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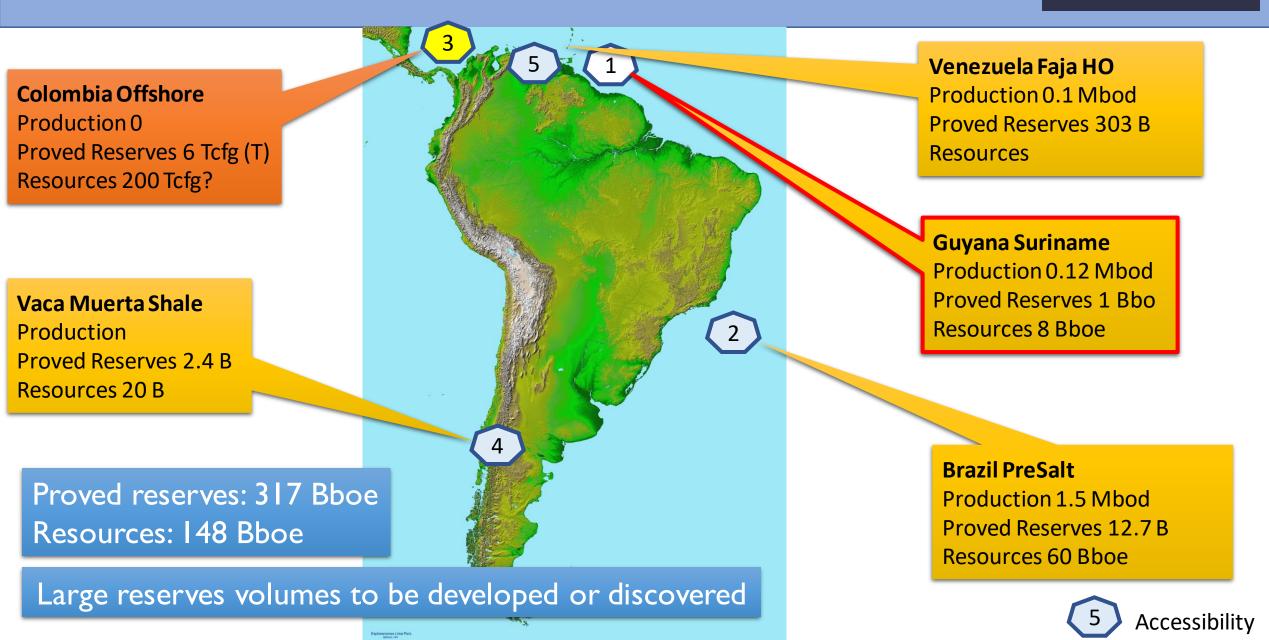
VIRTUAL RESEARCH SYMPOSIUM Latin America & Caribbean Region

SOUTHEAST CARIBBEAN & GUIANA BASINS 17-18 September 2020

Guyana Suriname basin: Exploration past, brilliant present and promising future of a new world class basin **Max Torres** Managing Partner, Plata Energy September 18, 2020

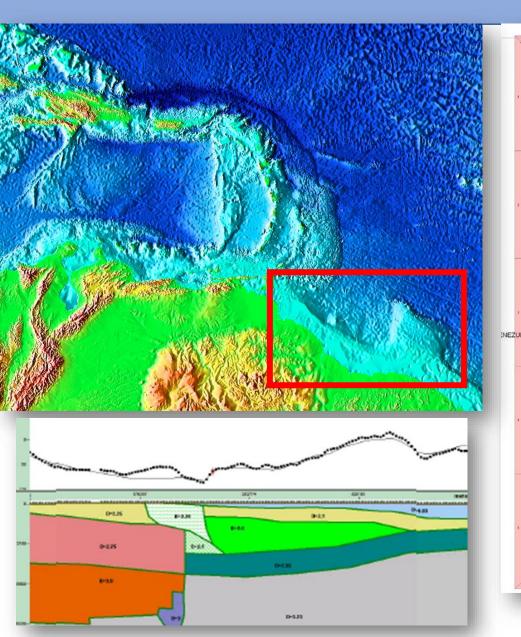
World class E&P plays in LatAm

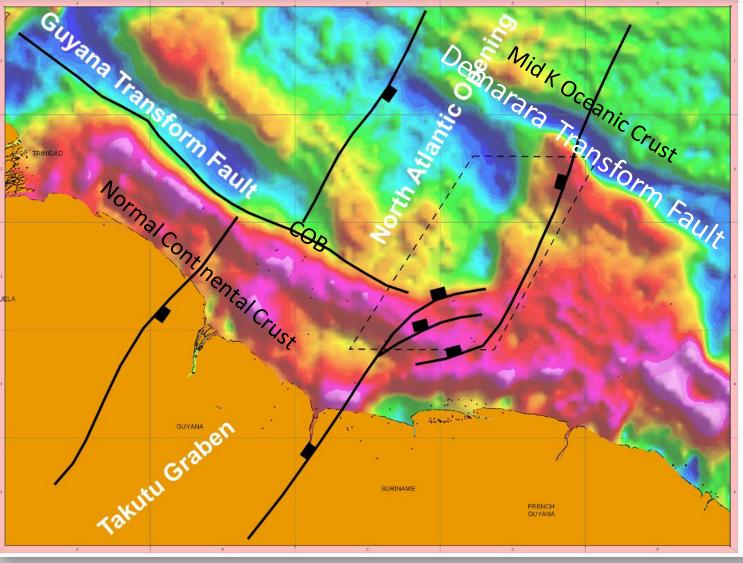




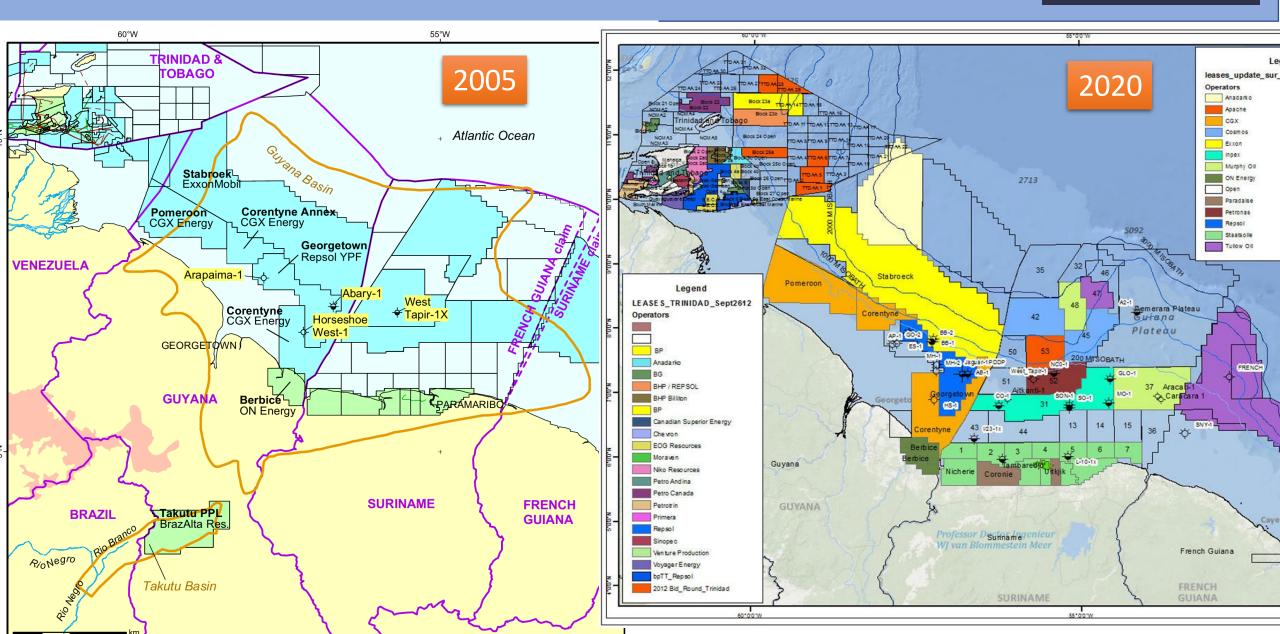
Basin configuration : Gravity map and crustal elements



