



PPDM 3.9: Data Model Use by Well Life Cycle Phase

The PPDM Association
is a not-for-profit
society for data
managers.

The PPDM Data Model
is a relational model
specification used by
the Oil and Gas
industry as the
function for effective
management and
stewardship of data
related to Upstream
Exploration and
Production.

PPDM 3.9 was built by
industry subject matter
experts who have
worked cooperatively
over 24 years to
develop an open data
specification that is
practical and useful for
companies of all sizes.



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- the Courts of the Province of Alberta shall be the appointing authority in accordance with UNCITRAL Rules;
- the language to be used in the arbitral proceedings shall be English;
- the Arbitrator shall be a person who is legally trained and who has experience in the information technology field in Canada and is independent of either party; and,
- the decision of the arbitration court shall be final and binding upon each of the parties.

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PPDM 3.9: Wells Implementation by Life Cycle Phase

ABOUT THIS DOCUMENT: This document is intended to help users of PPDM 3.9 understand which subject areas are most likely to be needed by a well related data model implementation at various stages of a well's life cycle. It was created by a small group of PPDM Subject Matter Experts to assist with planning PPDM implementations that are focussed on Well related data.

PRIMARY FOCUS: The Well Life Cycle is the main focus of this document, and it should be used with that perspective in mind. PPDM 3.9 contains many other subject areas; similar exercises could be conducted to example other life cycles in this way. If you are interested in a different life cycle, please contact the PPDM Association.

SOURCES: The Business Modules are derived from the PPDM 3.9 Roadmaps document. Use the PPDM 3.9 Roadmaps to identify the tables in each Business Module.

SUMMARY: The Summary section contains a high level summary of lists the Business modules down the left side, and high level phases (Planning, Drilling, Completing, Producing and Disposing) are shown along the top row. has a YES if it used in that PHASE.(should be added to) of the purpose of each Business Module in that phase.

PHASES: The Phase five sections provide a brief (starting point) description of the purpose of each Business Module in that phase.

Summary

Planning

Drilling

Completing

Producing

Disposing

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DISCLAIMER: These are examples and not intended to provide definitive or complete lists of tables and modules that should be used at each functional phase of operations. While this information may provide a helpful starting point, every implementation team must consider the needs and scope of their work and create results that are fit for purpose.

Wells: Business Module Summary

MODULE / SUB MODULE	PLAN	DRILL	COMPLETE	PRODUCE	DISPOSE
Spatial					
Spatial Locations	YES	YES	YES	YES	YES
Spatial Parcels	YES				YES
Support Modules					
Areas					
Entitlements					
Finances	YES	YES	YES	YES	YES
Rate Schedules					
Source Document					
Bibliography					
Additives					
Coordinate Systems					
Business Associates					
Projects					
Work Orders					
Units of Measure					
Volume Conversions					
Data Management	YES	YES	YES	YES	YES
Equipment					
Real Equipment		YES	YES	YES	YES
Catalogue Equipment	YES				
Equipment Specs	YES				
Equipment Maintenance				YES	YES
Products / Substances	YES	YES	YES	YES	YES

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Wells					
Well General Information	YES				
Well Agreements	YES				
Well Activity Summaries		YES	YES	YES	YES
Well Status	YES	YES	YES	YES	YES
Well Locations	YES	YES			
Well Licenses	YES	YES			
Well Cores		YES			
Well Directional Surveys		YES			
Well Interpretations		YES			
Well Test		YES		YES	YES
Well Operations		YES	YES	YES	
Well Pressures		YES		YES	YES
Well Logs		YES			
Production Reporting	YES			YES	YES
Seismic					
Description	YES				
Acquisition	YES				
Licenses	YES				
Locations	YES				
Interpretation	YES			YES	
Processing	YES				
Transactions	YES				
Production Entities				YES	
Support Facilities	YES	YES	YES	YES	YES
Stratigraphy	YES		YES		
Lithology	YES	YES			

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Facilities	YES			YES	YES
Contracts	YES			YES	
Management Procedures					
Contract Details					
Contract Provisions					
Partnerships	YES			YES	
Restrictions	YES				
Instruments	YES				
Land Rights					
General Land Information	YES	YES		YES	
Land Status		YES		YES	
Land Right Authorizations	YES				
Land Relationships				YES	
Land Acquisition	YES				
Applications and Approvals					
Applications	YES				YES
Consultations	YES				
Consents	YES				
Notification	YES	YES	YES	YES	YES
Contests	YES				
Obligations	YES				
Health Safety & Environment		YES	YES	YES	YES
Reserves Reporting	YES				
Reporting Hierarchies	YES			YES	
Classification Systems					
Sample Analysis		YES	YES	YES	
Information & Product Management	YES	YES	YES	YES	YES

