

Government of the Republic of Trinidad and Tobago Ministry of Energy and Energy Industries

Trinidad & Tobago Shallow Water Competitive Bidding Round 2023



SWCBR 2023 Launch

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Competitive Bidding Order (CBO) Overview



CBO Overview



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Nominations

- **30th August, 2022 11th October, 2022**
- 23 Open Shallow Blocks were included
- All 23 blocks were nominated
- A total of 96 nominations were received from 10 companies







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<u>CB0</u>

- Legal Notice No. 303 Dated 2nd October 2023
- Invites bids for thirteen (13) Shallow Water blocks located in marine areas off the north, east, south and west coasts of Trinidad
- Bids are invited for the award of Production Sharing Contracts for carrying out exploration and production operations in the blocks offered
- Bid Round extended until May 27th 2024 at 12 noon

CBO Overview

Blocks on Offer for SWCBR 2023

- 1. Block 1(b)
- 2. Block (2ab)
- 3. Block 2(d)
- 4. Block 4(c)
- 5. Block 21
- 6. Block 22(a)
- 7. Block 22(b)
- 8. Guayaguayare Offshore
- 9. Block Lower Reverse L
- 10. Block Modified U(c)
- 11. NCMA 2
- 12. NCMA 3
- 13. NCMA 4



Changes to 2023 Shallow Water Bid Round



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Fiscal Incentives

- Royalty (12.5%) to be paid by Minister
- State Carried
 Participation removed
- Price classes and production tiers adjusted based on current economic climate
- Windfall reduced from 70% to 50%
- Cost Recovery of up to 60% will be allowed

Legal Terms and Conditions

- Increase in exploration period from 6 to 8 years
- Introduction of an Infrastructure Sharing Policy

Bid Round Process

- Removal of pre-bid fee
- Reduction of bid fee
- Biddable Signature Bonus
- Revision of evaluation method for bid submissions
- Provisions made to facilitate Multiclient acquisition and/or licensing to fulfil minimum work obligations





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Competitive Bidding Process







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Competitive Bidding Process

Bids must include the following:

- Technical Evaluation of Block and summary of items referred to in Summary Bid Form
- Commercial Evaluation of Block and respective Cash Flows
- Signed Declaration indicating that the Model Production Sharing Contract has been examined and the terms agreed upon

Successful Bidders must comply with the following:

- The Local Content Policy of the Republic of Trinidad and Tobago in effect and as may be amended accordingly
- The National Oil Spill Contingency Plan of the Republic of Trinidad and Tobago

CBO Overview



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Competitive Bidding Process

In addition to the bid, the following documents must be submitted:

- Documents demonstrating the legal identity of the bidder
- Evidence of technical capacity, competence and experience in petroleum operations and related activities of the bidder
- Declaration of and details of any conflicts of interest that a bidder may have
- For bids submitted by a consortium: a statement on the role that each member of the consortium shall play
- Documents showing the corporate and financial structure and backing of the bidder including past three years' audited financial statements
- Disclosure of beneficial ownership information by bidders
- Other details the bidder may consider relevant





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Data Package Contents

Upon execution of a Data Use Agreement, Bidders will have access to the following:

- Seismic Data, Well Data and Technical Reports for all thirteen (13) blocks on offer
- The Petroleum Regulations (Shallow Water Competitive Bidding Round) Order 2023
- The Model Production Sharing Contract 2023
- The Local Content and Local Participation Framework for the Republic of Trinidad and Tobago dated 7th October, 2004

Production Sharing Contract



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Terms of PSC

- Initial period of eight (8) years in respect of each block
- Upon the achievement of a commercial discovery, it may be renewed, as to a part only of the contract area, for a term of twenty-five (25) years from the effective date of the production sharing contract
- If no Commercial Discovery is made, the license terminates automatically

Summary Bid Form



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Schedule 5

Mandatory 1st Phase

- 3D Seismic Acquisition- 3 years
- **3D** Seismic Reprocessing- 2 years
- 2D and/or 3D CSEM or other geophysical survey acquisition- 2 years
- 3D Seismic Acquisition and CSEM/other geophysical survey 4 years
- 3D Seismic Reprocessing and CSEM/other geophysical survey 3 years
- Exploration Well Only- 2 years
- Exploration Well Combined with any Geological or Geophysical work items- 1 year additional per well

Optional 2nd Phase Exploration Drilling Optional 3rd Phase

Exploration Drilling

Bid Round Timeline



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Technical Overview



Shallow Water Geological Setting



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North Coast Marine Area

- Tobago Basin: Wedge shaped prism comprising Oligocene-Miocene to Pleistocene sediment which onlaps the basement to the south and thickens towards the north.
- Patao High: NE trending antiform, formed due oblique strain tectonics, and plunges to the east and is truncated by a series of NW-SE normal en-echelon faults.

