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اءوتوريتي فيتروليوم نكارا بروني دارالسلام
PETROLEUM AUTHORITY OF BRUNEI DARUSSALAM

Brunei Darussalam Oil and Gas Exploration and Production Guidelines

Volume 3: Exploration and Production Data Submission



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ABBREVIATIONS

In this guideline, the following abbreviations are referred:

PMA	Petroleum Mining Agreement as defined in the Petroleum Mining Act, Cap.44
PSA	Production Sharing Agreement
CA	Concession Agreement
EP	Exploration and Production
ASTM	American Society for Testing and Materials
API	American Petroleum Institute

DEFINITIONS

In this guideline, the following definitions are referred:

Authority	Petroleum Authority of Brunei Darussalam
API	American Petroleum Institute. A worldwide oil and natural gas industry standards that are developed under API's American Petroleum Institute accredited process.
Company	Contractor, operator, and partner(s)
Data	All information but not limited to data and/or records relating to the Scheduled Lands and/or Brunei Darussalam, includes but not limited to geological, geophysical, petrophysical and technical data, infrastructure construction, design and engineering materials, well logs, production and completion reports, status reports, samples, cores, test results, maps, plans and accounts given or required to be given to the Authority under any agreements/contracts with the Government, whether in existence on the data hereof or compiled or obtained by the Company during the term of the agreements/contracts and whether or not such information, data and/or records are created, derived, acquired or processed.
Data Interchange	It is the technical term for standardized exchange of digital information between two parties via their accounting or billing system.
Database Management System	Is a software designed to store, retrieve, define, and manage data in a database.
Information Security Standards and Guidelines.	The standards of the requirements for establishing, implementing, maintaining, and continually improving an information security management system within the context of the organization.
Government	The Government of Brunei Darussalam
Physical Data	Data in the physical form which shall include but not limited to in the form of hardcopy, media and well samples
PMA	Petroleum mining agreement means an agreement with regard to exploration, prospecting and mining for petroleum or any of them that the State Party enters into under the Petroleum Mining Act. For the avoidance of doubt, petroleum mining Agreements shall include, without limitation, any licences, leases, concessions, production sharing agreements and service agreements with regard to exploration, prospecting and mining for petroleum or any of them entered into by the State Party in accordance with the Petroleum Mining Act.

1. INTRODUCTION

Exploration and Production Data Submission guideline is Volume 3 of the Brunei Darussalam Oil and Gas Exploration and Production Guidelines. The purpose of this guideline is to specify the format and standards required for reporting and submission of Data from oil and gas operators throughout the Exploration and Production (EP) lifecycles i.e., during the execution of exploration, the discovery of hydrocarbon, stages of delineation, stages of development, production and operation, and decommissioning and restoration, for blocks and areas in Brunei Darussalam.

This guideline is to be used in parallel with other related documents and guidelines as described in the Brunei Darussalam Oil and Gas Exploration and Production Guidelines. In addition, this guideline will be treated as supporting document to applicable laws such as the Petroleum Authority of Brunei Darussalam Order, 2019, or any other Legislation which may be published in the future.

This guideline covers the requirement for all exploration and production data submissions which includes the minimum criteria and data format standard for submissions that must be complied by the Operator. The Operator is encouraged to submit all relevant data as per the timeline stated in Appendix 2 and to comply to the specified timeframes stated in other related documents and guidelines as described in the Brunei Darussalam Oil and Gas Exploration and Production Guidelines.

This guideline may be revised and amended from time to time upon written notice by the Authority and subject to such revision or amendments being consistent with the provision of either the Petroleum Mining Act (PMA) or the Production Sharing Agreement (PSA) as well as the applicable laws enforced in Brunei Darussalam at the material time. The Operator shall adhere to relevant laws, regulations and guidelines as well as international standards.

