1st Quarter 2022 Exploration Results
ASPO: April, the 5th, 2022

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Drilling units: 2182 active rigs in May 2019 / 1176 rigs in May 2020/1570 in December 2021 / 1612 in April 2022 (Baker-Hughes rig counts)

Oil Discoveries are back?
Oil discoveries: Namibia, Guyana, Suriname, US, Mexico,
Gas discoveries: Cyprus,
New discovery : Krabdagu for TotalEnergies in Surinam block 58

Krabdagu 1 : WD : 780 m ; TD : 5273 m !
TotalEnergies op, 50 %, Apache 50 %

5th discovery after Maka, Sapakara, Kwaskwasi, and Keskesi

90 m of oil pay in good Upper Cretaceous turbidites

No test : is this reservoir ? similar to Sapakara south 1 tested in 2021
"A restricted flow test averaged 4,800 barrels oil per day (bopd) for 48 hours of 34-degree API with GOR of approximately 1100 scf/bbl,
Guyana-Surinam: similar Cretaceous sandy turbidites but

- Guyana and Surinam reservoirs seem to be different from the few published maps
- Younger and shallower in Guyana
- Large deep sea fans in Guyana like Lizza
- Restricted feeders in Surinam
- Multi source points: large ranges of poro-perm values?

- Higher GOR in Surinam

- 10 Gbo in Guyana; 2 Gboe in Surinam?
Namibia: Orange Basin: a new oil province in deep offshore Africa

Two discoveries announced 1st Quarter 2022
- **Graff 1 by Shell**: WD 2000 m; TD: 5375 m Mixed Cenomanian-turonian Cretaceous Turbidites plays –
  - 300 Mbo Reserves? Appraisal in progress

- **Venus 1 by TotalEnergies 40 % (QP 30 %/Impact 20 %, Namcor 10%)**: Wd: 3000 m; TD: 6300 m Albian basin floor fan with 84 m of oil net pay
  - Huge reservoir extension with AVO and DDC: 600 Km²!
  - **Reserves 3 Gbo?** But not tested: Permeability?
Namibia: Orange Basin: a new oil province in deep offshore Africa