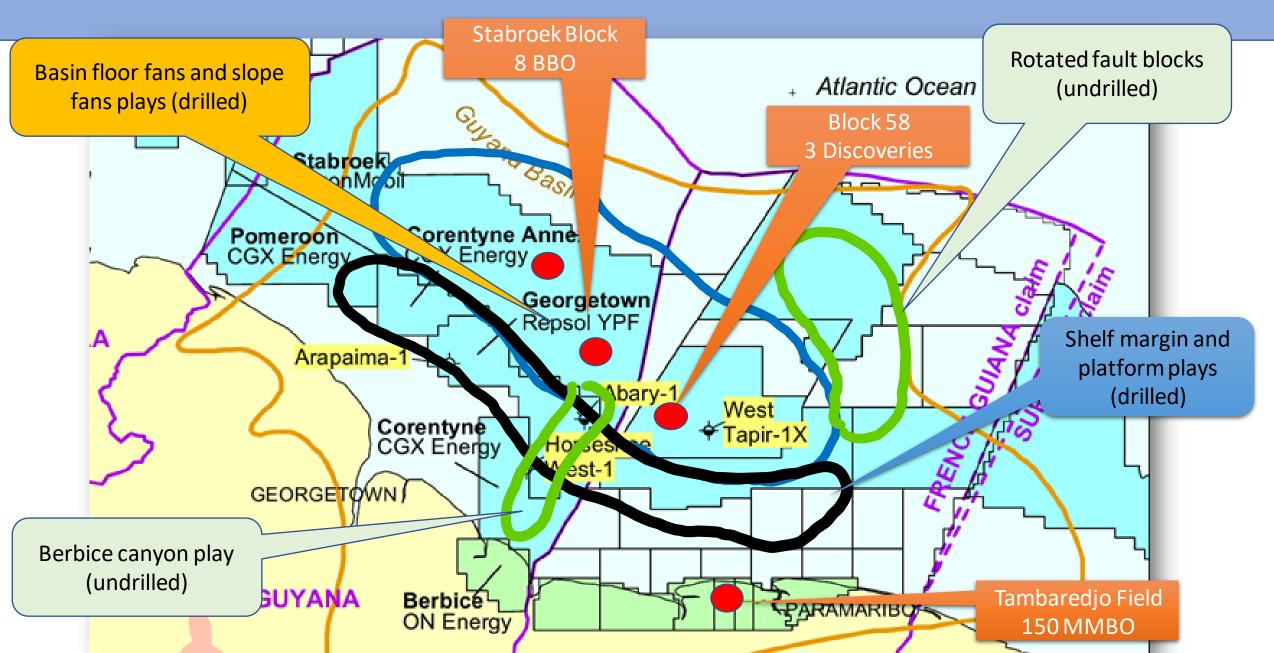




Guyana Suriname contract evolution 15 years

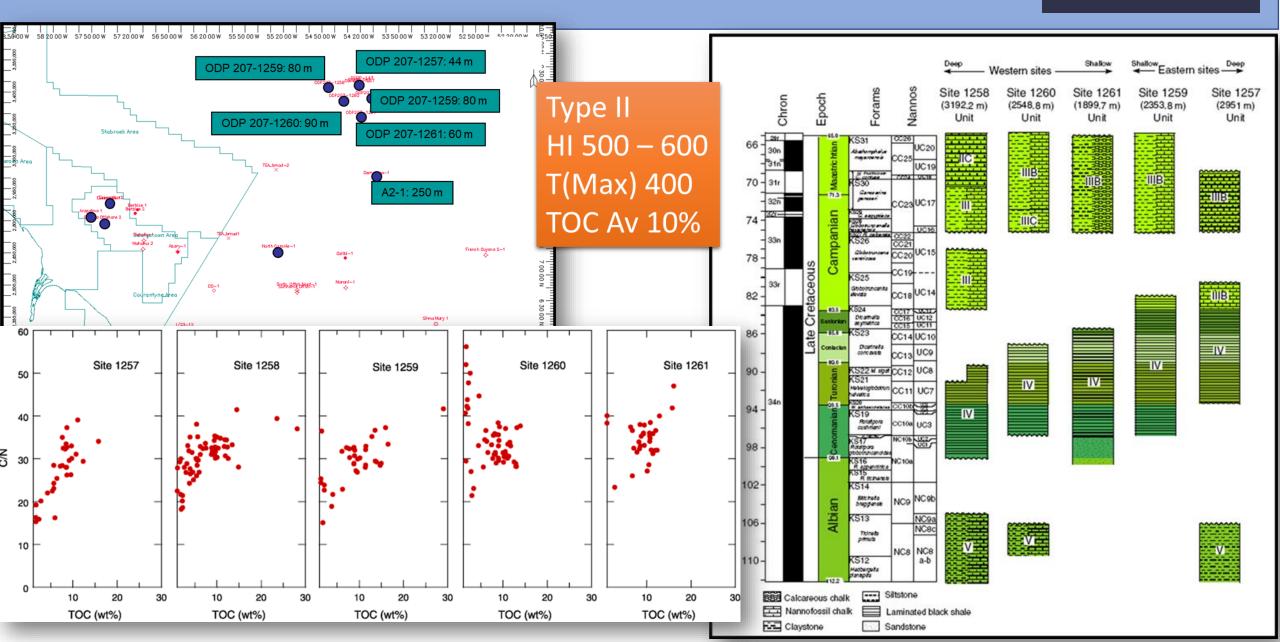


Guyana Suriname basin multiple play summary



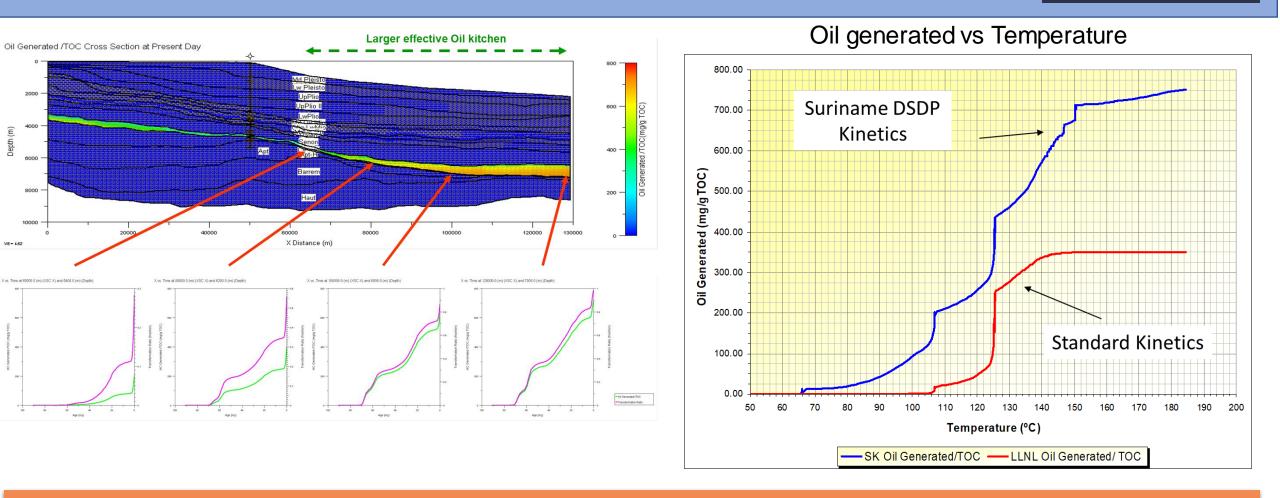
DSDP 144 (1970) and ODP 207 (2003)

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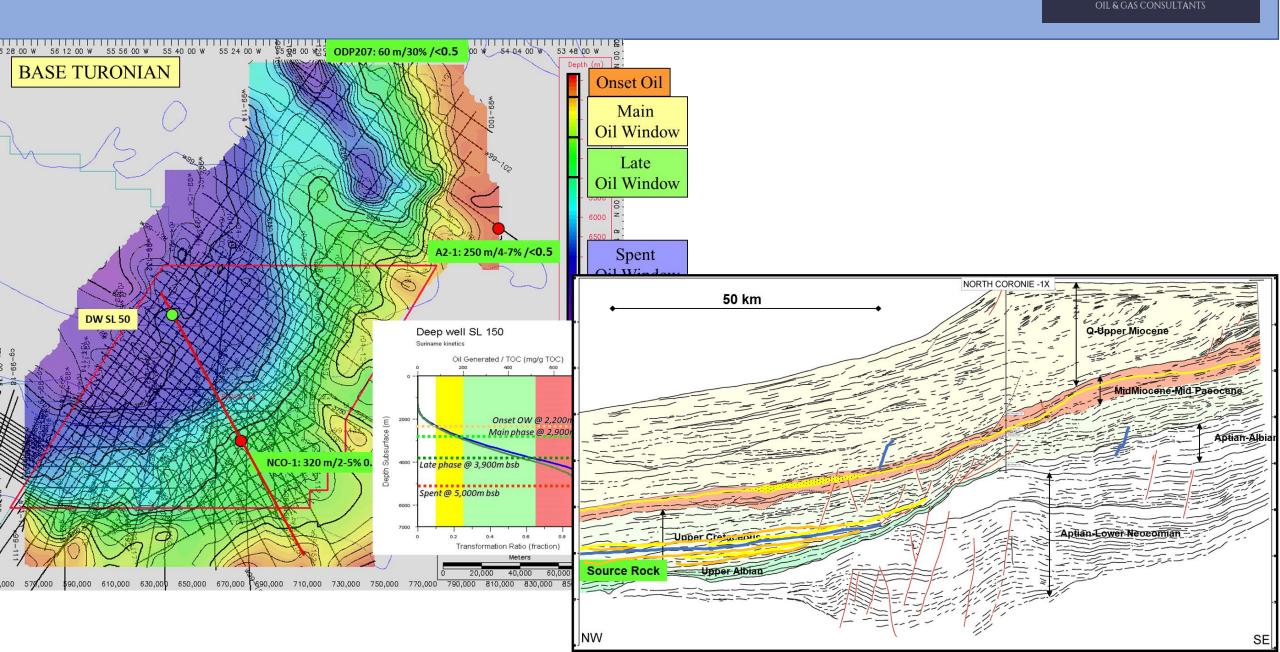
Exceptional Cretaceous source rock

