Core Analysis File

Layout Document

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Alberta Energy Regulator
Core Analysis File: Layout Document

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Contents

1 Introduction

1.1 Overview

This document describes the physical characteristics and data contents of the Core Analysis File. The Core Analysis File is composed of a complete set of basic non-interpretive data for non-confidential analysis. Oil sands analysis may be included. Further information regarding regulations on Core Analysis can be found in section 11.030 of the Oil and Gas Conservation Act.

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- Makes no guarantee to the continuing availability of any data or the consistency of the format of transferred data.

2 File Specification

Availability	Monthly
Sort Sequence	Ascending Order by LOC-DESC/RECORD TYPE
File Key	LOC-DESC • TOWNSHIP • MERIDIAN • RANGE • SECTION • LEGAL SUBDIVISION • LOCATION EXCEPTION • EVENT SEQUENCE UPDATE FLAG RECORD TYPE

3 Record Element Description

Note: Elements may be found within each of the Record Types or specific to one Record Type.

Element Name	Element Description
CPA-ID	The name of the municipality in the province of Alberta.
Loc-Exception	Unique identifier for the well assigned by the AER to a licensed wellbore. This follows the format for Unique Well Identifiers in Alberta as defined by Appendix 2 of AER Guide 59.
Core Analysis Number	Number assigned by AER to the Core Analysis Report. The number is sequential and unique.
Record Code	The three character code that is unique to each system at the AER.
Field Code	Unique identifier for the field.
Pool Code	Unique identifier for the pool.
Oil Sands Deposit Code	Unique identifier for the oil sands deposit.
Core Analysis Interval Top	Top of interval striking analyzed for a core analysis / sieve analysis report.
Core Analysis Interval Base	Base of interval striking analyzed for a core analysis / sieve analysis report.
Core Lab Code	Lab code is an identifier we gave them similar to a BA ID.
Lab File Number	Identification number assigned to the sample file by the laboratory. WAN PAS Mnemonic: ~TEST DATA, LFNUM
Analysis Date	The Date that well core analysis was performed.
Analysis Year	The year that well core analysis was performed.
Analysis Month	The month that well core analysis was performed.
Analysis Day	The day that well core analysis was performed.
Analyst	The name of the analyst who perform the analysis on the well core sample.
Core Cut Diameter	Full diameter of the core sample.
Core Cut Type Fixed	Describes the type of core cut.
Core Cut Fluid Fixed	Fluid code indicating what fluid was present during the cutting operation for the core.
Core Handling Fixed	Handling received by the Core between the time it was cut and the time it was analyzed.
Gamma Core Fixed	Indicates the type of core gamma correlation that was applied to the core sample.
Sample Shape	Shape of the well core sample taken for analysis.
Data-Ind-Sample-Diameter	The full diameter measure of the core sample expressed in millimeters (mm).
Sample Diameter	The full diameter measure of the core sample expressed in millimeters (mm).

Element Name	Element Description
Data-Ind-Sample-Length	The length of core recovered over the sample interval expressed as a ratio. Valid values are 0 to 120.
Sample Length	Describes the length of the plug samples taken
Solvent Fixed	Describes the solvent used on the core analysis sample.
Data-Ind-Extract-Time	The total time of the fluid extraction process performed on the sample.
Extract-Time	The total time of the fluid extraction process performed on the sample.
Data-Ind-Dry-Time	The amount of time used in drying the core.
Dry-Time	The amount of time used in drying the core.
KB-Elevation	The elevation of the kelly bushing measured as meters above mean sea level.
Extract Method	The method used for fluid extraction from the core.
Dry Method	Indicates the method used to dry the core sample.
Permeability Analysis Method	The testing methodology used to determine the permeability of the core sample.
Porosity Analysis Method	The testing methodology used to determine the porosity of the core sample.
Density Analysis Method	The testing methodology used to determine the density of the core sample.
Fluid Saturation Analysis Method	The test method used to determine the fluid saturation of the core sample.
Core Cut Type Free	Describes the type of core cut.
Core Cut Fluid Free	Fluid code indicating what fluid was present during the cutting operation for the core.
Core Handling Free	Handling received by the Core between the time it was cut and the time it was analyzed.
Gamma Correlation Free	Indicates the type of core gamma correlation that was applied to the core sample.
Solvent Free	Describes the solvent used on the core analysis sample.
Core Remarks	Comments relating to the well core analysis.
Other Services	Describes other advanced analysis or services performed on the sample. i.e. 'screen analysis', 'BPB dipmeter analysis'
Core Recovered	Length of core recovered for this interval.
Interval Depth	Measured depth to the base of the core analysis interval in metres.
Interval Length	Measured length of the cored interval undergoing analysis.

