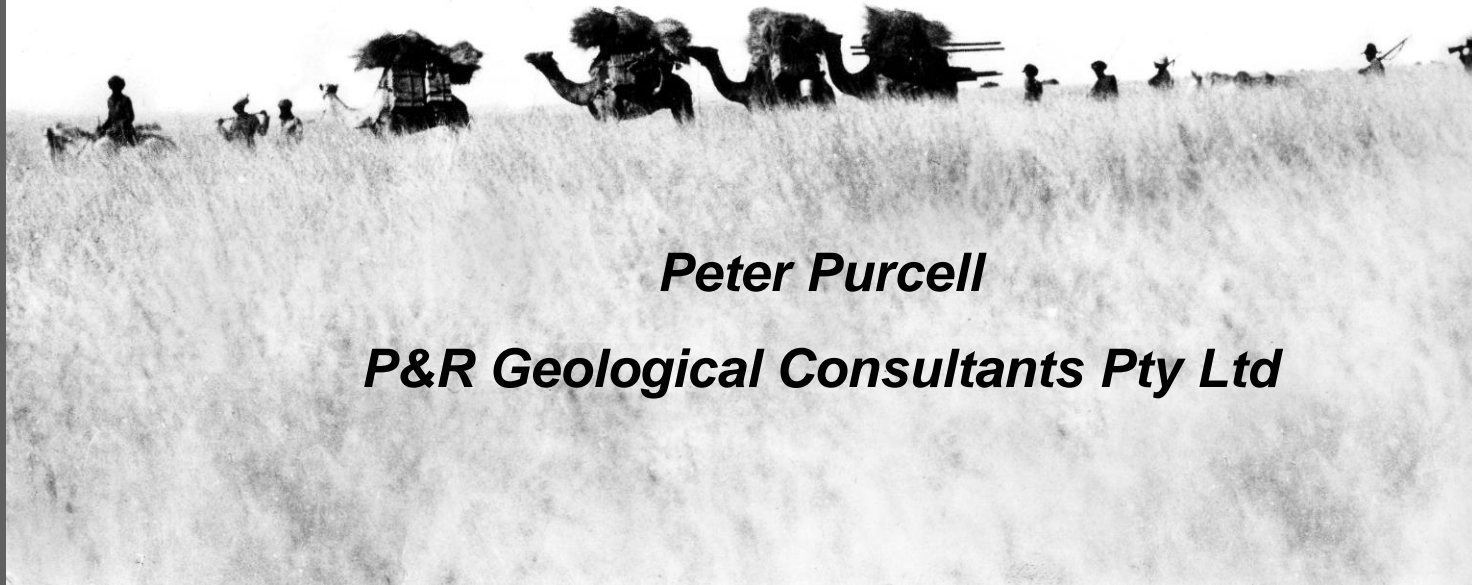


Oil and Gas Exploration in East Africa: A Brief History



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P&R Geological Consultants Pty Ltd***



Estimated resource discovered 2006-2013

- 3 - 4 billion barrels
- >200 Tcf



East Africa Rift
(courtesy of Tullow Oil)



Deep water Tanzania

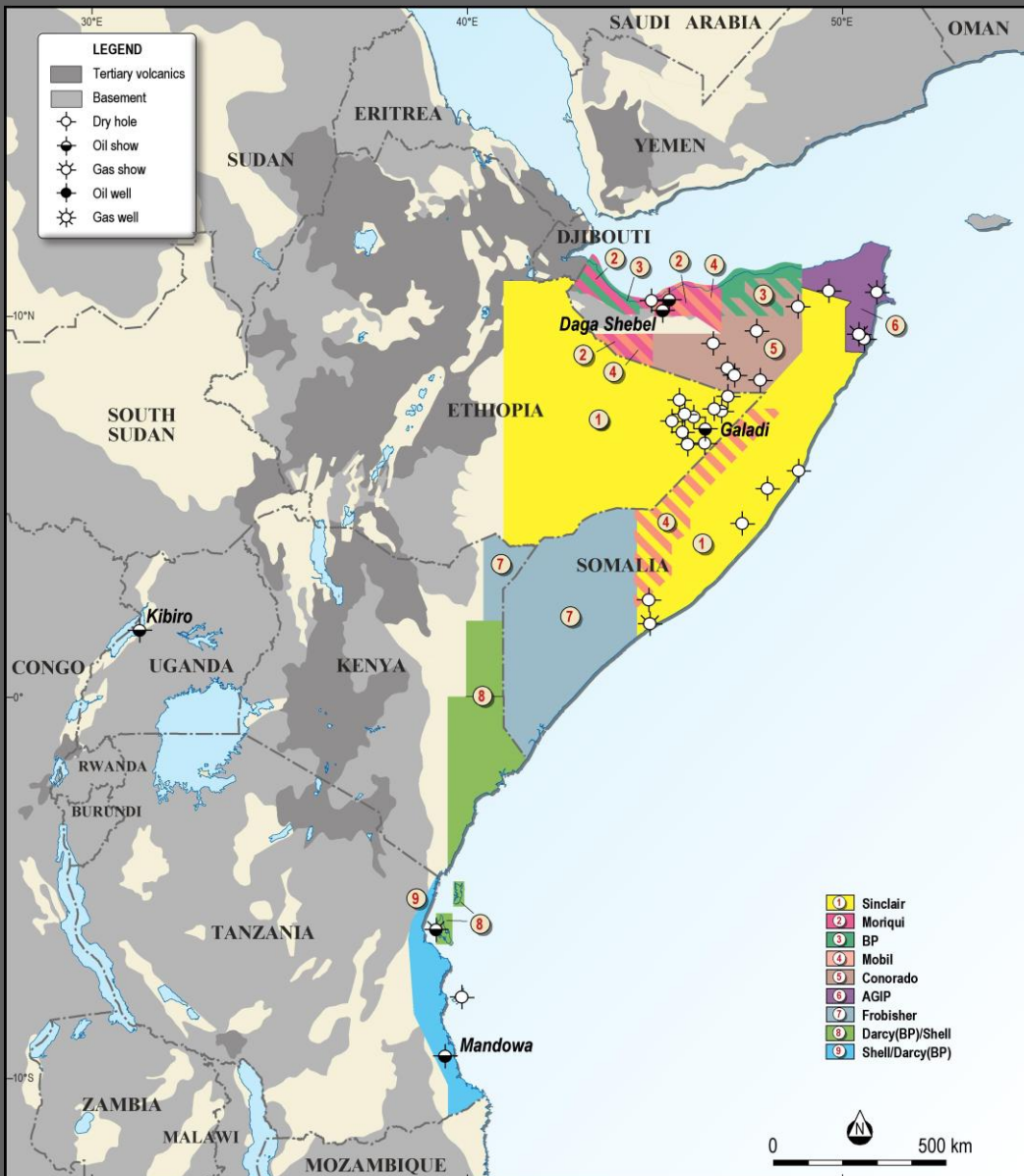
- Introduction
- Exploration history
- Company activity
- Drilling statistics
- Challenges



*Dudley Expedition to Abyssinia,
1920/1*

Exploration permits and wells, 1950s

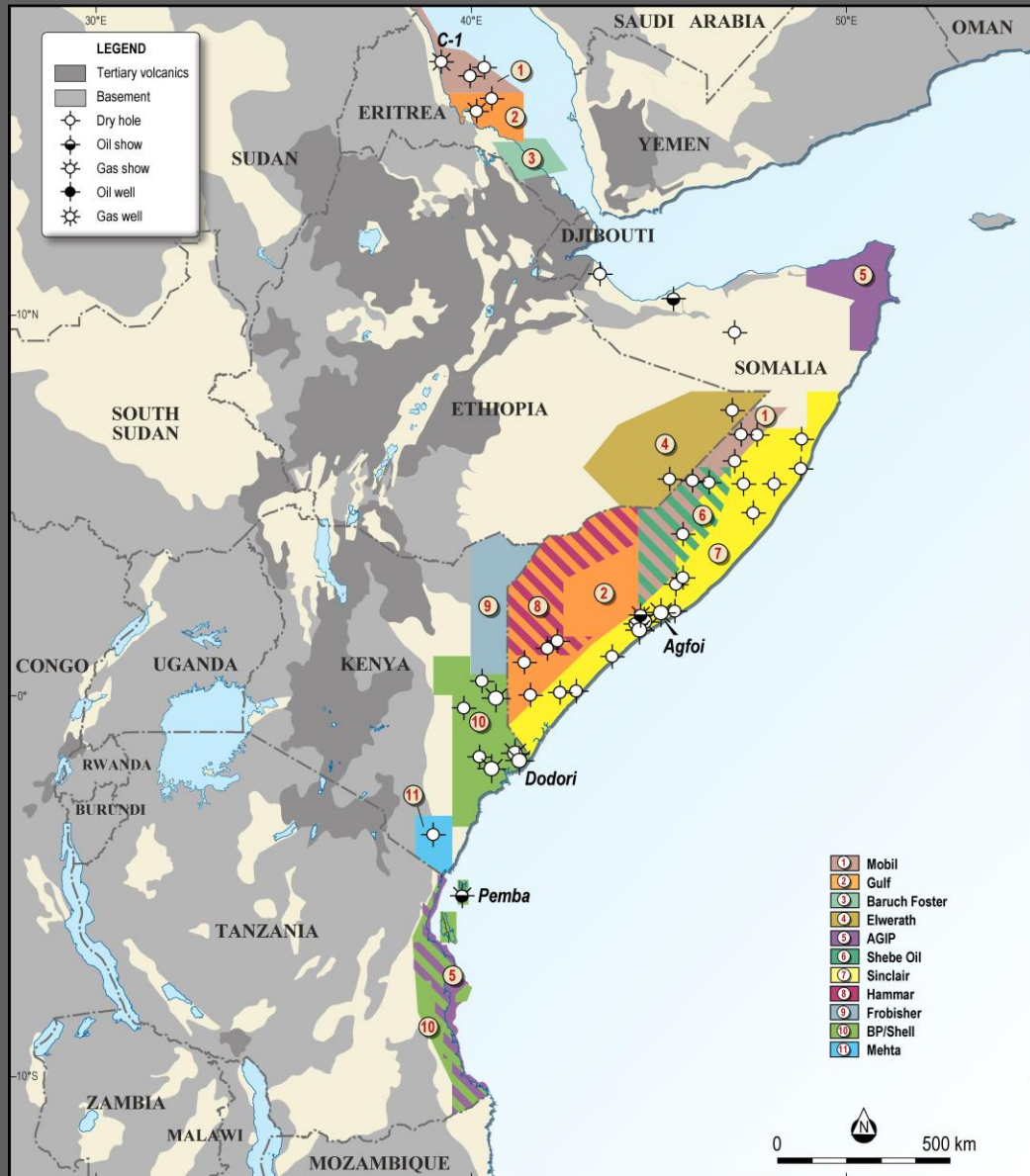
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BP drilling site. Kenya
(©BP plc. Courtesy of BP Archive)

