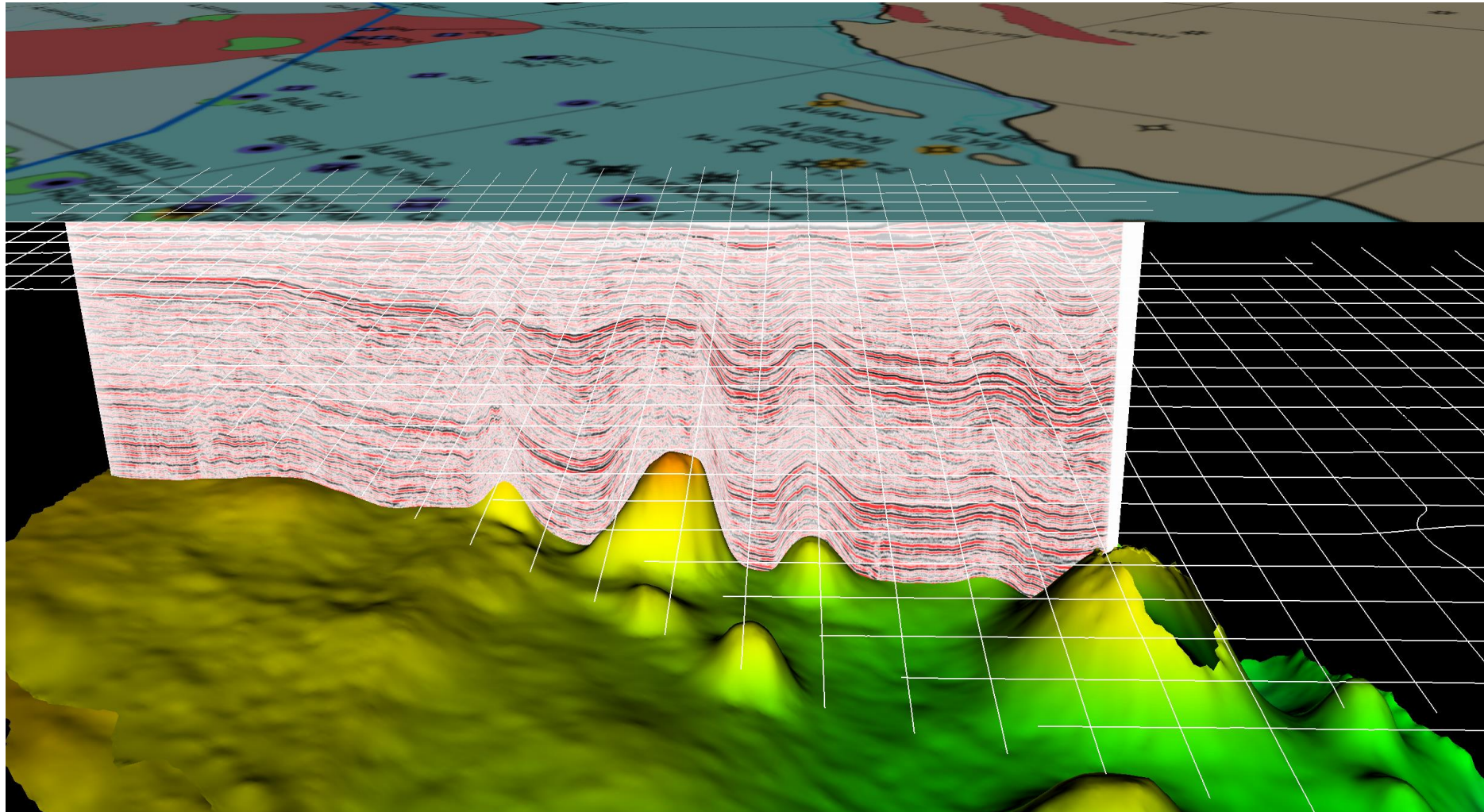
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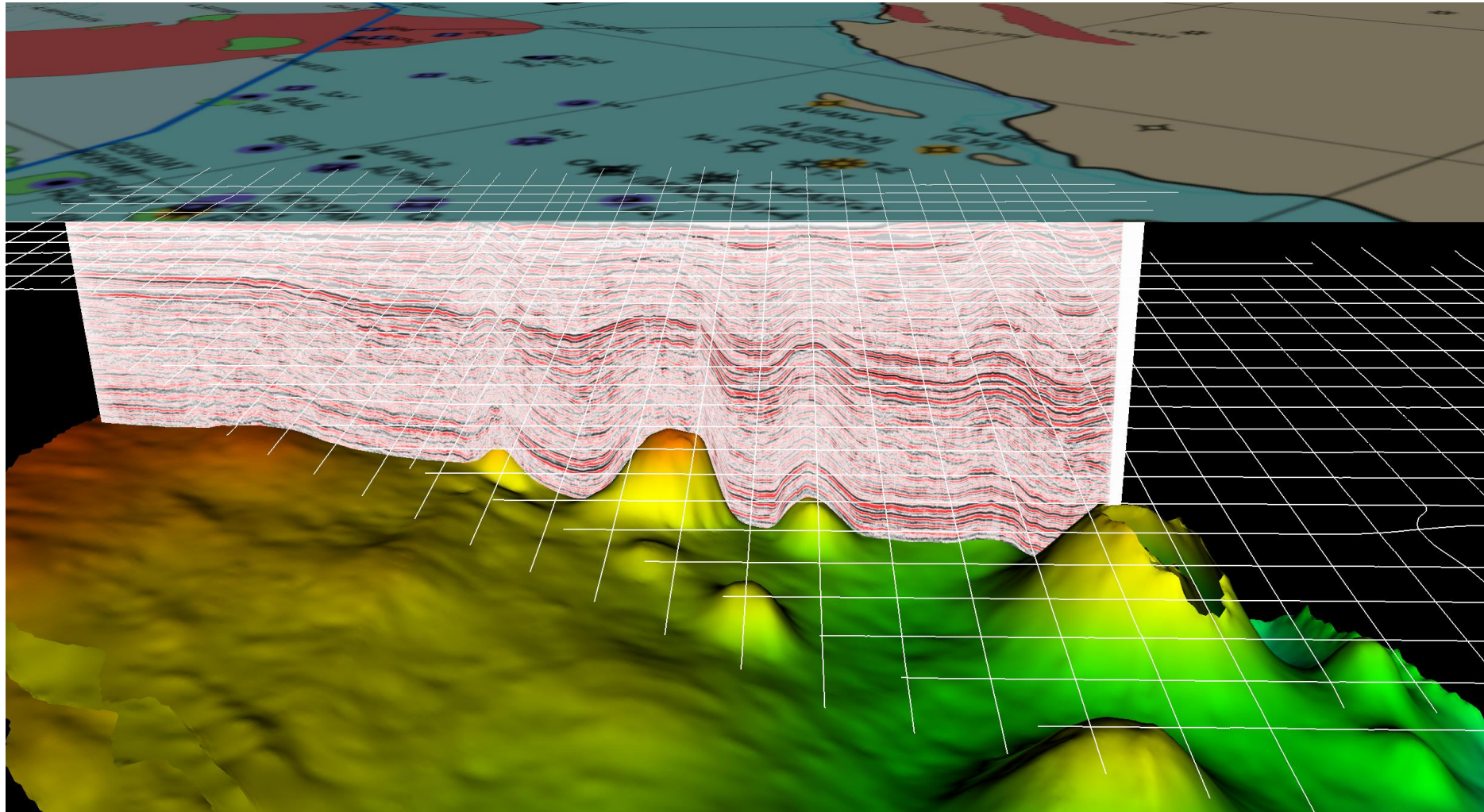
SUR

.. what to go for in the Persian Gulf The tour (Central)



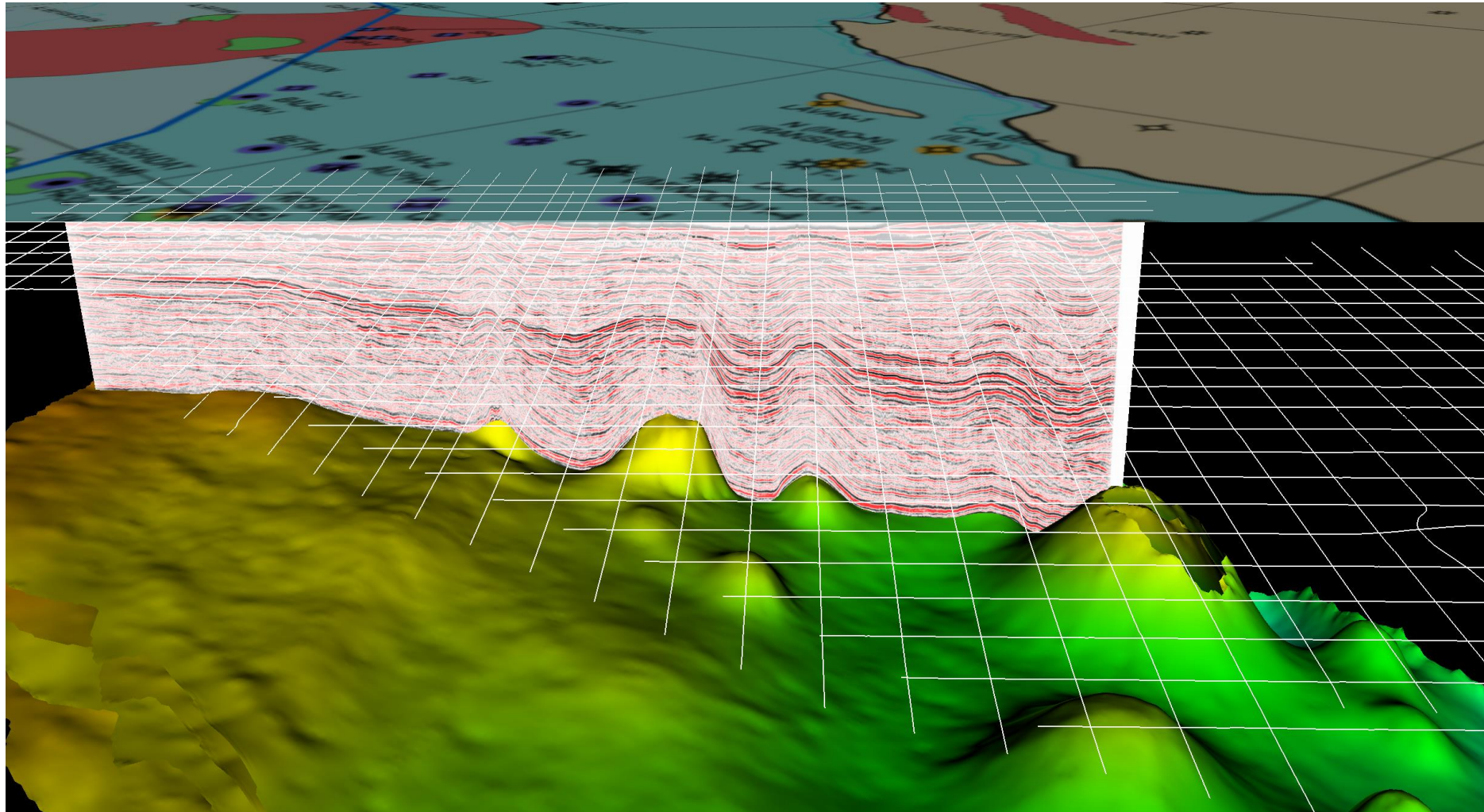
NT Hith
(Surmeh below)

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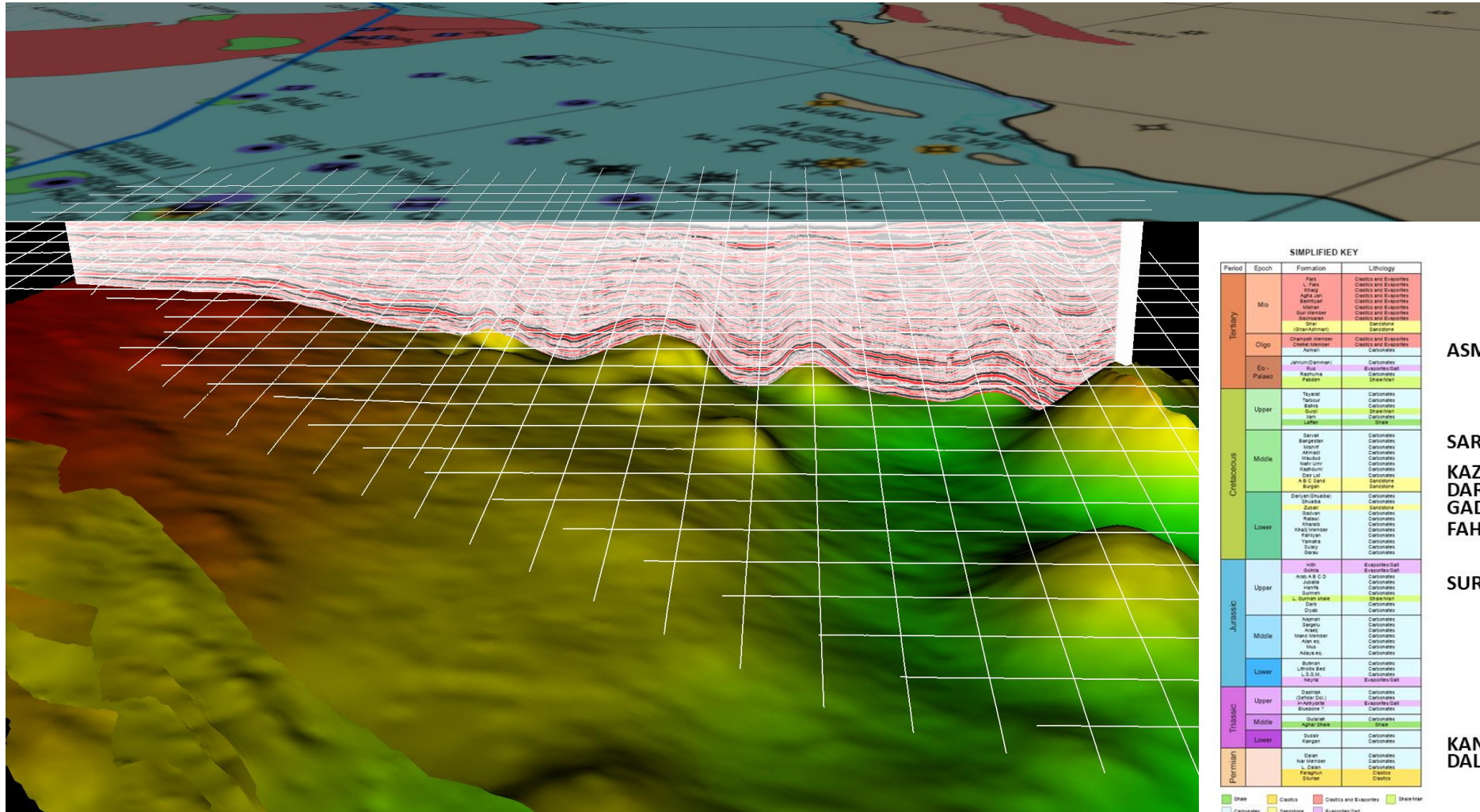
NT Dariyan
(Dariyan, Gadvan, Fahliyan
below)

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Turonian UC
(Sarvak below)

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Oligocene UC
(Asmari just above)

SIMPLIFIED KEY			
Period	Epoch	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Chah	Clastics and Evaporites
		Hammar	Clastics and Evaporites
		Qatar	Clastics and Evaporites
Tertiary	Oligocene	Chah	Clastics and Evaporites
		Hammar	Clastics and Evaporites
		Qatar	Clastics and Evaporites
		Chah	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Chah	Clastics and Evaporites
		Hammar	Clastics and Evaporites
		Qatar	Clastics and Evaporites
		Chah	Clastics and Evaporites
Cretaceous	Upper	Turkey	Carbonates
		Turkey	Carbonates
		Turkey	Carbonates
		Turkey	Carbonates
	Middle	Bahari	Carbonates
		Bahari	Carbonates
		Bahari	Carbonates
		Bahari	Carbonates
	Lower	Bahari	Carbonates
		Bahari	Carbonates
		Bahari	Carbonates
		Bahari	Carbonates
Jurassic	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Upper	Asmari	Carbonates
		Asmari	Carbonates
	Lower	Asmari	Carbonates
		Asmari	Carbonates
Permian	Lower	Asmari	Carbonates
		Asmari	Carbonates

ASM

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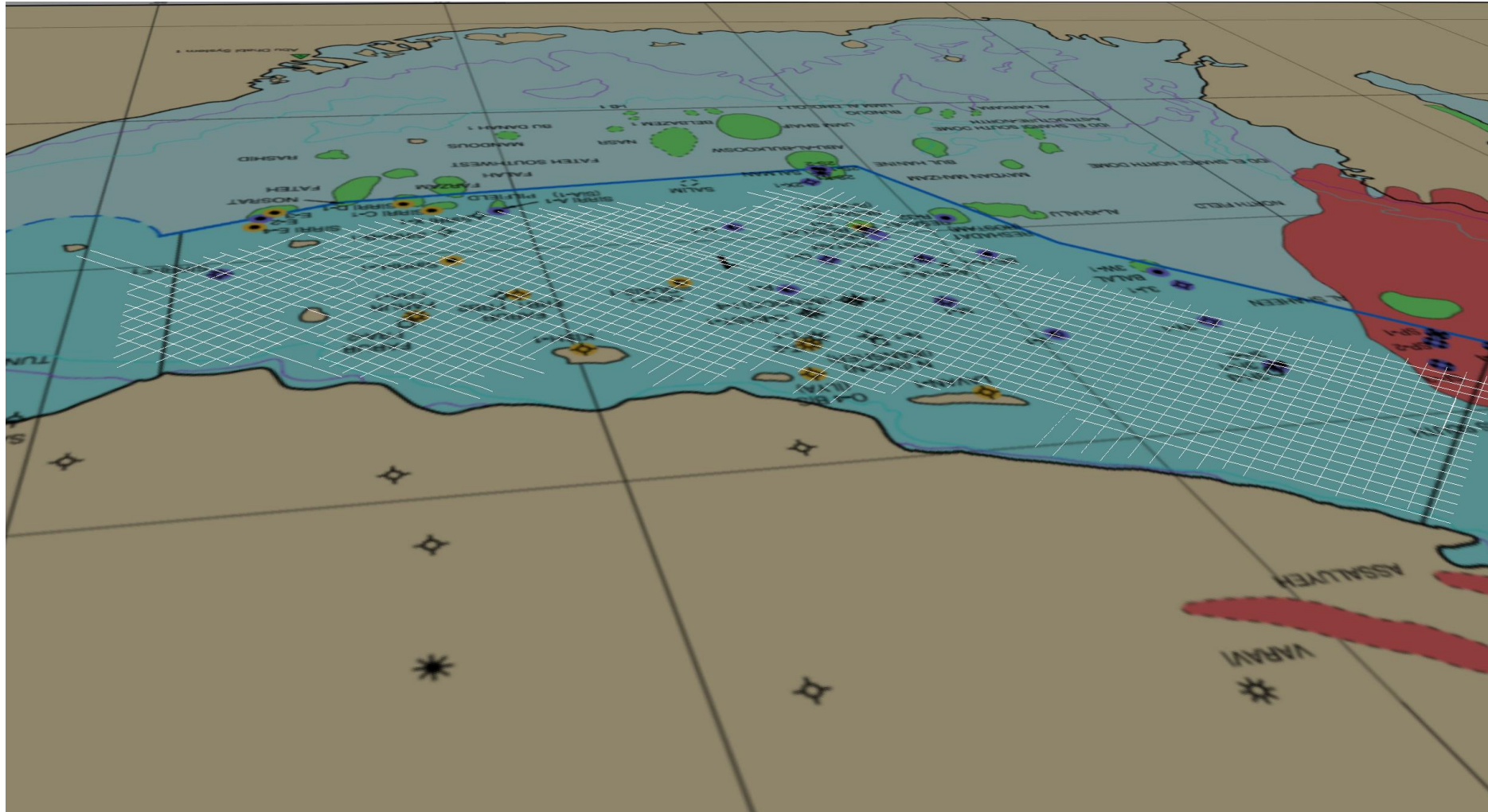
FAH

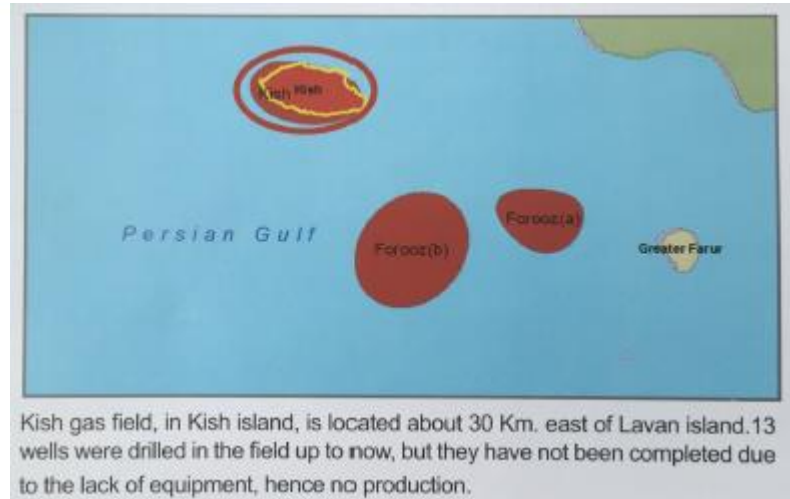
SUR

KAN

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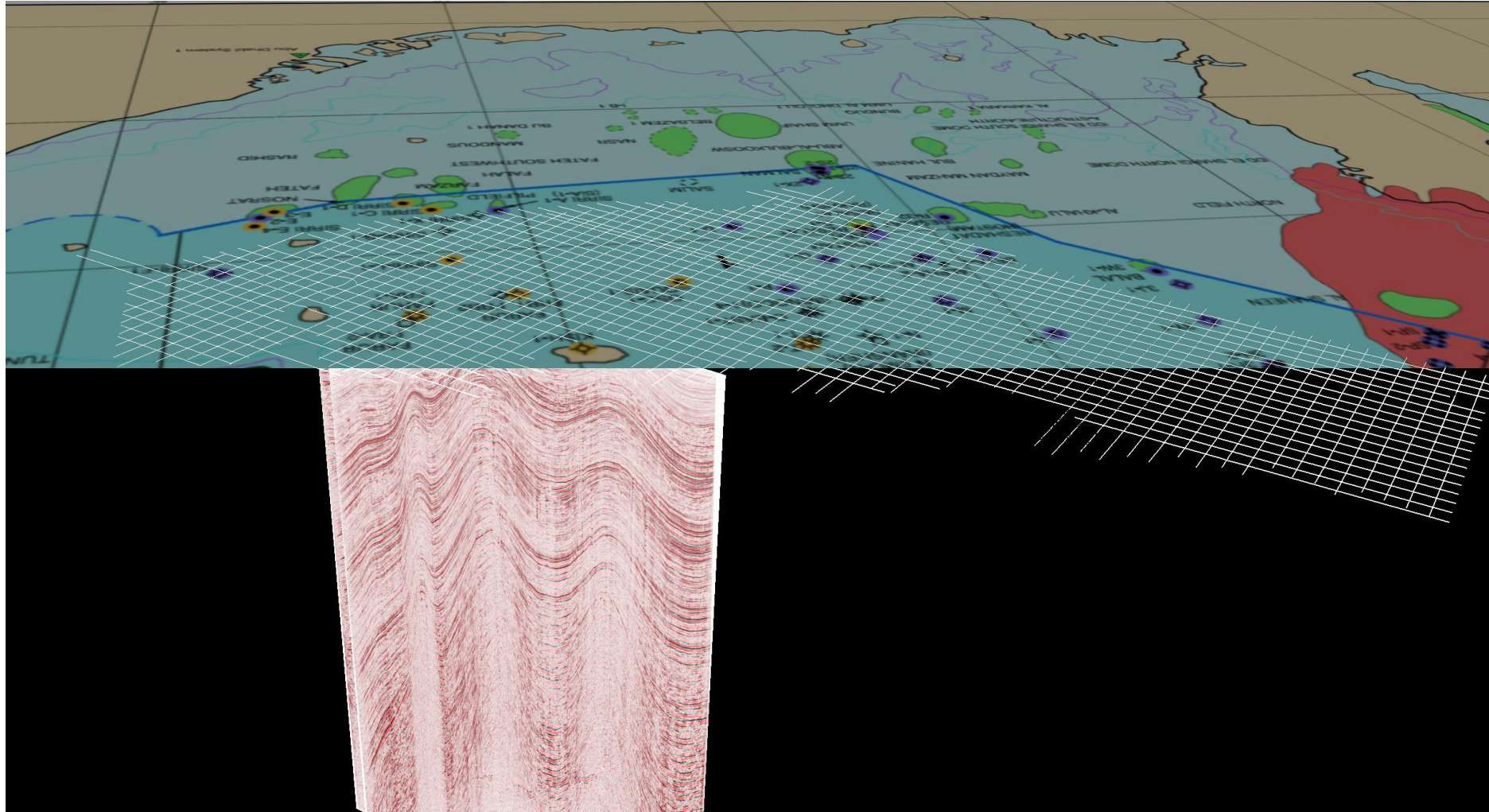
Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H2S
year	year	kmxkm				STB/MMSCF	ppm
2003	N/A	32x25	2D	13	Kangan/Dalan	4.2-11.3	70-200