LAIA ENERC oil & gas consultants



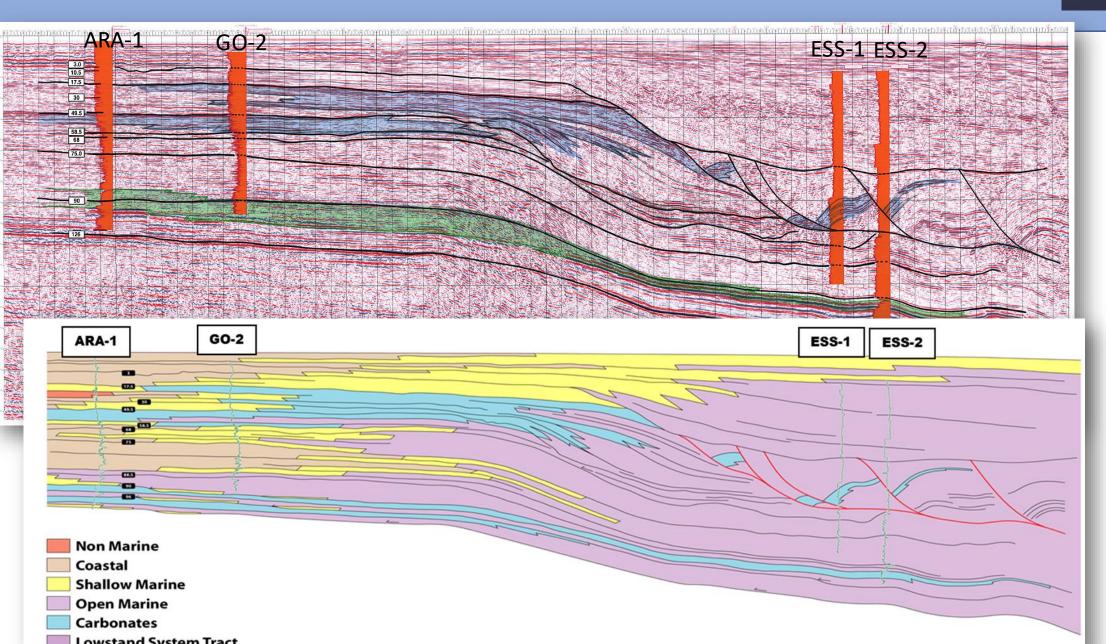
Impact of the quality of the Suriname kerogen: 10% of TR is 33 mg/gTOC with the standard kerogen and is 81 mg/gTOC with the Suriname kinetics.
 More oil earlier (at any equivalent temperature) and more oil at the end of the process (eg: 150°C)

Geochemical signature Cretaceous source rock



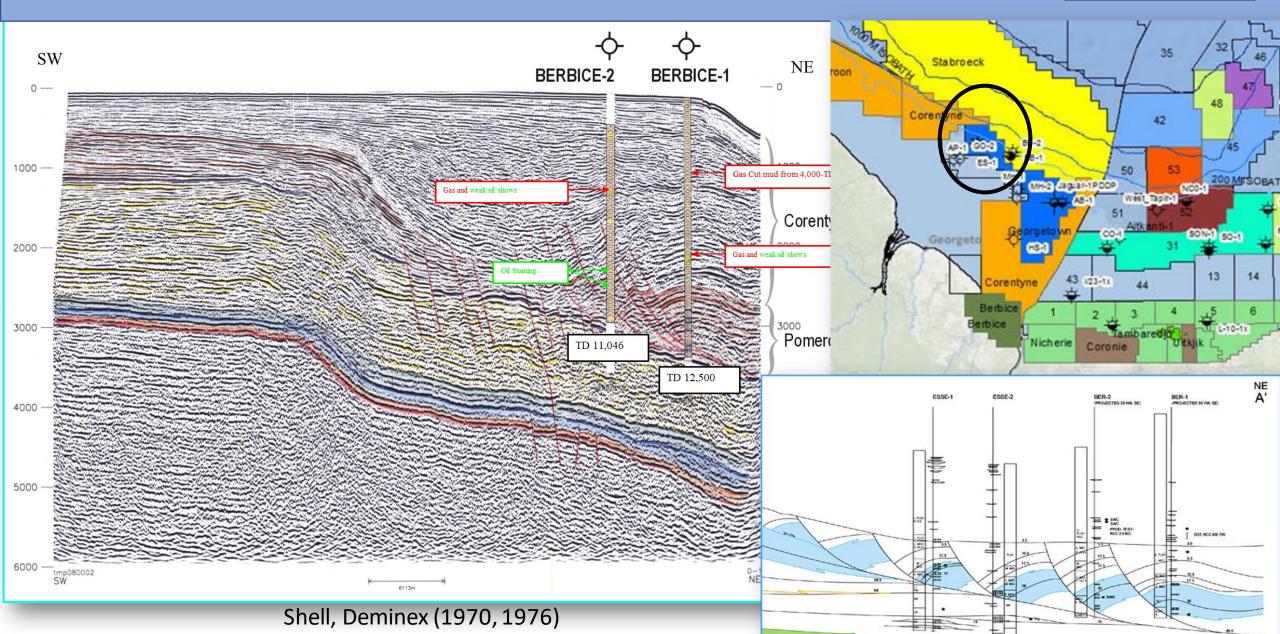
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First wave: Shelf edge and platform plays



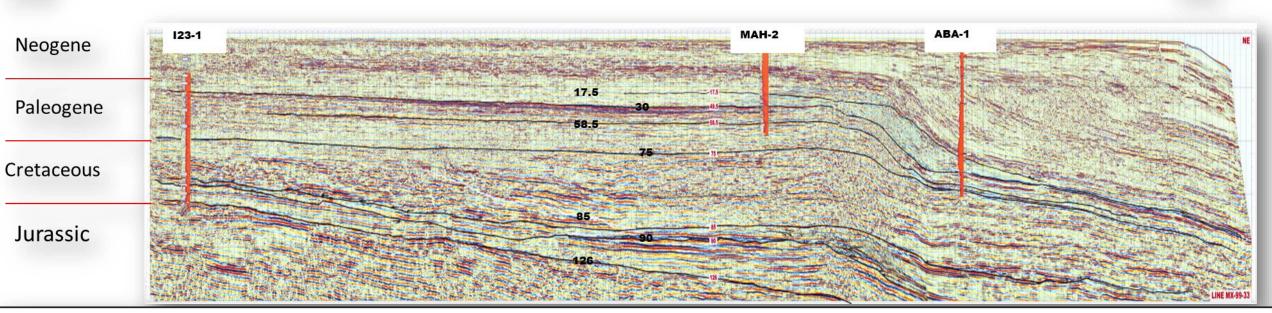
Shelf edge and platform plays – Listric rotated blocks

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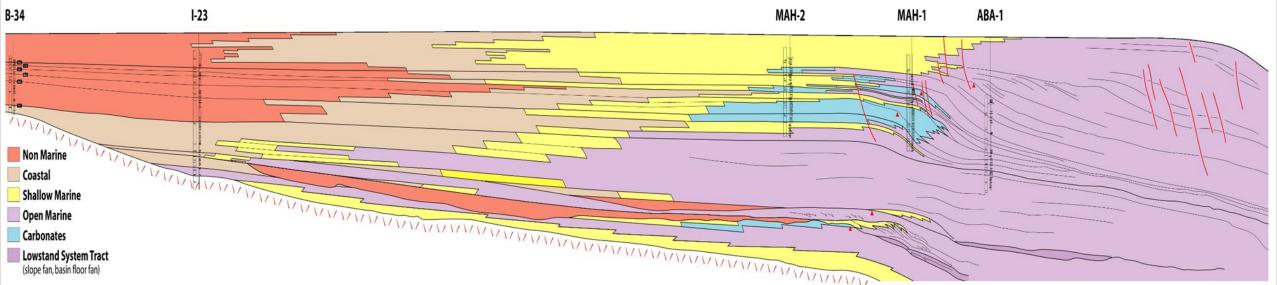
First wave: Shelf edge and platform plays