1.1 Objectives

The objective of this guideline is to provide sufficient guidance and details of requirements in order for the Operator to meet the Authority's requirements. In addition, this guideline is to ensure compliance in the following areas:

- (i) Ensure oil and gas operators' compliance with relevant written laws which shall include but not limited to Petroleum Authority of Brunei Darussalam Order, 2019, and or any other Legislation in respect to petroleum data matter which may be published in the future.
- (ii) Ensure oil and gas operators in Brunei Darussalam are compliant with data submission as per stated in its respective block's PMA and the PSA.

1.2 Roles and Responsibilities

Oil and gas operators in Brunei Darussalam are responsible for compliance with all applicable laws and Government directives and obligations under their respective PMA's and related agreements to ensure the highest level of safety, reliability and availability of facilities.

For clarity, the Operator shall remain liable to reporting and other obligations in applicable laws outside of this guideline.

1.3 Scope of Work

This volume provided guidelines for oil and gas operators in the management of data submission throughout the phases of the hydrocarbon lifecycle.



Figure 1: Chart showing life-cycle phase of hydrocarbon resources from Exploration to Decommissioning and Restoration for the Exploration and Production Data Submission Guideline

This guideline sets out the minimum requirements and the standard format of reporting by the Operator in accordance to PMA and PSA as the best industrial practices. Adherence to this guideline will be demonstrated through the reporting and submission of relevant information and data to the Authority.

All Operators shall adhere to and comply with generally accepted standards of good international petroleum industry practice and all Applicable Laws in force from time to time.

2. MINIMUM REQUIREMENTS

The Operator shall comply with data management industry best practice and shall include the minimum requirements as follows:

2.1 Data Management Practice

The Operator shall demonstrate a strong commitment and accountability in its data management efforts such that a proven and workable Database Management System should be in place. The Database Management System shall include all relevant approved documentation and reliable resources – tools and manpower. This shall be made available upon the request of the Authority as and when requested.

Data shall contain information as per required standards with sufficient details and in formats specified to relevant guidelines to the Authority. In this respect, the Operator shall be responsible to carry out quality assurance and quality checks of any data generated, as well as implement any action(s) to ensure there is no any errors or discrepancies of data prior to submission to the Authority.

2.2 Acceptable Media

For submission of Data, the Operator shall submit data in digital format using acceptable media as listed below. Unless or otherwise stated, the hardcopy format may be requested by the Authority as and when required where it shall be requested in the form of writing.

The Authority will accept the following media for delivery of reports and data:

- i. e-mail attachment (where total attachment file size does not exceed 10MB)
- ii. CD-ROM – full size, no multisession, read only
- iii. DVD-ROM – full size, no multisession, read only
- iv. Portable Hard Drive, non-returnable
- v. USB Flash Drive, non-returnable
- vi. Industry Standard 3592 Tape Cartridges for large volume datasets i.e., seismic field data

Every transmittal of data submission must be attached with a cover letter detailing out all the relevant contents and the letter shall be addressed to the Authority.

All media must be compatible with the Windows Operating System. Otherwise, an extracting procedure must be provided by the Operator with details of their contact person in the event the Authority requires further assistance.

All media shall be supplied by the Operator at no cost to the Authority.

All media must be individually labelled with the Company name, title number(s), report type and period, and disc or drive number. A list of all files is to be included with the report submission.

The Operator shall keep a digital back-up copy of the data submitted to the Authority for at least three (3) year to cover the possibility of physical damage, data loss, or data corrupt.

2.3 Physical Data Transfer

All data shall be submitted to the Authority's allocated premise(s). In the event the Operator is required to submit data in a physical format (i.e. media, hard copies, well samples) to the Authority, all arrangements are to be made by the Operator who shall be responsible sorting the submitted data, make the necessary logistic arrangements and bear all related costs (such as shipping fees, customs duty charges, transportation costs, and other costs which may be incurred) for the delivery of the Data in physical format.

3. CONFIDENTIALITY OF DATA

Data restrictions and confidentiality shall be complied to at all times and shall also apply to any public released by any third party either domestically or internationally, therefore written approval shall first be obtained for any deviation to the respective PMA and PSA.