East Coast Marine Area

- Columbus Basin: structurally detached, transtensional, continuation of the Eastern Venezuela foreland basin.
- It formed during Miocene time as a foreland basin overlying a Cretaceous-Early Tertiary passive-margin, and evolved into a thinskinned pull-apart basin during the Plio-Pleistocene.
- Shallow water deltaic and estuarine deposits from the prograding Orinoco River delta have accumulated in this area since Middle-Miocene time.

Gulf of Paria

 Gulf of Paria Pull-Apart Basin: Compressional basin due to the NW verging thrusts associated with the CRTZ which formed in Late Miocene with the stepover of the El Pilar fault to the EW trending Warm Springs Fault and the NE trending CRFZ.



NCMA 2

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Background

- Block size: 1028.44km²
- Water Depths: ~200m
- Block History: Previously licensed to Niko Resources from 2011 to 2017

Petroleum System

- Source: Intraformational shales
- Reservoir: Plio-Pleistocene shoreface sands, Miocene fan deposits
- Reservoir Depths: 2000m to 3500m
- Reservoir Quality: φ = 20% to 30%, N:G = 35% to 55%
- Trap Types: Stratigraphic or combination
- Seal: Intraformational shales

- Seismic: 1968 NCMA2D, 1977 NCMA2D, 1993 BGTT 2D, 2004 Petrotrin Chaconia 2D, 2012 Niko NCMA3D
- Wells: Offset wells in adjacent licensed blocks

NCMA 3



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- Block size: 2105.02km²
- Water Depths: 30m to 100m
- Block History: Previously licensed to Niko Resources from 2011 to 2017

Petroleum System

- Source: Intraformational shales
- Reservoir: Plio-Pleistocene shoreface sands
- Reservoir Depths: 2000m to 3500m
- Reservoir Quality: φ = 20% to 30%, N:G = 35% to 55%
- Trap Types: Stratigraphic or combination
- Seal: Intraformational shales

- Seismic: 1977 NCMA2D, 1980 Scanned NCMA2D, 2012 Niko NCMA3D
- Wells: HH6-1 and Alma-1 wells, offset wells in adjacent licensed blocks



NCMA 4(a)



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- Block size: 1338.47km²
- Water Depths: ~100 to 200m
- Block History: Relinquished portion of NCMA 4

Petroleum System

- Source: Intraformational shales
- Reservoirs: Plio-Pleistocene shoreface sands
- Reservoir Depths: 800m to 1500m
- Reservoir Quality: φ = 20% to 30%, N:G = 35% to 55%
- Trap Types: Stratigraphic or combination
- Seal: Intraformational shales

- Seismic: 2012 Centrica Merged NCMA 4 and Block 22 3D
- Wells: Maracas-1 well, offset wells in licensed portions of block



Block 21

Background

- Block size: 1297.09km²
- Water Depths: 200m to 1200m
- Block History: First inclusion in a bid round

Petroleum System

- Source: Intraformational shales
- Reservoir: Plio-Pleistocene shoreface sands
- Reservoir Depth: 2500m to 3000m
- Reservoir Quality: φ = 20% to 30%, N:G 35% to 55%
- Trap Types: Stratigraphic or combination
- Seal: Intraformational shales

Data

Seismic: 2012 ION Caribspan 2D, 2017 MCG 2D



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Background

- Block size: 1129.55km²
- Water Depths: 100m to 1000m
- Block History: Relinquished portion of Block 22

Petroleum System

- Source: Intraformational shales
- Reservoirs: Plio-Pleistocene shoreface sands
- Reservoir Depths: 500m to 2000m
- Reservoir Quality: φ = 20% to 30%, N:G = 35% to 55%
- Trap Types: Stratigraphic or combination
- Seal: Intraformational shales

- Seismic: 2012 Centrica Merged NCMA 4 and Block 22 3D
- Wells: Bene-1 well, offset wells in licensed portions of block



Block 22(b)



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Background

- Block size: 1104.48km²
- Water Depth: 100m to 1000m
- Block History: Relinquished portion of Block 22

Petroleum System

- Source: Intraformational shales
- Reservoir: Plio-Pleistocene shoreface sands
- Reservoir Depths: 1700m to 2500m
- Reservoir Quality: φ = 20% to 30%, N:G = 35% to 55%
- Trap Types: Stratigraphic or combination
- Seal: Intraformational shales