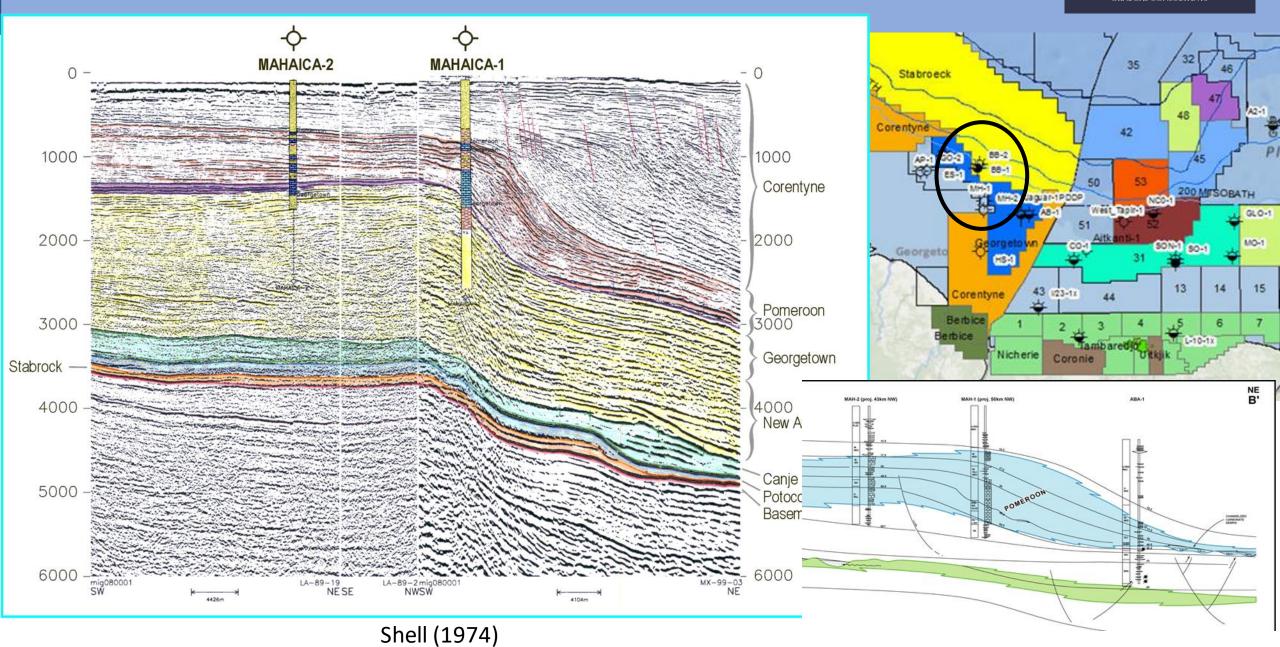
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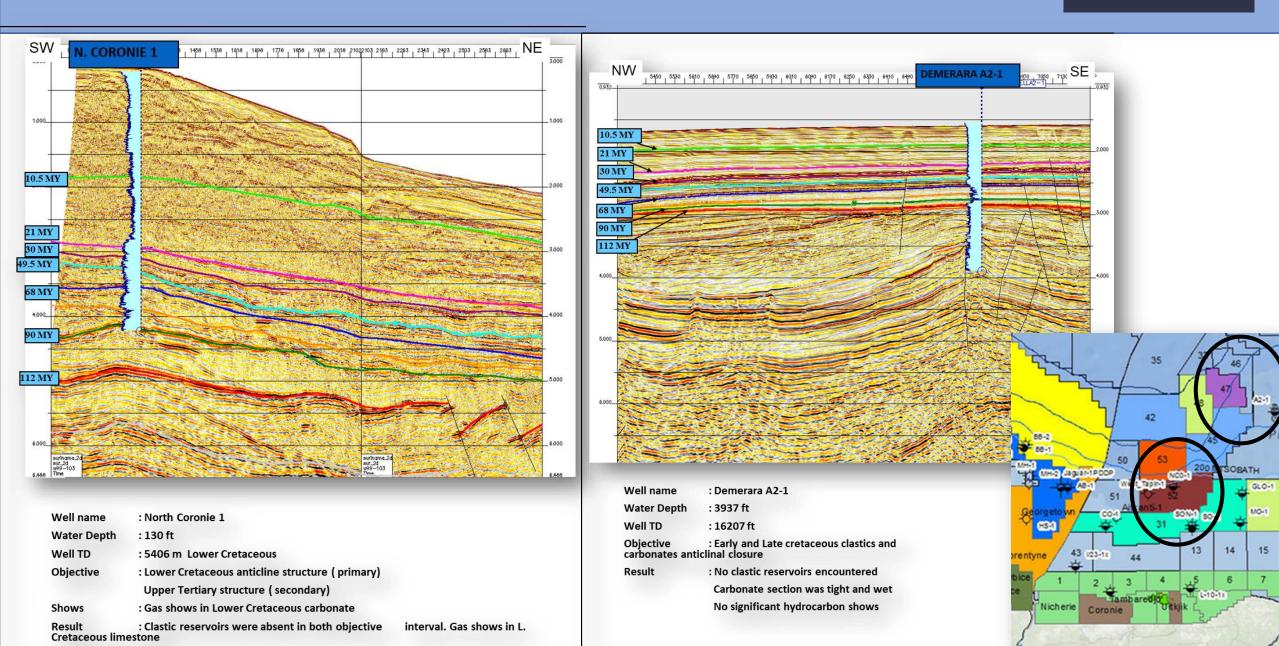


Carbonate reservoirs: Reef, platform and patch reef

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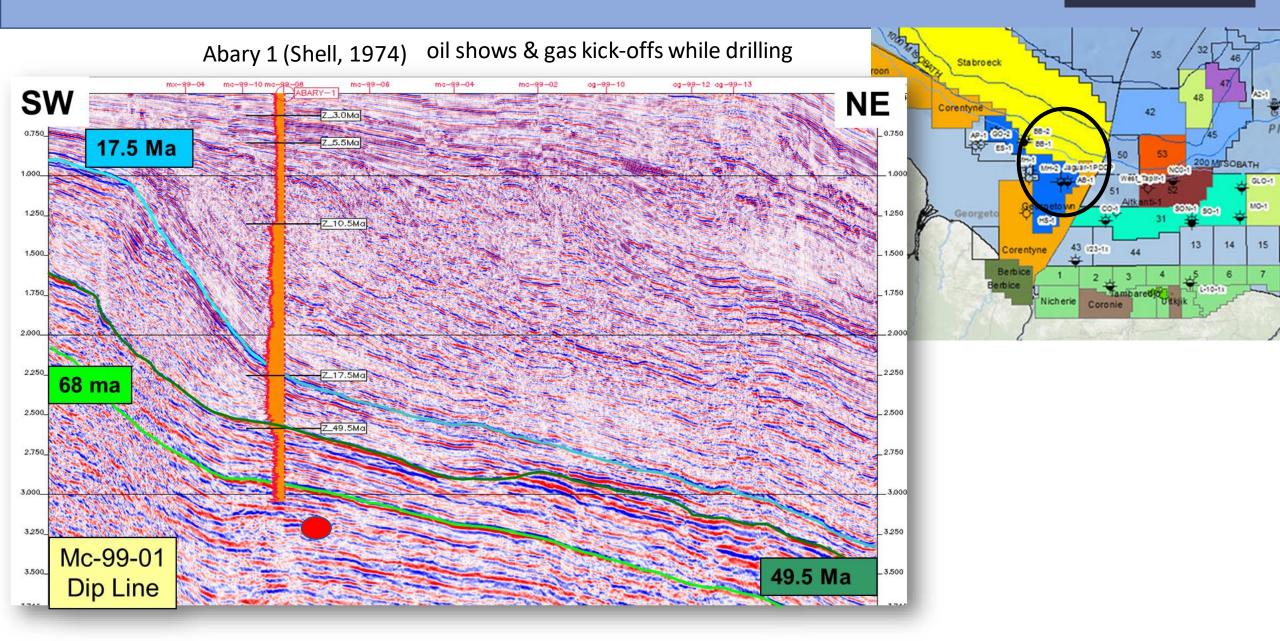
Subtle structural closures



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Subtle structural closures

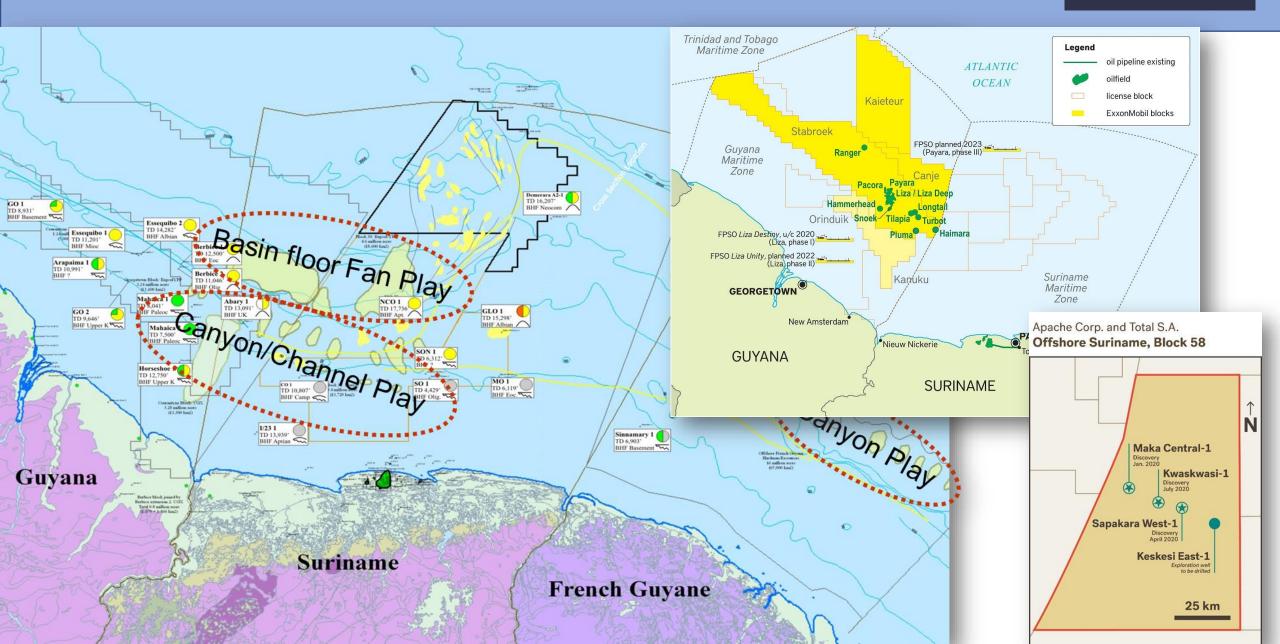
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Second wave: Basin floor fans, slope fans and canyon plays