Exploration permits and wells, 1960s

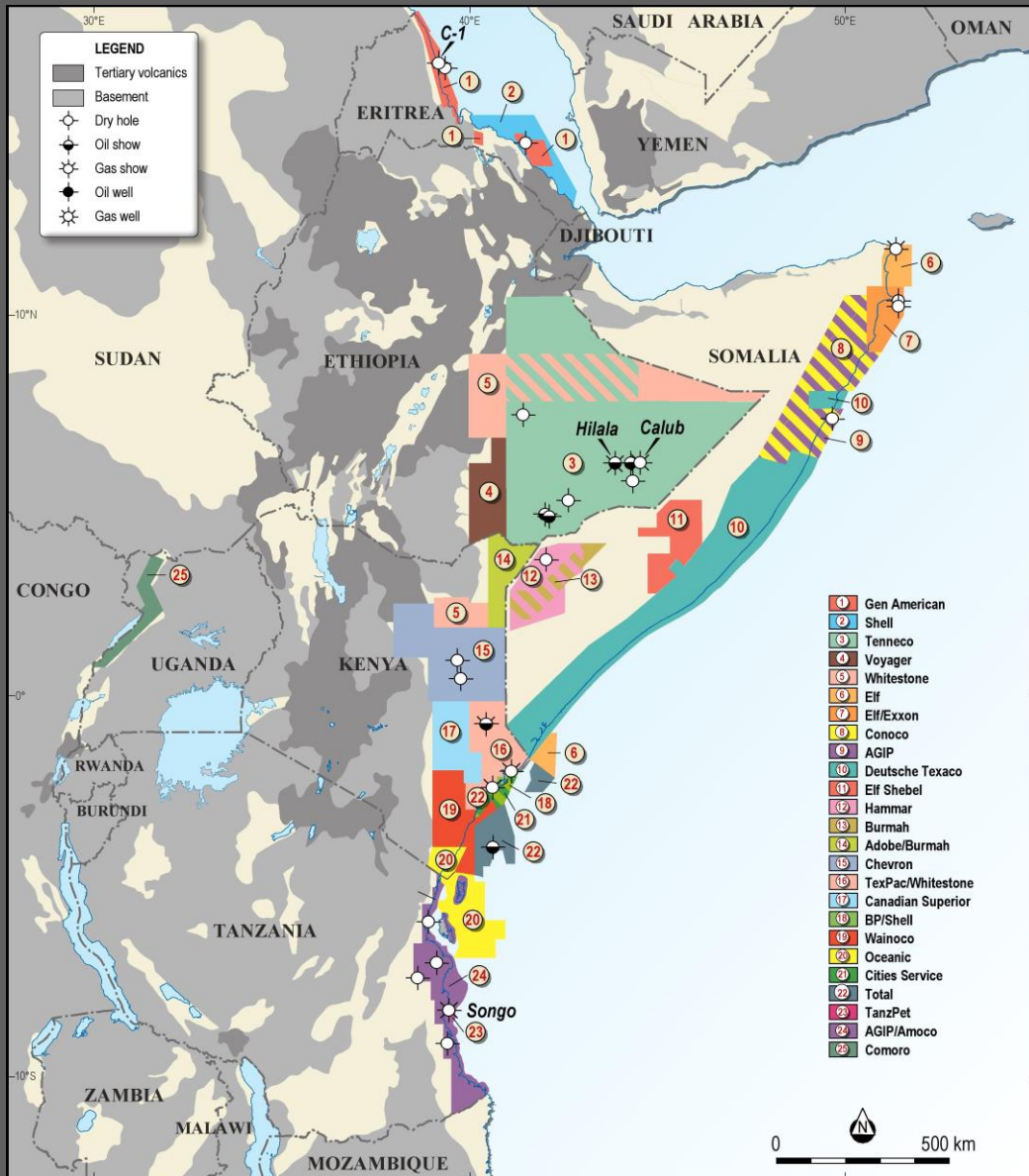
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Elwerath seismic crew, Ethiopia, c1964

Exploration permits and wells, 1970s

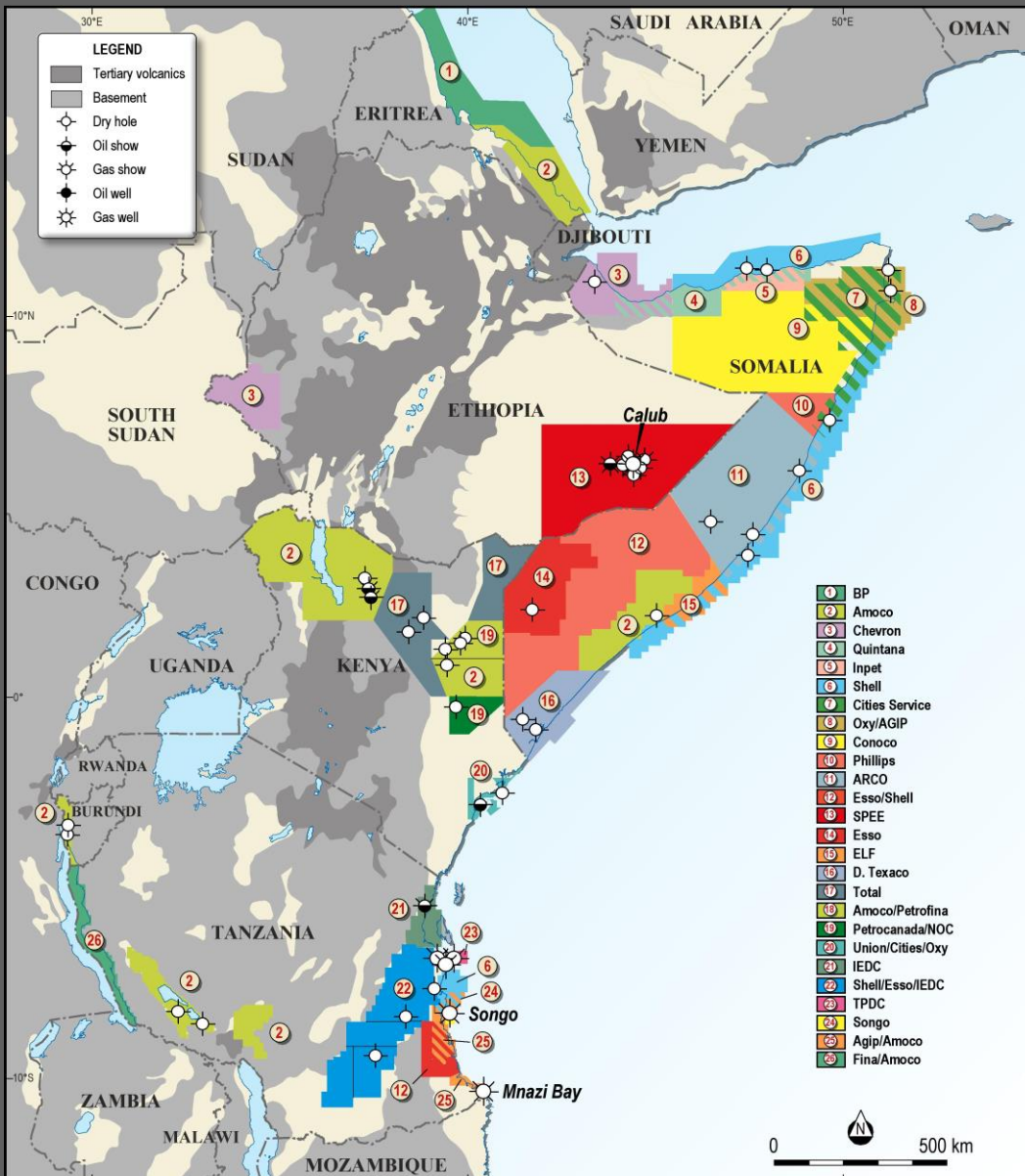
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Emperor Haile Selassie at Tenneco's Calub-1 gas discovery, 1973