- Seismic: 2012 Centrica Merged NCMA 4 and Block 22 3D
- Wells: Offset wells in licensed portions of block







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Background

- Block size: 1599.12km²
- Water Depths: ~50m
- Block History: Previously licensed to Niko Resources and partners from 2009–2013

Petroleum System

- Source: Cretaceous Naparima Hill Formation
- Reservoir: Cretaceous, Oligocene, Paleocene and Eocene sands
- Reservoir Depths: 900m to 1500m
- Reservoir Quality: φ = ~20%
- Trap Types: Structural
- Seal: Intraformational shales

- Seismic: 2010 PSTM Streamer 3D
- Wells: Maestro-1, Shadow-1, Spitfire-1, Stalin-1, Crapuad-1, Palmiste-1, Palmiste-2, SW Darien-1, Kitchener-1







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Background

- Block size: 394.35 km²
- Water Depths: ~50m
- Block History: 1996–Block 2(c) was awarded to Woodside Energy (previously BHP)

2003-Block 2(d) became the relinquished portion of Block 2(c)

Petroleum System

- Source: Cretaceous Naparima Hill and Gautier Formations
- Reservoir: Middle to Late Miocene Sands
- Reservoir Depths: 760m to 1500m
- Reservoir Quality: φ = 15% to 20%, N:G= 50% to 60%
- Trap Types: Structural
- Seal: Oligo-Miocene shale top seal

- Seismic: 1999 BHP OBC Reprocessed Survey, 2019 NAZ OBN Survey
- Wells: Mokatika- 1, Gypsy-1, NB-1, NB-2 and offset wells in adjacent licensed blocks



Block 4(c)



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Background

- Block size: 424.2 km²
- Water Depths: 200m to 400m
- Block History: 1977–Block 4 was first explored by Deminex

2003–Block 4(a) was awarded to EOG Resources 2008–Block 4(c) became the relinquished portion of Block 4(a)

Petroleum System

- Source: Cretaceous Naparima Hill and Gautier Formations
- Reservoir: Late Pliocene to Early Pleistocene sands
- Reservoir Depths: 1000m to 2700m
- Reservoir Quality: φ = 33% to 37%, N:G= 20% to 97%
- Trap Types: Structural
- Seal: Interbedded Pleistocene shales

Data

- Seismic: 2006 EOG 4a 3D
- Wells: Kingfish-1 and offset wells in licensed portions of block



Block Modified U(c)



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Background

- Block size: 767.75 km²
- Water Depths: 75m to 250m
- Block History: 1977-Block Modified U(a)4 was awarded to Enron Gas & Oil

2002–Block Modified U (b) was awarded to EOG 2009– Block Modified U (c) became the relinquished portion of Blocks Modified U (a) and U (b).

Petroleum System

- Source: Cretaceous Naparima Hill/Gautier Formations
- Reservoir: Pliocene Sands
- Reservoir Depths: 2700mto 4400m
- Reservoir Quality: φ = 15 to 30%, N:G= 20% to 97%
- Trap Types: Structural and Stratigraphic combination
- Seal: Interbedded Pleistocene shales

- Seismic: 2008 Osprey 3D, Osprey SECC Merge 3D, Southtrend Merge 3D
- Wells: Mot Mot-1, Tanger-1, U(b)-1, U (b)-2 and offset wells in licensed portions of block



Block Lower Reverse L



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Background

- Block size: 363.64 km²
- Water Depths: 80m- 200m
- Block History: 1980–Block LRL was awarded to Mobil Exploration Trinidad Ltd 2002–Block LRL was awarded to EOG Resources 2009–EOG Resources relinquished Block LRL

Petroleum System

- Source: Cretaceous Naparima Hill and Gautier Formations
- Reservoir: Late Pliocene Sands
- Reservoir Depths: 4000m to 4500m
- Reservoir Quality: φ =15% to 29%, N:G= 20% to 97%
- Trap Types: Structural
- Seal: Interbedded Pleistocene shales

- Seismic: 1996 Amoco LRL 3D; 2003 LRL Pecten 3D
- Wells: Reverse L East-1, Reverse L West-1, Pamberi-1, LRL-1, LRL-2, LRL-3



Guayaguayare Offshore

Background

- Block size: 817.16 km²
- Water Depths: 75m
- Block History: 1989– S–11 awarded to Mobil

1998 - Divided into S-11(a) & S-11(b), Elf/Amoco/Repsol awarded S-11(b)

2005 - Made part of Guayaguayare Block.