The Operator shall ensure that sharing of data shall only be done under sufficiently robust technical measures and business processes to ensure data protection and adherence to confidentiality requirements, in compliance with its obligations to the Operator's internal Information Security Standards and Guidelines.

3.1 Data Interchange

In the event there is interest amongst Operators for data interchange, a formal request shall be made to the Authority. No data **shall be released** either domestically or internationally without prior approval from the Authority. An agreement between the Operators and other party(ies) involved are required to be in place prior to any data interchange activities.

4. DATA FORMAT STANDARD FOR SUBMISSION

The Operator shall be responsible to quality check any data acquired and/or generated from their exploration and production activities and to take necessary actions to rectify any errors or discrepancies prior to using, keeping and submission to the Authority.

The Operator shall submit raw digital data to the Authority in open industry format for easy transfer to any system and ensure the data is not in proprietary data format which belong to only specific software.

The Authority reserves the right to specify, after consultation with the Operator, the medium, format and methods by which original data, information, studies, reports and samples are to be stored, prepared and submitted to the Authority.

The Authority reserves the right to reject any data submission that are not following the standards as stipulated in Appendix 1 - Data Submission Tables. The Operator shall rectify and resubmit the data in correct data and media format.

Please refer to Appendix 1 - Data Submission Tables for more details on the data submission requirements.

REFERENCES

In this guideline, the following references are referred:

1.	Draft Hydrocarbon Data Regulations - Deliverable B2, 2012
2.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 1 Annual Work Programme and Budget Guideline, Rev. 0, August 2017.
3.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 2 Reserves and Resources Classification and Reporting Guideline, Rev. 3, May 2020.
4.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 4 Geophysical Acquisition Guideline, Rev. 0, February 2020.
5.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 5 Exploration Guideline, Rev. 0, December 2018.
6.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 7 Field Development Guideline, Rev. 0, July 2019.
7.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 9 Field Management Guideline, Rev. 1, April 2017.
8.	Brunei Darussalam Oil and Gas Exploration and Production Guidelines Volume 11 Decommissioning and Restoration Guideline, Rev B, June 2018.

APPENDIX 1 - DATA STORAGE PRACTICE

The Authority strongly emphasizes the Operator to apply the following practices listed in (i) and (ii) below when data or samples are required to be stored at operator’s premise(s) which shall include a third-party contractor’s and/or service provider’s premises.

i. Storage for Digital Data

As a general practice, the Operator shall submit the data including but not limited to as per the timeline stated in Appendix 2. In the event the Operator requests to retain the data beyond the required submission date, the Operator must first obtain a written approval from the Authority. The Operator must ensure that the retained data is to be managed as per standard digital archiving practice as follows:

- Monitoring the condition of the media on which the data is stored to ensure data integrity is maintained during the storage period;
- Transcribing to new high-density media before the old media deteriorates;
- Ensuring open file data is released upon request in a timely fashion in such manner that the preservation and security of the data are not compromised;
- Records of the original data usage are kept.

As a general guidance, please adhere and ensure the following are met for storage of magnetic media:

Environment

Temperature/RH	Air Quality	Lighting
<ul style="list-style-type: none"> • maximum stability required • 18-20°C ± 2°C • 45-50% RH ± 5% (RH = Relative Humidity) 	<ul style="list-style-type: none"> • filtered to exclude dust and other particles • filtered to exclude acidic and oxidizing gases • well ventilated 	<ul style="list-style-type: none"> • UV-filtered fluorescent lighting • timer controlled switches

Safety and Protection

Fire	Security	Housing	Containers
<ul style="list-style-type: none"> • VESDA (Very Early Smoke Detection Apparatus) • fire alarms • carbon dioxide extinguishers • total gas flooding system 	<ul style="list-style-type: none"> • 24-hour physical or e-surveillance • alarm systems-controlled access 	<ul style="list-style-type: none"> • non-magnetic shelving • tape reels must be suspended vertically on the hub 	<ul style="list-style-type: none"> • non-magnetic, archival quality sealed containers, cassettes, cases or sleeves

ii. Storage for Samples Data

In general, all physical samples such as drilling cuttings, cores, reservoir fluid and sand samples, shall be handled and kept according to Industry Best Practices and Standards such as ASTM and API. The practice establishes the standard method of preserving the samples from the time of collection to the time of analysis in ensuring sample integrity to avoid contamination and to minimize microbial degradation. The practice is for controlled field or laboratory conditions and specifies thorough preparation of equipment and precise operation. Please take note that cutting samples required to acquire and store are only for Exploration well (non NFE well).