Exploration permits and wells, 1980s

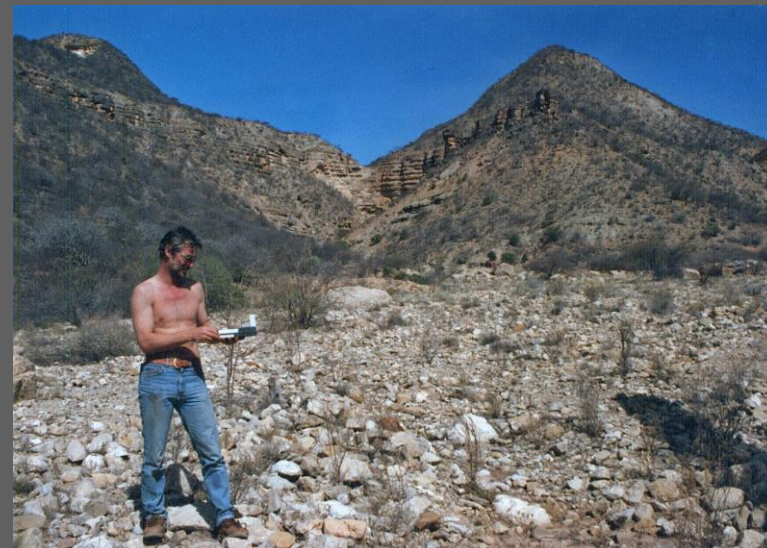
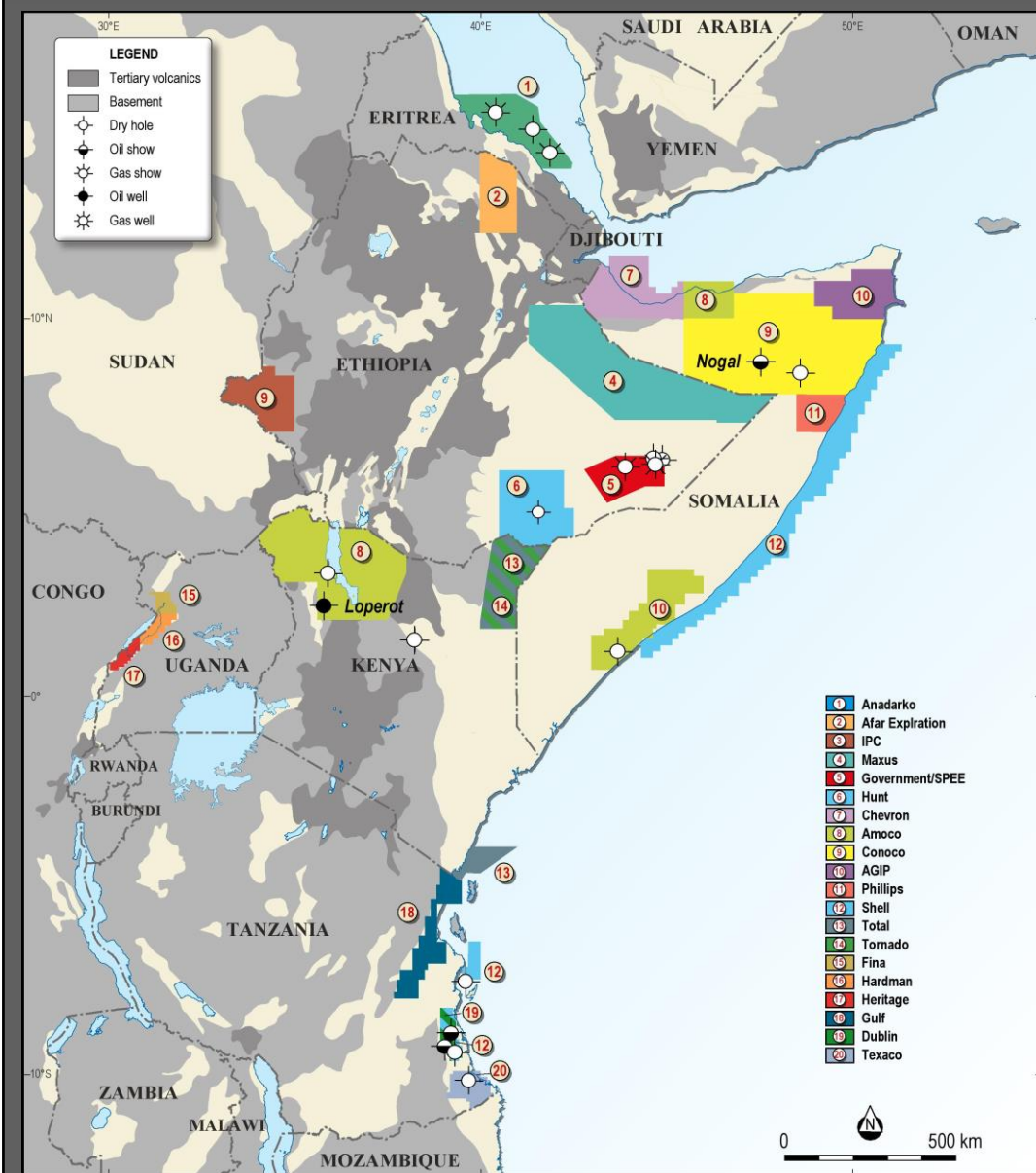
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SPEE drilling site, Ethiopia, 1980s

Exploration permits and wells, 1990s

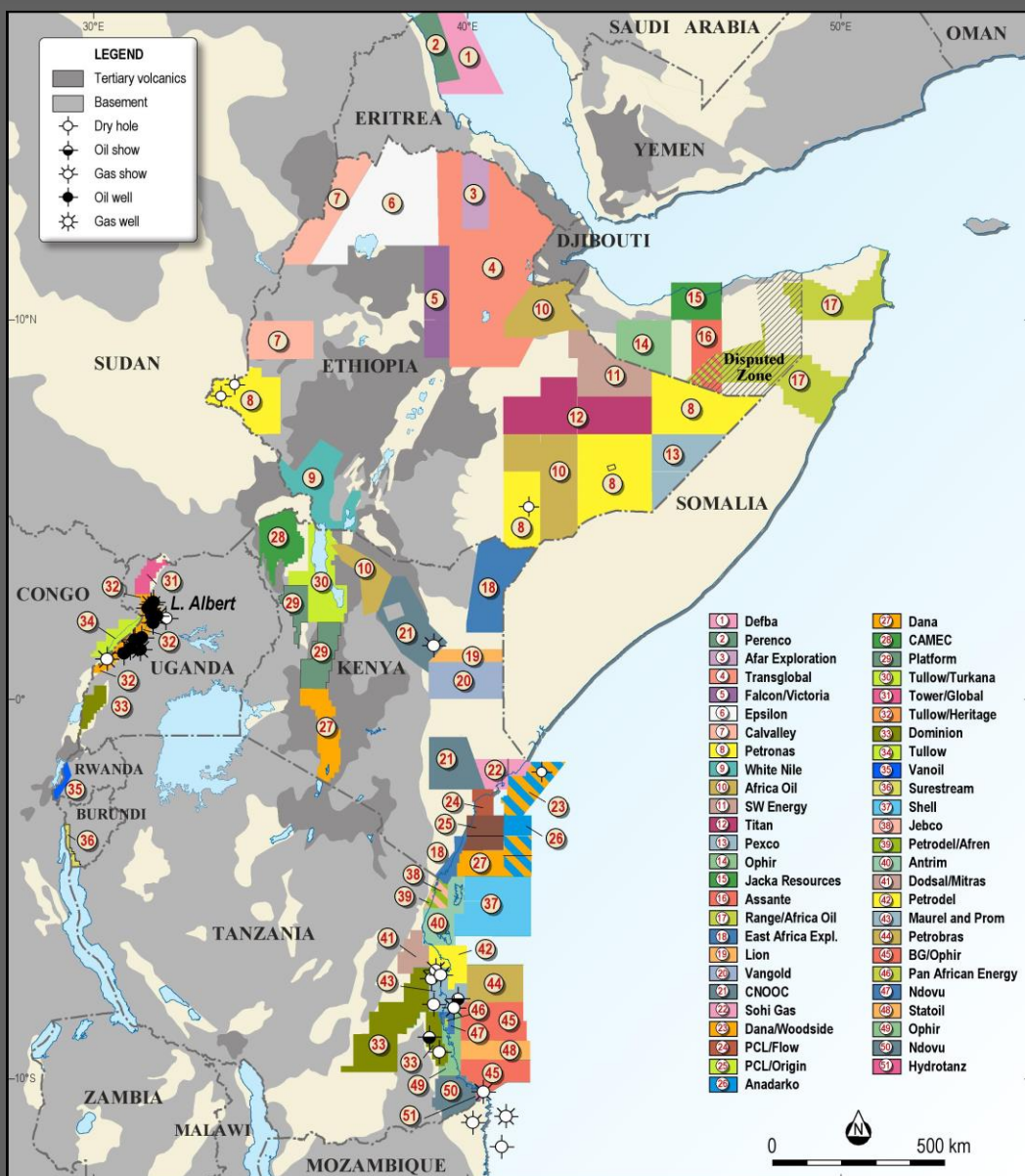
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Hunt Oil geologist, Ethiopia, 1991