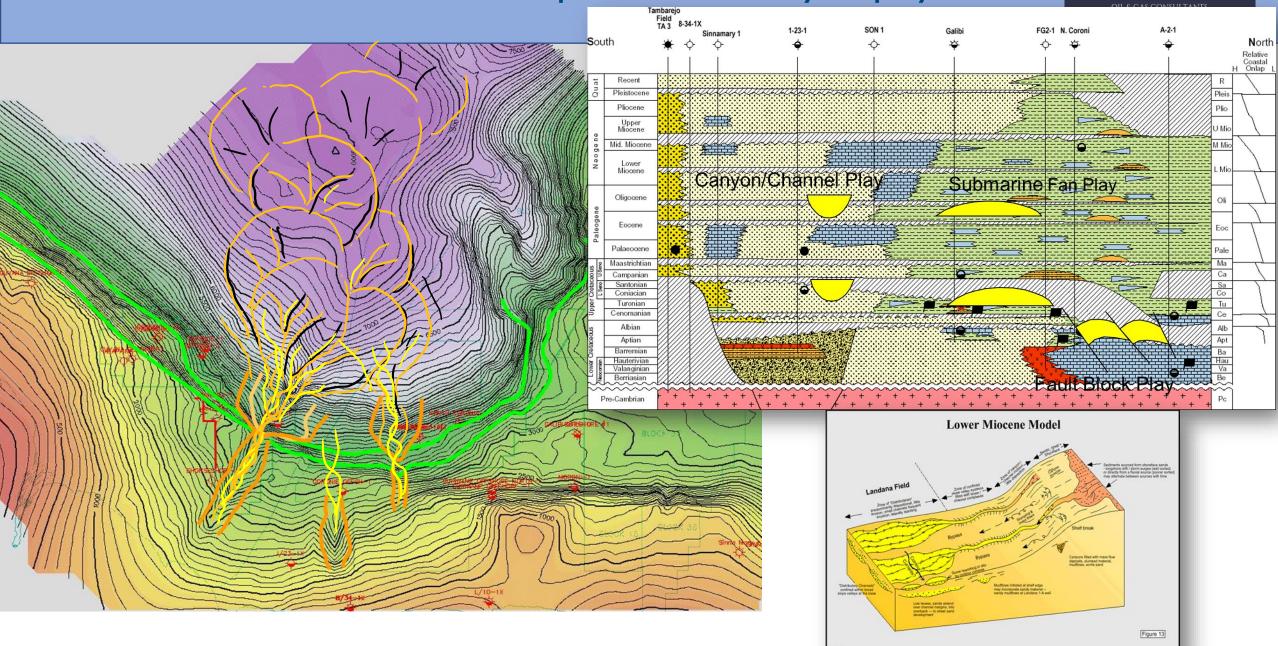
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Second wave: Basin floor fans, slope fans and canyon plays

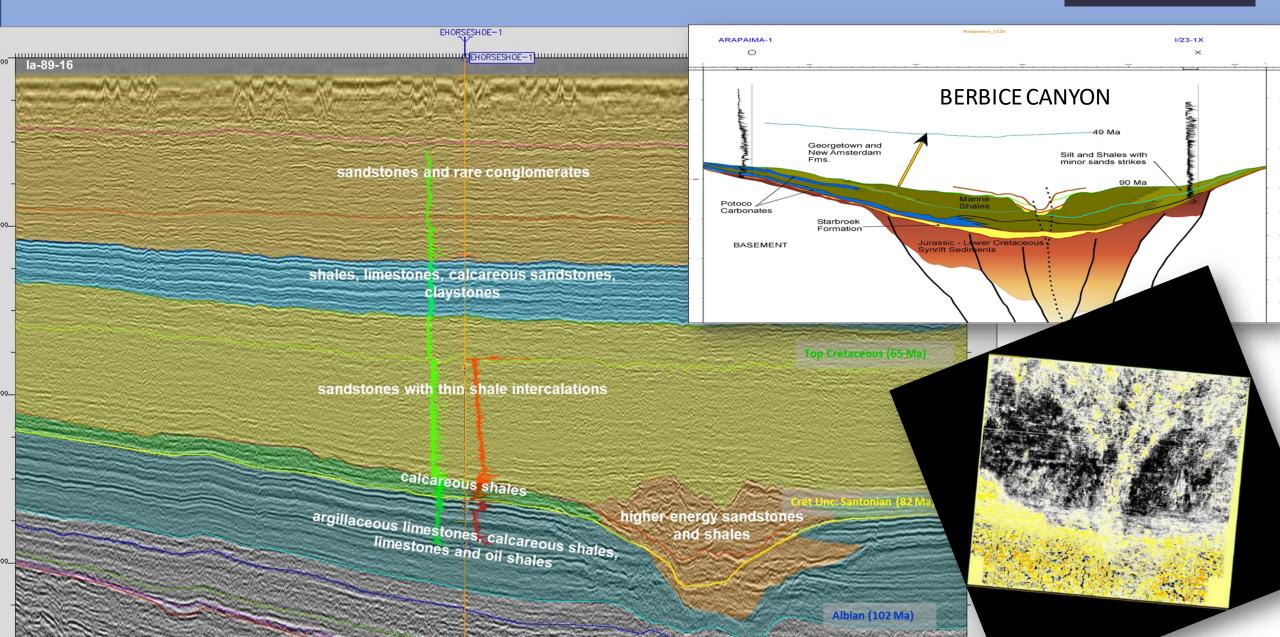
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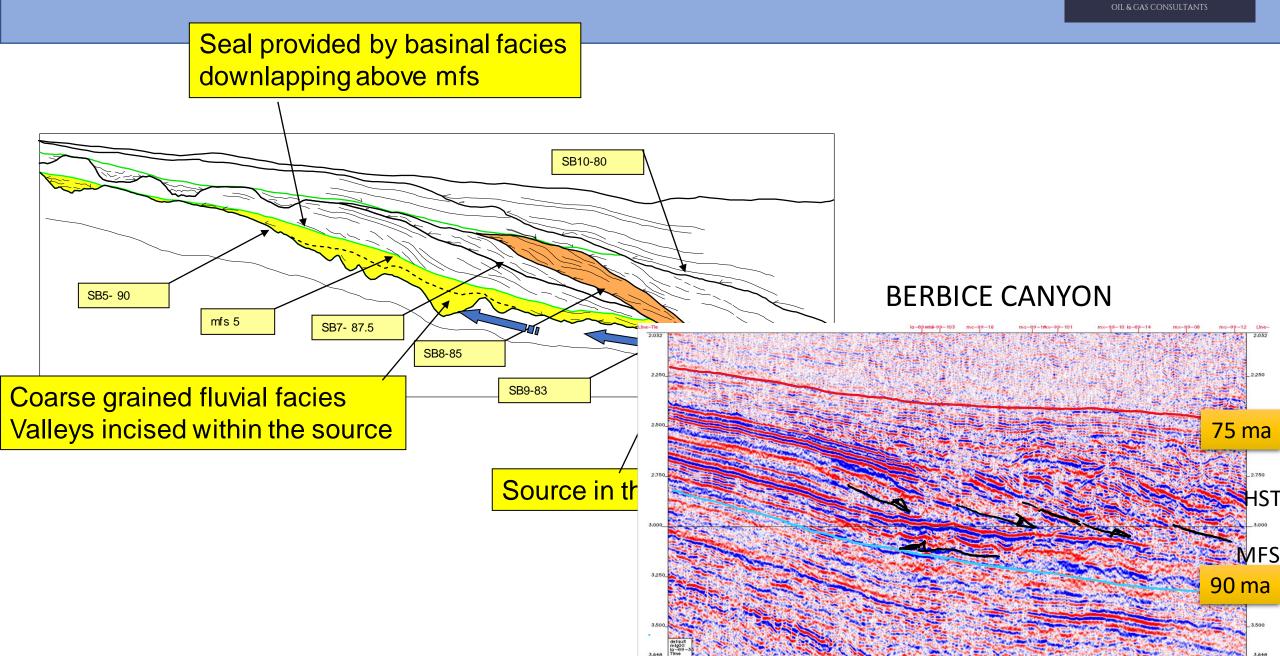
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Third Wave : Berbice canyon play - Shallow water plays