The Operator must ensure that the storage area is dry, dust free, secured, fire protected, air conditioned, and humidified. Appropriate use of racking system is highly encouraged. The storage area will typically be constructed from brick, concrete, stone, steel and glass. The structure elements of the storage should be designed to provide at least four hours of fire resistance. All points at which wiring, trunking and the likes from when entering to leaving the building should be sealed properly against vermin, insects, air infiltration and dust. All doors should be strongly constructed with close fitting and equipped with thief-resistant locks.

APPENDIX 2 - DATA SUBMISSION TABLES

All data and reports shall be submitted in the format as specified below and if it not specified under this Guidelines, the Operator shall refer to the specific Exploration and Production Guidelines as listed under references section.

Table 1	<p>Surveys and Drilling</p> <ul style="list-style-type: none"> • Part 1: Geological Survey Report • Part 2: Airborne Gravity and Magnetic Survey Reports • Part 3: Geochemical Survey Report • Part 4: Seismic Survey Report and Data • Part 5: Well Data
Table 2	<p>Samples and Analysis Report</p> <ul style="list-style-type: none"> • Part 1: Samples • Part 2: Analysis Report and Material
Table 3	<p>Petroleum Operations Reports</p> <ul style="list-style-type: none"> • Part 1: Hydrocarbon Exploration • Part 2: Field Development (including unitised field) • Part 3: Work Program and Budgets • Part 4: Hydrocarbon Production • Part 5: Annual Review of Petroleum Resources • Part 6: Planned/Unplanned Shut Down • Part 7: Decommissioning and Restoration
Table 4	<p>Well, Pipelines and Facilities – Onshore and Offshore</p> <ul style="list-style-type: none"> • Part 1: Well Information • Part 2: Platform Information • Part 3: Pipeline Information
Table 5	<p>Health, Safety and Environment</p> <ul style="list-style-type: none"> • Part 1: HSE Information

Table 1: Surveys and Drilling

Data Required	Format	Submission Date	Remarks
PART 1: GEOLOGICAL SURVEY REPORT			
All results, findings and conclusions from the survey	PDF	Within 6 months after completion of survey	Report shall include Interpretation of the stratigraphy and structure of the area survey and regional correlation, geological maps, sections, and columns as a result of the survey.
PART 2: AIRBORNE GRAVITY AND MAGNETIC SURVEY REPORTS			
All results, findings and conclusions from the survey	PDF	Within 6 months after completion of survey	Further details to be aligned with Volume 4: Geophysical Acquisition Guideline.
<i>Field Data</i>			
Aeromagnetic located field data	ASCII	Within 6 months after completion of survey	
Gravity field data	ASCII	Within 6 months after completion of survey	
Altimeter, storm monitor, etc. (aeromagnetic only)	ASCII	Within 6 months after completion of survey	
<i>Processed Data</i>			
Field and processed data	ASCII	Within 6 months after completion of survey	
Aeromagnetic processed data	ASCII	Within 6 months after completion of survey	
Gravity processed data	ASCII	Within 6 months after completion of survey	

Data Required	Format	Submission Date	Remarks
Geophysical images	PDF	Within 6 months after completion of survey	
<i>Final Reports</i>			
Final reports – operations, navigation and processing	PDF	Within 6 months after completion of survey	
Final interpretation report	PDF	Within 6 months after completion of survey	
Digital images of interpretation maps	TIFF	Within 6 months after completion of survey	
PART 3: GEOCHEMICAL SURVEY REPORT			
Geochemical Survey Report	PDF	Within 6 months after completion of data analysis	Reports shall include: <ul style="list-style-type: none"> • All assay and sample location numbers, • Sample location details, • Details of the sampling procedures, • Observation logs and files, • Details of the analytical procedures • Reference background values in the area surveyed, • Interpreting the information, • Any anomaly or location maps or profiles prepared as part of survey, • Any special processed sections, plots, or similar material resulting from the survey,
Geochemical Survey Data	XLS		