Exploration permits and wells, 2000s

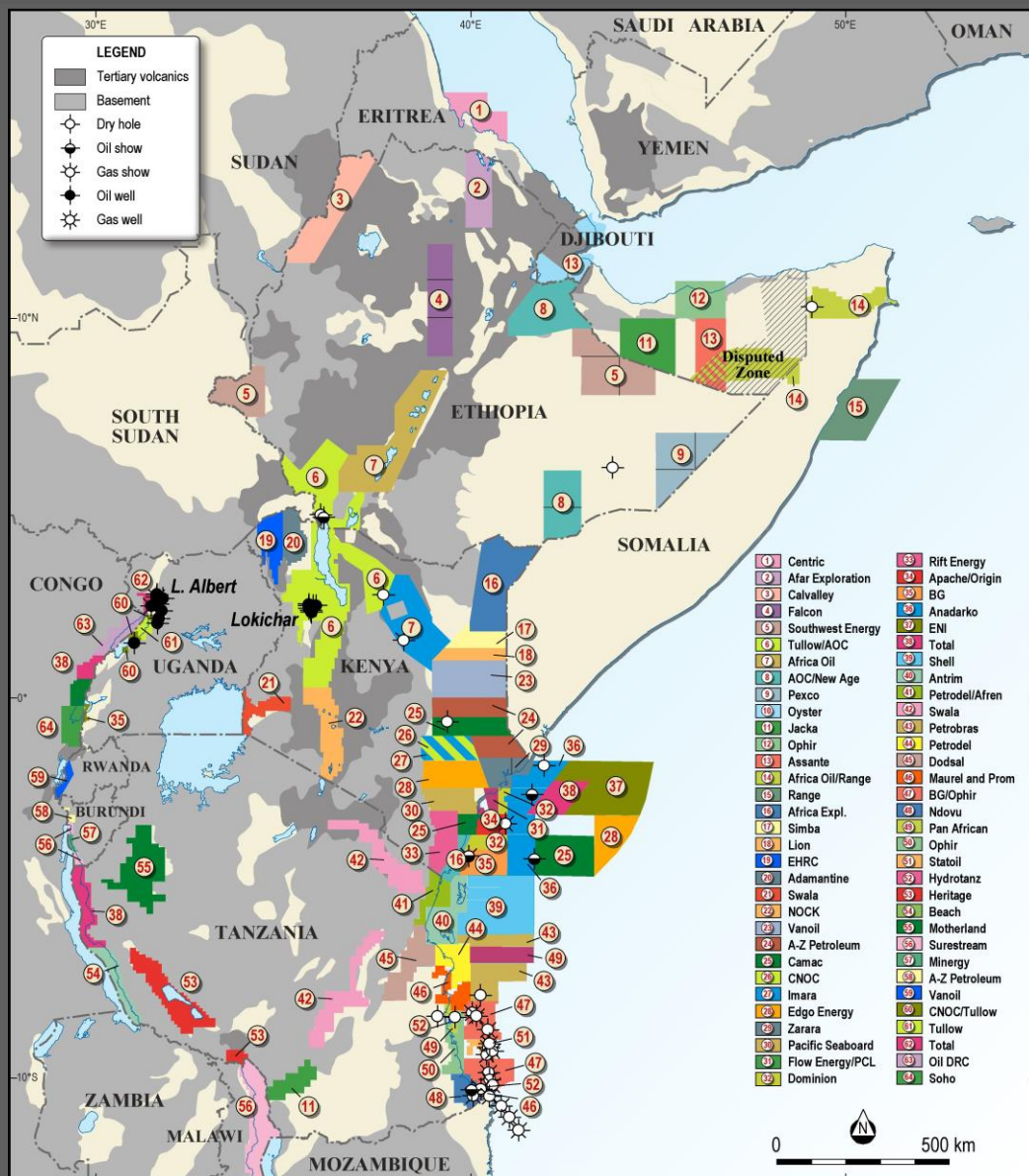
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*Tullow drilling site, Lake Albert, Uganda
(courtesy of Tullow Oil)*

Exploration permits and wells, 2010s

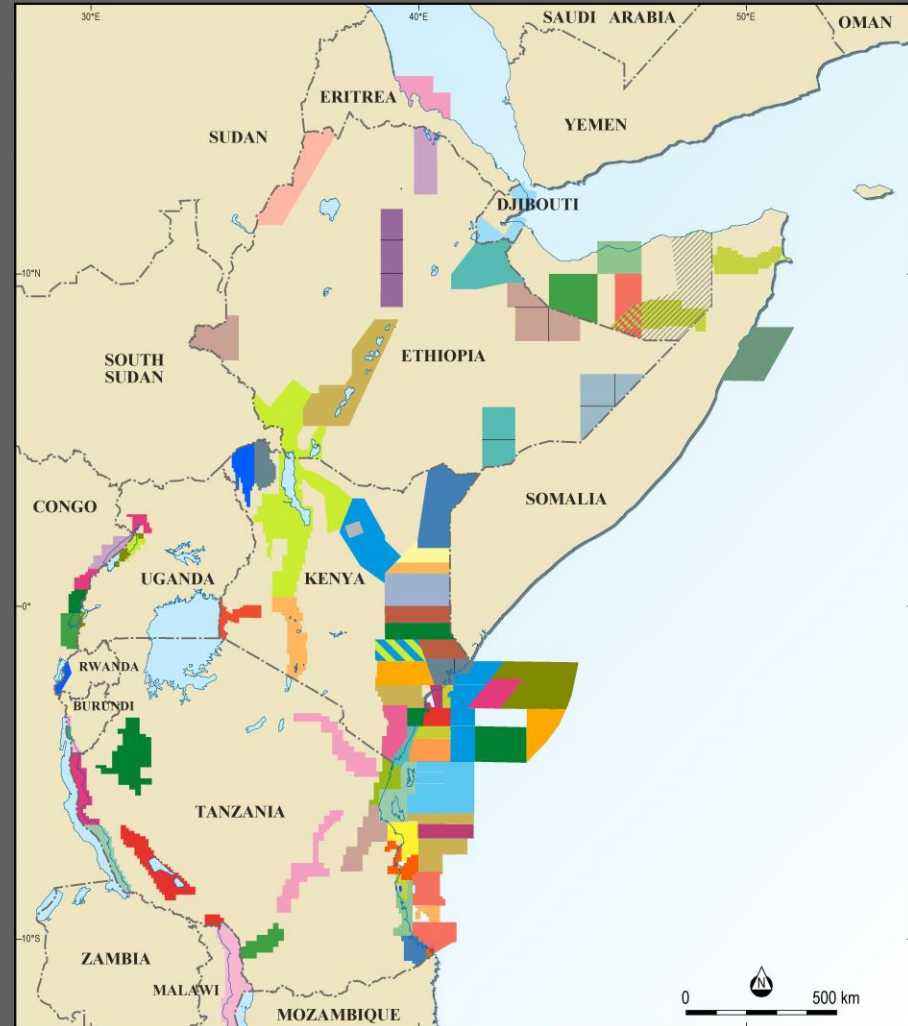
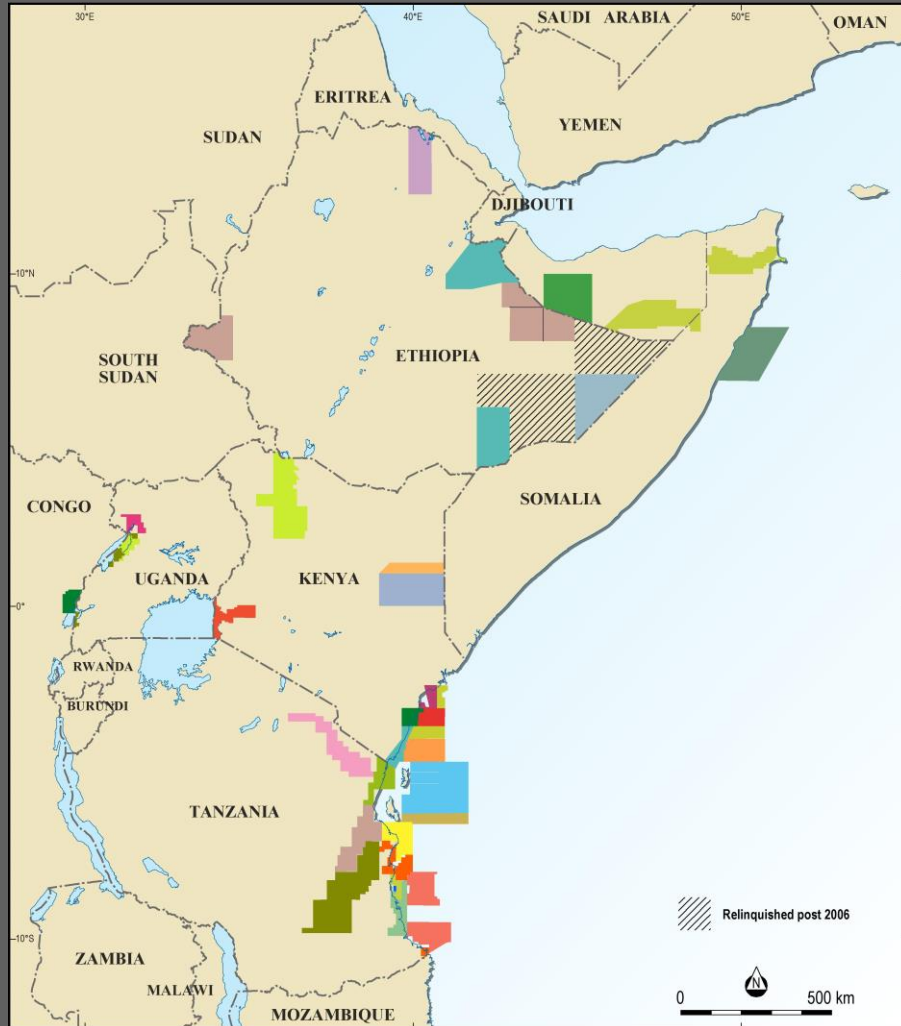
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BG/Ophir's Ngisi-1 well, Tanzania