2009- Awarded to Voyager

2015 - Transferred from Voyager to Range Resources in.

2020-PSC terminated

Petroleum System

- Source: Cretaceous Naparima Hill and Gautier Formations
- Reservoir: Plio-Pleistocene sands of Palmiste, Mayaro and Gros Morne Formations
- Trap Types: Combination of structural and stratigraphic
- Seal: Intraformational shales

<u>Data</u>

- Seismic: 1990 Mobil 2D Survey, South Marine 2D Survey, Voyager 3D Survey, Mobil 3D Survey and ELF 3D Survey
- Wells: Canari Marine-1, 1x, Carambola-1, Columbus-1, Morpho-1, South Marine-4



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Block 1(b)



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Background

- Block size: 577.99km²
- Water Depths: 50m
- Block History: 2005–Block 1(b) was awarded to Petro–Canada and Petrotrin

2009- Petro-Canada sold block to Centrica Energy 2016- Centrica Energy sold block to DeNovo Energy 2017- DeNovo relinquished Block 1(b)

Petroleum System

- Source: Miocene-Pliocene Brasso/ Manzanilla Formation
- Reservoir: Pliocene Mazanilla, Springvale and Talparo Formations
- Trap Types: Combination of structural and stratigraphic
- Seal: Overburden and interbedded clays
- Migration: Occurs along main fault lines and fracture systems

- Seismic: 2006 PetroCanada 3D Survey
- Wells: Couva Offshore-1, Couva Marine-1, 1a, 2, 3X, East Domoil-1, Goodrich-1, Anole-1, Tarouba-1 and offset wells in adjacent licensed blocks





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Data Availability



Shallow Water Seismic Dataset



Shallow Water Wells Dataset



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Virtual Data Room









Final End Of Well Report For Bene-1 Block 22

AUTHORISATION			
	Name / Position	Signature	Date
Prepared by:	James Robertson		
	Operations Engineer		
Reviewed by:	Nigel Bradley		
	Senior Drilling Engineer		
	Brian Brown		
	Drilling Superintendent		
Approved by:	Craig McGregor		
	Drilling Manager, North West Europe & Northern Latin America		

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LOC.						
Record of Issue:						
Rev No.	Date	Modification Details	Checked by			
0	February 2010	Final	NDB			

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https://ttshallowwaterbid2023.com/



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Legal Overview



The Petroleum Act, Chap.62:01 and Its Regulations



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- Section 6 (3) of the Petroleum Act, Chap. 62:01 provides, *inter alia*, that the Minister of Energy and Energy Industries is empowered to enter into and sign an agreement (known as a "Production Sharing Contract" or 'PSC) for the carrying out of petroleum operations relating to the exploration, production and disposition of petroleum, upon such terms and conditions as the Cabinet may approve.
- Section 10 of the Petroleum Act, Chap. 62:01 provides, *inter alia*, that the entry into production sharing contracts within the meaning of section 6, shall be subject to a procedure of competitive bidding in accordance with the Regulations.
- **Regulation 4 (1)** of the Petroleum Regulations, Chap. 62:01 provides that where the President has under section 10 of the Act determined that an area shall be subject to competitive bidding, the Minister shall make an Order to that effect and such Order shall be published in the *Gazette* and in at least one daily newspaper circulating in Trinidad and Tobago.



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Article 1- Definitions

- Article 1.44 "Hybrid Seismic Survey" shall mean a Multi-Client Seismic Survey where a portion of the survey over the Contract Area is confidential to the Contractor for a specific period of time.
- Articles 1.56 "Multi-Client Agreement" an Agreement between the Multi-Client Company and the Mnistry.
- Article 1. 57 "Multi-Client Company" a Company that conducts Multi-Client Seismic Surveys.
- Article 1.58 "Multi-Client Seismic Survey" shall mean a seismic survey acquired over open and/or held acreage using a multi-client model.
- Article 1.70 "Proprietary Seismic Survey" shall mean a seismic survey which is designed, conducted and processed by or on behalf of the Operator in fulfilment of its minimum work obligations.

Rationale: These provisions were included to facilitate the use of Multi-Client Surveys in the Mnimum Work Programme primarily as same is a more economically viable option than acquiring seismic surveys through a service company.



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Artide 4- Contract Term

- Article 4-The Exploration Period is for a period not exceeding eight (8) Contract Years from the Effective Date, divided into three (3) phases: a compulsory first phase; an optional second phase and an optional third phase.
- Rationale: This amendment was made to allow the Contractor more time to explore the Block.