Data Required	Format	Submission Date	Remarks
			<ul style="list-style-type: none"> Details of any quality control or quality assurance studies resulting from the survey.
PART 4: SEISMIC SURVEY REPORT AND DATA			
<i>2D Seismic Data</i>			
i. <i>Field Data</i>			
Navigation data including final processes navigation, elevation and bathymetry data	UKOOA		Further details to be aligned with Volume 4: Geophysical Acquisition Guideline
Raw Navigation Data	UKOOA		
Seismic filed data	SEG-D		
Seismic support data	PDF		
Up hole data (onshore)	ASCII		
Itemized filed tape listing	ASCII		
ii. <i>Processed Data</i>			
Final stacked data, near/mid/far sub-stacks, if generated	SEG-Y		
Final migrated data including PSDM/PSTM, near/mid/far sub-stacks, if generated	SEG-Y		
Fully annotated image of final processed migrated data (onshore)	TIF		

Data Required	Format	Submission Date	Remarks
Short point to CDP relationship	ASCII		
Itemized process tape listing	ASCII		
Data for both stacked and migrated velocities	ASCII		
iii. Final Reports			
Final report (operations and navigation)	PDF	Within 12 months after completion of survey	
Final processing report	PDF	Within 12 months after completion of survey	
Final interpretation report	PDF	Within 18 months after completion of survey	
Digital images of interpretation maps	TIFF	Within 18 months after completion of survey	
<u>3D Seismic Data</u>			
i. Field Data			
Final processed navigation data including elevation and bathymetry data	UKOOA		Further detail to be aligned with Volume 4: Geophysical Acquisition Guideline
Raw Navigation data	UKOOA		
Seismic field data	SEG-Y		
Seismic support data	PDF		
Up hole data (onshore)	ASCII		
Itemized field tape listing	ASCII		

Data Required	Format	Submission Date	Remarks
ii. Processed Data			
Final stacked data, near/mid/far sub-stacks, if generated	SEG-Y		
Final migrated data including PSDM/PSTM, near/mid/far sub-stacks, if generated	SEG-Y		
Final processed (grid) bin coordinates	UKOOA		
Polygonal positions for 3D data (full fold outline for offshore; full fold outline and surface outline for onshore)	ASCII		
Data for both stacked and migrated velocities	ASCII		
2D data subset (non-exclusive surveys)	SEG-Y		
Itemized process tape listing	ASCII		
iii. Final Reports			
Final report (operations and navigation)	PDF	Within 12 months after completion of survey	
Final processing report including grid definition	PDF	Within 12 months after completion of survey	
Final interpretation report	PDF	Within 18 months after completion of survey	
Digital images of interpretation maps	TIFF	Within 18 months after completion of survey	

Data Required	Format	Submission Date	Remarks
<u>Reprocessed Seismic Data</u>			
i. <i>Processed Data</i>			
Final stacked data 2D and 3D; near/mid/far sub-stacks, if generated	SEG-Y		
Final migrated data including PSDM/PSTM (2D and 3D); near/mid/far sub-stacks, if generated	SEG-Y		
Final processed (grid) bin coordinates	UKOOA		
Polygonal positions for 3D data (full fold outline for offshore; full fold outline and surface outline for onshore)	ASCII		
Data for both stacked and migrated velocities	ASCII		
Itemized tape listing	ASCII		
ii. <i>Final Reports</i>			
Final report (reprocessing)	PDF	Within 6 months after completion of reprocessing	
Final interpretation report	PDF	Within 12 months after completion of reprocessing	
Digital images of interpretation maps	TIFF	Within 12 months after completion of reprocessing	