Third wave : Berbice canyon play - Shallow water plays



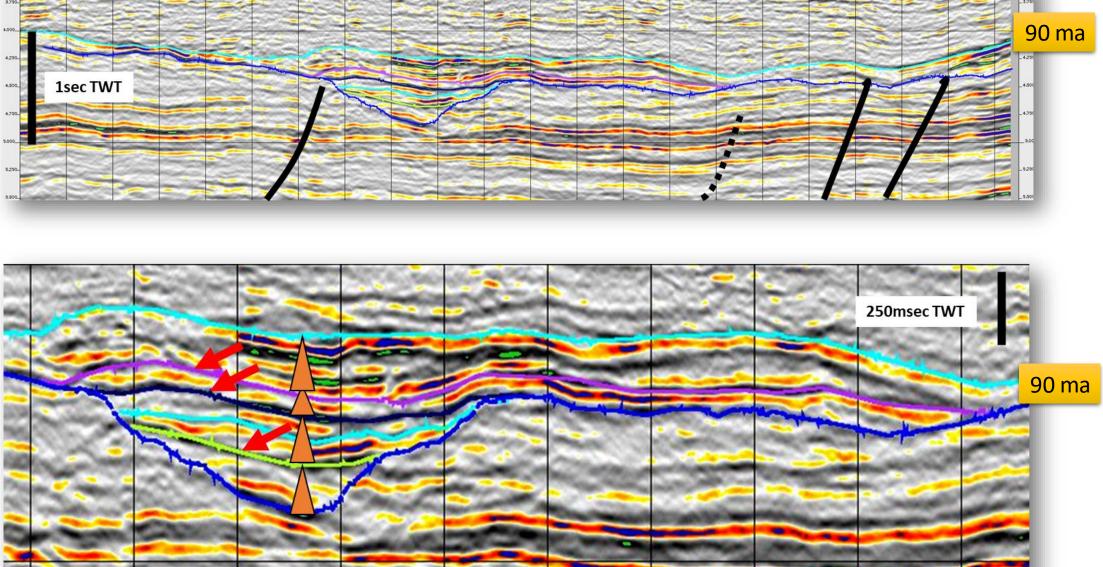
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Berbice canyon deep water play

BERBICE CANYON SYSTEM 3dr Order Sequences

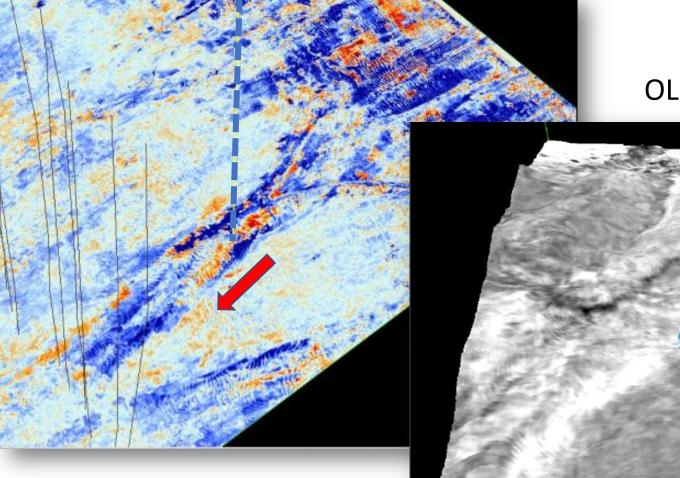
3dr Order Sequences

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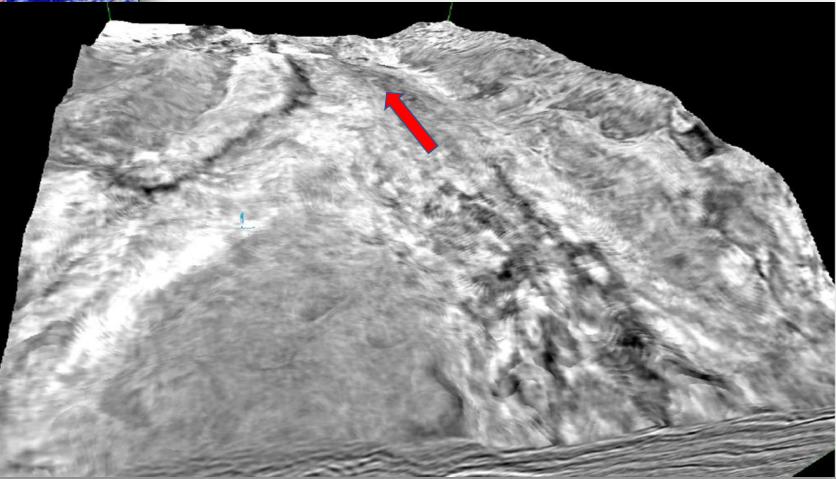