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Article 18.7 (a) and (b) - Royalty

 Articles 18.7(a) and (b) which stated "(a) The royalty payable by the Contractor shall be at the rate stipulated in Regulation 61 of the Petroleum Regulation (the "Royalty"). (b) The Contractor shall pay the Royalty on 100% of Available Petroleum measured at the Measurement Point" were deleted.

Rationale: The deletion was made as the royalty will now be paid by Government along with other taxes.



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Article 18.7-Cost Recovery

Article 18.7 – Subject to the Accounting Procedure in Annex "C" of the PSC and the auditing provisions of the PSC, the Contractor is allowed to recover costs and expenses duly verified in accordance with Article 17 of the PSC in respect of the Petroleum Operations, to the extent of and out of sixty per cent (60%) of all Available Crude Oil and/or all Available Natural Gas from the Contract Area. Noteworthy, the Government shall pay Royalty and accordingly language requiring same of Contractor was deleted.

Rationale: The rate of cost recovery was amended to attract more players in the industry and to improve the economics of the Contractor.



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Article 18.16 – Production Sharing

 Article 18.16- Contractor shall pay interest of two per cent (2%) per annum on the amount determined pursuant to Article 18.15 for failure to pay within the specified period. Article 15.15 states, the Government's share of Profit Natural Gas and or Profit Crude Oil shall be paid within sixty (60) calendar days of the last day of each Month.

Rationale – An amendment was made to the rate so as to improve the Contractor's economics and encourage their compliance with regard to payment deadlines.



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Article 29.3 and 29.4-Pipelines

- Article 29.3- A Contractor seeking access to a petroleum pipeline for a right to have petroleum substances conveyed by the pipeline; or to a relevant petroleum processing facility for a right to have oil processed by the facility; or to a relevant gas processing facility for a right to have piped gas processed by the facility, for such period and quantities as specified, shall apply to the owner of that infrastructure in the first instance.
- Article 29.4- If the Contractor and owner do not reach an agreement on the access application referred to in Article 29.3, the Licensee may refer the matter to the Minister who may at his own discretion grant approval to the Contractor on terms and conditions under which the Contractor may utilize the owner's pipeline, petroleum processing facility or gas processing facility.

Rationale: These sub-Articles were inserted into the PSC to give the Contractor an opportunity to have access to existing infrastructure.



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Article 39.1-Local Content

Article 39.1- Contractor shall comply with the Government's Local Content Legislation and Policies that are in effect and which may be amended from time to time.

Rationale: This amendment was made as Local Content Legislation will be part of the legislative landscape of Trinidad and Tobago in the near future.



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Commercial Overview



Profit Sharing Matrices for Crude Oil and Gas



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<u>Crude Oil</u>

	А	В	С	D	
Price	> \$0 <=\$60	> \$60 <=\$75	>\$75 <=\$125	> \$125	
мворд	%				
<= 10	х	х	х	х	
> 10 <= 15	Х	х	х	Х	
> 15 <= 20	х	х	х	х	
> 20 <= 25	Х	Х	Х	х	
> 25	х	Х	Х	Х	

Windfall Feature:

Government's share of Profit Crude Oil is equal to:

BR + 50%*[(P - US\$125.00) / P]*(1-BR)

Where:

- BR refers to the Base Rates set out in Price Class D
- P is the Crude Oil price

<u>Gas</u>

\backslash	А	В	С	D
Price MMCFD	>\$0.00 <=\$4.00	>\$4.00 <=\$6.00	> \$6.00 <=\$10.00	> \$10.00
			%	-
<= 150	Х	Х	Х	Х
> 150<= 300	Х	Х	Х	х
> 300 <= 450	Х	Х	Х	х
> 450 <= 600	Х	Х	Х	Х
>600	х	х	х	х

Windfall Feature:

Government's share of Profit Natural Gas is equal to:

BR + 50%*[(P - US\$10.00) / P]*(1-BR)

Where:

- BR refers to the Base Rates set out in Price Class D
- P is the Natural Gas price

Minimum Payment, Annual Charges and Bonuses



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Article 21.1 Financial Obligation

- Minimum Payment
- Administrative charge
- Training Contribution
- Research and Development Contribution
- Scholarships
- Production Bonus
- Technical Assistance/Equipment Bonus



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FOR FURTHER INFORMATION

VISIT OUR WEBSITE AT https://energy.gov.tt

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Thank you!