Kish Gas

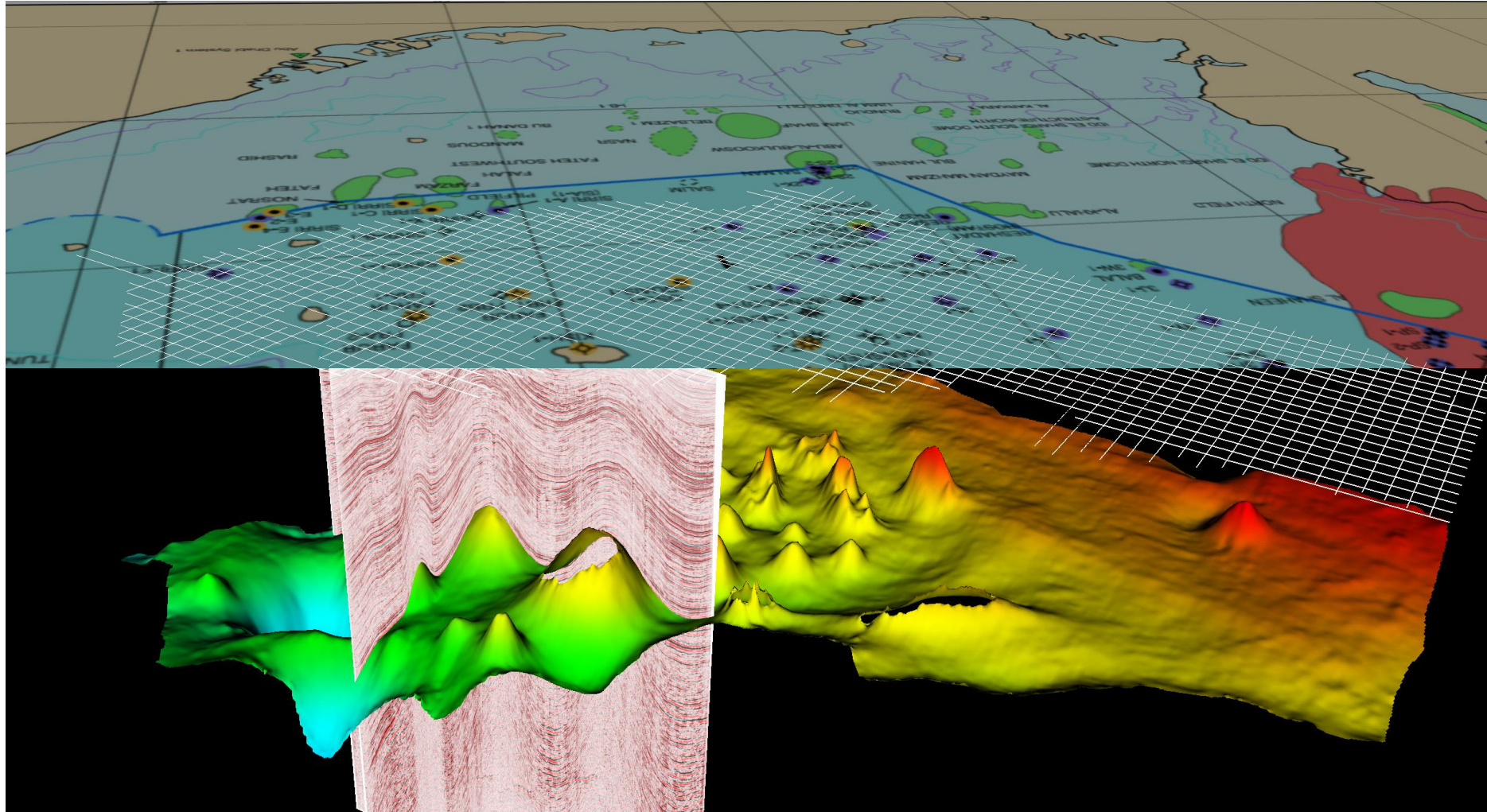
Field	OGIP	Cumulative Production (Up to now)	Current Production	Planned Production
	10 ⁹ SCF	10 ⁹ SCF	10 ⁶ SCF/d	10 ⁶ SCF/d
Kish	55000	0	0	3000



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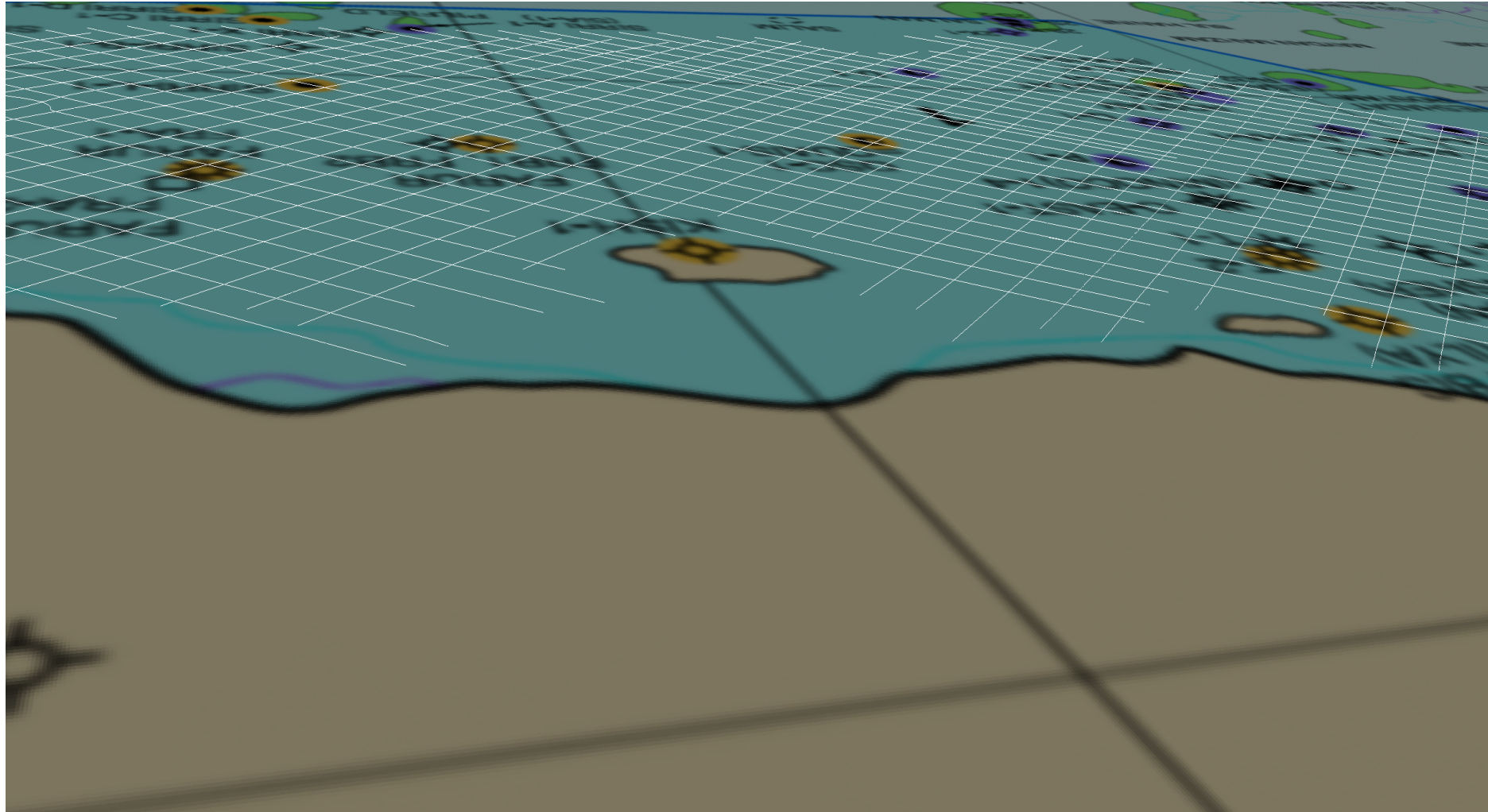


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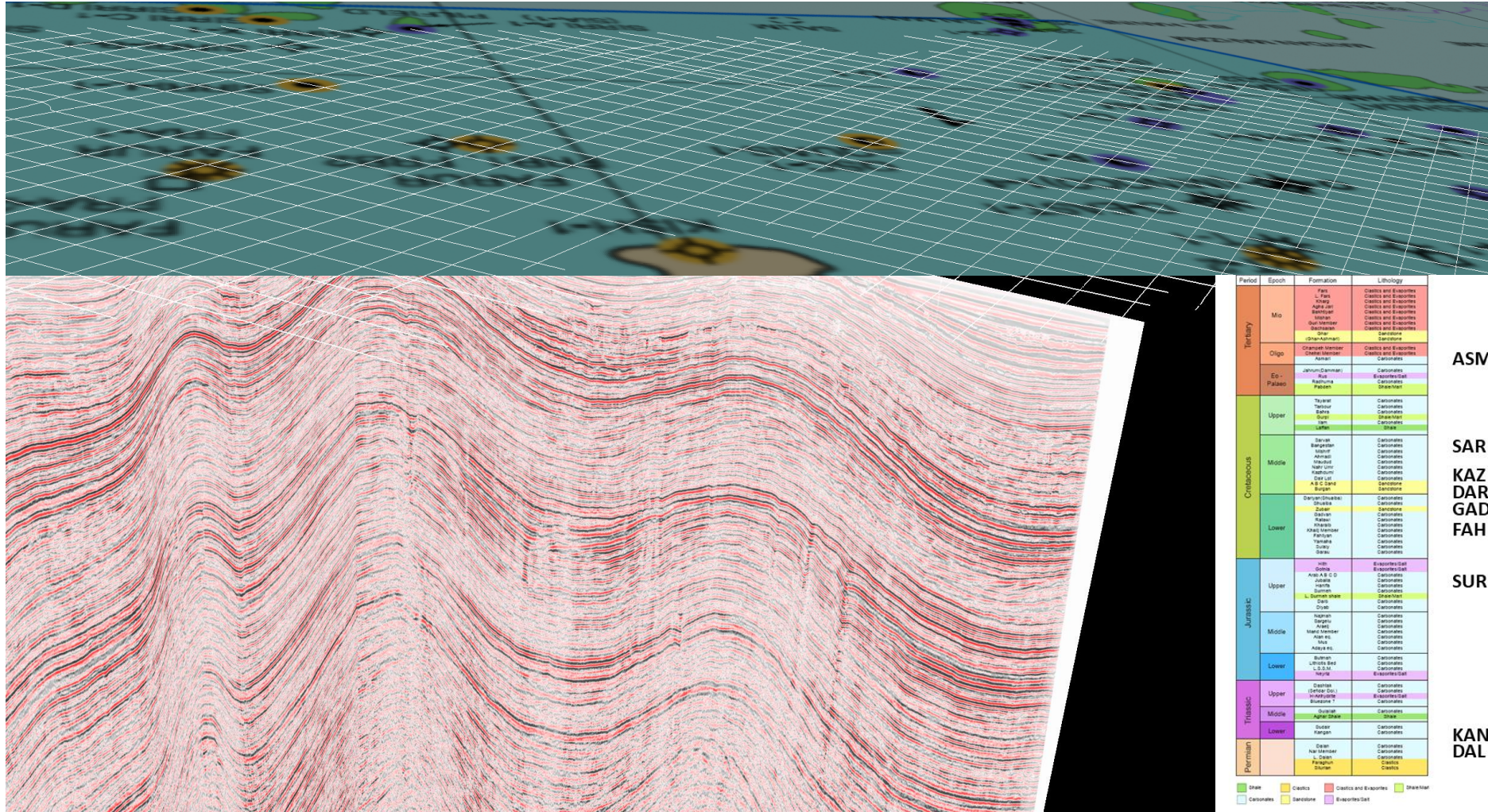


NT Khuff
(Kangan, Dalan below)

.. what to go for in the Persian Gulf The tour (Central)



.. what to go for in the Persian Gulf The tour (Central)



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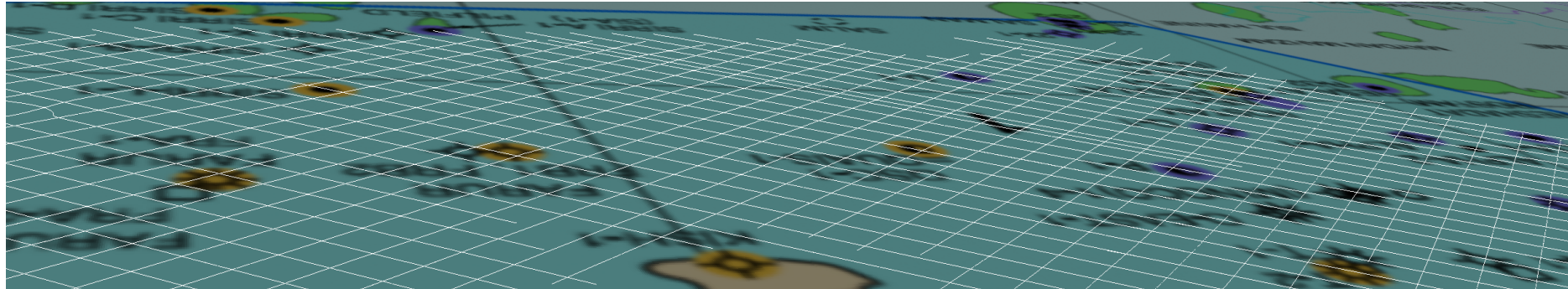
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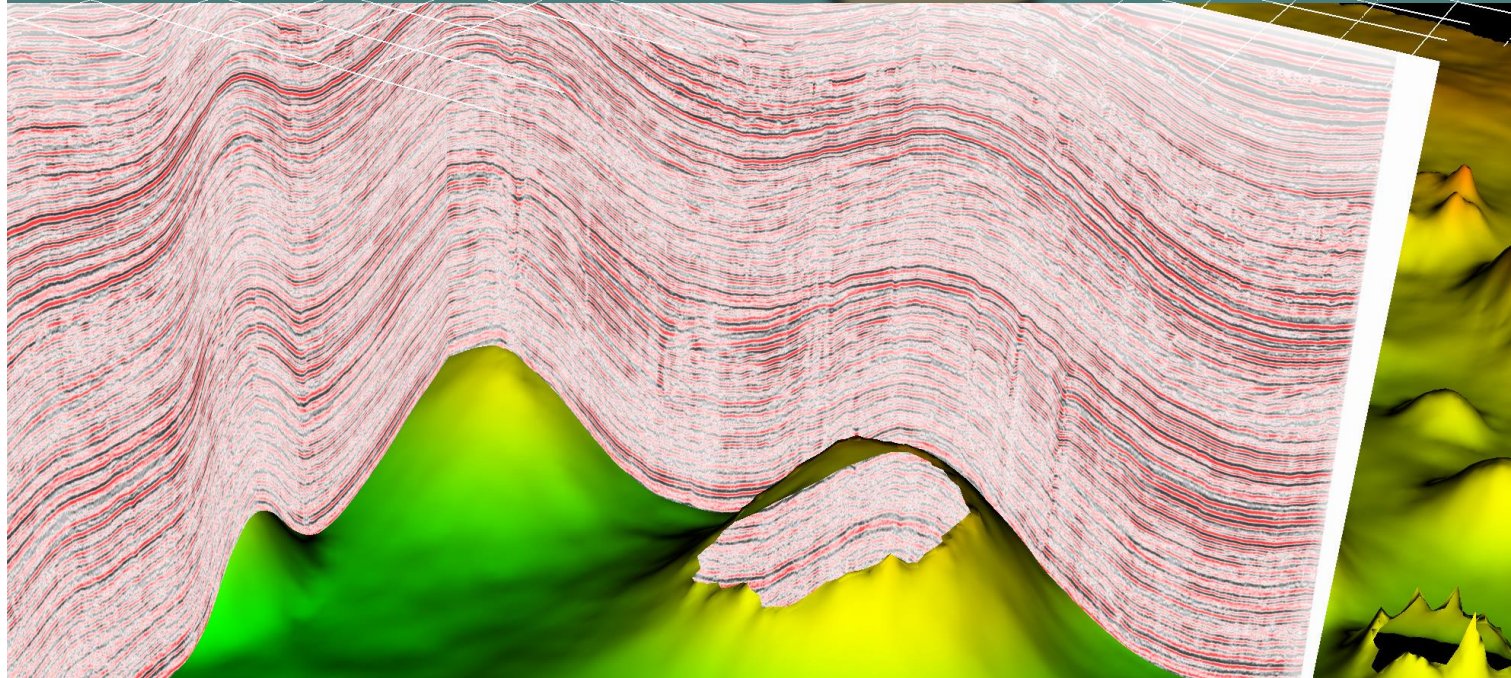
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.. what to go for in the Persian Gulf The tour (Central)



NT Khuff
(Kangan, Dalan below)



Period	Eon	Formation	Lithology
Tertiary	Eocene	Fast	Clastics and Evaporites
		Kharg	Clastics and Evaporites
	Miocene	Kharg	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites

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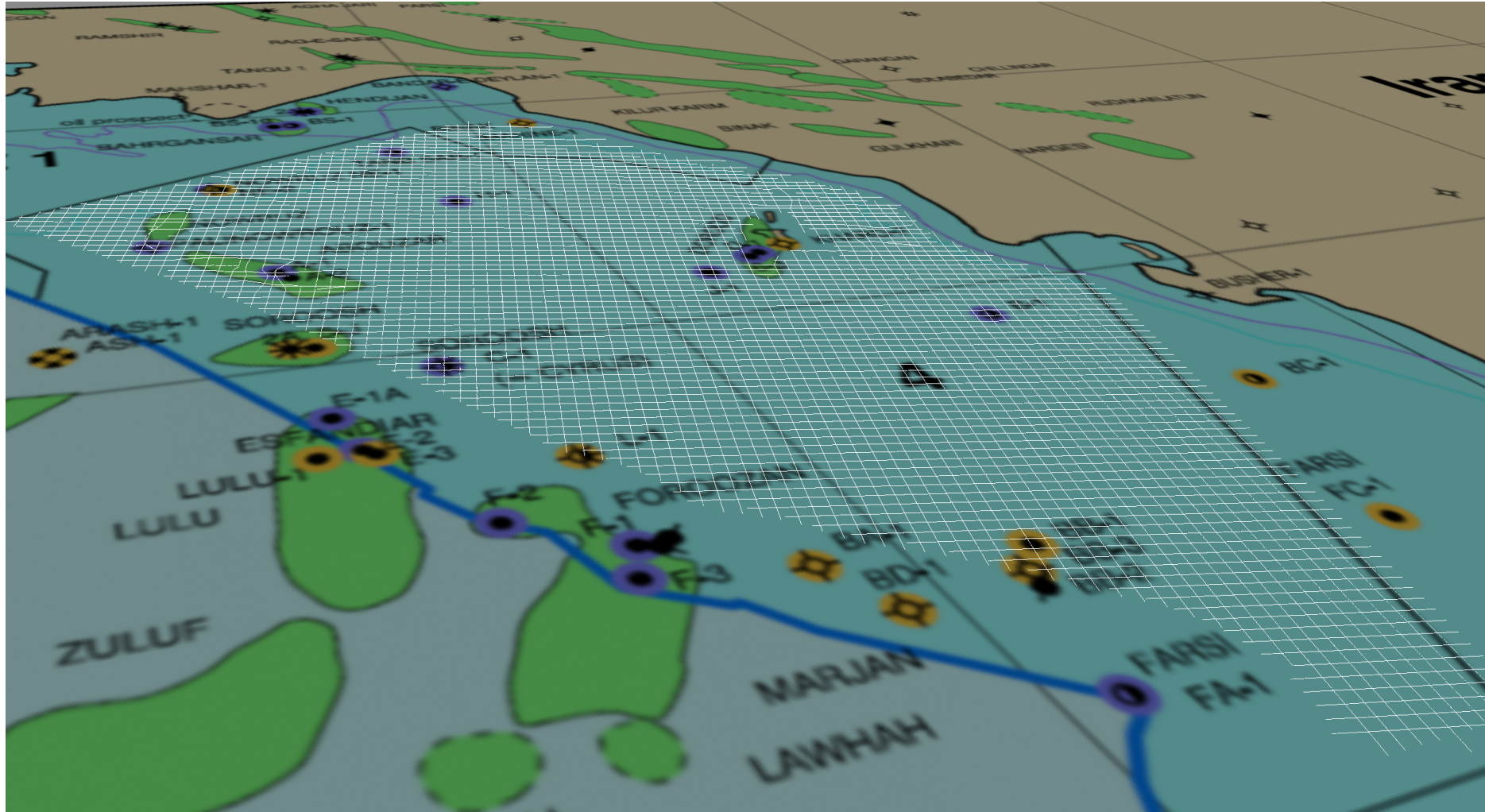
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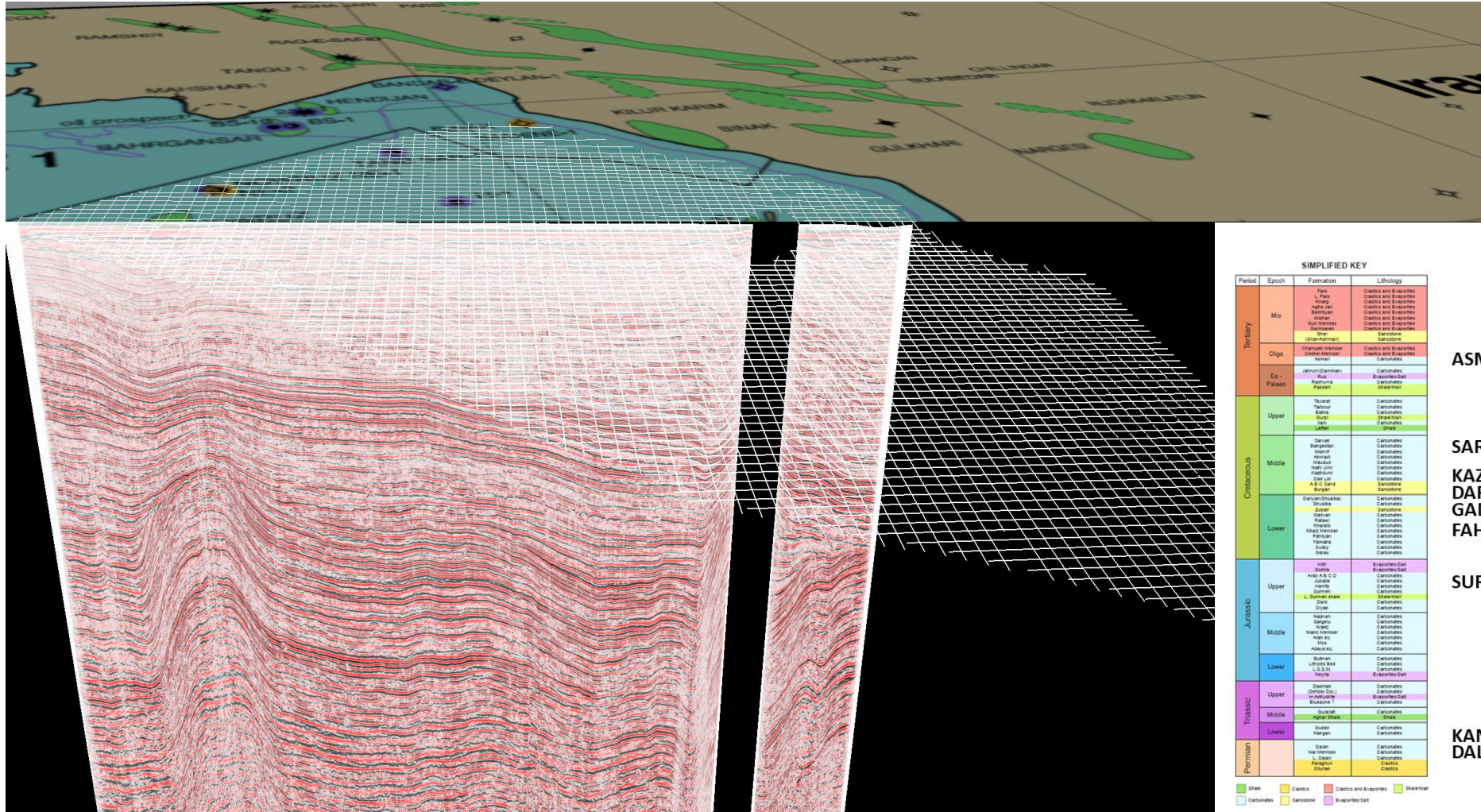