Oligocene West Tapir slope canyon play

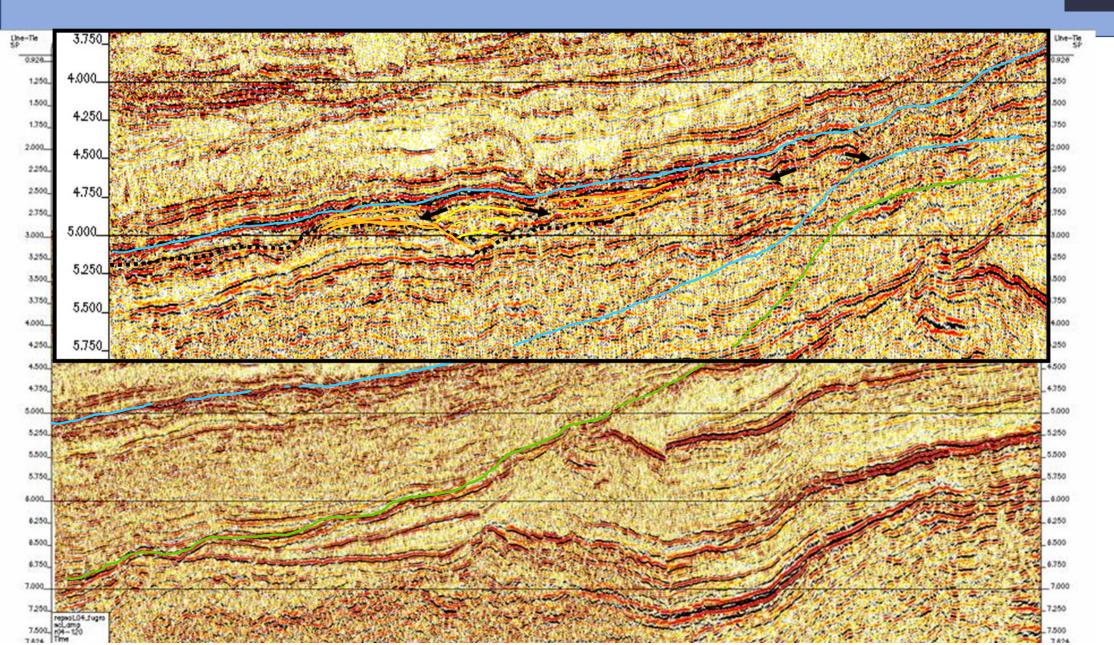




OLIGOCENE WEST TAPIR CANYON PLAY

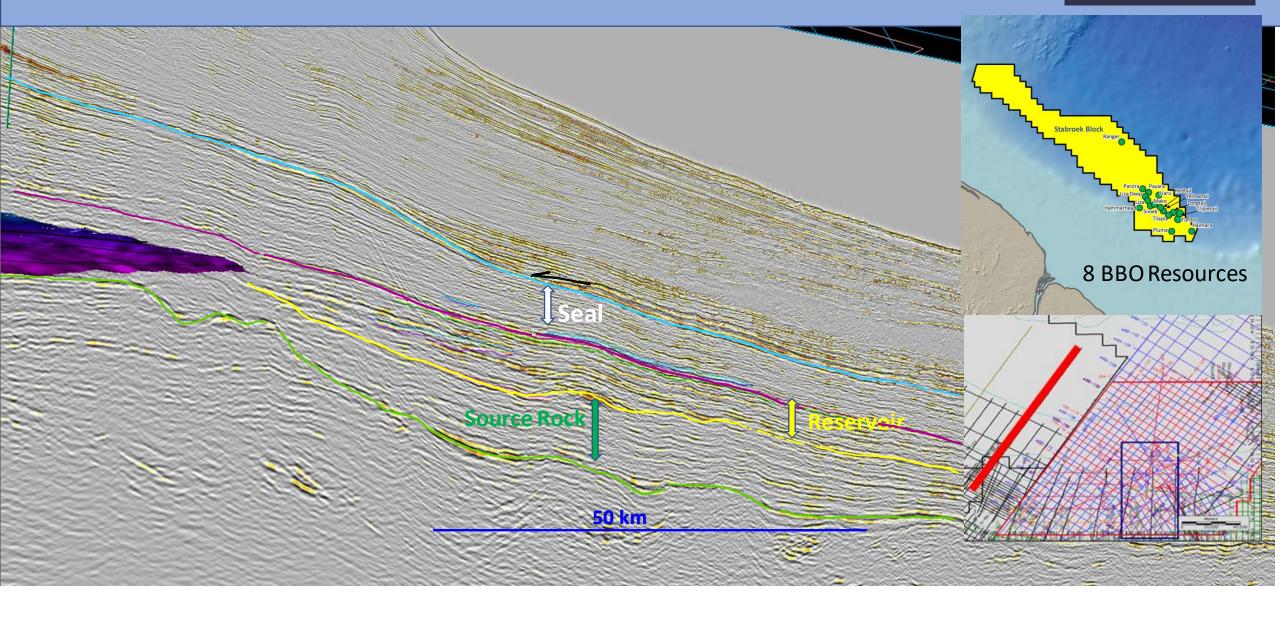


Oligocene slope fans deep water play



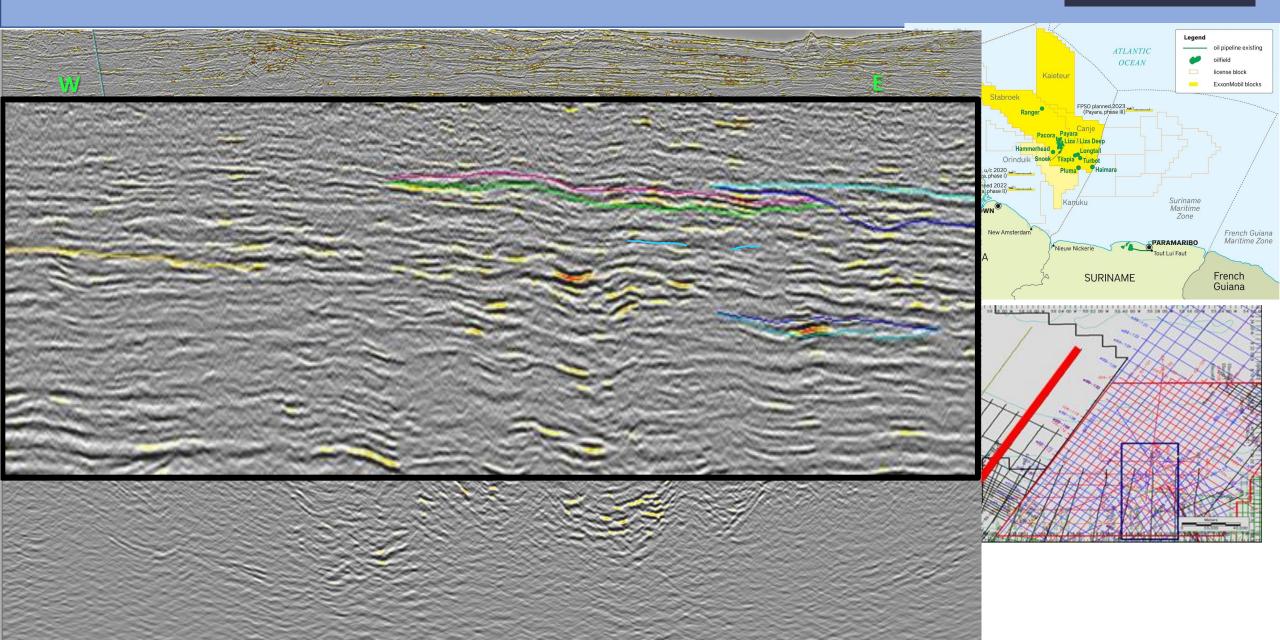
Second wave: Basin floor fans and slope canyon plays



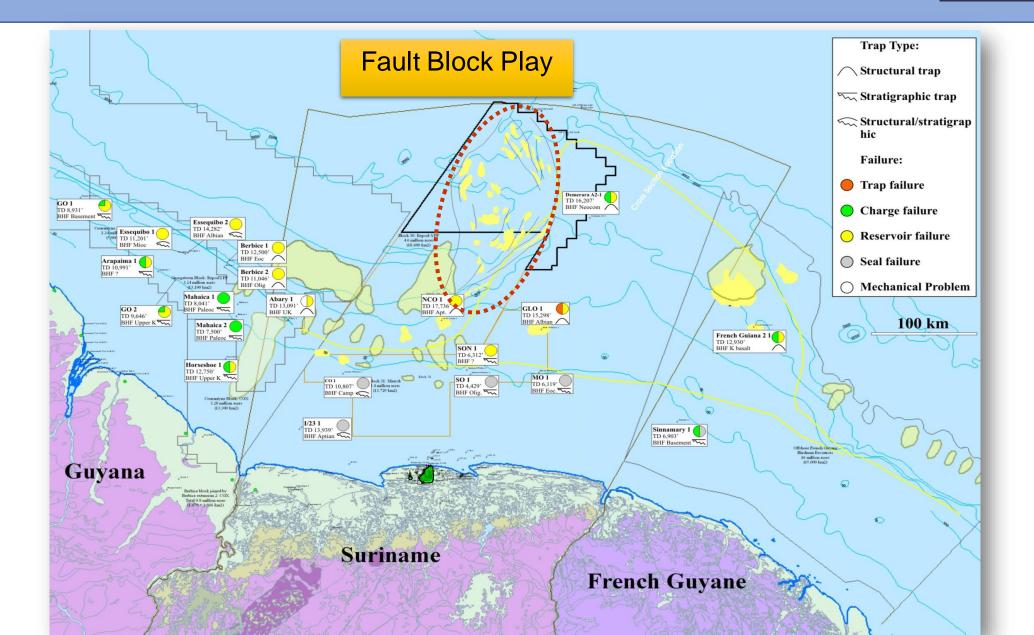


Second wave: Basin floor fans and slope canyon plays

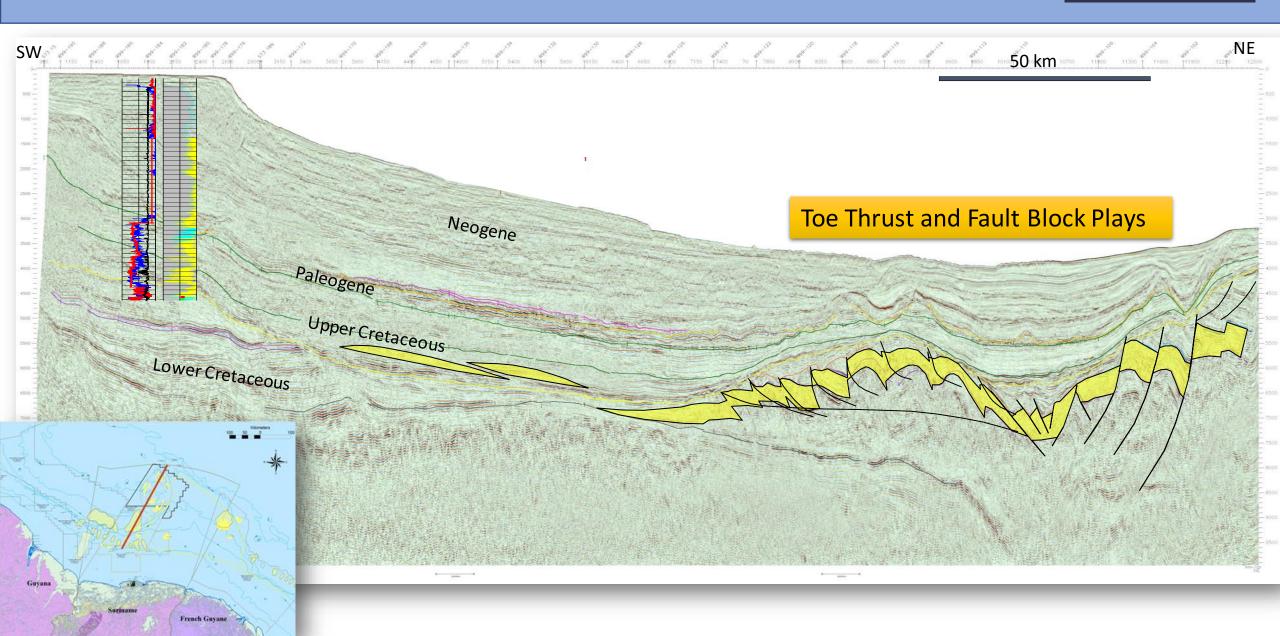
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Ultra deep water plays : Aptian rotated fault block play