Data Required	Format	Submission Date	Remarks
<u>Site Survey</u>			
Processed digital data			
Interpretation Report	PDF		
Site Survey Map	TIFF		
<u>Metocean Data</u>			
METOCEAN (Meteorology and Oceanography) data: 1) Wave 2) Wind 3) Current 4) Tide 5) Temperature 6) Salinity	ASCII Table or PDF		
Environmental or oceanographic data	ASCII Table or PDF		
PART 5: WELL DATA			
<u>Field and Processed Digital Data</u>			
Edited field data and processed data for all wireline logs, production logs, MWD or LWD tools	LIS, DLIS, LAS	Well data and reports shall be submitted within 6 months after completion of well	
Well test raw data including choke settings, flow rates, temperature and pressure data	ASCII, XLS		

Data Required	Format	Submission Date	Remarks
Downhole pressure and temperature data	ASCII		
Edited field and processed data for borehole deviation surveys	LIS, DLIS, ASCII, LAS, XLS		
Interpretative log analysis	LIS, DLIS, ASCII, LAS, XLS		
Mud logging data	ASCII, LAS		
Velocity surveys <ul style="list-style-type: none"> • Raw • Processed/VSP • Check shot and time/depth analysis 	DLIS, SEG-Y, ASCII for Check shot and VSP data		
Core, sidewall core natural light photography; UV light to be done in fluorescent sections	TIFF/JPEG		
<u>Reports and Images</u>			
Final well report	PDF	Well data and reports shall be submitted within 6 months after completion of well	
Log displays	PDS/META		
Mud log	TIFF/PDF		
Well index sheet	PDF		
Petrophysical, geochemical or other sample analyses	ASCII/XLS		

Data Required	Format	Submission Date	Remarks
Composite well log	TIFF/JPEG		
Velocity log displays	TIFF/JPEG		
Production logging survey reports	PDF		
Tracer injection survey reports	PDF		
Work-over/re-entry report	PDF		

Table 2: Samples and Analysis Report

Data Required	Format	Submission Date	Remarks
PART 1: SAMPLES			
Drill cuttings (Drill cuttings for relevant well only. Example from Exploration well and appraisal well)	-	As and when available	A minimum of 200g dry weight per sample interval set and thoroughly cleaned, dried and suitably packaged with indelible printing of well name, depth ranges.
Core samples	-	As and when available	Fresh core slabbed vertically.
Sidewall core material	-	Within 6 months after completion of well	If recovered.
Fluid samples	-	Within 3 months after completion of well or after collection of samples	<ul style="list-style-type: none"> • If collected from wireline, drill stem or production tests. • In an API approved safety container.
Gaseous hydrocarbon samples	-	On completion of test	<ul style="list-style-type: none"> • If collected from wireline, drill stem or production tests recommended volume (300 cc if available). • In an API approved safety container.
PART 2: ANALYSIS REPORT AND MATERIAL			
Analysis report	PDF	As and when available	
Microfossil and Petrographic Material Petrological slides	-	On completion of test	If prepared.

Table 3: Petroleum Operations Report

Data Required	Format	Submission Date	Remarks
PART 1: HYDROCARBON EXPLORATION			
Well reports	PDF	<ul style="list-style-type: none"> • Discovery Notification letter - forthwith on becoming aware of any hydrocarbon encountered, • Well proposal - one month before spud, • Well resume and end of well reports - six months after rig left location. 	Refer to Volume 5: Exploration Guideline
Data list	CLS		
Sub-surface model	Any compatible format		
PART 2: FIELD DEVELOPMENT (INCLUDING UNITISED FIELD)			
Hydrocarbon Development Phase Reports	PDF and hardcopy		Refer to Volume 7: Field Development Guideline
Field Development Plan (FDP) and the models below: <ul style="list-style-type: none"> • Static model* • Dynamic model* • Integrated Production modelling* • Economic model* (*Using non-propriety model)	PDF and hardcopy	Field Development Plan to be submitted for approval within the time frame stated in the respective agreement or contract	Refer to Volume 7: Field Development Guideline