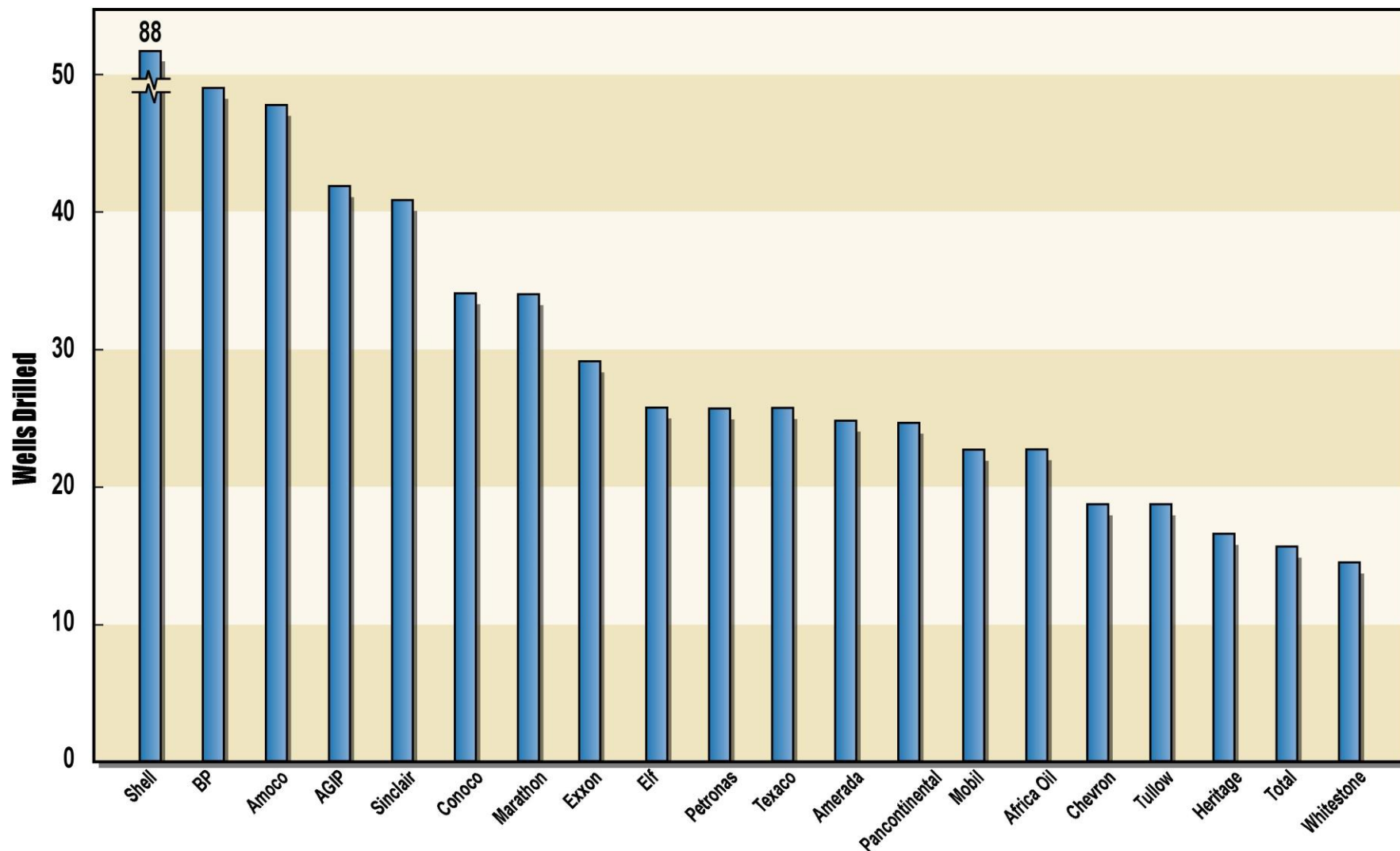
Exploration permits and wells 2006 and 2012

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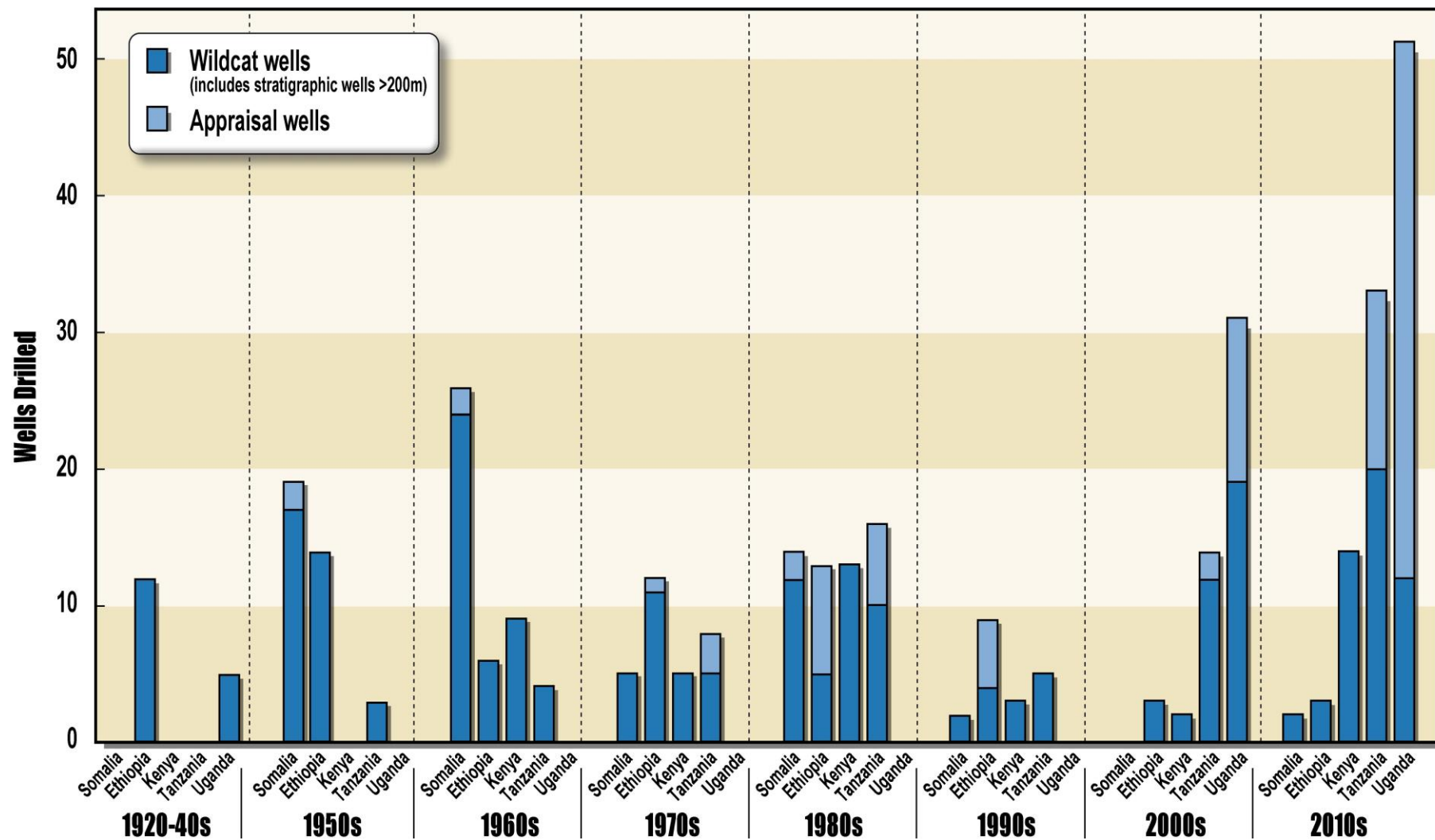
Company exploration permit-years in East Africa 1950-2010