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Sample Management	YES	YES	YES
Paleontology	YES		

Fossils

Ecozones

Wells: Planning Phase

MODULE / SUB MODULE

DETAILS

Spatial

Spatial Locations	Locations for well both bottom hole and surface are identified
Spatial Parcels	Land Rights for Sub-Surface for opportunities. Need surface access prior to site construction

Support Modules

Areas	
Entitlements	
Finances	Initial setup for Cost Centre, AFE creation and approval, Budget information
Rate Schedules	
Source Document	
Bibliography	
Additives	
Coordinate Systems	
Business Associates	
Projects	
Work Orders	
Units of Measure	
Volume Conversions	

Data Management

Data is created and stored in various source applications, and key information shared with other stakeholders. Master data store may be created at this point.

Equipment

Real Equipment	
Catalogue Equipment	Will use to decide which equipment for the the well - drilling, completion and producing
Equipment Specs	Will use to decide which equipment for the the well - drilling, completion and producing
Equipment Maintenance	

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Products / Substances	Planned products understood; regulatory applications may require this information
Wells	
Well General Information	Starting point for well as it is planned
Well Agreements	Any agreements completed prior to site construction
Well Activity Summaries	
Well Status	Well is proposed, may have a location
Well Locations	Possible location, planned location
Well Licenses	Received at end of Planning Phase
Well Cores	
Well Directional Surveys	
Well Interpretations	
Well Test	
Well Operations	
Well Pressures	
Well Logs	
Production Reporting	Production from similar or nearby wells is examined.
Seismic	Seismic may be in inventory or purchased or shot. Seismic is used in the evaluation of the opportunity
Description	
Acquisition	
Licenses	
Locations	
Interpretation	
Processing	
Transactions	
Production Entities	
Support Facilities	Existing facilities such as roads, powerlines, camps are part of the planning process.
Stratigraphy	Used in evaluation of the opportunity

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Lithology	Used in evaluation of the opportunity
Facilities	May be reviewed to see if production or transportation facilities are in place or need to be built
Contracts	Any contracts complete prior to site construction. Also used for the partnership information on the sub-surface rights as part of the Land Management Procedures
	Contract Details
	Contract Provisions
Partnerships	Used for partnership information for costs and approvals
Restrictions	May need to change location due to restriction prior to applying for license
Instruments	Any legal instruments that may affect getting approval
Land Rights	
General Land Information	Need to check is sub-surface rights are valid for the opportunity. May need to acquire the sub-surface rights. Will need surface access
Land Status	
Land Right Authorizations	Ensure that necessary access rights have been obtained, along with consents from regulatory or local groups.
Land Relationships	
Land Acquisition	Ensure that the necessary land rights (surface and mineral) are in place.
Applications and Approvals	
Applications	Any applications - such as environmental, crossings, jurisdictional etc
Consultations	Recording of any consultations done as part of getting approval - public, regulatory, owners
Consents	If an special consents are required, they should be recorded
Notification	Any notifications are recorded as part of the Planning to necessary participants, regulatory etc
Contests	Legal contests if part of the Planning
Obligations	Tracking of any Obligations negotiated or required for the opportunity to proceed
Health Safety & Environment	
Reserves Reporting	Recording of initial reserve estimates as part of the evaluation of the opportunity
Reporting Hierarchies	Estimate contribution of planned well(s) to each segment of the appropriate hierarchies.
Classification Systems	
Sample Analysis	

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Information & Product Management	Any documents or objects created as part of this phase should be stored
Sample Management	
Paleontology	Used during exploration and opportunity identification.

Fossils

Ecozones

Wells: Drilling Phase

MODULE / SUB MODULE	DETAILS
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Spatial

Spatial Locations

Surface location of the drill site, desired bottom hole location, actual bottom hole location

Spatial Parcels

Support Modules

Areas

Entitlements

Finances

Tracking of AFE's and updates to financial accounting

Rate Schedules

Source Document

Bibliography

Additives

Coordinate Systems

Business Associates

Projects

Work Orders

Units of Measure

Volume Conversions

Data Management

Data is created and stored in various source applications, and key information shared with other stakeholders. Master data store may be created at this point.