Element Name	Element Description
Data-Ind-Kmax	Indicates if the maximum horizontal permeability (K) was measured and is available for this core analysis.
Kmax	Maximum horizontal permeability measurement. This measurement is generally made parallel to the direction of principle fracture.
Data-Ind-K90	Indicates if the horizontal permeability (K) at 90 degrees to the maximum was measured and is available for this core analysis.
K90	Horizontal 90 degree permeability records the horizontal permeability measured 90 angular degrees from the maximum horizontal permeability.
Data-Ind-Kvert	Indicates if the vertical permeability (K) was measured and is available for this core analysis.
Kvert	Vertical permeability records the permeability measured with respect to the vertical orientation of the core
Data-Ind-Porosity	Indicates if the porosity was measured and is available for this core analysis.
Porosity	The value of the porosity for the isopach formation which is derived in one of the following ways: 1) Calculated from the pay weighted average of the resource intervals and their associated total assigned pay, 2) Via actual log measurement at the resource isopach formation level 3) Via actual log measurement at the resource play area formation level. This value is expressed a fraction.
Data-Ind-Grain-Density	Indicates if the grain density was measured and is available for this core analysis.
Grain-Density	Measured Grain Density of the core sample. Grain density is the unit volume of minerals with zero porosity.
Data-Ind-Bulk-Density	Indicates if the bulk density was measured and is available for this core analysis.
Bulk Density	Measured bulk density of the core sample. Bulk density is the combined density of rock and fluids in the pore spaces.
Data-Ind-Bulk-Mass-Oil	Indicates if the bulk mass oil was measured and is available for this core analysis.
Bulk-Mass-Oil	Bulk mass of the oil for the core sample.
Data-Ind-Bulk-Mass-Water	Indicates if the bulk mass water was measured and is available for this core analysis.
Bulk-Mass-Water	Bulk mass of the water for the core sample.
Data-Ind-Bulk-Mass-Sand	Indicates if the bulk mass sand was measured and is available for this core analysis.
Bulk-Mass-Sand	Bulk mass of the sand for the core sample.
Data-Ind-Pore-Volume-Oil	Indicates if the pore volume oil was measured and is available for this core analysis.

Element Name	Element Description
Pore-Volume-Oil	Volume percentage of oil saturation in the pore spaces of the core sample (residual oil saturation).
Data-Ind-Pore-Volume-Water	Indicates if the pore volume water was measured and is available for this core analysis.
Pore-Volume-Water	Volume percentage of Water Saturation in the pore spaces of the core sample (residual water saturation).
Data-Ind-Bulk-Volume-Oil	Indicates if the bulk volume oil was measured and is available for this core analysis.
Bulk-Volume-Oil	Percentage of crude oil in a unit volume for the core sample.
Data-Ind-Bulk-Volume-Water	Indicates if the bulk volume water was measured and is available for this core analysis.
Bulk-Volume-Water	Percentage of water in a unit volume for the core sample.
Data-Ind-Grain-Mass-Oil	Indicates if the grain mass oil was measured and is available for this core analysis.
Grain-Mass-Oil	The grain mass of oil for the core sample.
Data-Ind-Grain-Mass-Water	Indicates if the grain mass water was measured and is available for this core analysis.
Grain-Mass-Water	The grain mass of water for the core sample.
Lithology	Textual description of the core plugs sample lithology.
Scheme Approval-Number	The scheme approval number of the experimental, primary, or commercial crude bitumen scheme that the proposed facility is part of.
Lab-File-Number	The laboratory file identification number assigned to the Oil sample. OAN PAS Mnemonic: ~TEST DATA, LFNUM.
Analysis-Date	The date that well core analysis was performed.
Analysis-Year	The year that well core analysis was performed.
Analysis-Month	The month that well core analysis was performed.
Analysis-Day	The day that well core analysis was performed.
Report-Comment	Comments relating to the well core analysis.