Nowrooz



Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
1966	1971	20x5	3D	35 (21 Prod.)	Burgan Khalij Shoeyba Yamama	20.5 18 20 30
Field	STOIP	Cumulative Production		Current Production	Total Estimated Production	
	MMBbl	MMBbl		MBbl/d	MBbl/d	
Norooz	4201	276		28	To be proposed by contractor	

.. what to go for in the Persian Gulf The tour (North)



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Miocene	Pat	Clastics and Evaporites
		Arak	Clastics and Evaporites
		Arak (2)	Clastics and Evaporites
		Bahari	Clastics and Evaporites
Tertiary	Oligocene	Qasbi	Clastics and Evaporites
		Qasbi (2)	Clastics and Evaporites
		Qasbi (3)	Clastics and Evaporites
		Qasbi (4)	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Al-Jubayl (Damman)	Carbonates
		Ras	Carbonates
		Ras	Carbonates
		Ras	Carbonates
Cretaceous	Upper	Tayari	Carbonates
		Tayari	Carbonates
		Tayari	Carbonates
		Tayari	Carbonates
Cretaceous	Middle	Sarraf	Carbonates
		Sarraf	Carbonates
		Sarraf	Carbonates
		Sarraf	Carbonates
Cretaceous	Lower	Darab	Carbonates
		Darab	Carbonates
		Darab	Carbonates
		Darab	Carbonates
Jurassic	Upper	Al-Jubayl (2)	Carbonates
		Al-Jubayl (2)	Carbonates
		Al-Jubayl (2)	Carbonates
		Al-Jubayl (2)	Carbonates
Jurassic	Middle	Al-Jubayl (3)	Carbonates
		Al-Jubayl (3)	Carbonates
		Al-Jubayl (3)	Carbonates
		Al-Jubayl (3)	Carbonates
Jurassic	Lower	Al-Jubayl (4)	Carbonates
		Al-Jubayl (4)	Carbonates
		Al-Jubayl (4)	Carbonates
		Al-Jubayl (4)	Carbonates
Triassic	Upper	Al-Jubayl (5)	Carbonates
		Al-Jubayl (5)	Carbonates
		Al-Jubayl (5)	Carbonates
		Al-Jubayl (5)	Carbonates
Triassic	Middle	Al-Jubayl (6)	Carbonates
		Al-Jubayl (6)	Carbonates
		Al-Jubayl (6)	Carbonates
		Al-Jubayl (6)	Carbonates
Triassic	Lower	Al-Jubayl (7)	Carbonates
		Al-Jubayl (7)	Carbonates
		Al-Jubayl (7)	Carbonates
		Al-Jubayl (7)	Carbonates
Permian	Upper	Al-Jubayl (8)	Carbonates
		Al-Jubayl (8)	Carbonates
		Al-Jubayl (8)	Carbonates
		Al-Jubayl (8)	Carbonates
Permian	Middle	Al-Jubayl (9)	Carbonates
		Al-Jubayl (9)	Carbonates
		Al-Jubayl (9)	Carbonates
		Al-Jubayl (9)	Carbonates
Permian	Lower	Al-Jubayl (10)	Carbonates
		Al-Jubayl (10)	Carbonates
		Al-Jubayl (10)	Carbonates
		Al-Jubayl (10)	Carbonates

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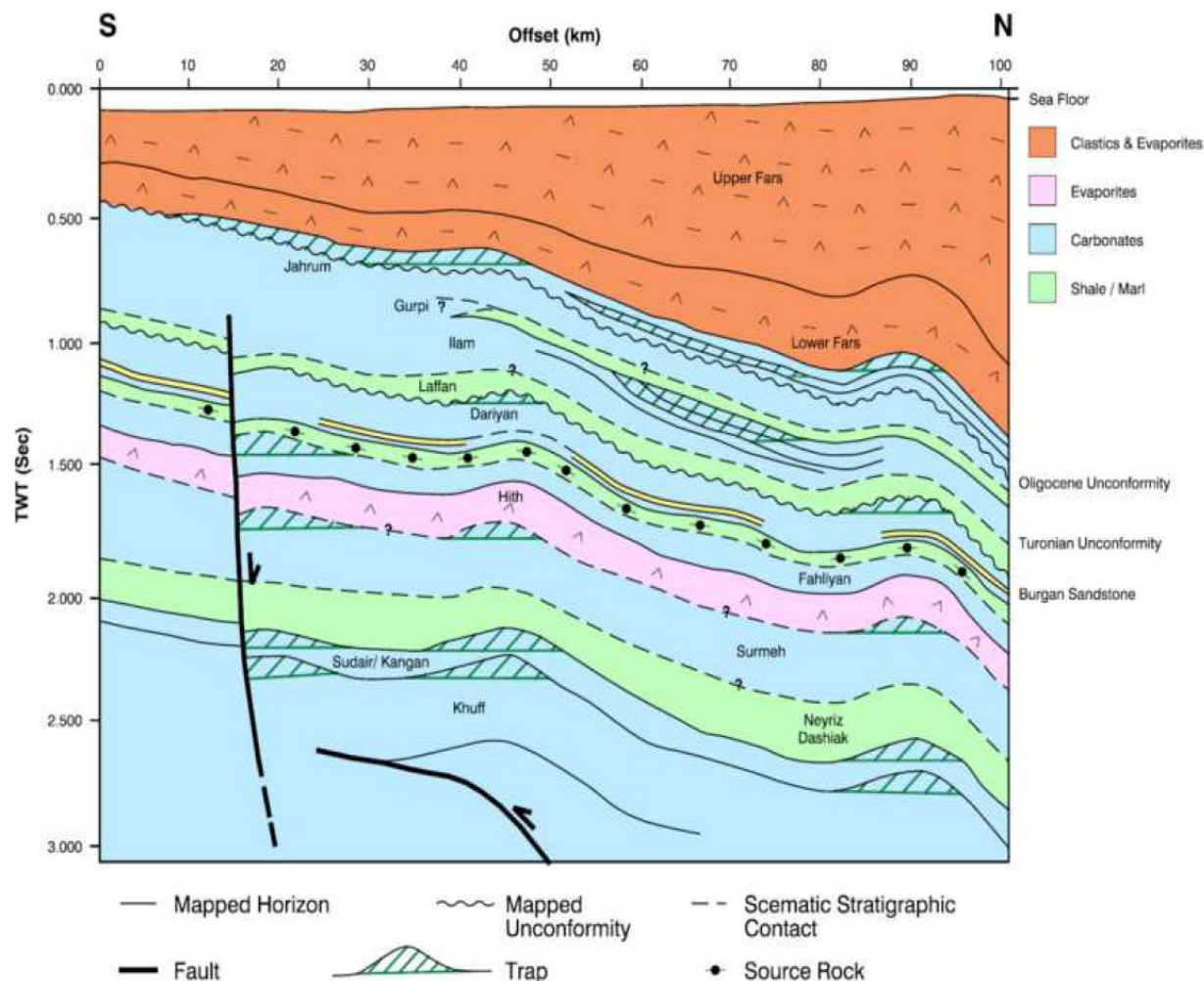
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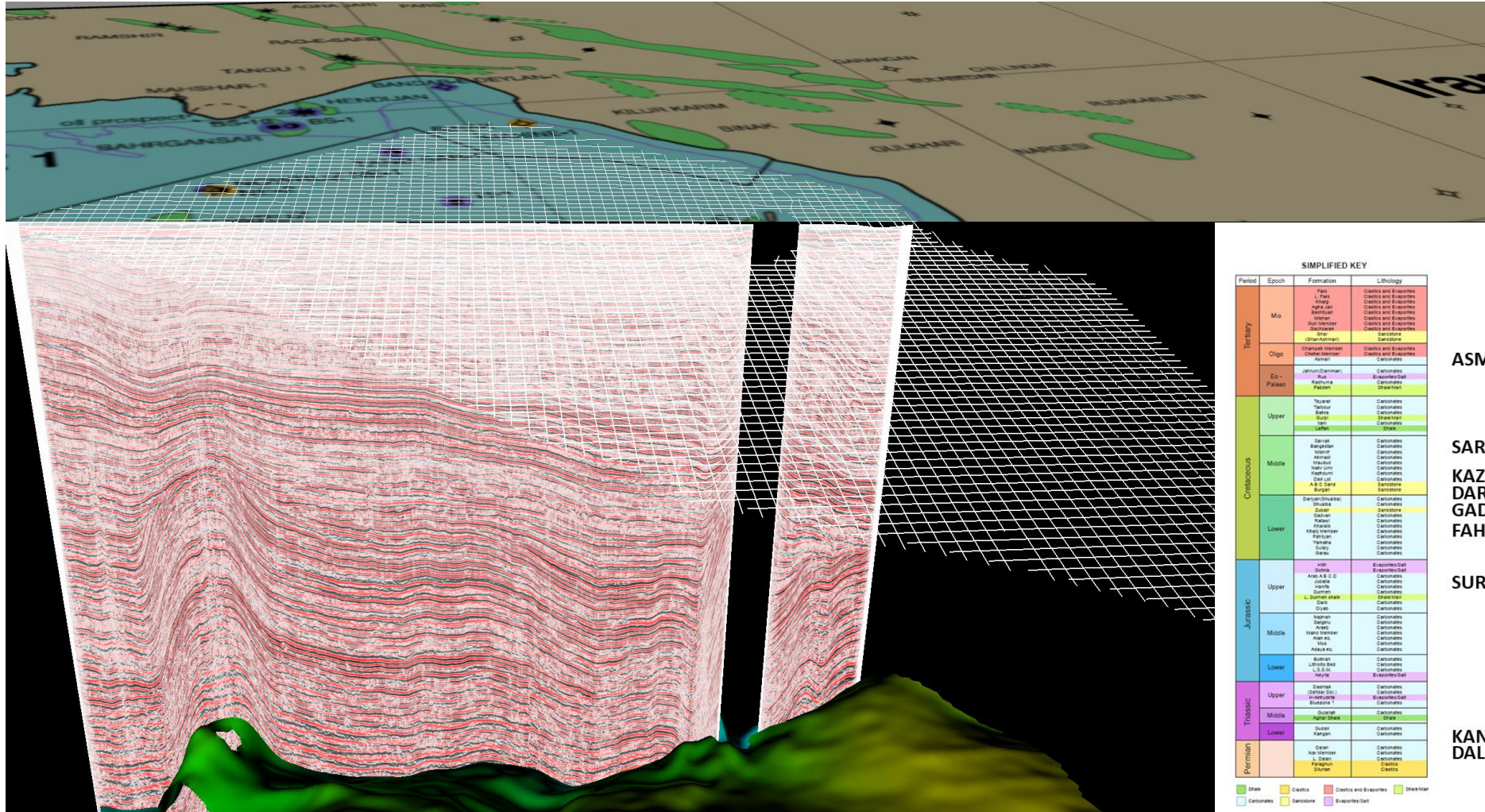
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.. what to go for in the Persian Gulf The tour (North)



- Post-Turonian Unconformity (pre-Gurpi Shale)
 - Pinch-out plays of the Asmari Fm. on structural highs. The structural highs define mostly four-way dip closures, but the trap might be situated on the flank of structural culmination.
 - Bedding structure of prograding Jahrum Fm. offers possibility for stratigraphic traps.
- Turonian Unconformity – Base Cretaceous (Top Hith Evaporite)
 - Few structural closures on salt domes.
 - Additional potential when accounting for fault closure.
- Jurassic and older
 - As above

.. what to go for in the Persian Gulf The tour (North)



NT Sudair
(Kangan, Dalan below)

SIMPLIFIED KEY			
Period	Epoth	Formation	Lithology
Tertiary	Miocene	Pas	Clastics and Evaporites
		Arang	Clastics and Evaporites
		Arghaj	Clastics and Evaporites
		Bahari	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Tertiary	Oligocene	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Cretaceous	Upper	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Cretaceous	Middle	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Cretaceous	Lower	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Jurassic	Upper	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Jurassic	Middle	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Jurassic	Lower	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Triassic	Upper	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Triassic	Middle	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Triassic	Lower	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Permian	Upper	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Permian	Middle	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
Permian	Lower	Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites
		Qasr	Clastics and Evaporites

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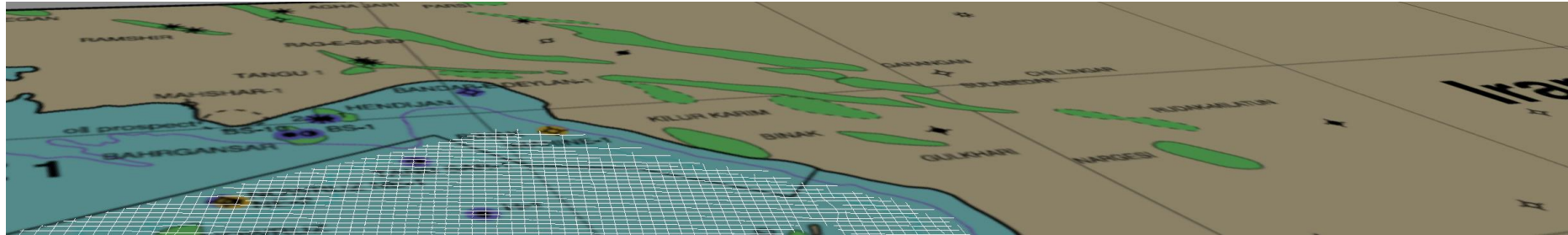
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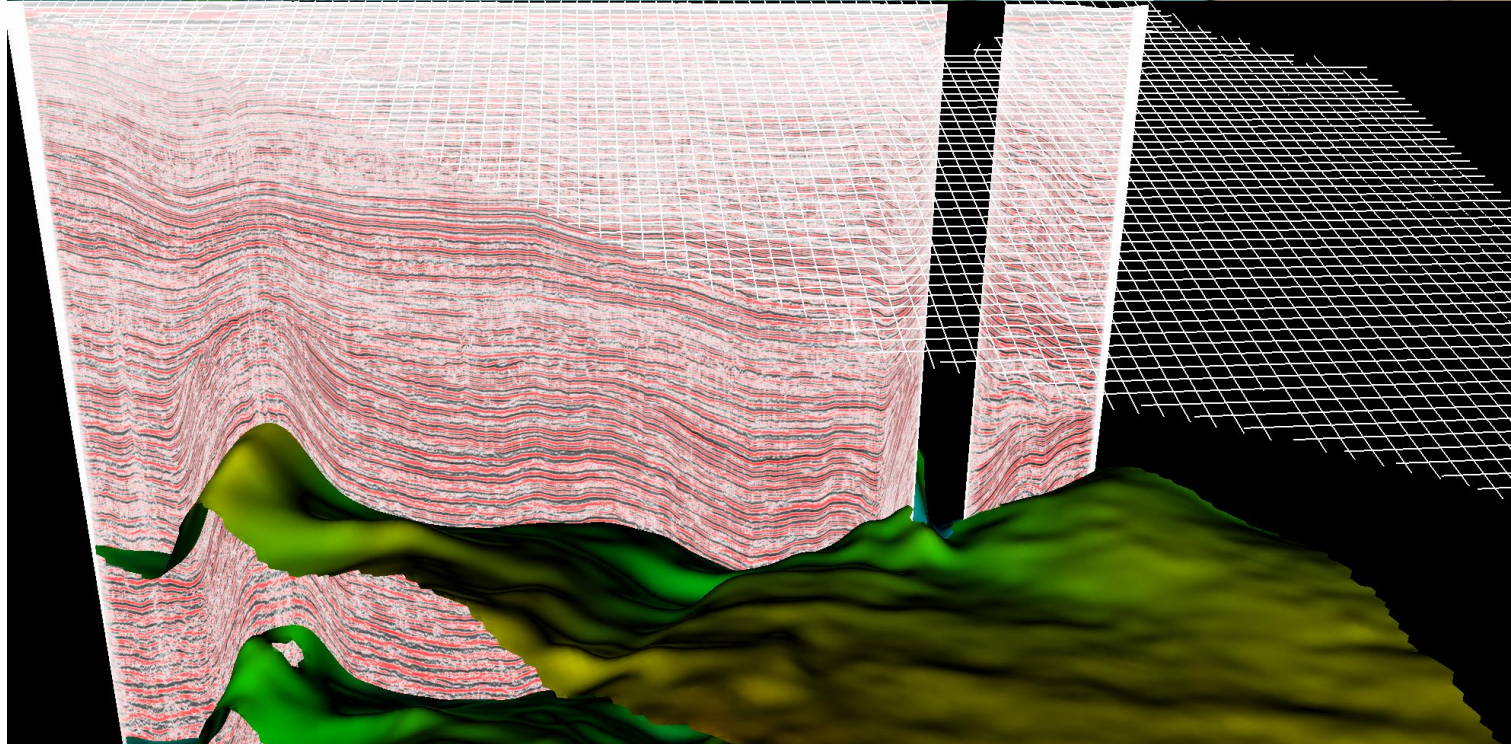
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.. what to go for in the Persian Gulf The tour (North)



NT Hith
(Surmeh below)



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Mi	Pass	Clastics and Evaporites
		Arzang	Clastics and Evaporites
		Agah Jari	Clastics and Evaporites
		Bahariyat	Clastics and Evaporites
Tertiary	Oligo	Qasr Namdar	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		(Shahrakham)	Sandstone
		Chaharmahal	Clastics and Evaporites
Tertiary	Eo-Paleo	Aluminum (Damman)	Carbonates
		Rus	Evaporites/Dal
		Kapshina	Carbonates
		Pasden	Carbonates
Cretaceous	Upper	Tayari	Carbonates
		Tayari	Carbonates
		Bahar	Carbonates
		Shahrak	Carbonates
Cretaceous	Middle	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Cretaceous	Lower	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Jurassic	Upper	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Jurassic	Middle	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Jurassic	Lower	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Triassic	Upper	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Triassic	Middle	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
Permian	Lower	Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates
		Shahrak	Carbonates

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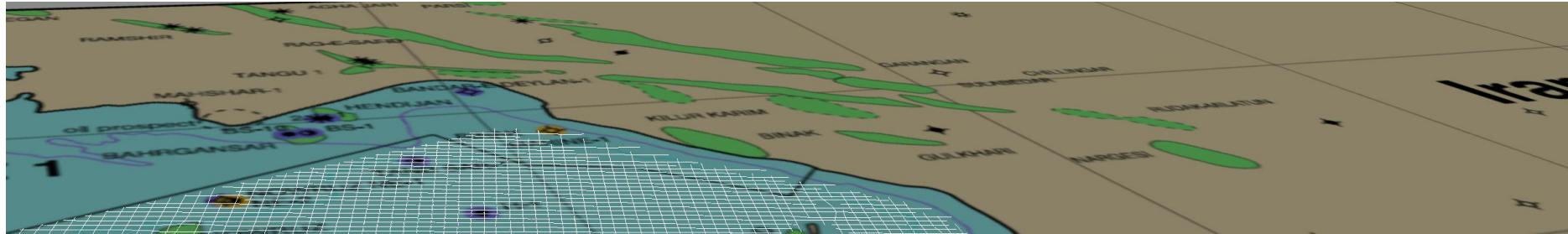
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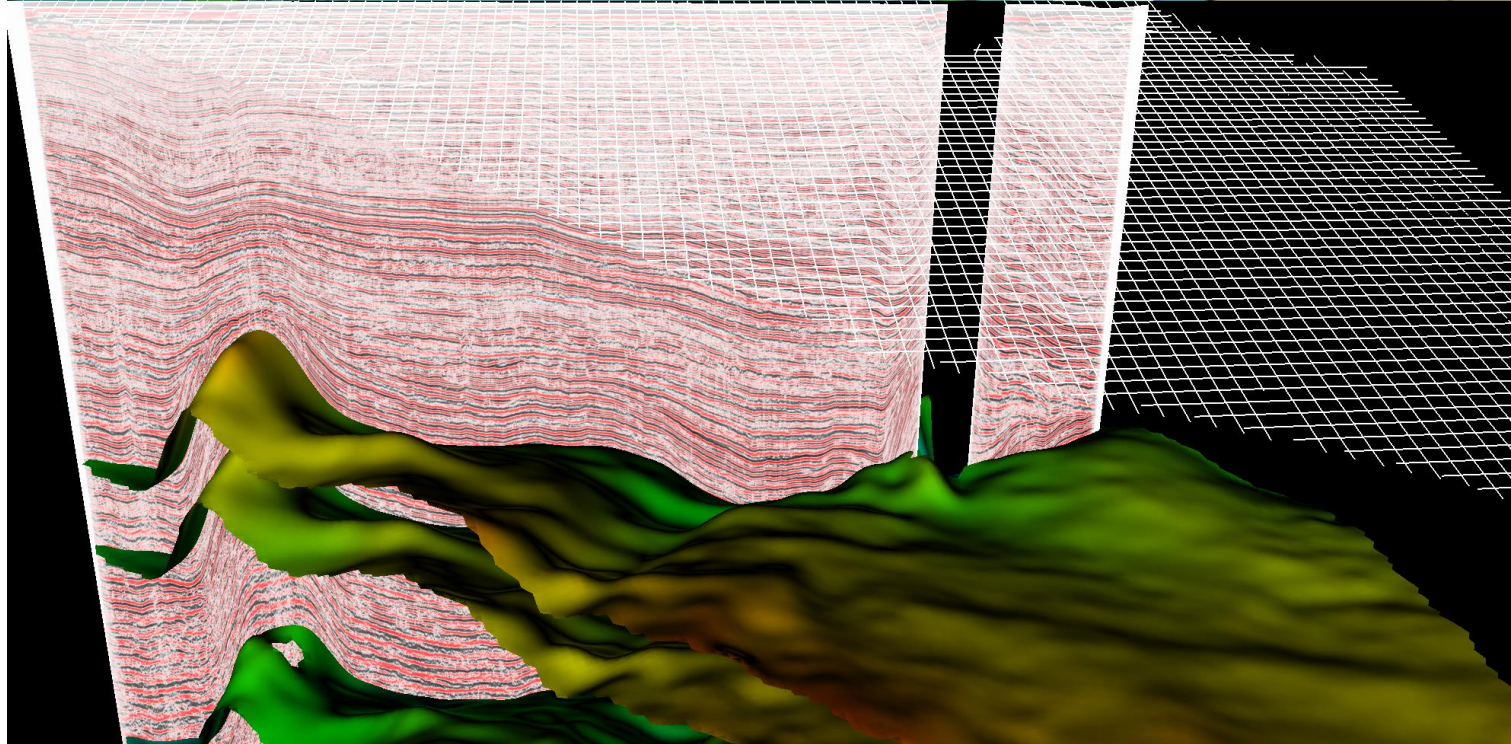
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.. what to go for in the Persian Gulf The tour (North)