Equipment

Real Equipment

Equipment used during drilling (will not stay with the well), casing

Catalogue Equipment

Equipment Specs

Equipment Maintenance

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Products / Substances	Products and substances may be observed and recorded during drilling, even if only trace or small amounts. Water management.
Wells	
Well General Information	Update of spud, kb, tmd, rig release and other standard information
Well Agreements	
Well Activity Summaries	Tracking of drilling activities by sets
Well Status	Status reporting - regulatory, internal and partners
Well Locations	Surface location of the drill site, desired bottom hole location, actual bottom hole location
Well Licenses	License or permit information as received from regulatory
Well Cores	Core analysis results to be used in evaluation if done during drilling
Well Directional Surveys	Capture of the directional surveys - may need to be submitted to regulatory
Well Interpretations	Any interpretations done as part of the evaluation to go forward to completion
Well Test	Any Drill Stem Tests results to be used in evaluation if done during drilling
Well Operations	Tracking of drilling activities
Well Pressures	Any Pressure Test results to be used in evaluation if done during drilling
Well Logs	Any Well Logs run, both mandatory and for evaluation purposes
Production Reporting	
Seismic	
Description	
Acquisition	
Licenses	
Locations	
Interpretation	
Processing	
Transactions	
Production Entities	
Support Facilities	Use of roads, rigs and other support facilities tracked and related expenses managed.
Stratigraphy	

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Lithology	Lithology is tracked through core and cuttings analysis
Facilities	
Contracts	
	Management Procedures
	Contract Details
	Contract Provisions
Partnerships	
Restrictions	
Instruments	
Land Rights	
	General Land Information Any surface requirements, sub-surface requirements, or dilling issues
	Land Status
	Land Right Authorizations
	Land Relationships
	Land Acquisition
Applications and Approvals	
	Applications
	Consultations
	Consents
	Notification Notifications may be required to regulatory, owners and partners
	Contests
Obligations	
Health Safety & Environment	Any drilling incidents and how they were resolved
Reserves Reporting	
Reporting Hierarchies	
Classification Systems	
Sample Analysis	Analysis of any samples taken during the drilling process

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Information & Product Management	Any documents or objects created as part of this phase should be stored
Sample Management	Management of any samples taken during the drilling process
Paleontology	

Fossils

Ecozones

Wells: Completing Phase

MODULE / SUB MODULE

DETAILS

Spatial

Spatial Locations

Surface location of the drill site, actual bottom hole location

Spatial Parcels

Support Modules

Areas

Entitlements

Finances

Tracking of AFE's and updates to financial accounting

Rate Schedules

Source Document

Bibliography

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Coordinate Systems

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Projects

Work Orders

Units of Measure

Volume Conversions

Data Management

Data is created and stored in various source applications, and key information shared with other stakeholders. Master data store may be created at this point.

Equipment

Real Equipment

Any special equipment used as part of completion process, any production equipment to be installed

Catalogue Equipment

Equipment Specs

Equipment Maintenance

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Products / Substances	Hydrocarbons and substances used during the completion, including frac jobs, are captured.
Wells	
Well General Information	Update of anyd standard information
Well Agreements	
Well Activity Summaries	Tracking of activities for the completion process
Well Status	Status reporting - regulatory, internal and partners
Well Locations	
Well Licenses	
Well Cores	
Well Directional Surveys	
Well Interpretations	
Well Test	
Well Operations	Tracking of operations for the completion procss
Well Pressures	
Well Logs	
Production Reporting	
Seismic	
Description	
Acquisition	
Licenses	
Locations	
Interpretation	
Processing	
Transactions	
Production Entities	
Support Facilities	Rigs, roads, power lines, water sources and more may be captured
Stratigraphy	Completions pay close attention to the intersection between the well bore and the reservoir, seeking to optimize the contact between the

Lithology	
Facilities	
Contracts	
Management Procedures	
Contract Details	
Contract Provisions	
Partnerships	
Restrictions	
Instruments	
Land Rights	
General Land Information	
Land Status	
Land Right Authorizations	
Land Relationships	
Land Acquisition	
Applications and Approvals	
Applications	
Consultations	
Consents	
Notification	Notifications may be required to regulatory, owners and partners
Contests	
Obligations	
Health Safety & Environment	Any completing incidents and how they were resolved
Reserves Reporting	
Reporting Hierarchies	
Classification Systems	
Sample Analysis	Analysis of any samples taken during the completing process

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Information & Product Management	Any documents or objects created as part of this phase should be stored
Sample Management	Management of any samples taken during the completing process
Paleontology	

Fossils

Ecozones

Wells: Producing Phase

MODULE / SUB MODULE

DETAILS

Spatial

Spatial Locations

Surface location of the drill site, actual bottom hole location

Spatial Parcels

Support Modules

Areas

Entitlements

Finances

Tracking of revenue and operating costs, review to budget

Rate Schedules

Source Document

Bibliography

Additives

Coordinate Systems

Business Associates

Projects

Work Orders

Units of Measure

Volume Conversions

Data Management

Data is created and stored in various source applications, and key information shared with other stakeholders. Master data store may

Equipment

Real Equipment

Any production equipment

Catalogue Equipment

Equipment Specs

Equipment Maintenance

Recording of regular maintenance on production equipment or any failures

Products / Substances

Products are tracked and analyzed for volume, composition and distribution.

