

ANALYSING MEXICO'S PROPOSED PETROLEUM FISCAL REGIME

Effectiveness as a Rent Capture Mechanism with the New Energy Reform

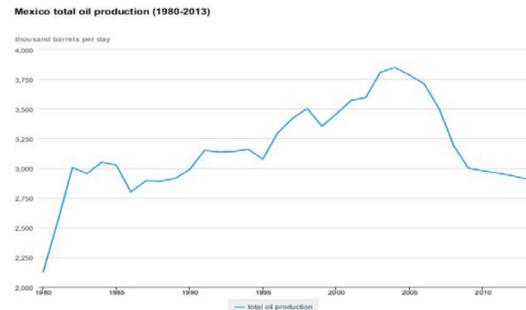
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INTRODUCTION

- ❖ Mexico's production has steadily declined since 2004.



- ❖ Prospective resources to be developed.
- ❖ Energy Reform: seeks to help the Nation efficiently develop its resource potential (increase production) and contribute to domestic economy.
 - New contractual terms and fiscal regime
 - First time sector opened to foreign investment since 1938
- ❖ April 30th 2014, Secondary Laws were submitted to implement and regulate the constitutional energy reform.
- ❖ Optimal fiscal regime: important to capture the most economic rent while avoiding investment disincentives.

OBJECTIVE

To analyse Mexico's proposed fiscal regime (Hydrocarbons Revenue Law), under the licence contracts, considering its effectiveness as a rent capture mechanism

PROPOSED HYDROCARBONS REVENUE LAW

- ❖ New method of allocation:
 - Entitlements (Direct Awards) to PEMEX
 - Contracts:
 - Licence contracts;
 - Production-sharing contracts;
 - Profit-sharing contracts; and
 - Service contracts.

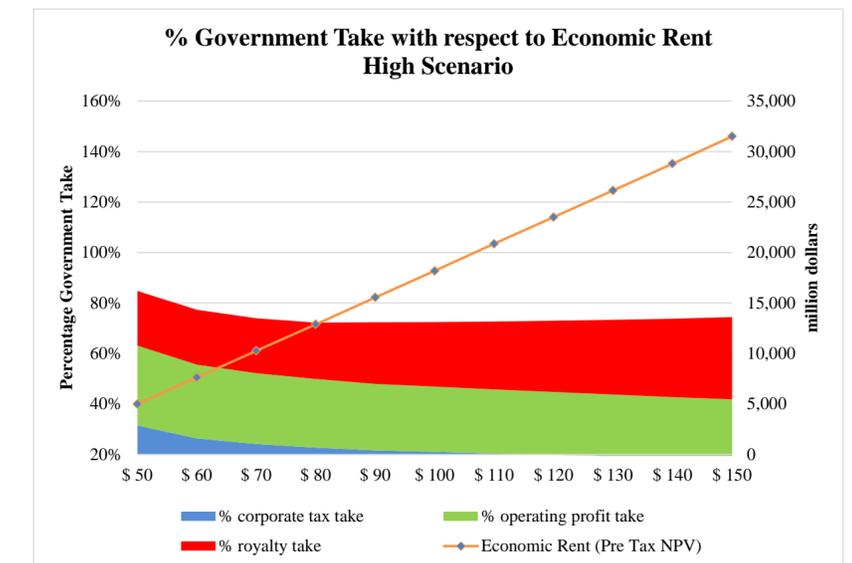
DATA & METHODOLOGY

- ❖ Representative offshore fields were incorporated: large (500 mmbbls), medium (250 mmbbls) and small field (50 mmbbls).
- ❖ Analysis starting from the field development stage, different costs and phasing profiles were assumed for each field.

Licence Regime		
Royalty Rate	%	14
Corporate Income Tax Rate	%	30
Depreciation Rate (Straight Line)	%	25
Payment of Operating Profit Rate	%	40
Loss Carry Forward	years	10

- ❖ Deterministic cash flow analysis
- ❖ Sensitivity analysis
- ❖ Monte Carlo simulation

- ❖ Most sensitive variables; oil price, recoverable reserves, development costs.
- ❖ Monte Carlo: Medium field showed greater risk for investor



RESULTS

	High	Med	Low
Post Tax Net Cash Flows (\$M)	\$11,481	\$4,677	\$1,217
Post Tax NPV (\$M)	\$5,011	\$2,454	\$798
Post Tax IRR (%)	48%	46%	85%
Post Tax NPV: CAPEX Ratio	1.03	0.66	0.92
Government Take (%)	72%	71%	62%

CONCLUSION

- ❖ Proposed fiscal regime is generally progressive; below certain oil prices the effect of mandatory royalty payments make the system regressive.
- ❖ Proposed fiscal regime appears to effectively balance front-end royalty payments with the use of tax instruments based on profit without providing disincentives to development.
- ❖ Sufficient amount of risk sharing between the state and investors: government collects half of its total expected revenue within approximately 40% of the economic life of the field in all field scenarios.