NT Dariyan
(Dariyan, Gadvan, Fahliyan below)



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Miocene	Pass	Clastics and Evaporites
		Arang	Clastics and Evaporites
		Agah Jari	Clastics and Evaporites
		Bahari	Clastics and Evaporites
Tertiary	Oligocene	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Cretaceous	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Cretaceous	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Cretaceous	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Jurassic	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Jurassic	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Jurassic	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Triassic	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Triassic	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Triassic	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Permian	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Permian	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Permian	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites

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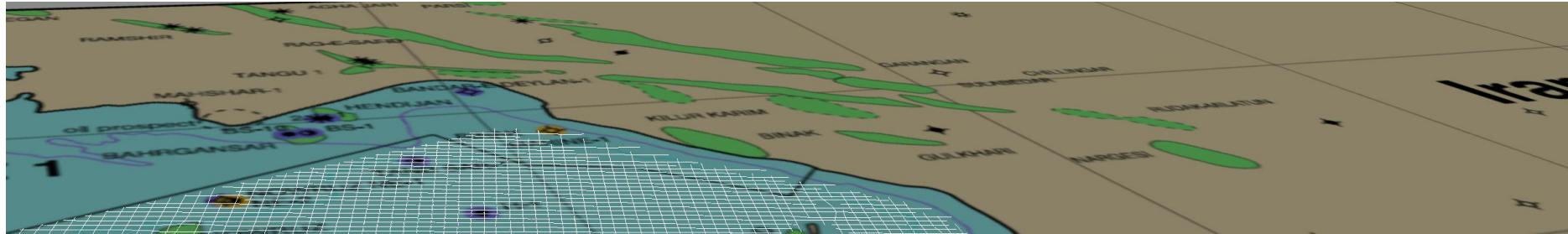
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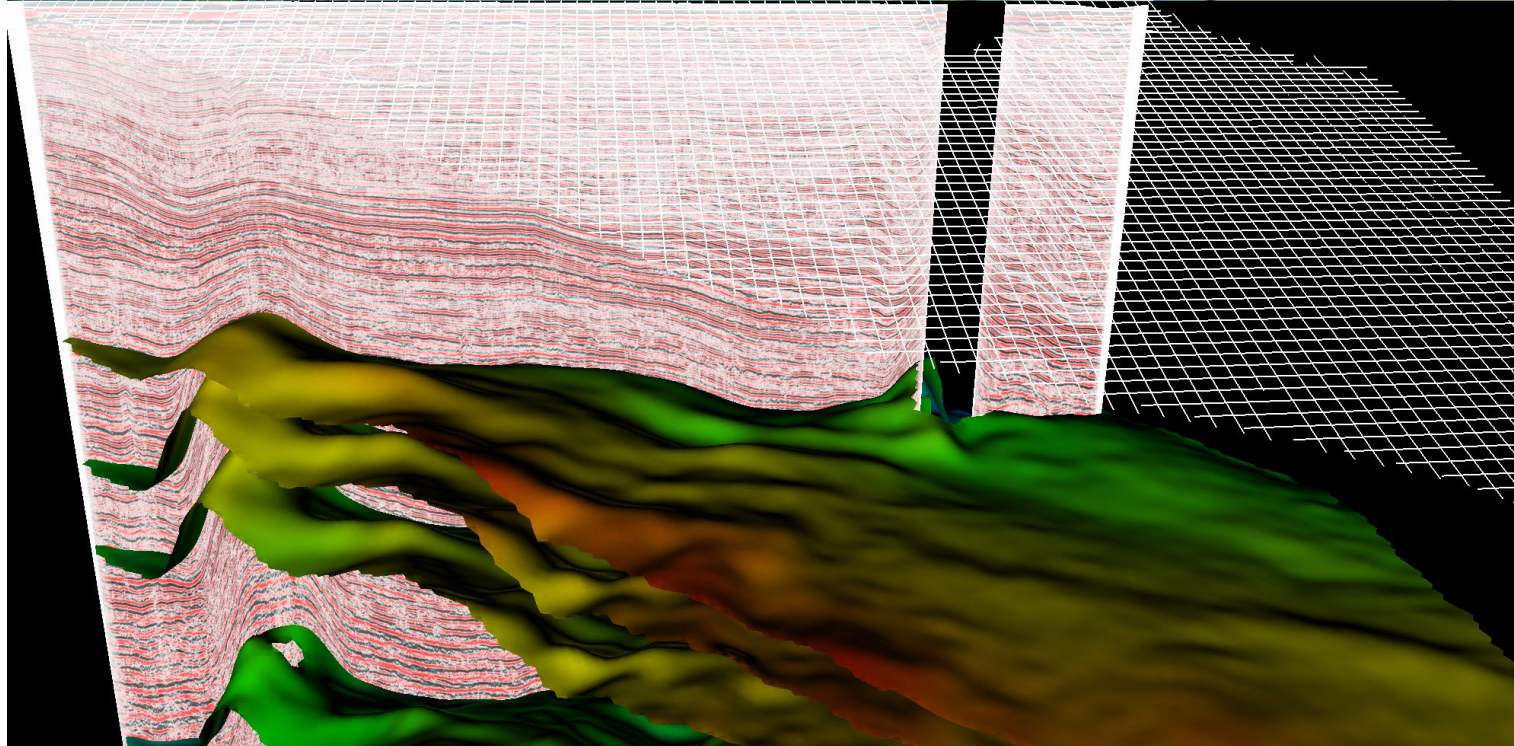
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Turonian UC
(Sarvak below)



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Miocene	Pass	Clastics and Evaporites
		Arzang	Clastics and Evaporites
		Agah Jari	Clastics and Evaporites
		Bahariyat	Clastics and Evaporites
Tertiary	Oligocene	Qasr Namdar	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Cretaceous	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Cretaceous	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Cretaceous	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Jurassic	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Jurassic	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Jurassic	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Triassic	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Triassic	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Triassic	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Permian	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Permian	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Permian	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites

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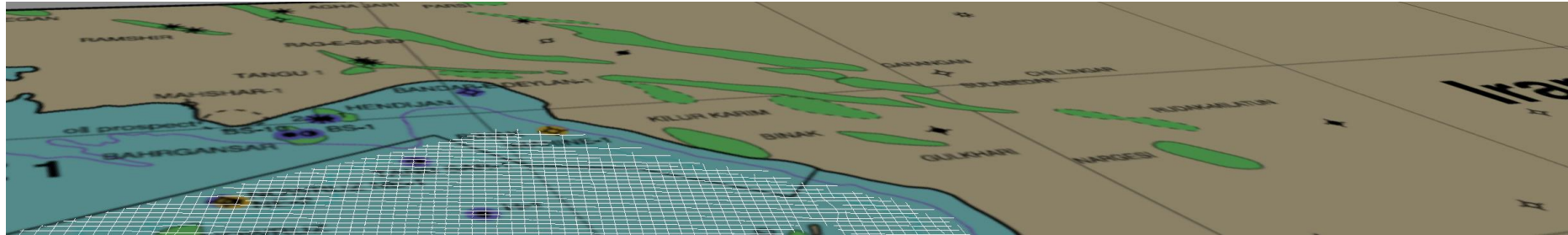
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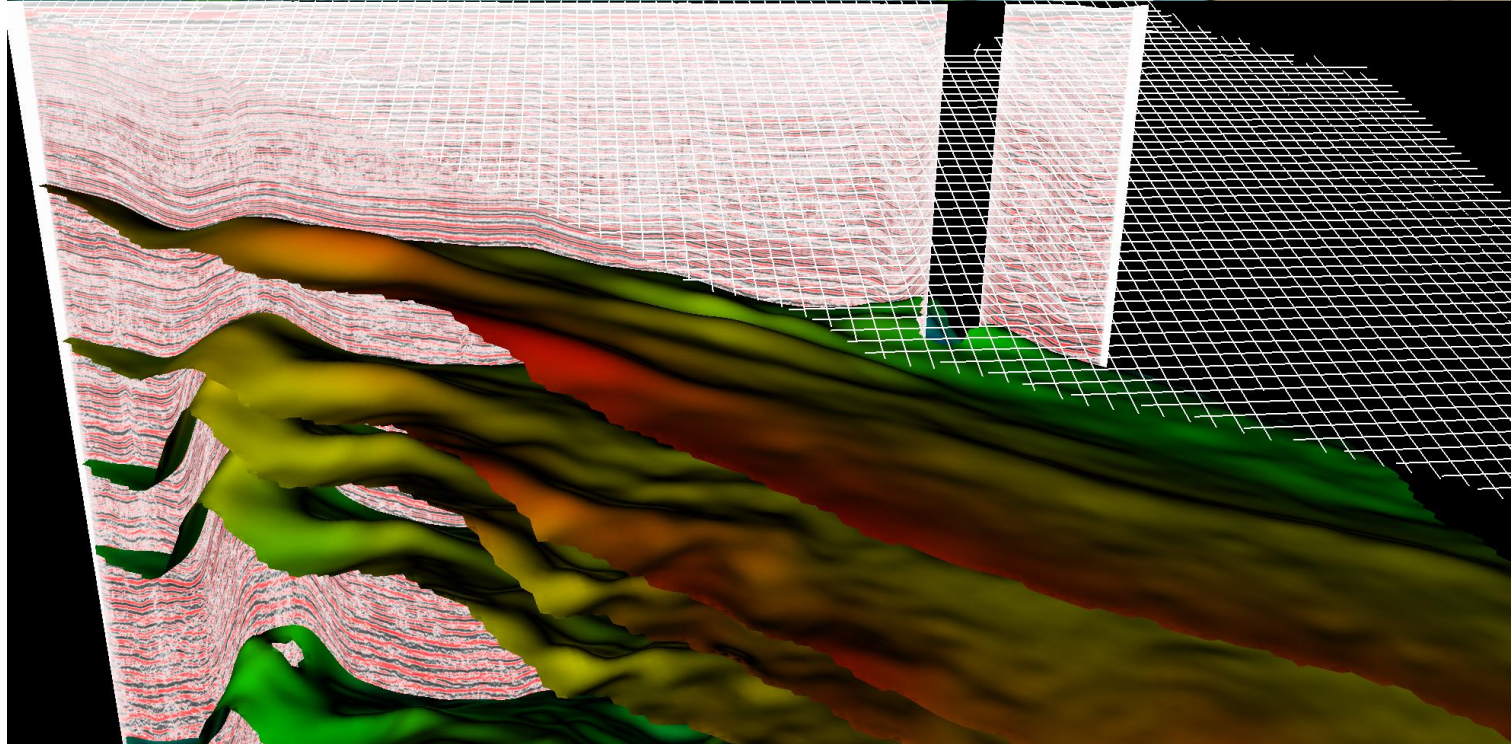
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Oligocene UC
(Asmari just above)



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Miocene	Par	Clastics and Evaporites
		Aray	Clastics and Evaporites
		Agah Jari	Clastics and Evaporites
		Bahari	Clastics and Evaporites
Oligocene	Oligo	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Cretaceous	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Cretaceous	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Cretaceous	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Jurassic	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Jurassic	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Jurassic	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Triassic	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Triassic	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Triassic	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Permian	Upper	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Permian	Middle	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
Permian	Lower	Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites
		Qasbi	Clastics and Evaporites

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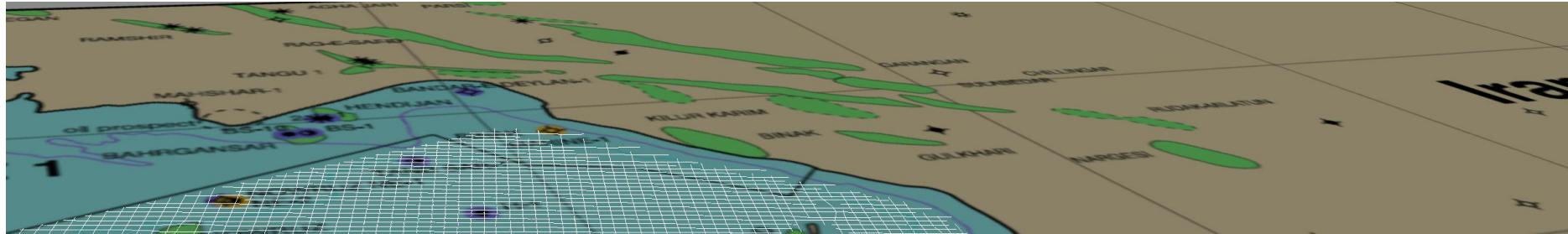
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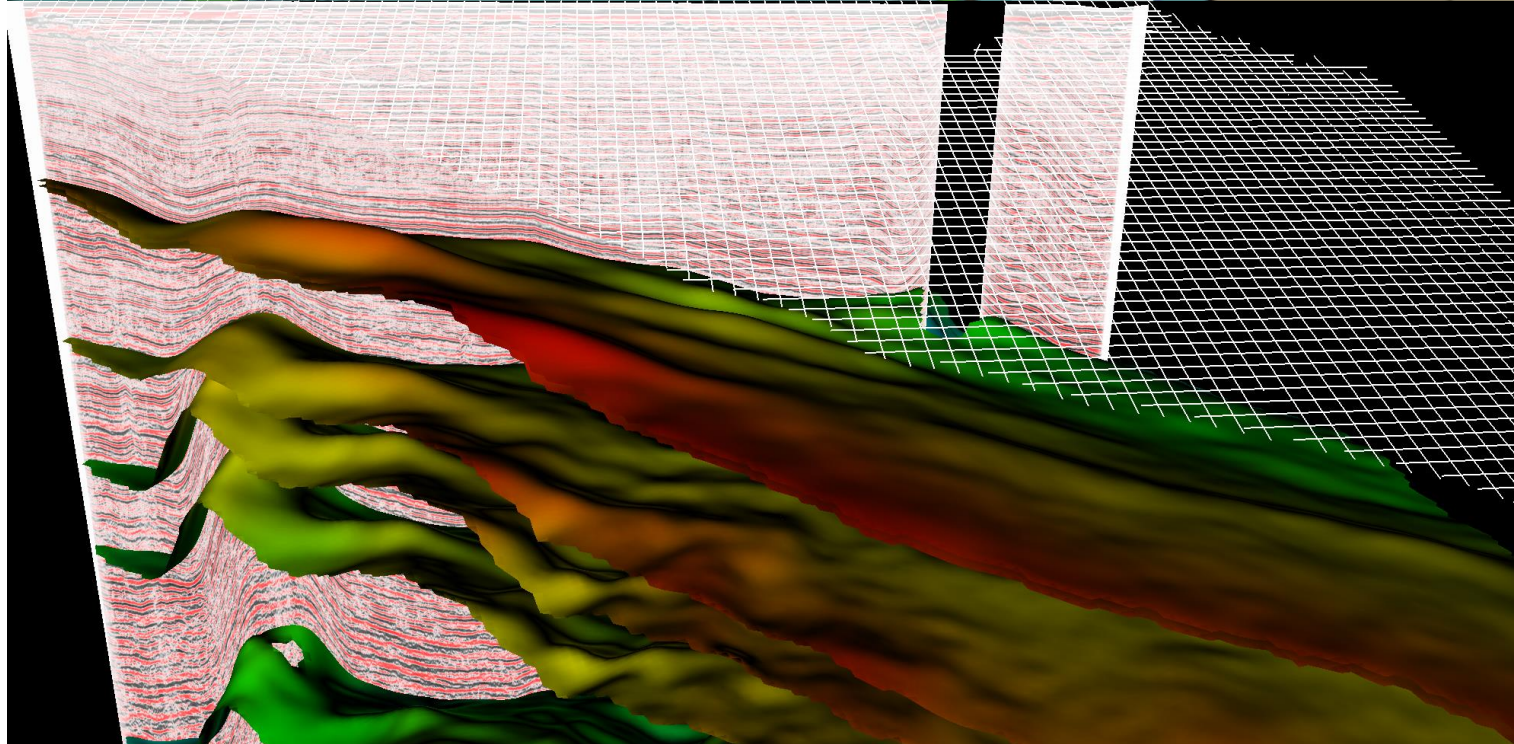
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Asmari



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Miocene	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Cretaceous	Upper	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Cretaceous	Middle	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Cretaceous	Lower	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Jurassic	Upper	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Jurassic	Middle	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Jurassic	Lower	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Triassic	Upper	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Triassic	Middle	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Triassic	Lower	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Permian	Upper	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Permian	Middle	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
Permian	Lower	Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites
		Asmari	Clastics and Evaporites

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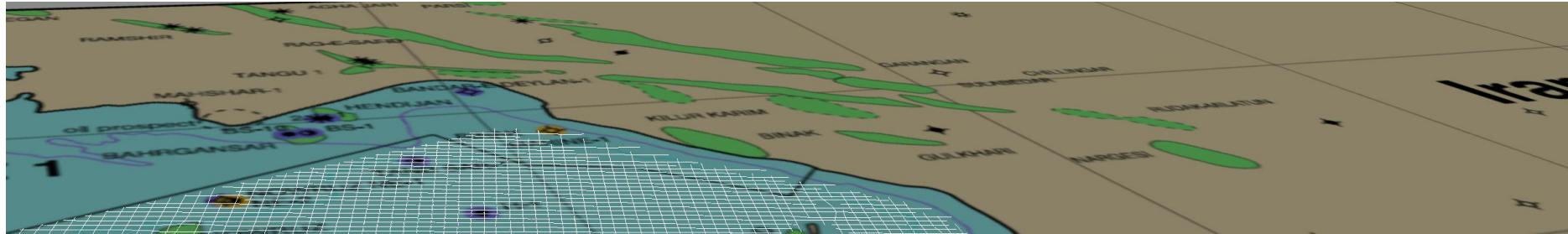
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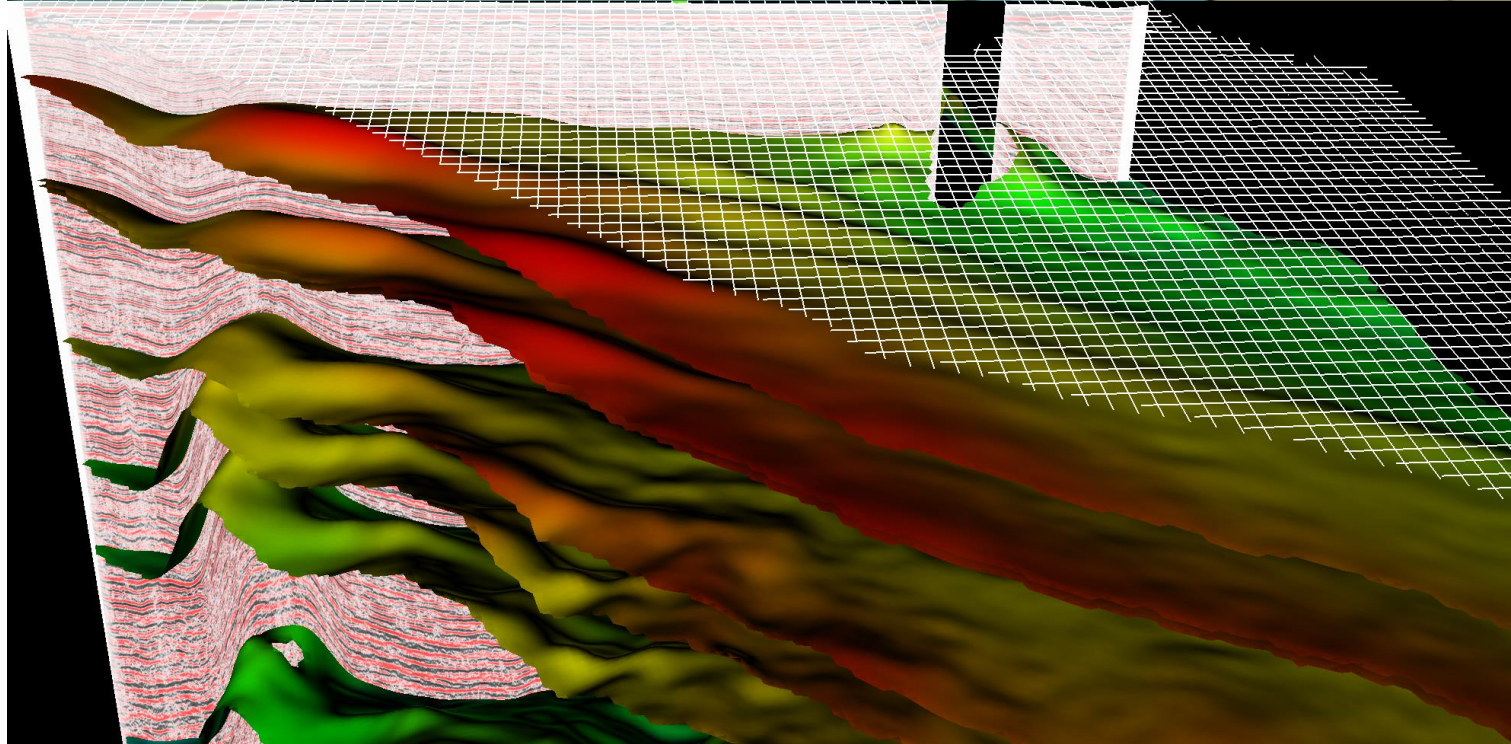
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.. what to go for in the Persian Gulf The tour (North)



Intra Lower Fars



SIMPLIFIED KEY			
Period	Eon	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Tertiary	Oligocene	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Cretaceous	Upper	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Cretaceous	Middle	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Cretaceous	Lower	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Jurassic	Upper	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Jurassic	Middle	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Jurassic	Lower	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Triassic	Upper	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Triassic	Middle	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Triassic	Lower	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Permian	Upper	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Permian	Middle	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
Permian	Lower	Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar	Clastics and Evaporites