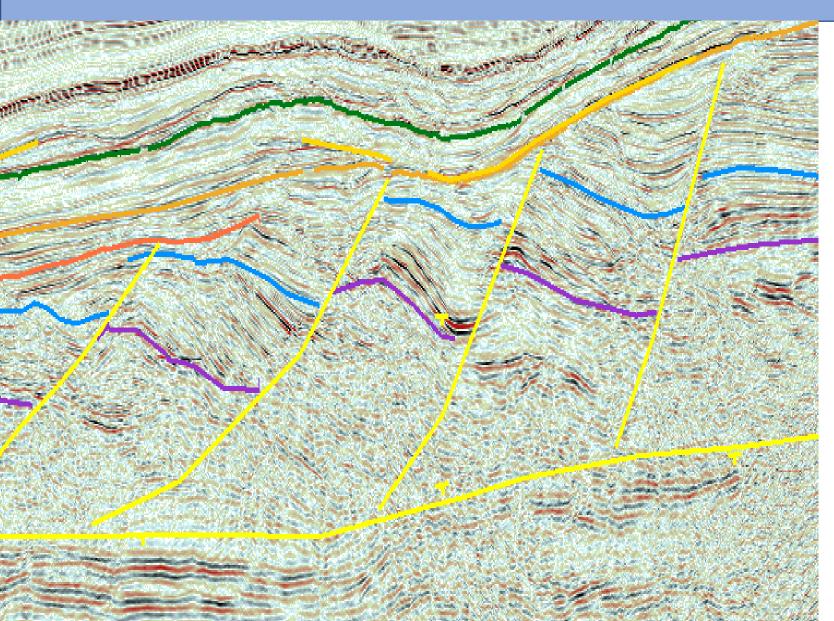


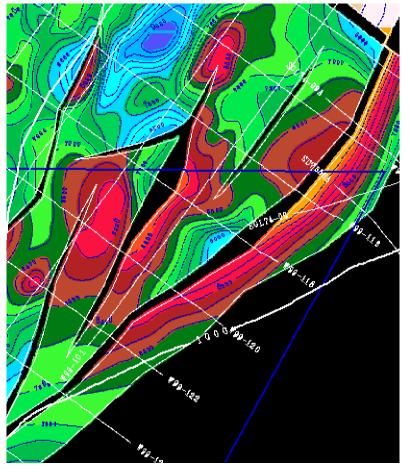
Ultra deep water plays : Aptian rotated fault block play



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Ultra deep water plays : Aptian rotated fault block play

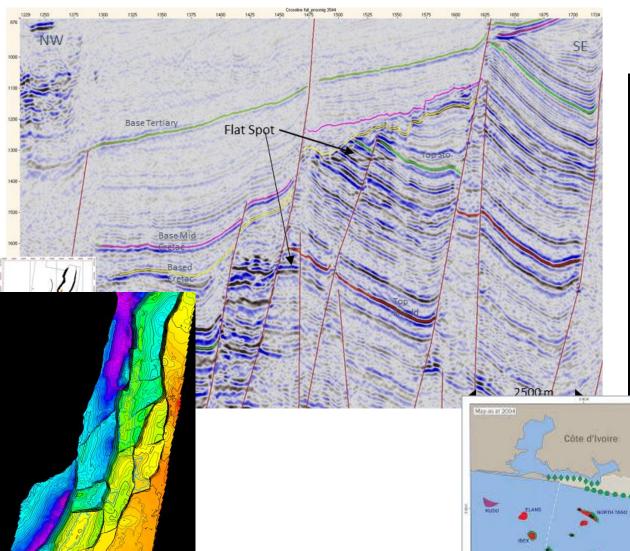




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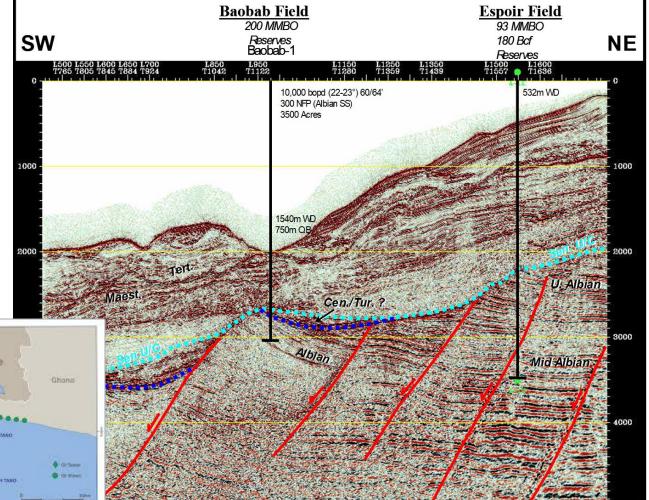
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Norway Barents Sea : Skrugard Discovery (2012)



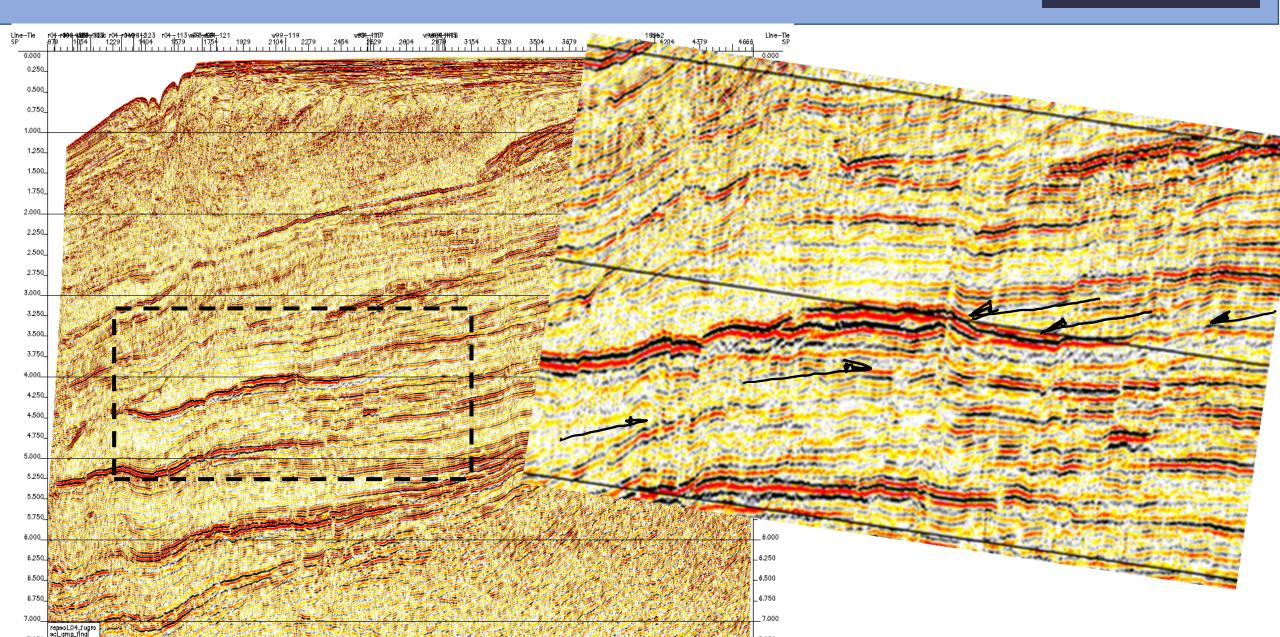
Cote d'Ivorie Baobab Field (2001)

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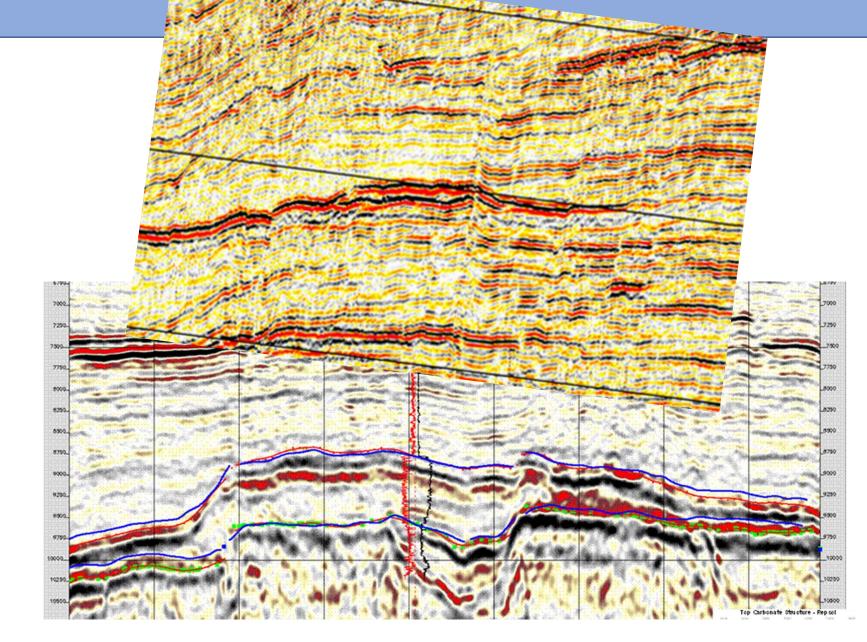


Guyana Suriname plays : Suriname Aptian reef build up

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Guyana Sur Jays : Suriname Aptian reef build up



HCAL (in) MD 16 AHT90 0.2 (ohm.m)2000 NPHI 0.45 (ff3/ff3)0.15 HCS 8700 8700 8800 9000<	(gAPI) 150 BS (in) 16		0.2 (ohm.m)2000 AHT10 0.2 (ohm.m)2000	RHOZ to NPHI RHOZ 1.95 (g/cm3) 2.95	Sw 1 (ft3/ft3) 0
		MD : 200 ft		S OF DRIVE OF	HCS
		8700			
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Conclusions

- Powerful Aptian to Cenomanian Type II source rock
 Large influx of reservoir prone sands from PC Guyana shield
 Efficient conduits from platform/slope canyons to slope fand and basin floor fans
- Proven plays in Cretaceous basin floor and slope fan plays near 9 BBO found Failures related to lack of charge in shallower sections. Efficient Paleogene seal Future potential in Berbice canyon, Aptian rotated fault blocks and reef buildup plays

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