PART 3: WORK PROGRAM AND BUDGETS			
Work program and budgets			Refer to Volume 1: Annual Work Programme and Budget Guideline
PART 4: HYDROCARBON PRODUCTION			
Hydrocarbon production			Refer to Volume 9: Field Management Guideline
PART 5: ANNUAL REVIEW OF PETROLEUM RESOURCES			
Report	PDF and hardcopy	Final submission not later than end of February of each calendar year.	Refer to Volume 2: Reserves and Resources Classification and Reporting Guideline
Table Appendices	XLS		
PART 6: PLANNED/UNPLANNED SHUT DOWN			
Planned and unplanned shutdowns			Refer to Volume 1: Annual Work Programme and Budget Guideline Refer to Volume 9: Field Management Guideline
PART 7: DECOMMISSIONING AND RESTORATION			
Decommissioning and restoration			Refer to Volume 11: Decommissioning and Restoration Guideline

Table 4: Well, Pipelines and Facilities – Onshore and Offshore

Data Required	Format	Submission Date	Remarks
Part 1: Well Information			
Well name	ASCII Table		
UWI	ASCII Table		
GIS Location	GIS Format		For new well to be spudded, the Company shall notify the Authority of the number of any such borehole or well which may be made. The Company shall share the Authority the well result once the drilling completed.
Spud date	ASCII Table		
Well type <ul style="list-style-type: none"> • Wildcat • Exploration • Appraisal • Development • Exploration/Appraisal • Exploration/Development • Appraisal/Development 	ASCII Table		
Well result <ul style="list-style-type: none"> • Dry • Wet • Oil Discovery • Gas Discovery • Oil & Gas Discovery • Sub-commercial Oil Discovery • Sub-commercial Gas Discovery 	ASCII Table		

<ul style="list-style-type: none"> • Sub-commercial Oil & Gas Discovery • Oil Show • Gas Show • Oil & Gas Show 			
Well Status <ul style="list-style-type: none"> • Producing • Suspended • Temporary Abandonment • Plug & Abandoned 	ASCII Table		
Part 2: Platform Information			
Platform Name	ASCII Table		
Platform ID	ASCII Table		
GIS Location	GIS Format		
Platform Type	ASCII Table		
Elevation SS	ASCII Table		
Year of Commission	ASCII Table		
End of Life	ASCII Table		
Status <ul style="list-style-type: none"> • Uptime Statistic 	ASCII Table		
Slots <ul style="list-style-type: none"> • Number of slots • Well allocation 	ASCII Table		
Pipeline Connection	ASCII Table		
Ullage	ASCII Table		
Pressure Value & Regime	ASCII Table		
Max Rate <ul style="list-style-type: none"> • Gas 	ASCII Table		

<ul style="list-style-type: none"> • Liquid 			
Temperature Max	ASCII Table		
Separator Details	ASCII Table		
Compressor Details	ASCII Table		
Engineering Drawing	PDF		
Part 3: Pipeline Information			
Pipeline Name	ASCII Table		
PID	ASCII Table		
GIS Location	GIS Format		
Year of Commission	ASCII Table		
End of Life	ASCII Table		
Pipeline Size	ASCII Table		
Pipeline Status	ASCII Table		
Ullage	ASCII Table		
Pipeline Phase <ul style="list-style-type: none"> • Liquid • Gas • Multiphase 	ASCII Table		
Pressure Regime	ASCII Table		
Max Rate <ul style="list-style-type: none"> • Gas • Liquid 	ASCII Table		
Temperature Max	ASCII Table		
Tolerance <ul style="list-style-type: none"> • CO₂ • H₂S 	ASCII Table		
Engineering Drawing	PDF		

Table 5: Health, Safety and Environment

Data Required	Format	Submission Date	Remarks
PART 1: HSE Information			
<ul style="list-style-type: none"> • EBS, EIA Reports • HSE-MS Manual • HSE Cases (Production) • Emergency Response Plan • Environmental Compliance Report (Scheduled Waste, Effluent Quality and Emission) 	PDF		