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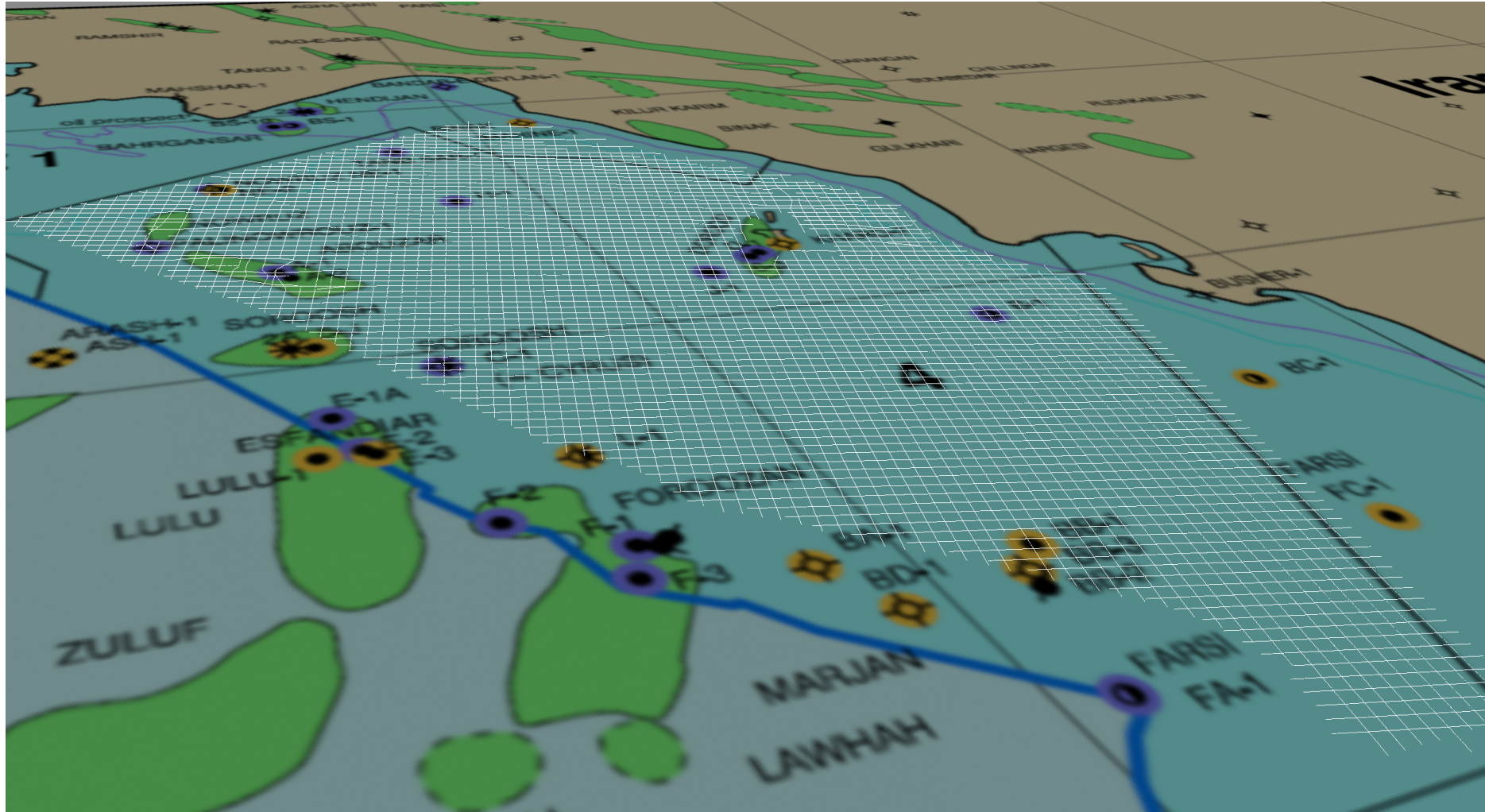
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.. what to go for in the Persian Gulf The tour (North)



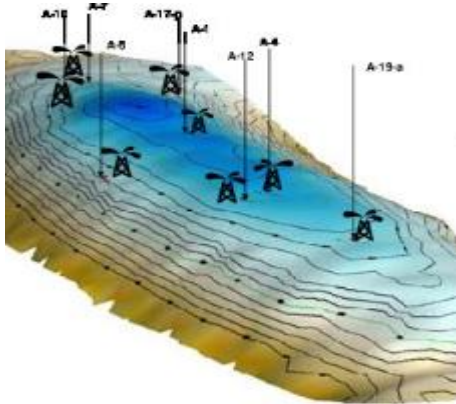
Dorood



Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
1961	1964	25x5	3D	88 (47 Prod.)	Asmari Surmeh Yamama Manifa	23 29.5 35 31

Field	STOIP	Cumulative Production	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Dorood	11007	1764	69	To be proposed by contractor

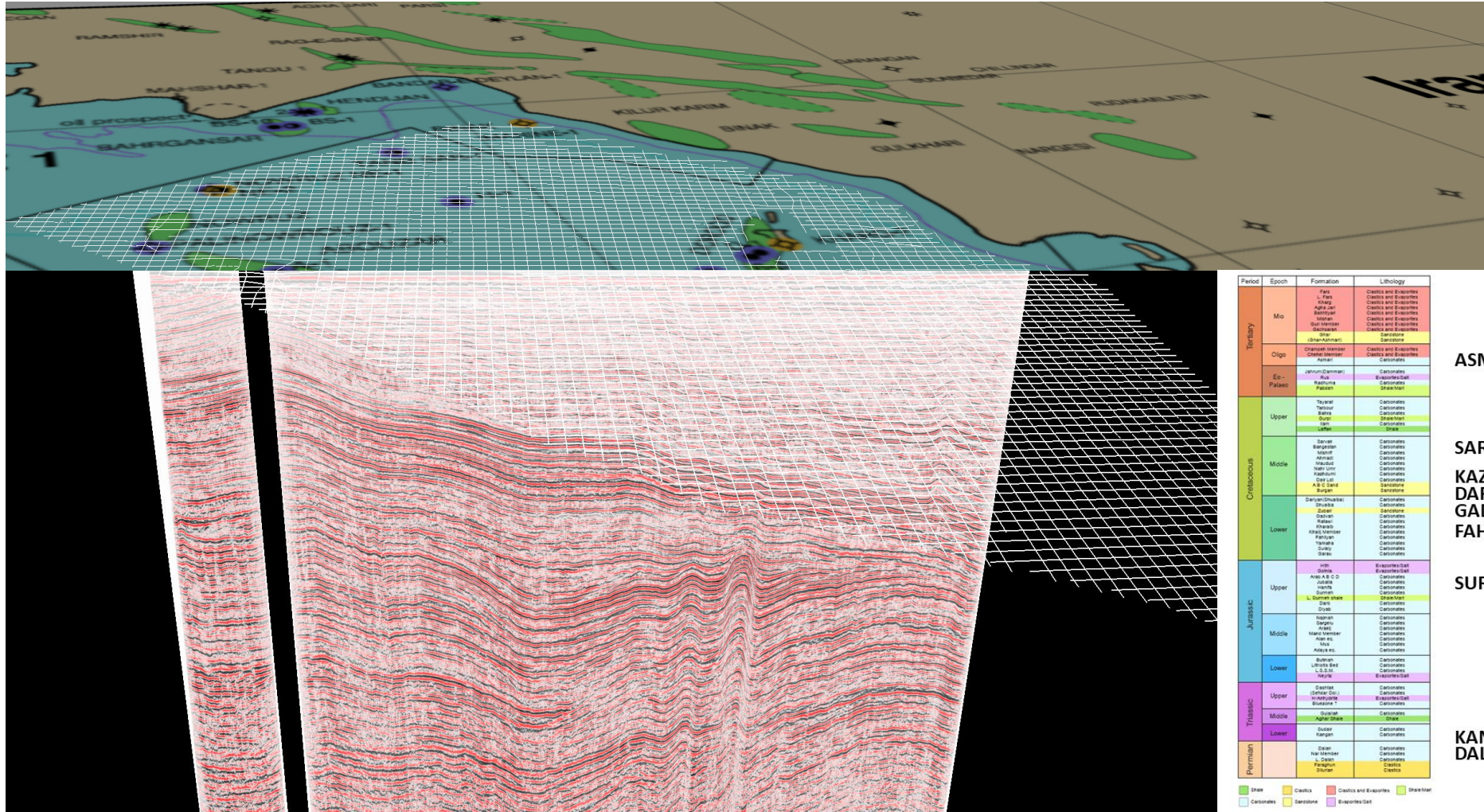
Aboozar



Disc. year	Prod. init. year	Dim. kmxkm	Seismic Data	No. Wells	Formation	API Degrees
1959	1976	1976			Asmari sand Plus undev Asmari Carb Azadegan Sand	20-28

Field	STOIP MMBbl	Cumulative Production MMBbl	Current Production MBbl/d	Total Estimated Production MBbl/d
Aboozar	> 1 BBL		« > 100 MBL/d »	To be proposed by contractor

.. what to go for in the Persian Gulf The tour (North)



Period	Epoch	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Abadan	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Oligocene	Chah-e-Mahdi	Clastics and Evaporites
		Chah-e-Mahdi	Clastics and Evaporites
		Chah-e-Mahdi	Clastics and Evaporites
		Chah-e-Mahdi	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Jahrom (Dammaj)	Carbonates
		Rus	Evaporites/Salt
		Kashan	Carbonates
		Pasvan	Carbonates
Cretaceous	Upper	Taybar	Carbonates
		Taybar	Carbonates
		Taybar	Carbonates
		Taybar	Carbonates
Cretaceous	Middle	Sarvest	Carbonates
		Sarvest	Carbonates
		Sarvest	Carbonates
		Sarvest	Carbonates
Cretaceous	Lower	Daneshmandi	Carbonates
		Daneshmandi	Carbonates
		Daneshmandi	Carbonates
		Daneshmandi	Carbonates
Jurassic	Upper	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Jurassic	Middle	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Jurassic	Lower	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Triassic	Upper	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Triassic	Middle	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Triassic	Lower	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Permian	Upper	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Permian	Middle	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
Permian	Lower	Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates
		Abadan	Carbonates

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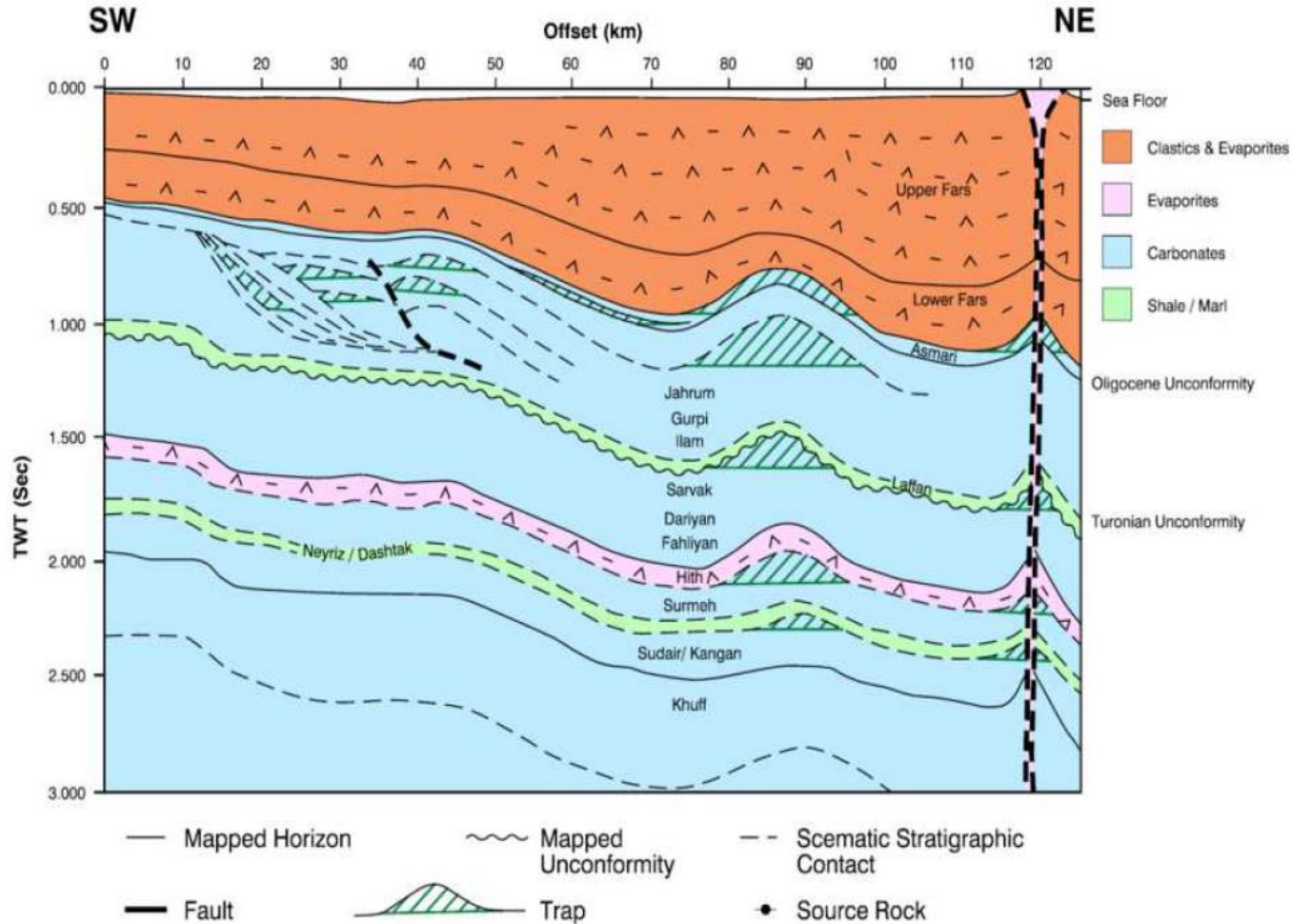
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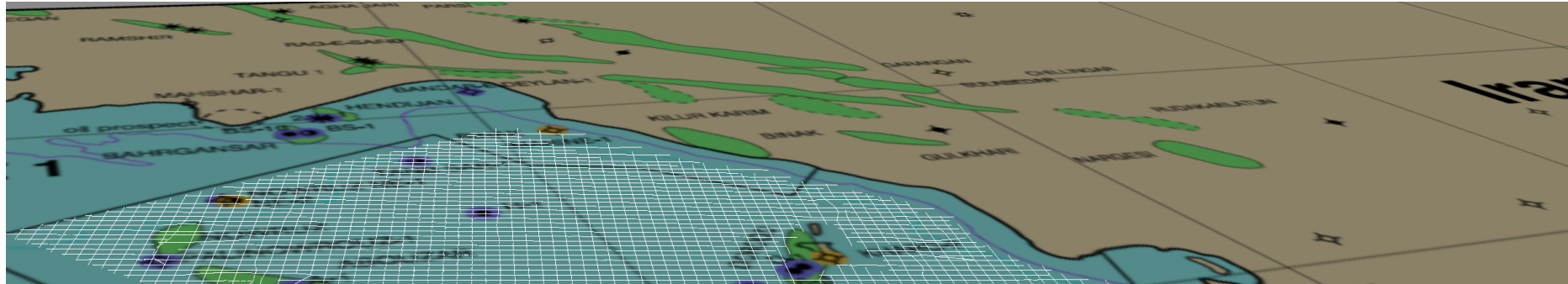
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.. what to go for in the Persian Gulf The tour (Central - Prospectivity)

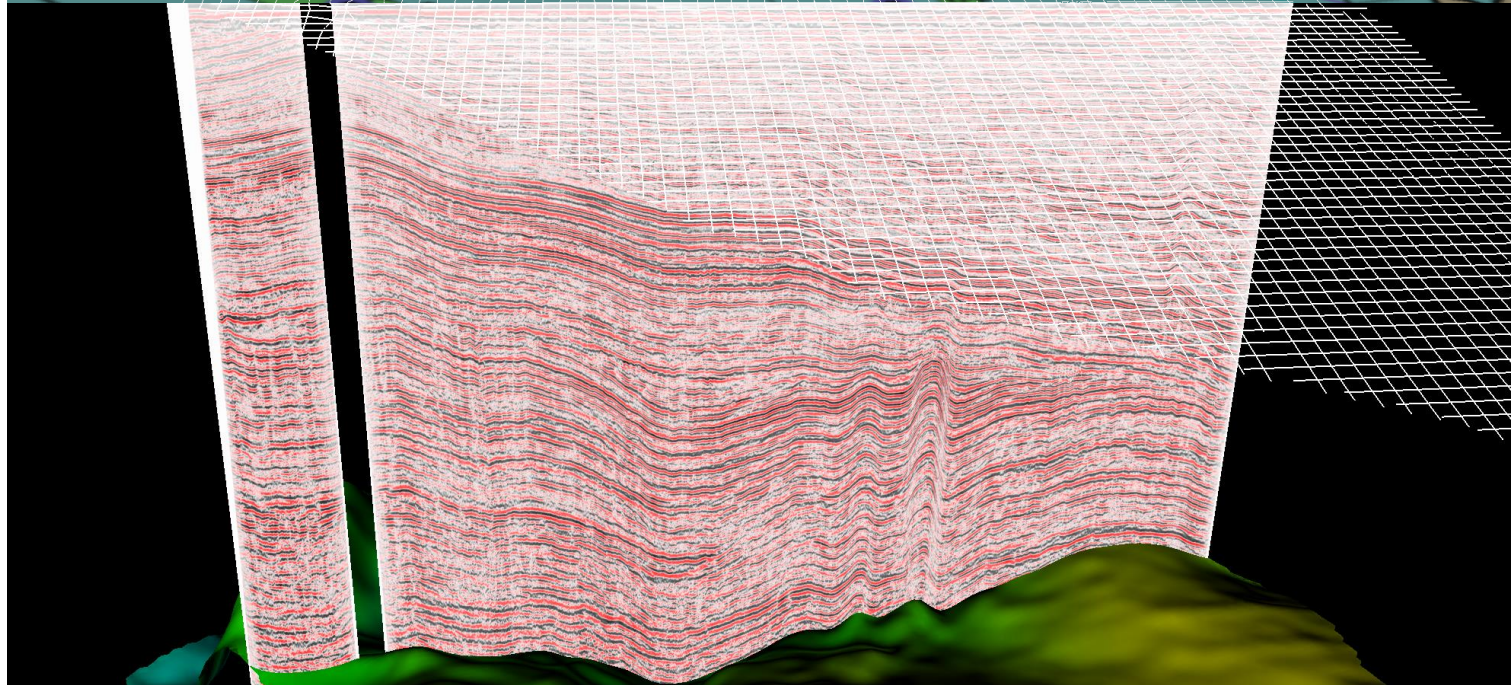


- ☐ **Post-Turonian Unconformity (pre-Gurpi Shale)**
 - Pinch-out plays of the Asmari Fm. were encountered only in the northeast of the block.
 - Bedding structure of prograding Jahrum Fm. offers possibility for stratigraphic traps. In addition can slumping lead to closures within this formation.
- ☐ **Turonian Unconformity – Base Cretaceous (Top Hith Evaporite)**
 - Several structural closures on salt domes.
 - Additional potential when accounting closure against salt stock.
 - Some of the larger Salt structures which have been drilled close to its crest still offer opportunities at the flanks.
- ☐ **Jurassic and older**
 - As above

.. what to go for in the Persian Gulf The tour (North)



NT Sudair
(Kangan, Dalan below)



Period	Epoch	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Abadan	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Oligocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites

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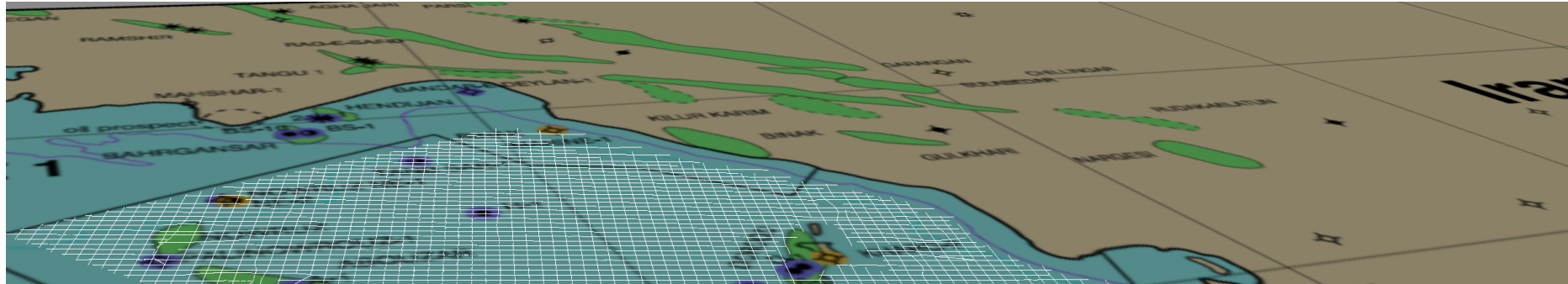
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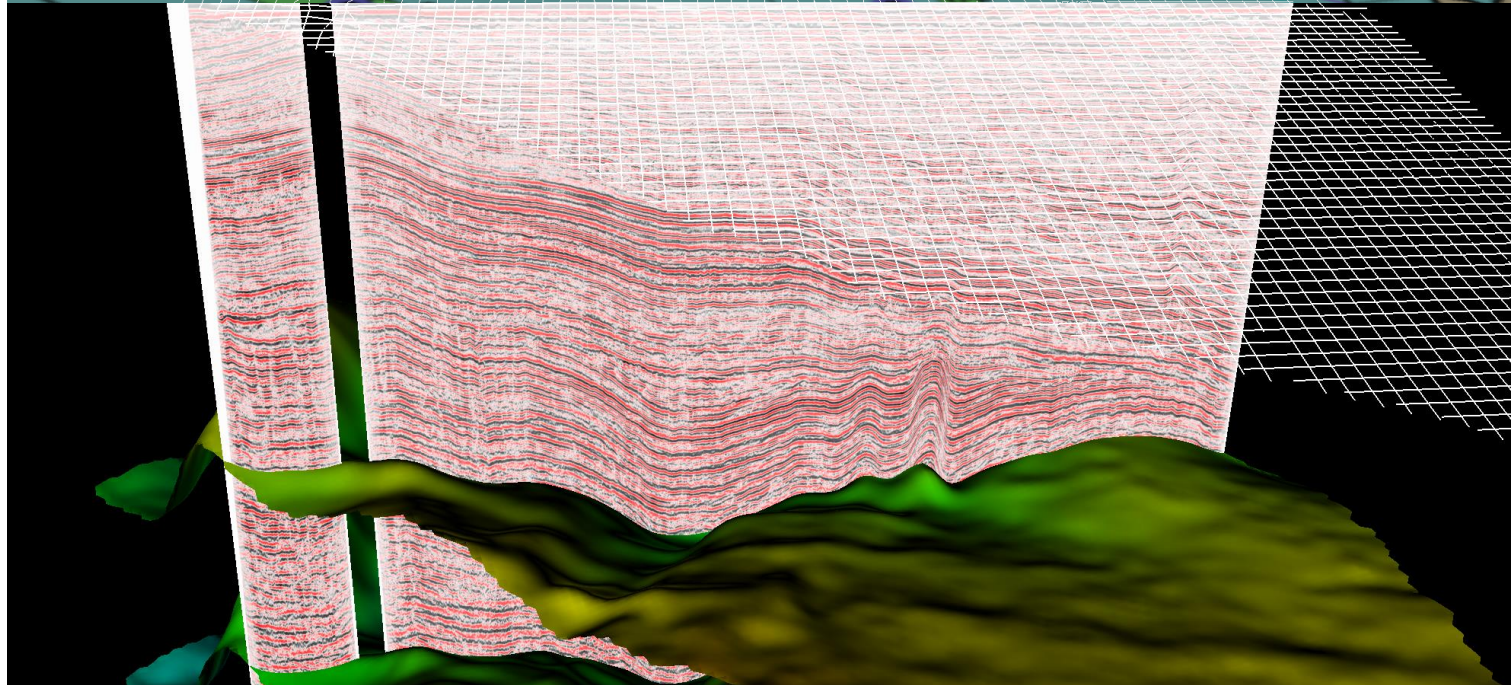
DAL

