

Study Group 1.3 Gas Rent and Mineral Property Rights



2nd WOC 1 Meeting Rio de Janeiro 18-21 February 2013



Previously in Gas Rent and Mineral Property Rights...



Contractual models



Concession, production sharing and service contracts

- There are more petroleum fiscal systems than countries (Johnston, 2012)
- Ownership is the most important element of distinction
- Similar cash flow results can be obtained, but
- INTERNATIONAL
 PETROLEUM
 FISCAL SYSTEMS
 AND
 PRODUCTION SHARING
 CONTRACTS
 DANIEL JOHNSTON
- PSA (PSC) quickly growing in lieu of concession contracts - controversy
- Service contracts remain limited to a few countries



Fiscal instruments

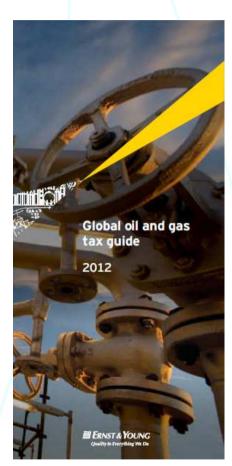


Regressive

- Royalties, bonuses
- Non-profit related; the lower the profitability the higher they become

♦ Progressive

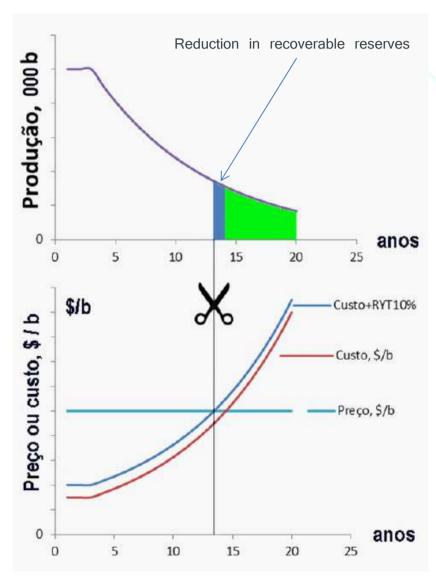
Income taxes, special petroleum (gas) taxes





A criticism to royalties





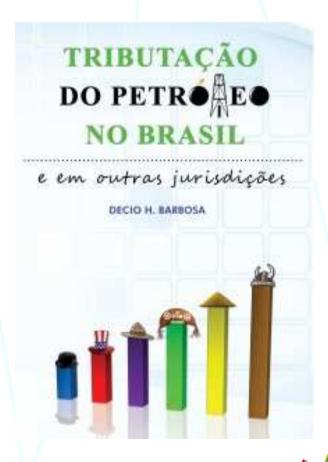
- Provide benefit to the government at the earliest stages of production, but
- Can cause premature abandonment (inefficiency), as production tends to halt when marginal costs reach market prices
- Royalties are being discarded in favour of higher taxes

Décio Barbosa, Royalties: Use com Moderação *in* Monitor IBP, January 2011, Year III, Number 1, pp. 2-3.

Case study



- Recoverable reserves of 850 million barrels
- Exploration in two years
- Exploitation in five years
- In production for 20 years
- **♦ 20 production wells**
- 10 injection wells
- FPSO 200 kbpd
- Rig leasing at US\$ 500,000/day
- Decline rate of 10% p.a.
- Well cost US\$ 100 million



United Kingdom



- Corporation tax 30% (ring fence rate for O&G E&P)
- Supplementary charge rate now at 32%
- ♦ Petroleum revenue tax discontinued in new areas
- Capital allowances
 - Accelerated depreciation
 - Immediate write-off for exploration costs
- Investment incentives
 - Losses can be carried forward indefinitely
 - R&D incentive



Norway



- No royalties, bonuses or production sharing
- Income tax of 28%
- ♦ Additional special O&G upstream tax of 50%
 - Applies to the Norwegian Continental Shelf and onshore areas
 - Cannot be deducted for purposes of income tax
- Capital allowances
 - Offshore investments depreciated linearly over six years
 - Uplift of 30% applies to the special O&G tax
 - 7,5% per year in four years
- Investment incentives
 - Losses can be carried forward indefinitely with interest rates nominated by the Ministry of Finances (1.9% in 2011)
- No ring fencing



Production sharing



- Mineral rights granted exclusively to the winner of a bidding process to explore, develop and sell part of the production
- Investor receives part of the oil produced as a compensation for its risks, after cost compensation
- National oil company may have an administrative role
- Winner must execute working programme (seismic work, production pilots, drilling activity, etc)