Wells

Well General Information

Well Agreements

Well Activity Summaries

Well Status Status reporting - regulatory, internal and partners

Well Locations

Well Licenses

Well Cores

Well Directional Surveys

Well Interpretations

Well Test Recording of any standard tests required by regulatory, Production tests done as part of allocation process

Well Operations Operational information done as part of the production process

Well Pressures Recording of any standard tests required by regulatory

Well Logs

Production Reporting

Production volumes, allocations, dispositions, forecasts and more are tracked.

Seismic

Description

Acquisition

Licenses

Locations

Interpretation Micro seismic may be used to track the depletion of a reservoir.

Processing

Transactions

Production Entities

Tracking of production volumes at the entity level (Well, Wellbore, Wellbore Completion, Production String , Facility

Support Facilities

Facilities used to maintain the well, gathering stations, pipelines, storage facilities and more.

Stratigraphy

Lithology

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Facilities	Any facilities such as storage, transport, tanks, gathering centres
Contracts	Contracts are used to ensure that partner rights and obligations are met.
Management Procedures	Management procedures are used to control operational and financial details.
Contract Details	
Contract Provisions	
Partnerships	Need partnership information for cost and revenue distribution
Restrictions	
Instruments	
Land Rights	
General Land Information	Review against Land
Land Status	Once producing, lease may be held until not producing
Land Right Authorizations	
Land Relationships	Throughout the producing stage, land rights must be monitored to ensure that obligations to hold the land are addressed.
Land Acquisition	
Applications and Approvals	
Applications	
Consultations	
Consents	
Notification	Notifications may be required to regulatory, owners and partners
Contests	
Obligations	
Health Safety & Environment	Any incidents that occurred during production
Reserves Reporting	
Reporting Hierarchies	Volumes are allocated and aggregated for corporate reporting, strategic planning and operational management.
Classification Systems	
Sample Analysis	Analysis of any samples taken during the completing process
Information & Product Manage	Any documents or objects created as part of this phase should be stored

Sample Management	Management of any samples taken during the completing process
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Paleontology

Fossils

Ecozones

Wells: Disposing Phase

MODULE / SUB MODULE

DETAILS

Spatial

Spatial Locations

Surface location of the drill site, actual bottom hole location

Spatial Parcels

Reclamation of the land around the well site and access roads

Support Modules

Areas

Entitlements

Finances

Tracking of AFE's and updates to financial accounting and eventual close of well

Rate Schedules

Source Document

Bibliography

Additives

Coordinate Systems

Business Associates

Projects

Work Orders

Units of Measure

Volume Conversions

Data Management

Data is created and stored in various source applications, and key information shared with other stakeholders. Master data store may be created at this point.

Equipment

Real Equipment

Equipment used in suspension or abandonment processes

Catalogue Equipment

Equipment Specs

Equipment Maintenance

Removal of production equipment, any suspension or abandonment inspections

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Products / Substances	Details are included in final reclamation documentation, or A&D packages.
Wells	
Well General Information	
Well Agreements	
Well Activity Summaries	
Well Status	Status reporting - regulatory, internal and partners
Well Locations	
Well Licenses	
Well Cores	
Well Directional Surveys	
Well Interpretations	
Well Test	Any tests required due to suspension or abandonment
Well Operations	
Well Pressures	Any tests required due to suspension or abandonment
Well Logs	
Production Reporting	Volumes will be included in A&D documentation, but generally not needed if a well is to be abandoned.
Seismic	
Description	
Acquisition	
Licenses	
Locations	
Interpretation	
Processing	
Transactions	
Production Entities	
Support Facilities	Details about rights to nearby infrastructure may be carried into A&D information
Stratigraphy	

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Lithology		
Facilities	Any facilities that are affected by the disposing of the well	
Contracts		
	Management Procedures	
	Contract Details	
	Contract Provisions	
Partnerships		
Restrictions		
Instruments		
Land Rights		
	General Land Information	
	Land Status	
	Land Right Authorizations	
	Land Relationships	
	Land Acquisition	
Applications and Approvals		
	Applications	Application and approval for reclamation or plug/abandon must be obtained.
	Consultations	
	Consents	
	Notification	Notifications may be required to regulatory, owners and partners
	Contests	
Obligations		
Health Safey & Environment	Any incidents during suspension or abandonment	
Reserves Reporting		
Reporting Hierarchies		
Classification Systems		
Sample Analysis		

Information & Product Management	Any documents or objects created as part of this phase should be stored
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Sample Management

Paleontology

Fossils

Ecozones