Shale, Clastics, Sandstone, Carbonates, Evaporites, Dolomite

.. what to go for in the Persian Gulf The tour (North)



NT Hith
(Surmeh below)



Period	Epoch	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar-Jel	Clastics and Evaporites
		Bahariyeh	Clastics and Evaporites
Tertiary	Oligocene	Qasr Namdar	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Cretaceous	Upper	Tayeh	Clastics and Evaporites
		Tayeh	Clastics and Evaporites
		Tayeh	Clastics and Evaporites
		Tayeh	Clastics and Evaporites
Cretaceous	Middle	Sarvest	Clastics and Evaporites
		Sarvest	Clastics and Evaporites
		Sarvest	Clastics and Evaporites
		Sarvest	Clastics and Evaporites
Cretaceous	Lower	Sarvest	Clastics and Evaporites
		Sarvest	Clastics and Evaporites
		Sarvest	Clastics and Evaporites
		Sarvest	Clastics and Evaporites
Jurassic	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Jurassic	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Jurassic	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Triassic	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Triassic	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Triassic	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Permian	Upper	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Permian	Middle	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
Permian	Lower	Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites
		Shahrak	Clastics and Evaporites

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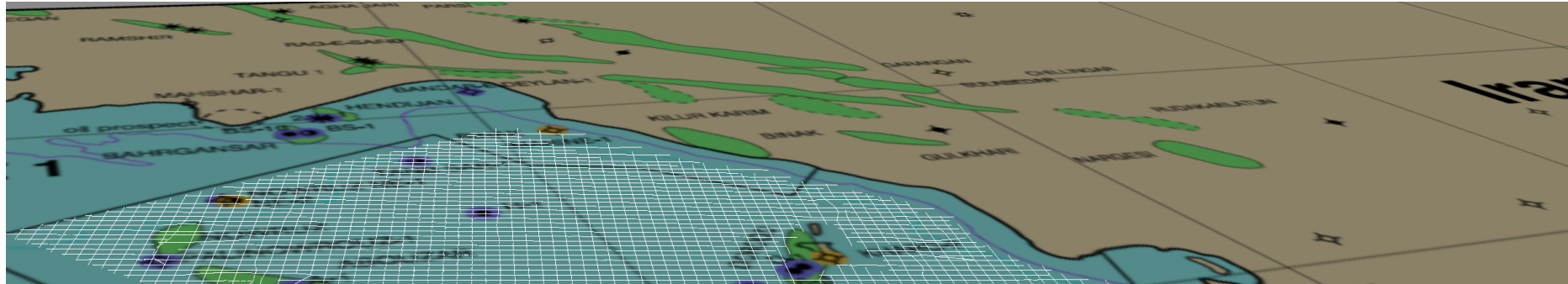
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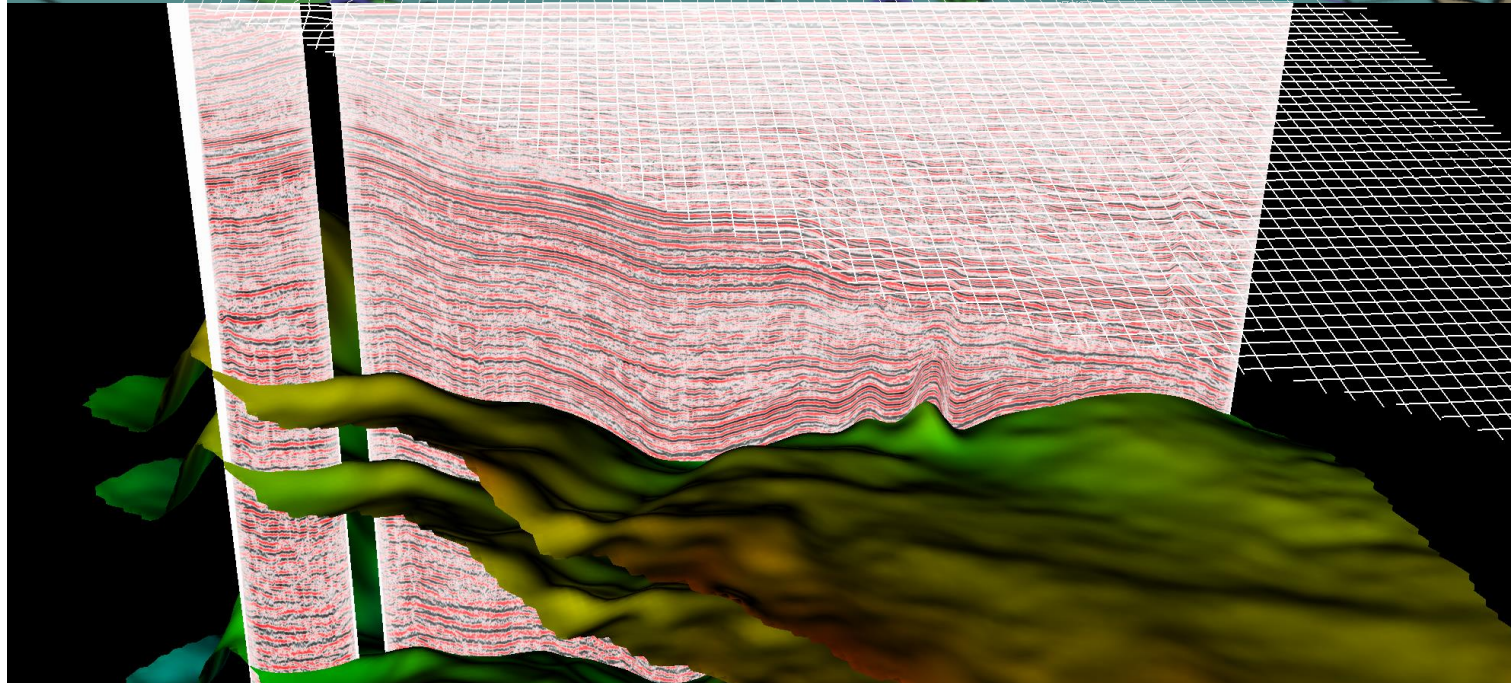
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.. what to go for in the Persian Gulf The tour (North)



NT Dariyan
(Dariyan, Gadvan, Fahliyan below)



Period	Epoch	Formation	Lithology
Tertiary	Pliocene	Fars	Clastics and Evaporites
		Abadan	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Oligocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Eocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites

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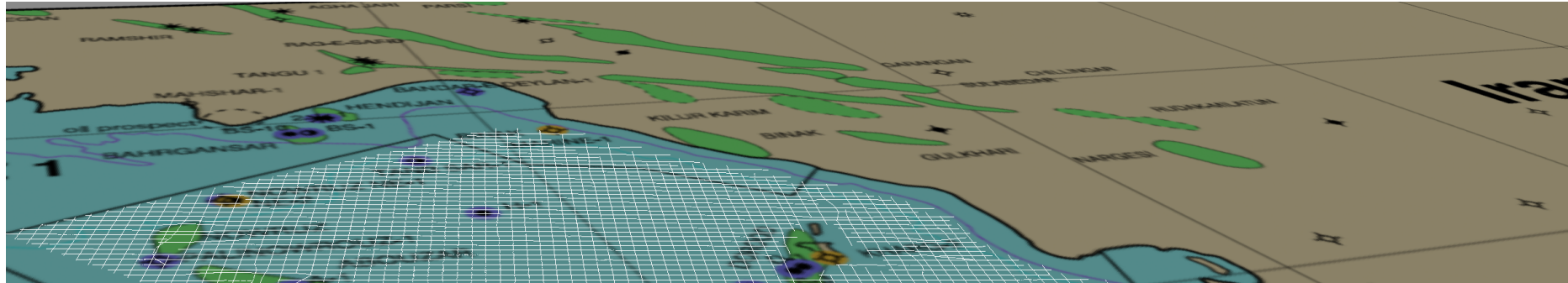
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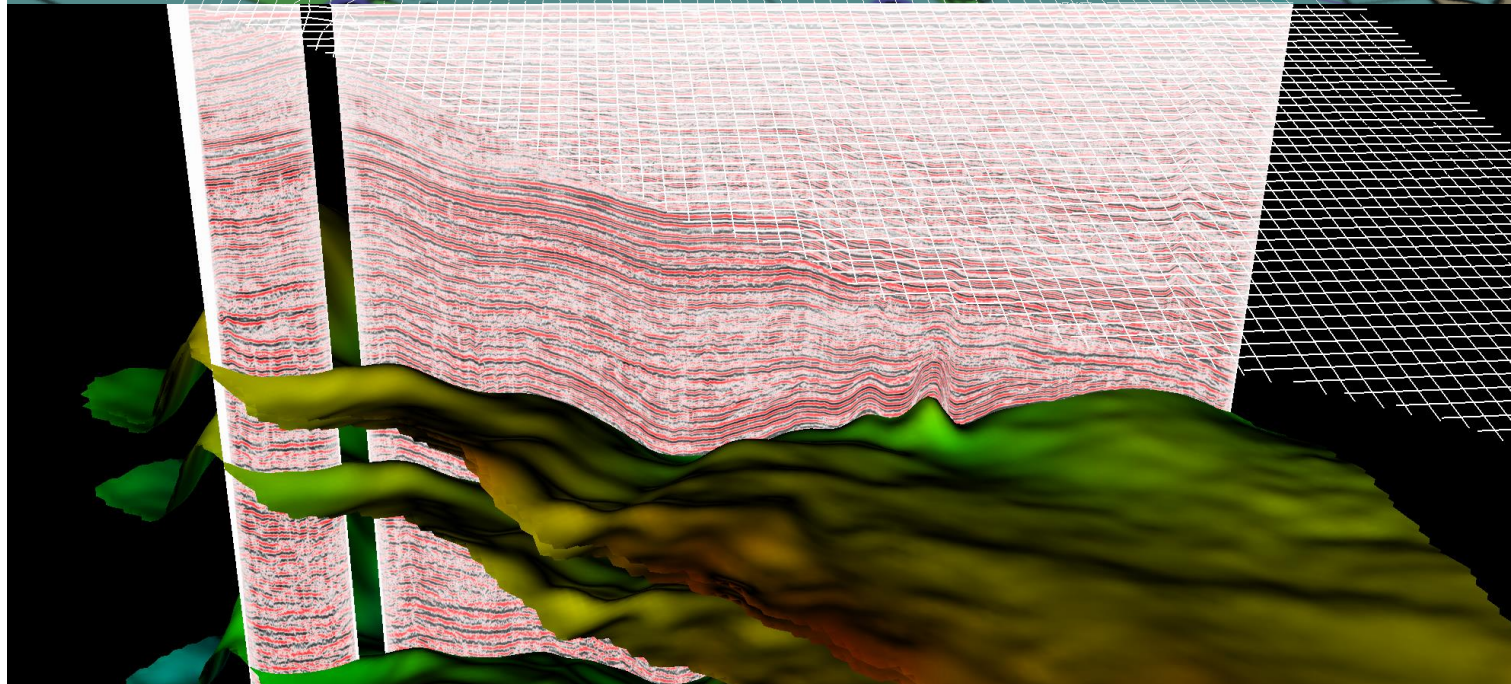
DAL

Shale
Clastic
Clastic and Evaporites
Sandstone
Evaporites

.. what to go for in the Persian Gulf The tour (North)



NT Burgan
(Burgan below, Kazhdumi
(Nam Uhr) just above)



Period	Epoch	Formation	Lithology
Tertiary	Pliocene	Fars	Clastics and Evaporites
		Abadan	Clastics and Evaporites
	Miocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Oligocene	Chah-e-Mahdi	Clastics and Evaporites
		Chah-e-Mahdi	Clastics and Evaporites
	Eocene	Jahrom (Damari)	Carbonates
		Ras	Carbonates
Cretaceous	Upper	Taybar	Carbonates
		Taybar	Carbonates
	Middle	Bab	Carbonates
		Bab	Carbonates
Cretaceous	Lower	Darab	Carbonates
		Darab	Carbonates
	Lower	Darab	Carbonates
		Darab	Carbonates
Jurassic	Upper	Ab	Carbonates
		Ab	Carbonates
	Middle	Ab	Carbonates
		Ab	Carbonates
Triassic	Upper	Ab	Carbonates
		Ab	Carbonates
	Lower	Ab	Carbonates
		Ab	Carbonates
Permian	Upper	Ab	Carbonates
		Ab	Carbonates
	Lower	Ab	Carbonates
		Ab	Carbonates

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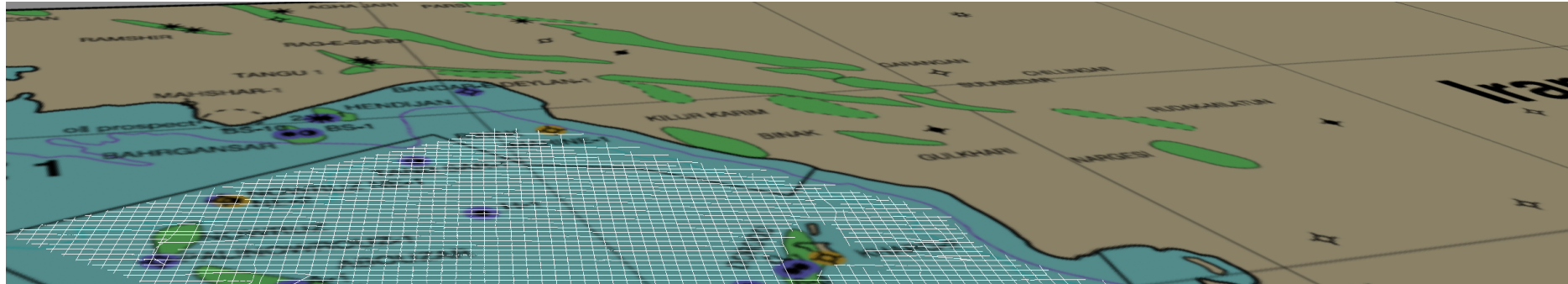
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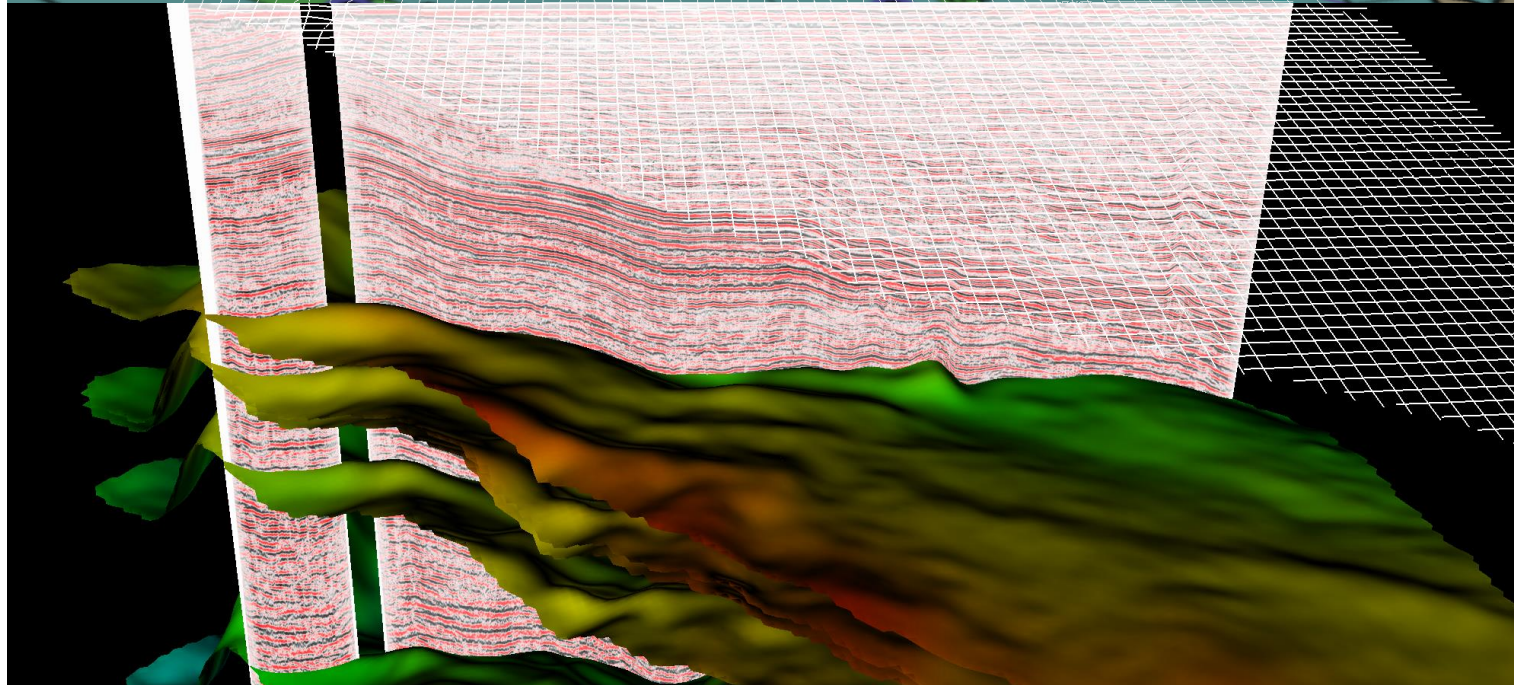
DAL

Shale
Carbonates
Clastic
Sandstone
Clastic and Evaporites
Evaporites/Salt
Shale/Silt

.. what to go for in the Persian Gulf The tour (North)



Turonian UC
(Sarvak below)



Period	Epoch	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar-Jel	Clastics and Evaporites
		Bahariyeh	Clastics and Evaporites
Tertiary	Oligocene	Qasr-e-Mohammad	Clastics and Evaporites
		Qasr-e-Mohammad	Clastics and Evaporites
		Qasr-e-Mohammad	Clastics and Evaporites
		Qasr-e-Mohammad	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Jahromi-Damghan	Carbonates
		Rus	Evaporites/Salt
		Kashan	Carbonates
		Pasvan	Carbonates
Cretaceous	Upper	Tayeh	Carbonates
		Tayeh	Carbonates
		Tayeh	Carbonates
		Tayeh	Carbonates
Cretaceous	Middle	Sarvak	Carbonates
		Sarvak	Carbonates
		Sarvak	Carbonates
		Sarvak	Carbonates
Cretaceous	Lower	Darvazeh	Carbonates
		Darvazeh	Carbonates
		Darvazeh	Carbonates
		Darvazeh	Carbonates
Jurassic	Upper	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Jurassic	Middle	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Jurassic	Lower	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Triassic	Upper	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Triassic	Middle	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Triassic	Lower	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Permian	Upper	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Permian	Middle	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
Permian	Lower	Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates
		Angar	Carbonates

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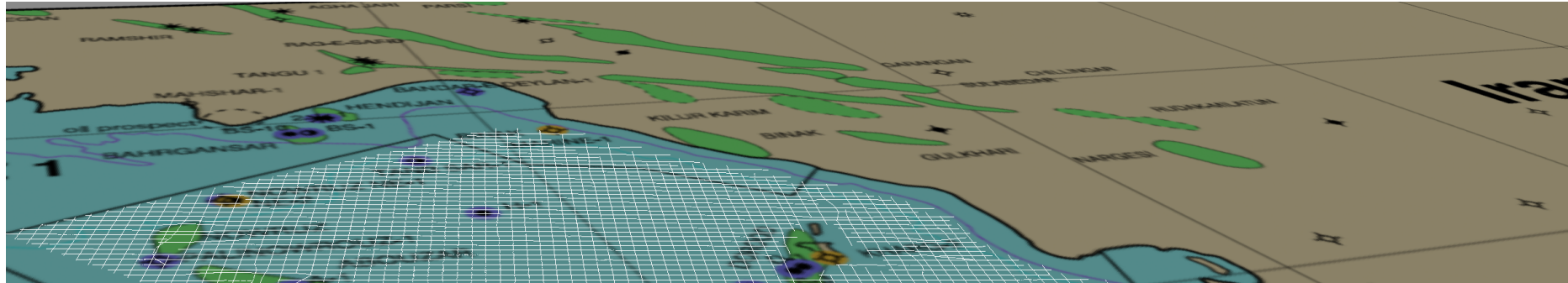
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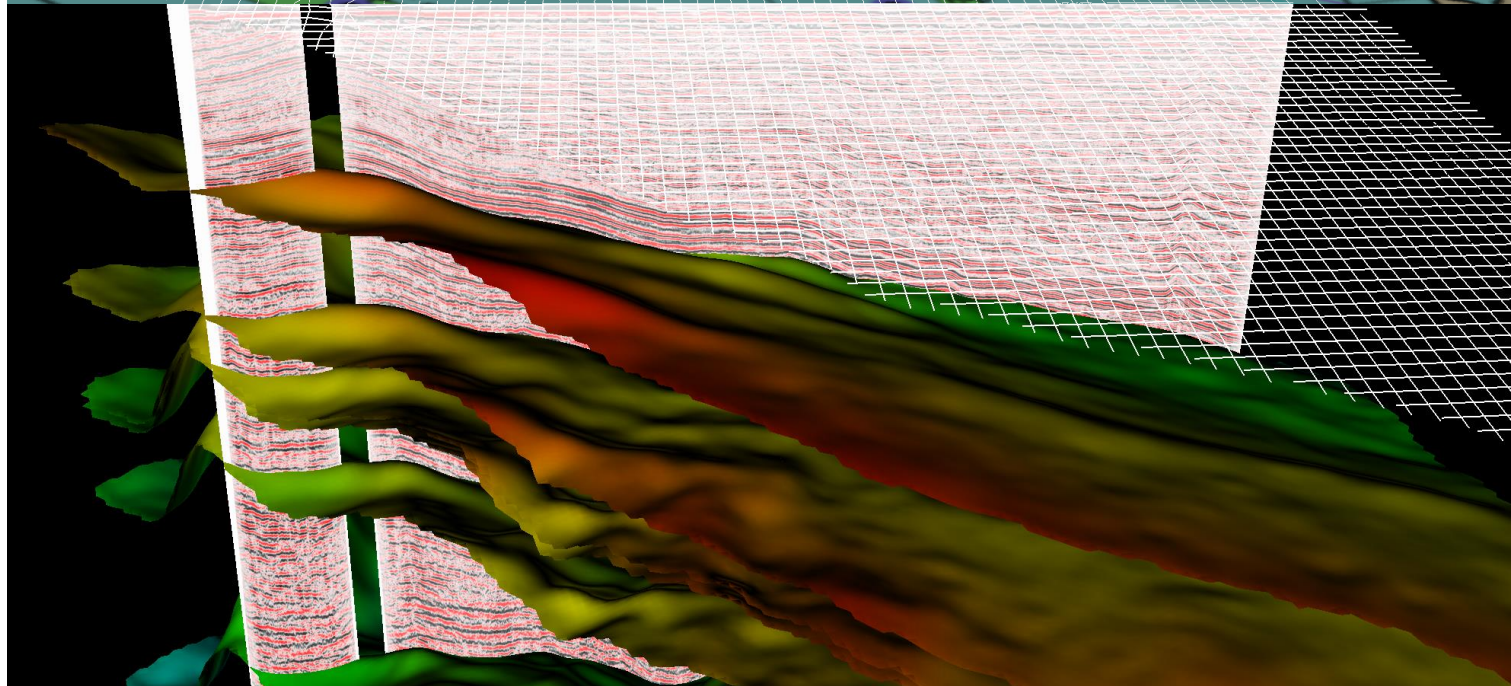
DAL