"R" Factor	actor Contractor's Profit Sha					
	(%)					
R ≤ 1.0	50					
1.0 < R ≤ 1.5	45					
1.5 < R ≤ 2.0	40					
2.0 < R < 2.25	30					
2.25 < R < 2.5	20					
R > 2.5	15					



Angolan regime for ultra deep waters

- - US\$ 10 million non-recoverable, unshared)
- Training fee
 - US\$ 200 thousand during exploration and development
 - US\$ 0.15/bbl during production period
- - US\$ 4 million at start-up, non-recoverable
- - 20% carried through to commercial discovery, with repayment of past exploratory costs by Sonangol
- ♦ Cost recovery 50%, 4 years (20% uplift development)
- Income tax 50%
- Profit sharing
 - Calculated quarterly

IRR (%)	Profit share
< 10.0	70
10.0-12.5	55
12.5-17.5	45
17.5-20.0	30
> 20%	20





Granting Documents

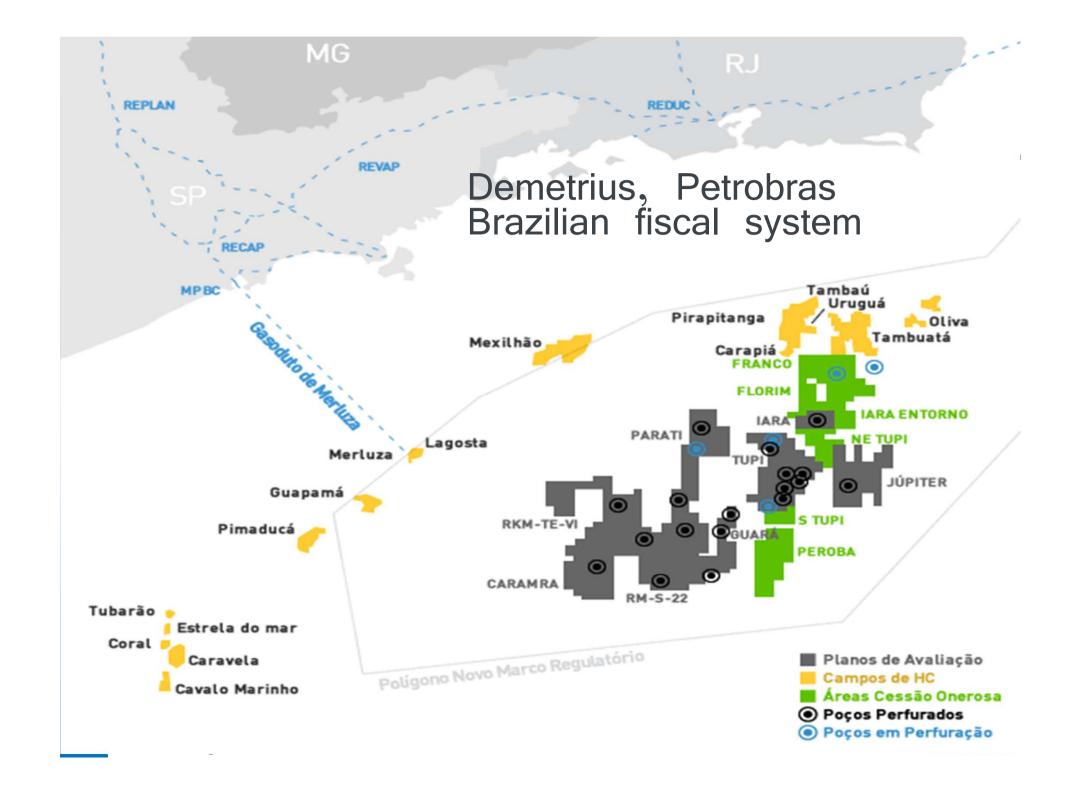
Upstream Contract Models with Governments

For IGU Rio de Janeiro 2013









Questionnaire

	Question	Totally disagree	Partially disagree	Neutra / Non-appl.	Partially	Totally
1	In my country the fiscal system for the production of oil and gas is modern and effective	uisagi ee	uisagiee	Νοπ-αρρι.	agree	agree
2	A different fiscal system should be developed specifically for gas				\	
3	Associated and non associated gas should have a different set of fiscal instruments				/	
4	Foreign investment is important for the production of gas in my country		1		/	
5	The current fiscal system that we have is efficient to attract investments to the upstream segment of the gas industry					
6	Production sharing contracts tend to replace concession and service contracts in the future					
7	Royalties constitute an old fashioned fiscal instrument, whose use tend to disappear in the long term					
8	In my country bidding processes take place regularly					
9	In my country direct negotiations with government authorities are possible					





Thank you!