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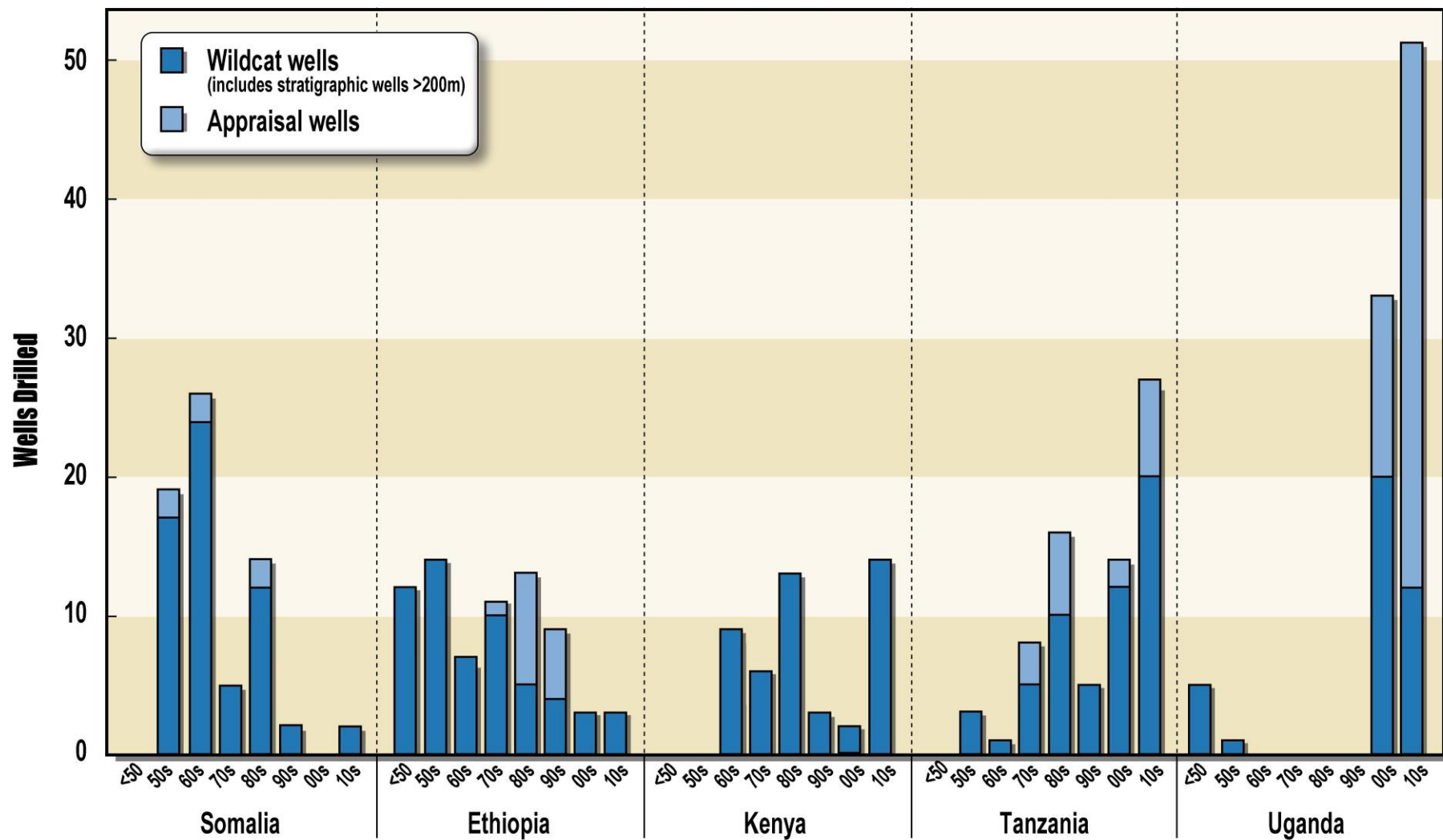
Drilling activity by decade, 1950s -2010s

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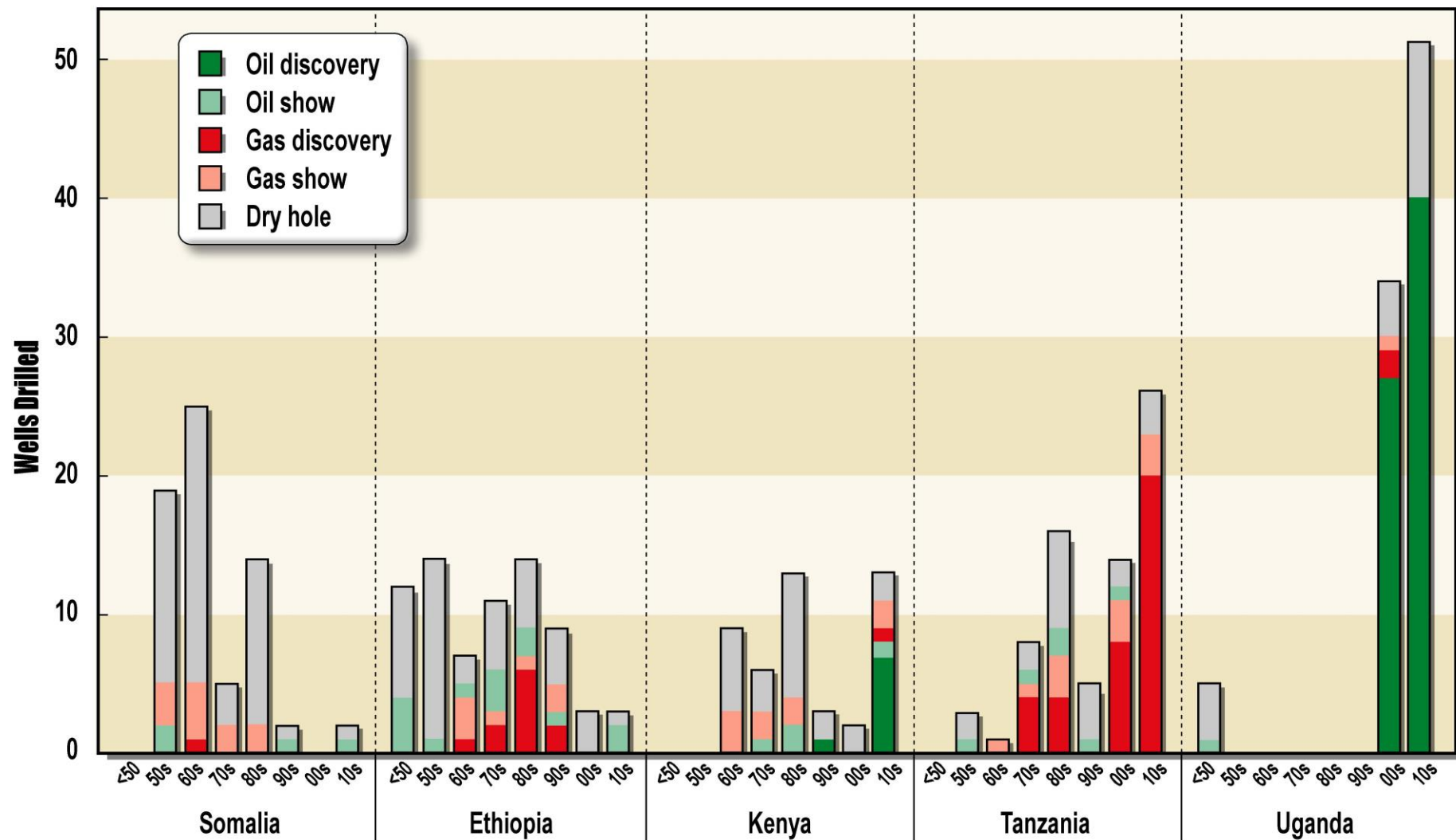
Drilling activity by country, 1950s -2010s