Shale
Carbonates
Clastic
Sandstone
Clastic and Evaporites
Evaporites/Salt
Shale/Silt

.. what to go for in the Persian Gulf The tour (North)



Oligocene UC
(Asmari just above)



Period	Epoch	Formation	Lithology
Tertiary	Mio	Fas	Clastics and Evaporites
		Arzang	Clastics and Evaporites
		Agah Jari	Clastics and Evaporites
		Bahariyeh	Clastics and Evaporites
Oligo	Oligo	Qasr Namdar	Clastics and Evaporites
		Qasr Namdar	Clastics and Evaporites
		Qasr Namdar	Clastics and Evaporites
		Qasr Namdar	Clastics and Evaporites
Eo-Paleo	Eo-Paleo	Jahrom (Damari)	Carbonates
		Rus	Carbonates
		Kashan	Carbonates
		Pasvan	Carbonates
Cretaceous	Upper	Tayari	Carbonates
		Tayari	Carbonates
		Tayari	Carbonates
		Tayari	Carbonates
Cretaceous	Middle	Sarvest	Carbonates
		Sarvest	Carbonates
		Sarvest	Carbonates
		Sarvest	Carbonates
Cretaceous	Lower	Darvaz	Carbonates
		Darvaz	Carbonates
		Darvaz	Carbonates
		Darvaz	Carbonates
Jurassic	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Jurassic	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Jurassic	Lower	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Lower	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Permian	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Permian	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Permian	Lower	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates

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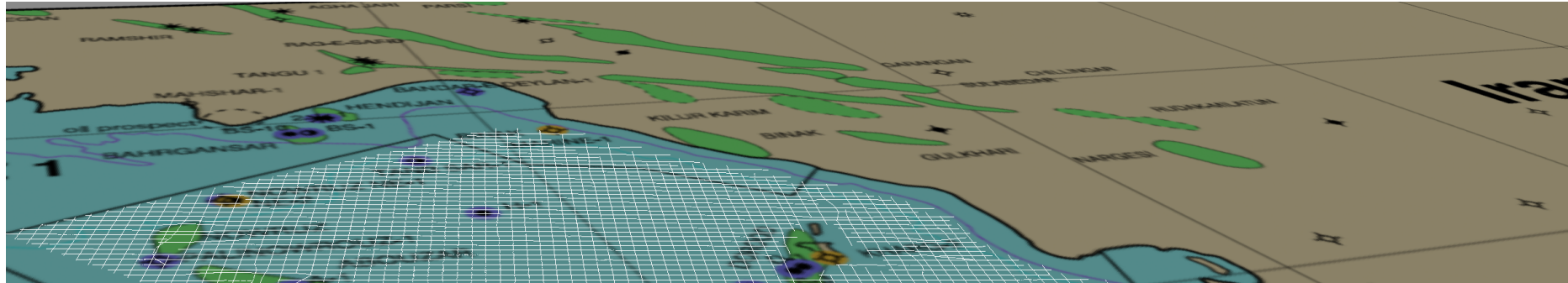
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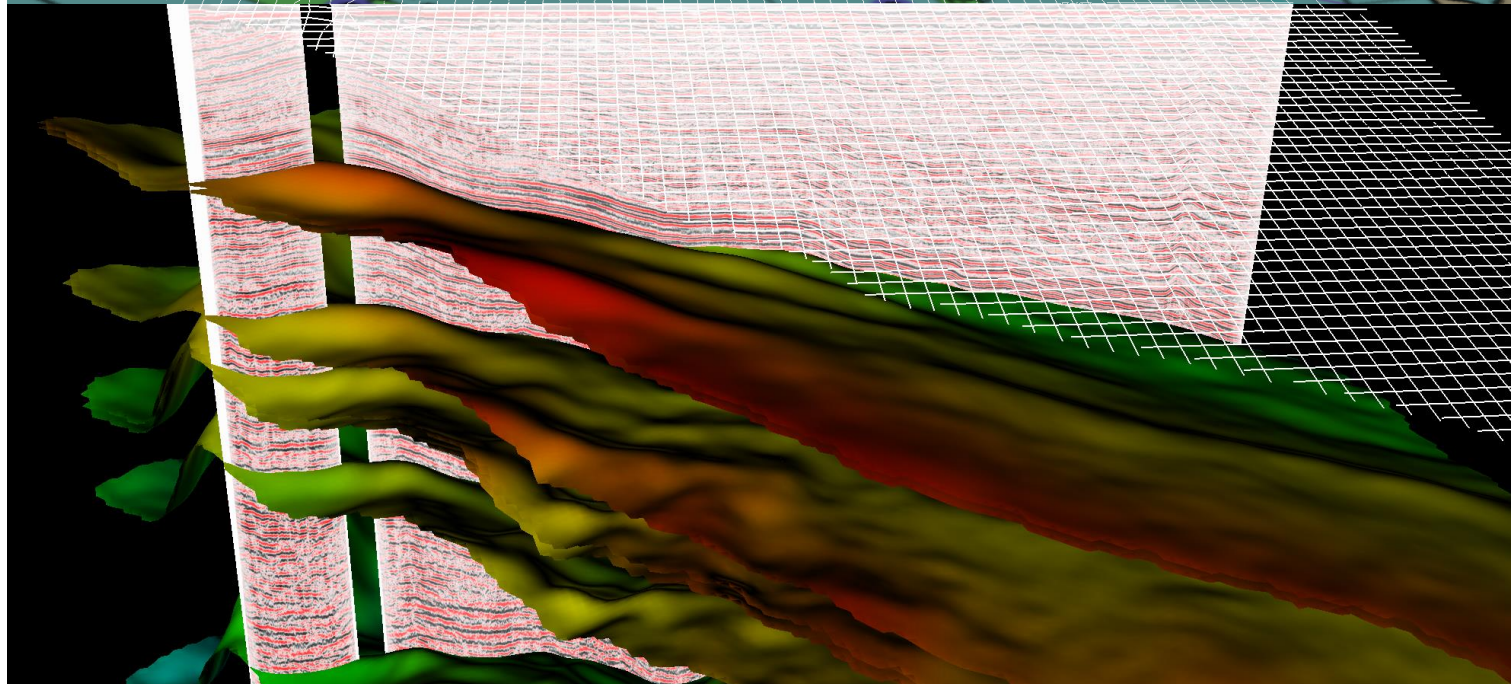
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Asmari



Period	Epoch	Formation	Lithology
Tertiary	Mio	Fas	Clastics and Evaporites
		Arzang	Clastics and Evaporites
		Agah-Jari	Clastics and Evaporites
		Bandiyan	Clastics and Evaporites
Oligo	Oligo	Qasr-e-Khan	Clastics and Evaporites
		Qasr-e-Khan	Clastics and Evaporites
		Qasr-e-Khan	Clastics and Evaporites
		Qasr-e-Khan	Clastics and Evaporites
Eo-Paleo	Eo-Paleo	Jahrom (Damari)	Carbonates
		Rus	Carbonates
		Kashan	Carbonates
		Pasvan	Carbonates
Cretaceous	Upper	Taybar	Carbonates
		Taybar	Carbonates
		Taybar	Carbonates
		Taybar	Carbonates
Cretaceous	Middle	Sarvest	Carbonates
		Sarvest	Carbonates
		Sarvest	Carbonates
		Sarvest	Carbonates
Cretaceous	Lower	Darab	Carbonates
		Darab	Carbonates
		Darab	Carbonates
		Darab	Carbonates
Jurassic	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Jurassic	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Jurassic	Lower	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Triassic	Lower	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Permian	Upper	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Permian	Middle	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
Permian	Lower	Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates
		Asmari	Carbonates

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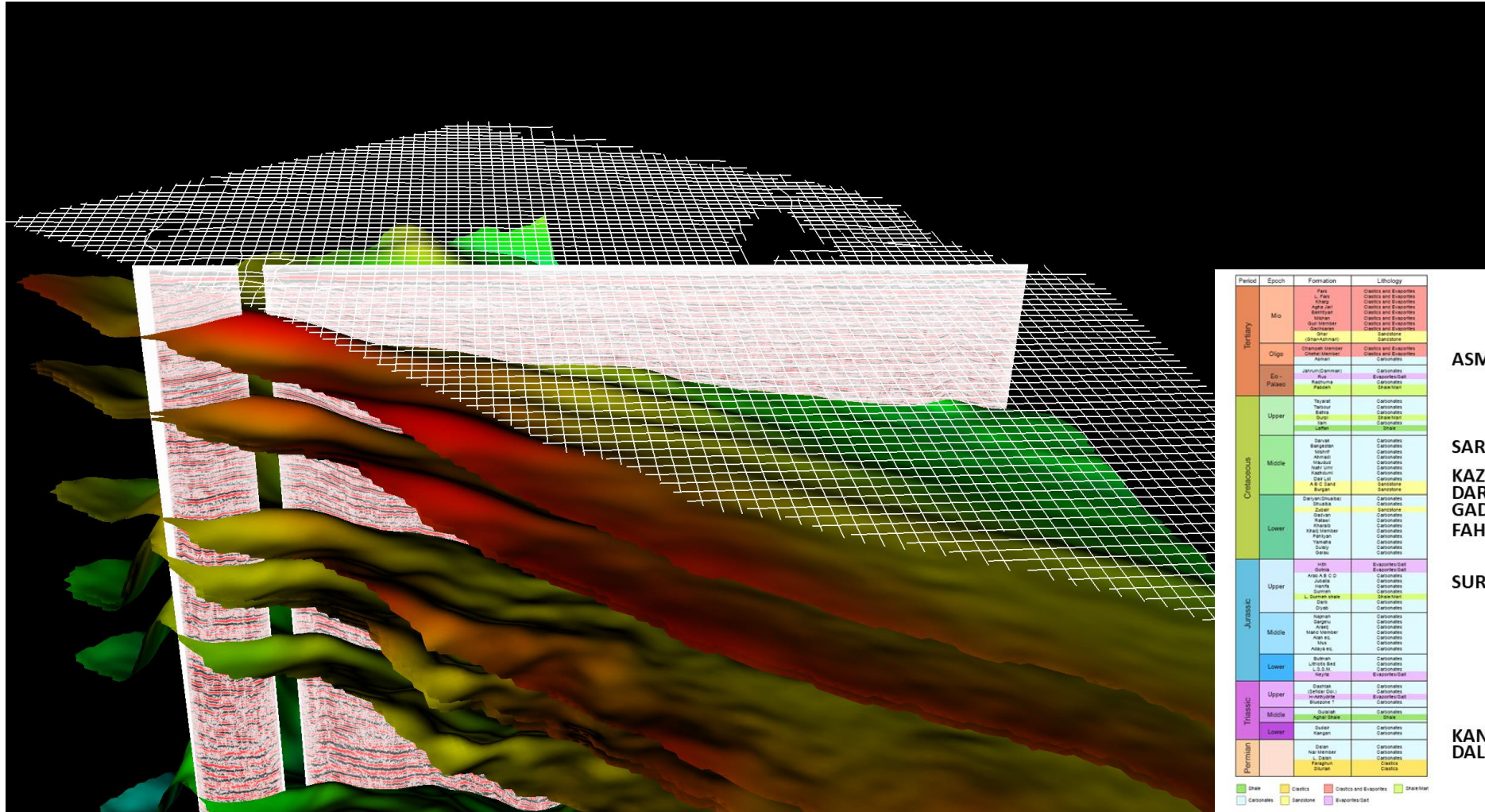
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.. what to go for in the Persian Gulf The tour (North)



Intra Lower Fars

Period	Epoch	Formation	Lithology
Tertiary	Miocene	Fars	Clastics and Evaporites
		Angar	Clastics and Evaporites
		Angar-Jaf	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Oligocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Tertiary	Eocene-Paleocene	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Cretaceous	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Jurassic	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Triassic	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Upper	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Middle	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
Permian	Lower	Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites
		Bandar	Clastics and Evaporites

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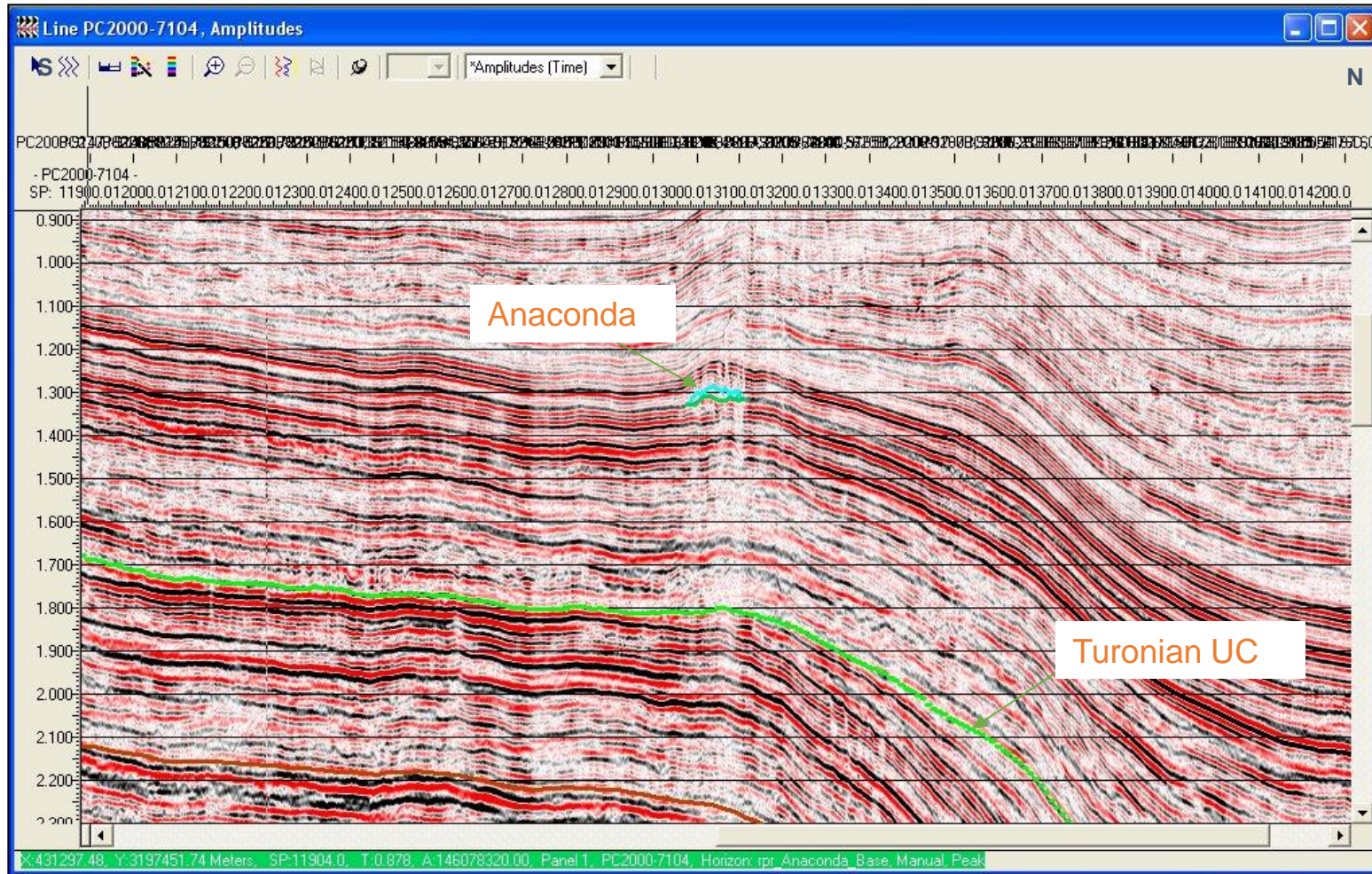
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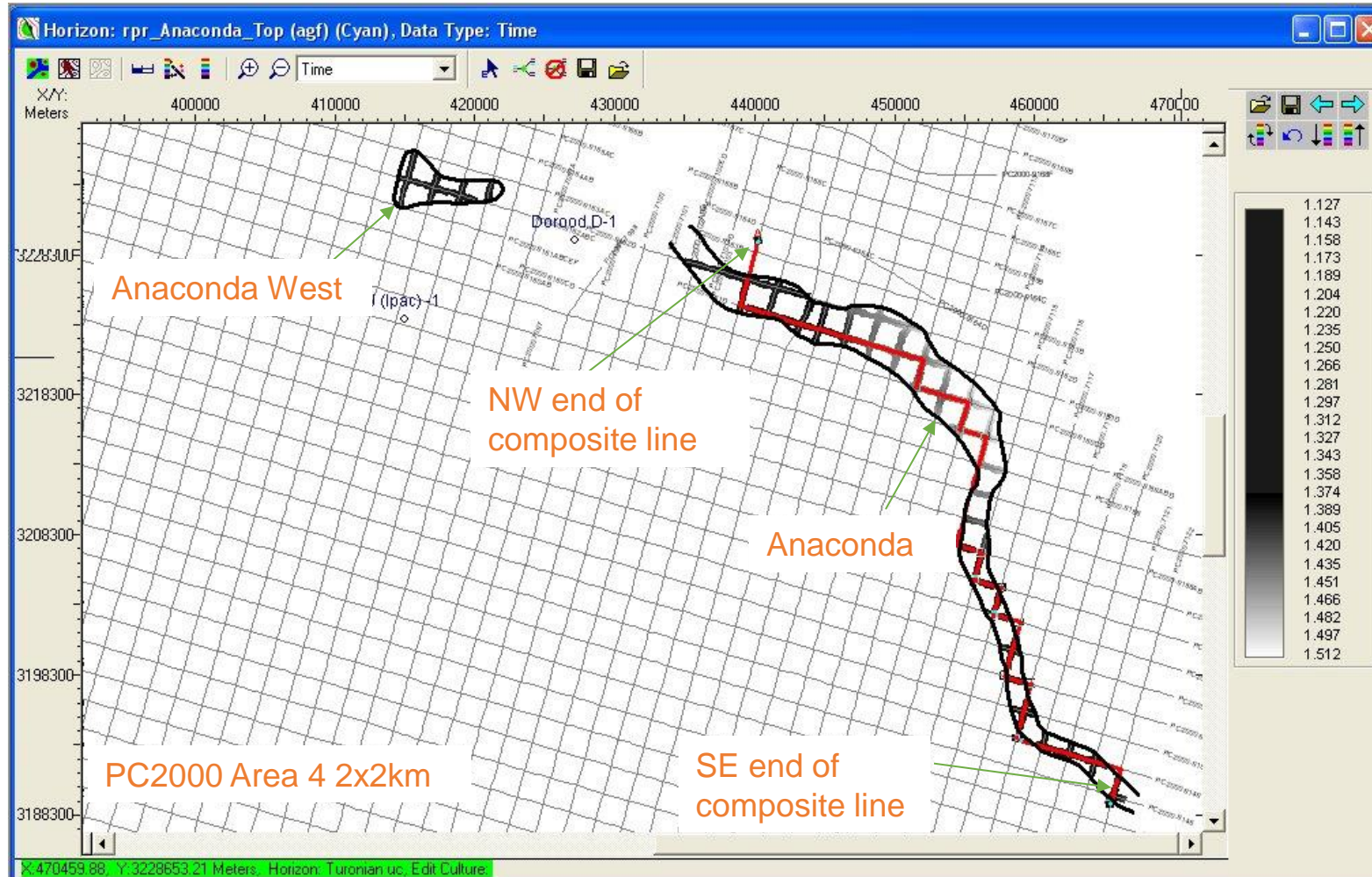
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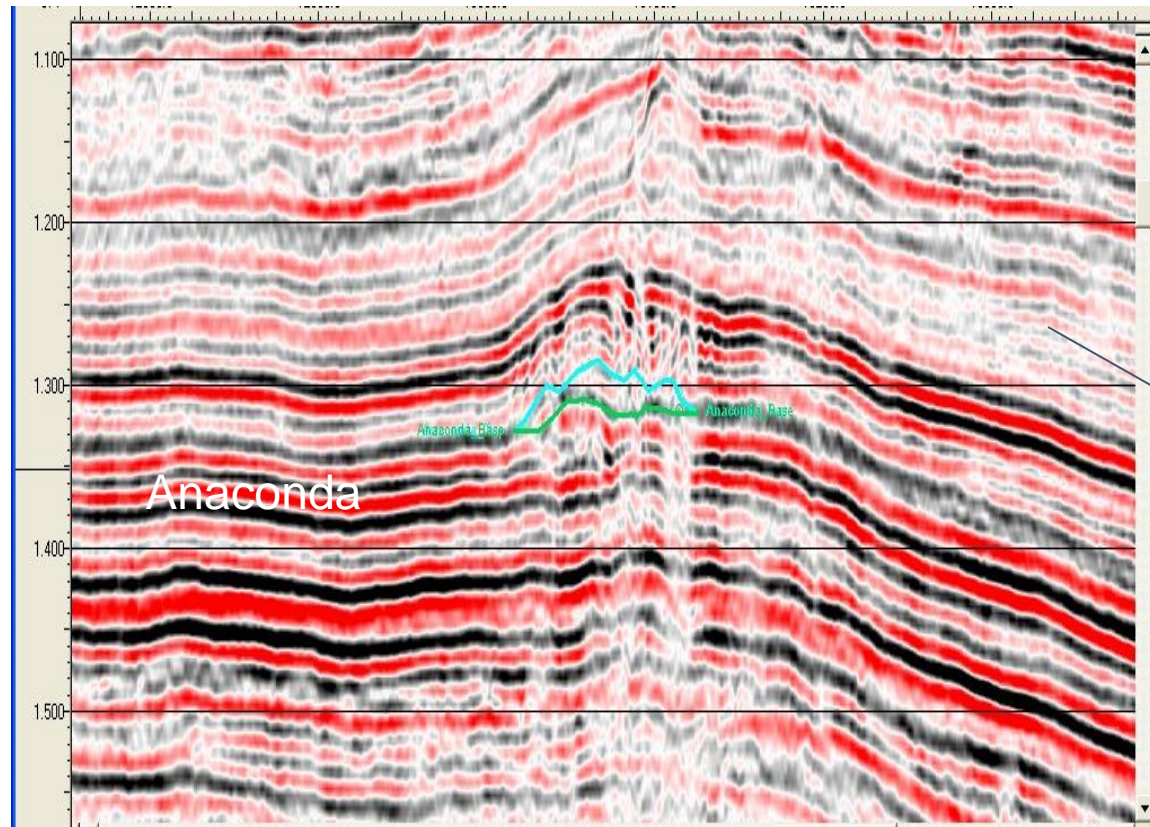
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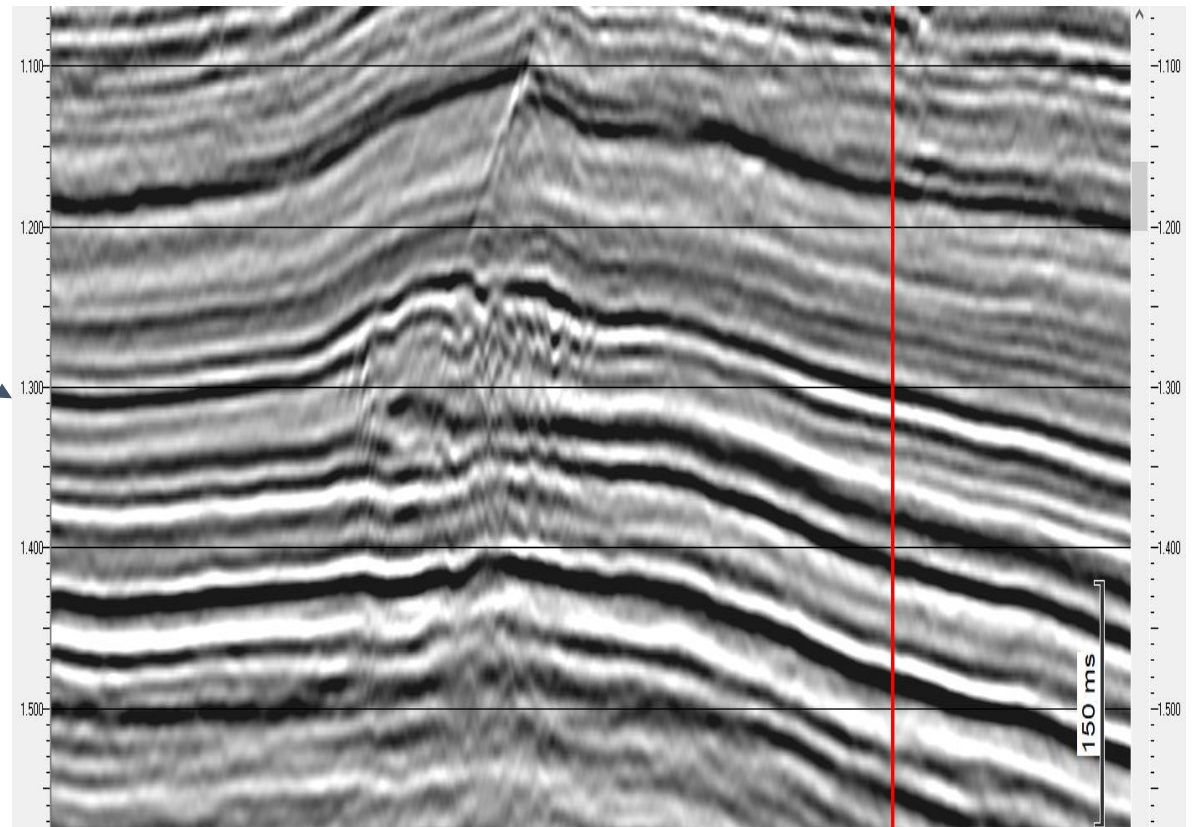
Path of composite line shown in red (see next slide)