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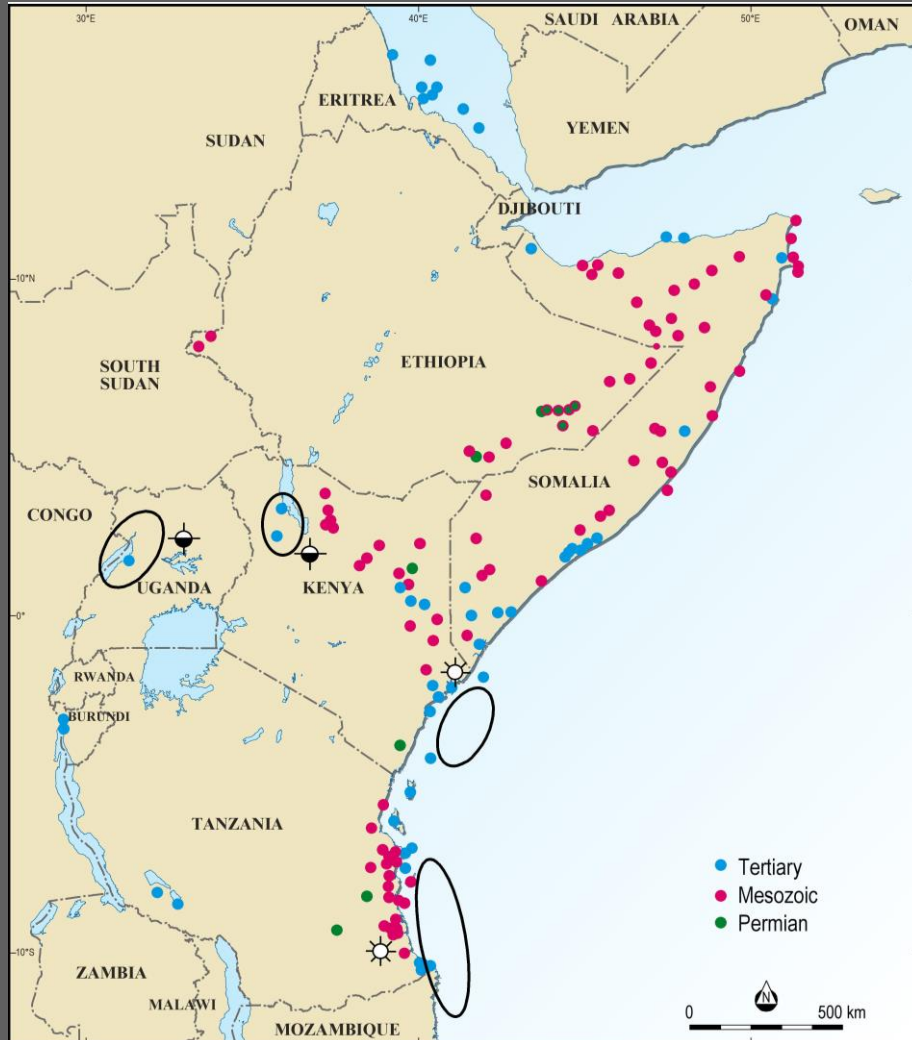
Drilling results by country, 1950s -2010s

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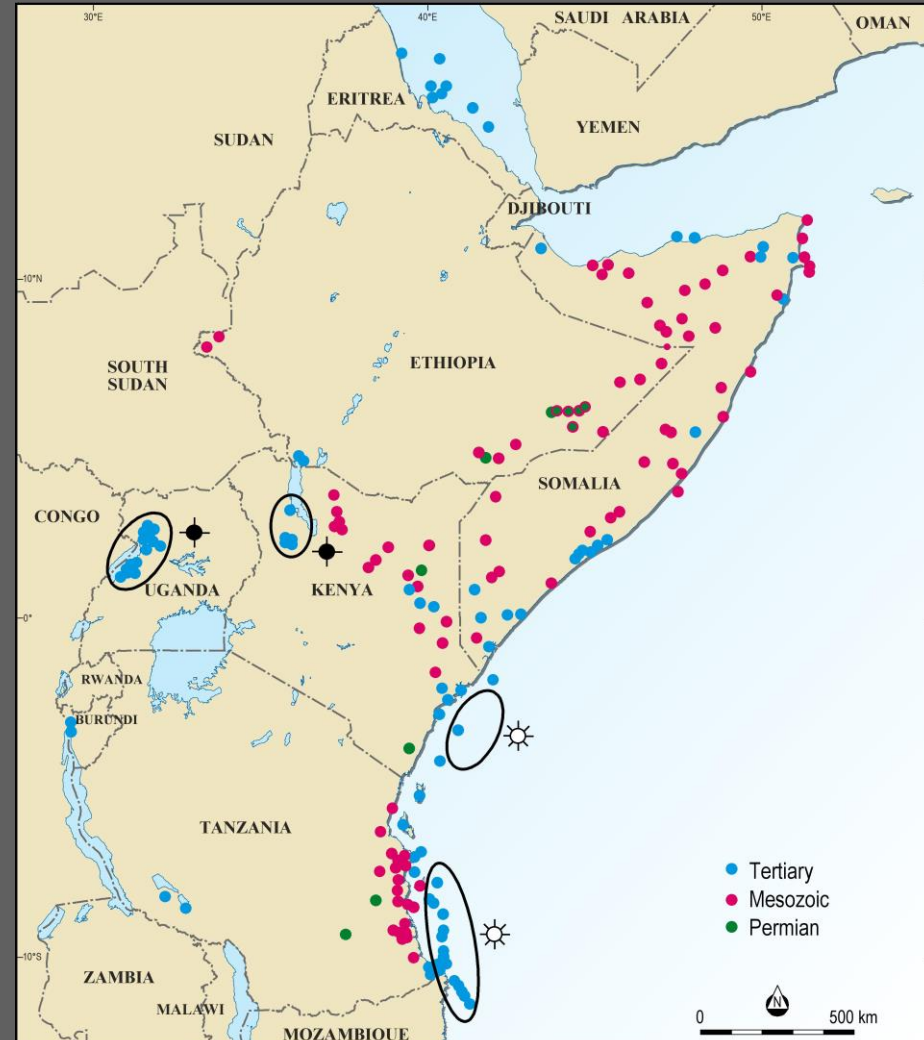


Age and location of main target

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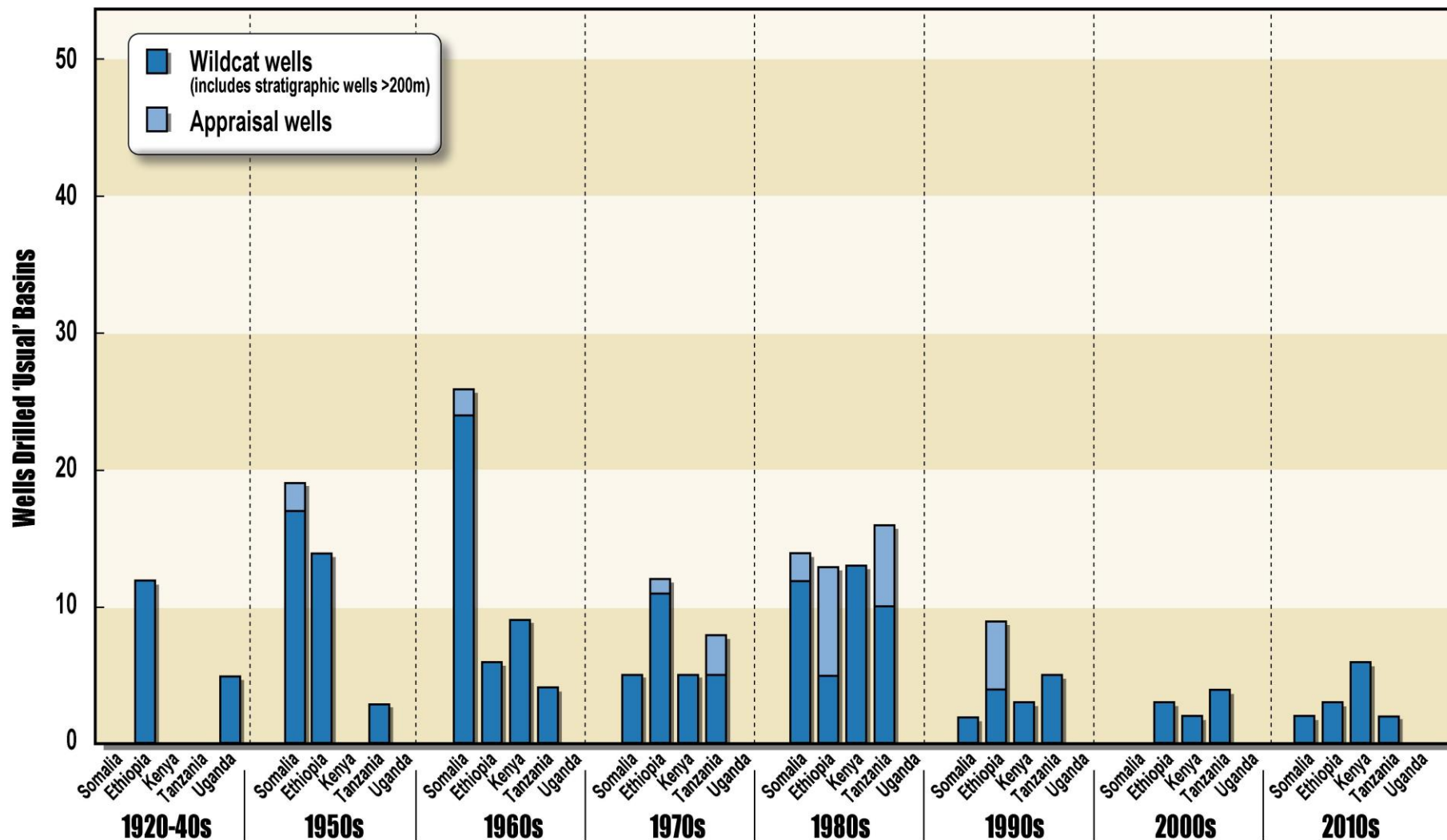
2006