Anaconda





Legacy

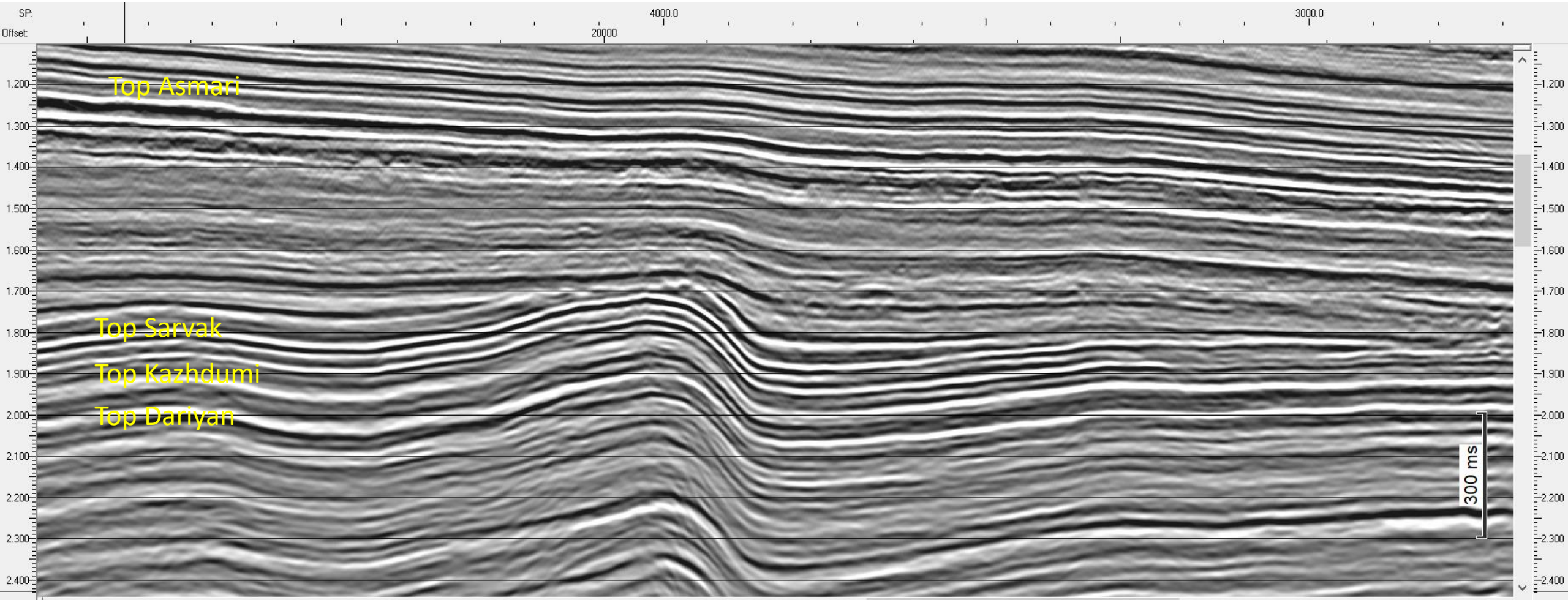


Reprocessed

Anaconda

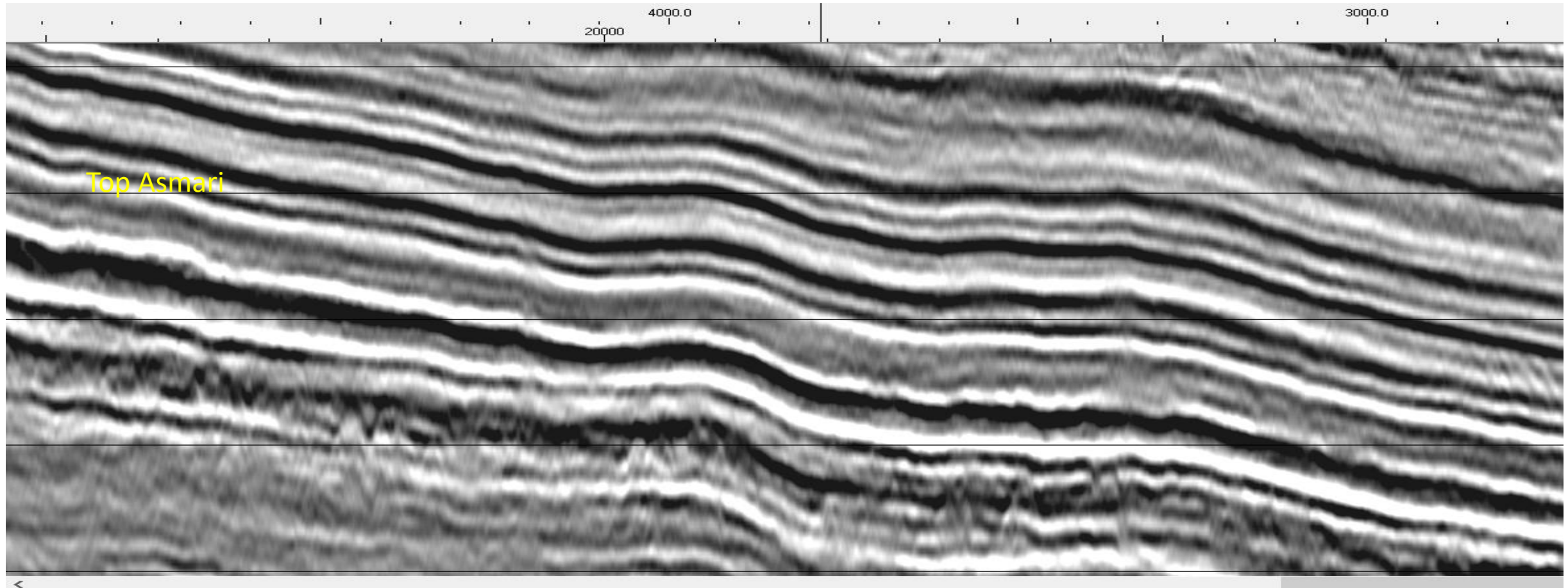
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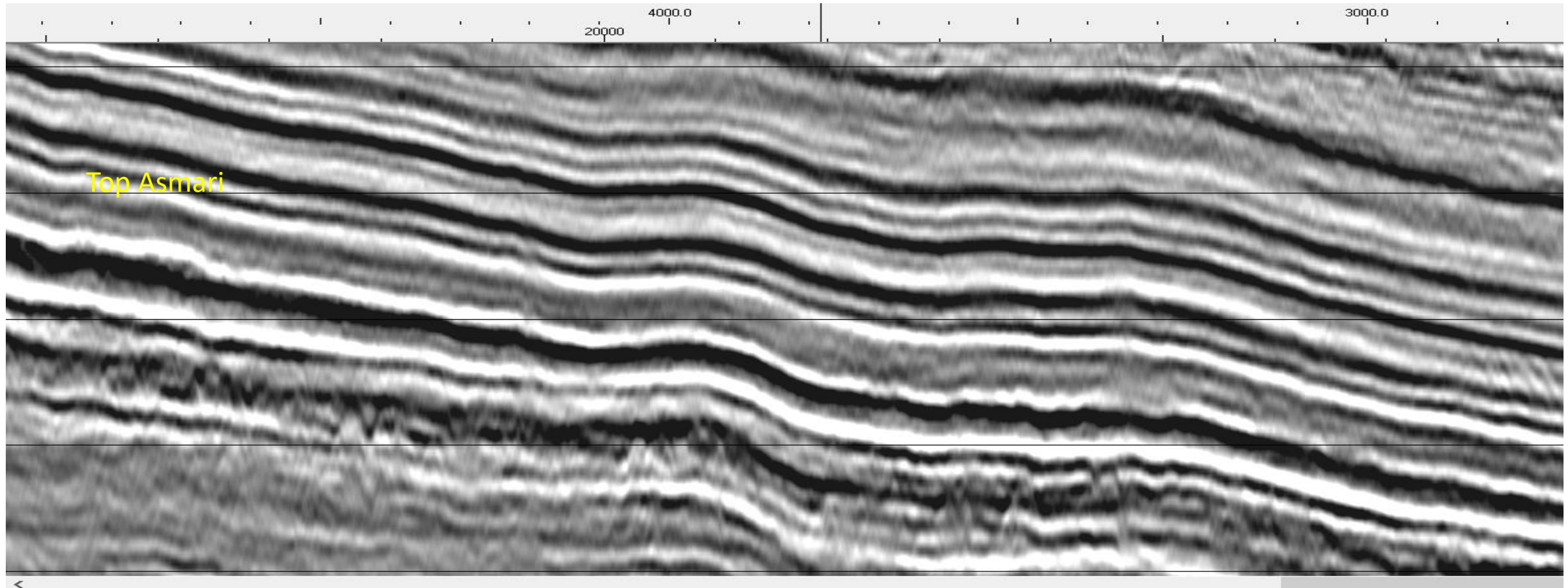
.. what to go for in the Persian Gulf The tour (North)

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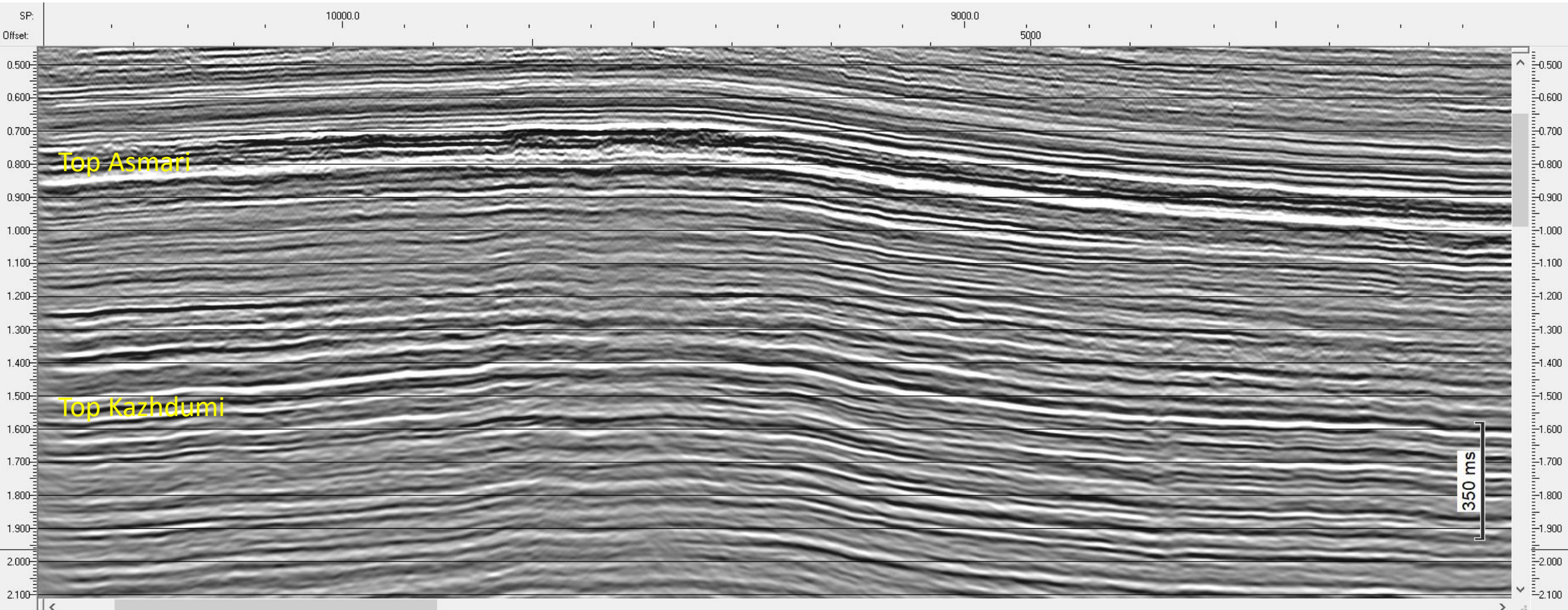


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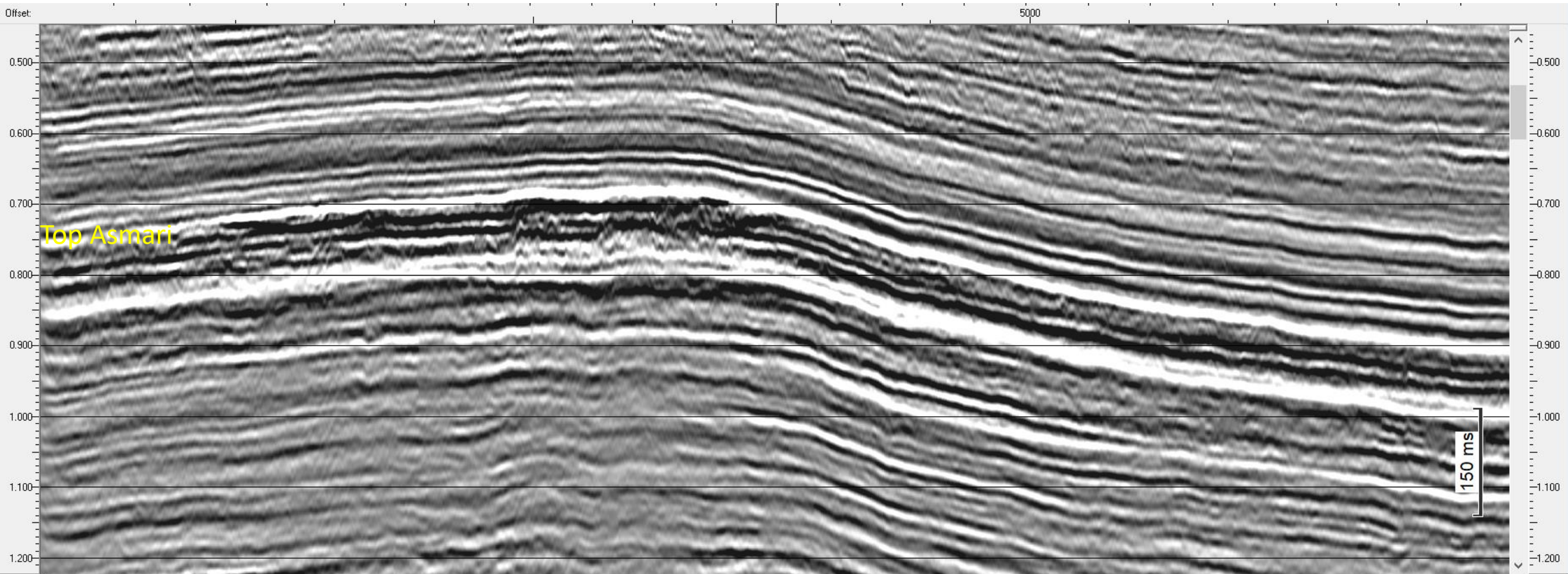
Dorood Line 9158BBCD Repro



Aboozar Line 9158BBCD Repro

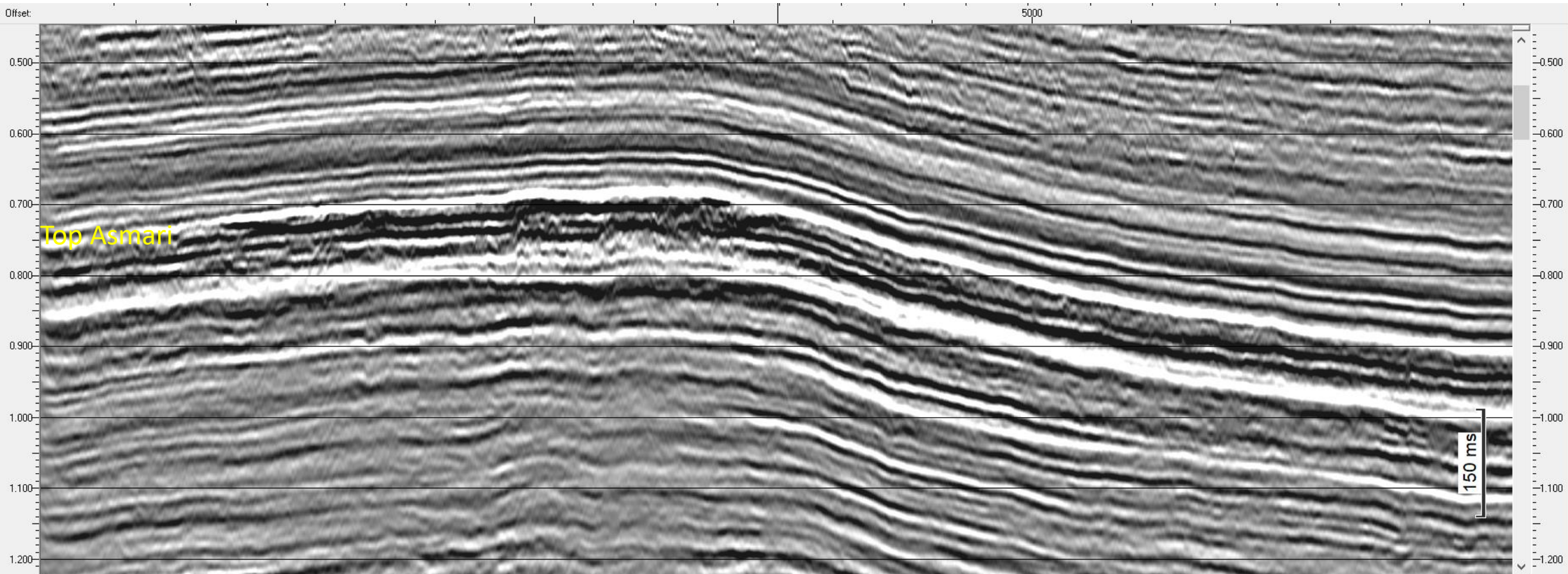


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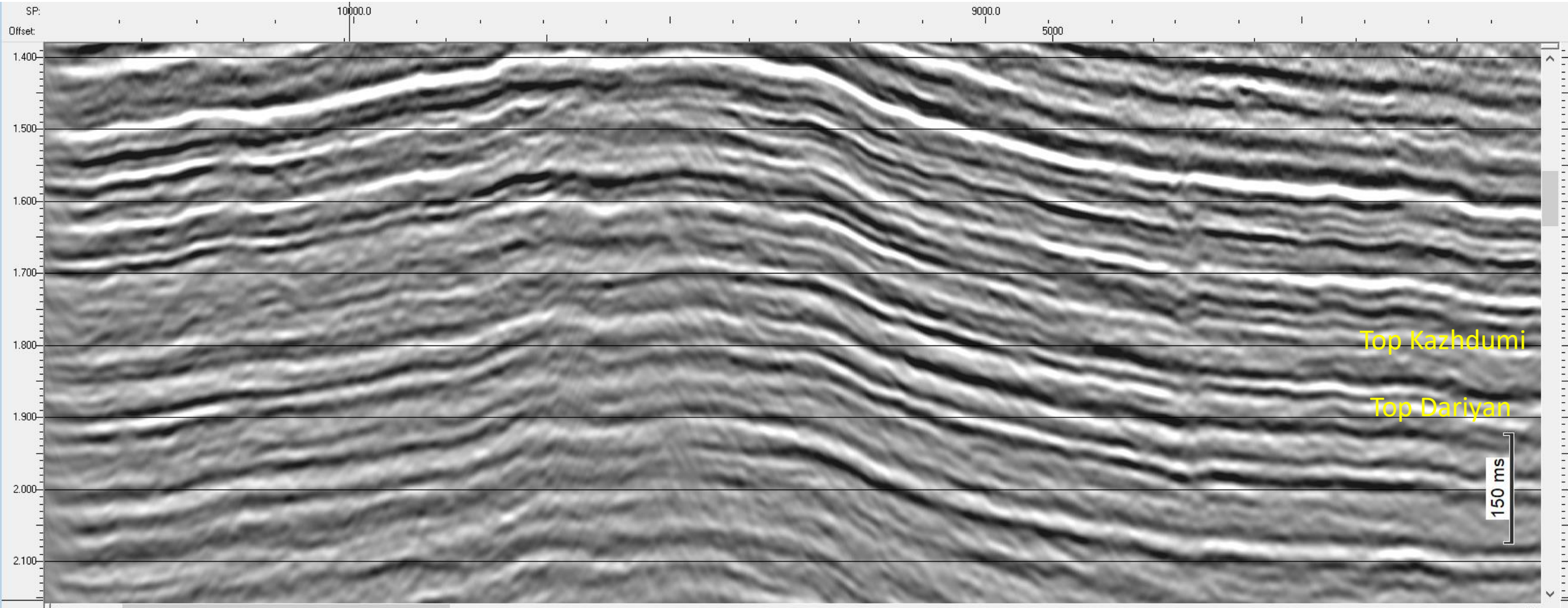


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Aboozar Line 9158BBCD Repro



Aboozar Line 9158BBCD Repro



Aboozar Line 9158BBCD Repro