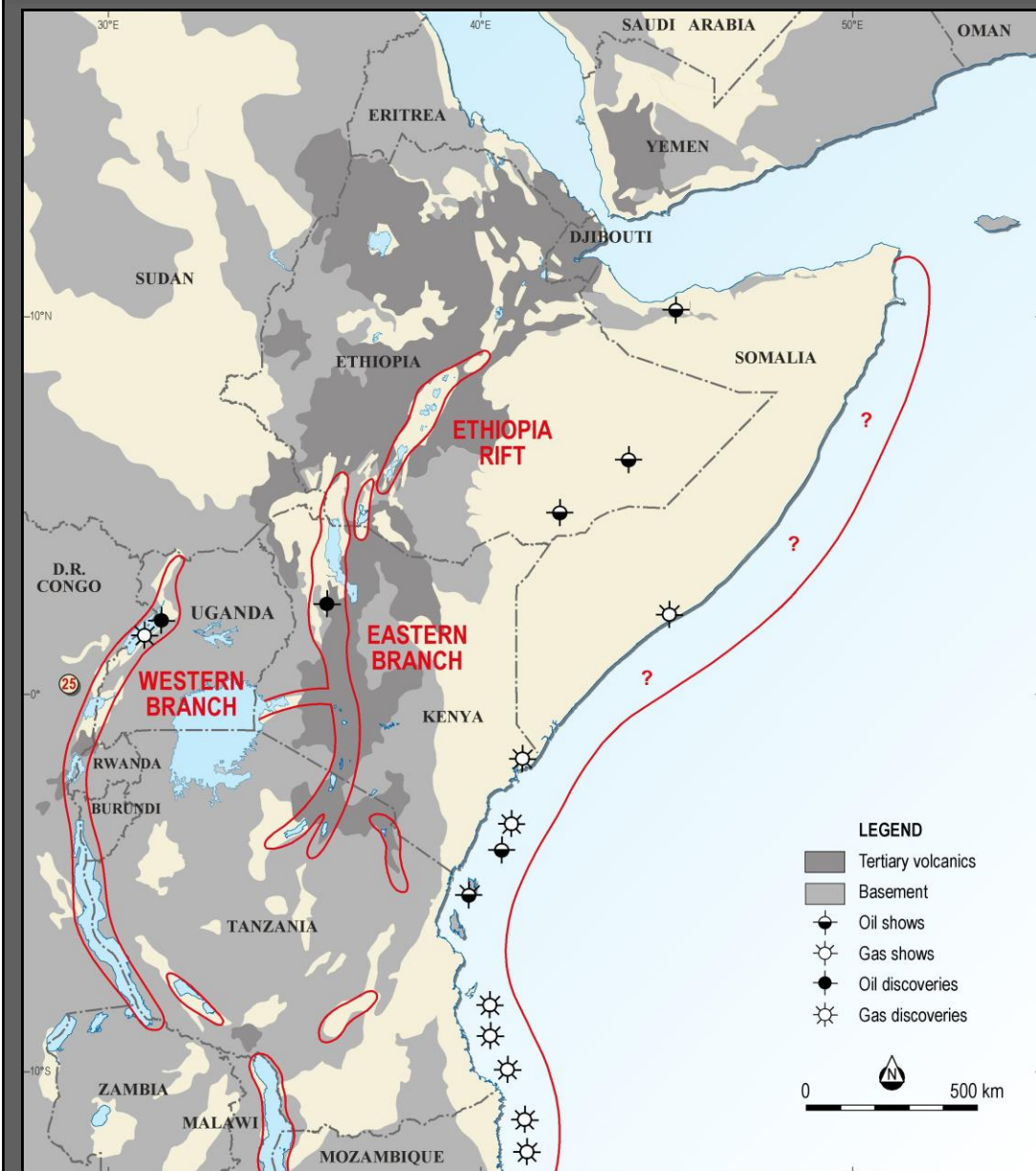


2013

Drilling activity 1950 - 2013, excluding recent discovery areas

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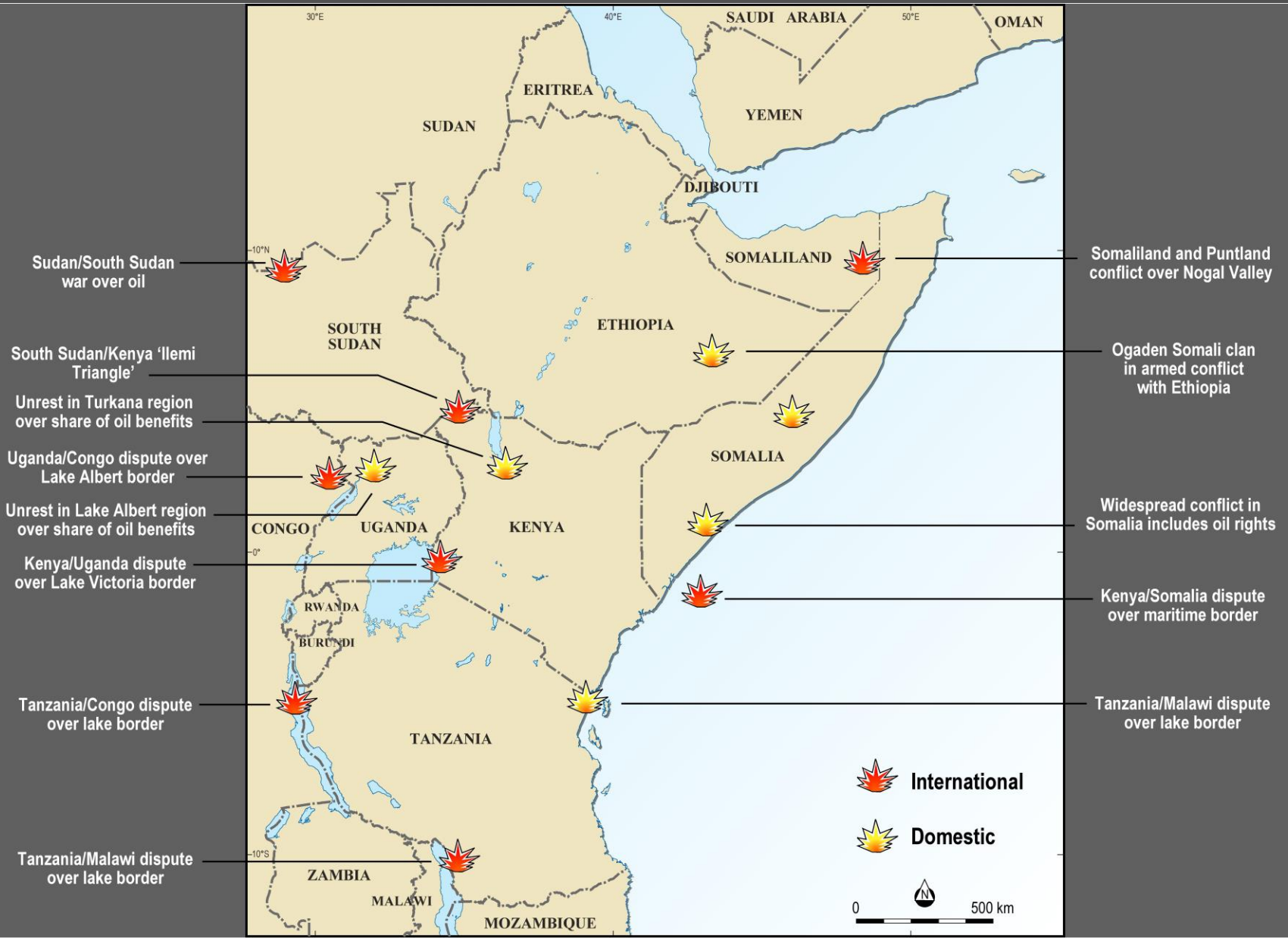




- Early results must be carefully considered, especially where there are seeps and shows
- Other basins of the East Africa Rift might also host large oilfields, especially the Western Branch
- Portions of the more volcanogenic Eastern Branch are also prospective
- Offshore Somalia, along trend with the giant gas province, has good potential
- Other basins in East Africa are not upgraded, only those which are geologically analogous.

Conflict areas in East Africa

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Sometimes the past does look like another country:

Ethiopian Airforce officers and Elwerath staff rest in the shade of their aircraft in the Ogaden, circa 1962