4 Record Element by record type

4.1 Record Type (100) Core Report

No.	Element Name	Length	Format
1	KEY-CORE-DATA		
	CPA-ID		
	LOC-DESC		
	TOWNSHIP	3	9(3)
	TAB-FILLER	1	X
	MERIDIAN	1	9
	TAB-FILLER	1	X
	RANGE	2	9(2)
	TAB-FILLER	1	X
	SECTION	2	9(2)
	TAB-FILLER	1	X
	LSD	2	9(2)
	TAB-FILLER	1	X
	LOC-EXCEPTION	2	X(2)
	TAB-FILLER	1	X
	EVENT-SEQUENCE	1	9
	TAB-FILLER	1	X
2	UPDATE-FLAG	1	X
	TAB-FILLER	1	X
3	CA-NUMBER	6	9(6)
	TAB-FILLER	1	X
4	RECORD-CODE	3	9(3)
	TAB-FILLER	1	X
5	FIELD-CODE	4	9(4)
	TAB-FILLER	1	X

No.	Element Name	Length	Format
6	POOL-CODE	7	9(7)
	TAB-FILLER	1	X
7	OS-AREA-CODE	4	9(4)
	TAB-FILLER	1	X
8	OS-DEP-CODE	7	9(7)
	TAB-FILLER	1	X
9	CA-INTERVAL-TOP	7	9(4).9(2)
	TAB-FILLER	1	X
10	CA-INTERVAL-BASE	7	9(4).9(2)
	TAB-FILLER	1	X
11	CORE-LAB-CODE	3	X(3)
	TAB-FILLER	1	X
12	LAB-FILE-NUMBER	15	X(15)
	TAB-FILLER	1	X
	ANALYSIS-DATE		
13	ANALYSIS-YEAR	4	9(4)
	TAB-FILLER	1	X
14	ANALYSIS-MONTH	2	9(2)
	TAB-FILLER	1	X
15	ANALYSIS-DAY	2	9(2)
	TAB-FILLER	1	X
16	ANALYST	15	X(15)
	TAB-FILLER	1	X
17	DATA-IND-CORE-CUT-DIAM	1	X
	TAB-FILLER	1	X
18	CORE-CUT-DIAM	3	9(3)
	TAB-FILLER	1	X
19	CORE-CUT-TYPE-FIXED	2	9(2)

No.	Element Name	Length	Format
	TAB-FILLER	1	X
20	CORE-CUT-FLUID-FIXED	2	9(2)
	TAB-FILLER	1	X
21	CORE-HANDLING-FIXED	2	9(2)
	TAB-FILLER	1	X
22	GAMMA-CORR-FIXED	1	X
	TAB-FILLER	1	X
23	SAMPLE-SHAPE	2	9(2)
	TAB-FILLER	1	X
24	DATA-IND-SAMPLE-DIAMETER	1	X
	TAB-FILLER	1	X
25	SAMPLE-DIAMETER	3	9(3)
	TAB-FILLER	1	X
26	DATA-IND-SAMPLE-LENGTH	1	X
	TAB-FILLER	1	X
27	SAMPLE-LENGTH	3	9(3)
	TAB-FILLER	1	X
28	SOLVENT-FIXED	2	9(2)
	TAB-FILLER	1	X
29	DATA-IND-EXTRACT-TIME	1	X
	TAB-FILLER	1	X
30	EXTRACT-TIME	3	9(3)
	TAB-FILLER	1	X
31	DATA-IND-DRY-TIME	1	X
	TAB-FILLER	1	X
32	DRY-TIME	3	9(3)
	TAB-FILLER	1	X
33	DATA-IND-DRY-TEMP	1	X

No.	Element Name	Length	Format
	TAB-FILLER	1	X
34	DRY-TEMP	3	9(3)
	TAB-FILLER	1	X
35	KB-ELEVATION	7	9(4).9(2)
	TAB-FILLER	1	X

File Name:	Core Analysis File
Record Type:	(110) Core Methods
Record Length:	0586

4.2 Record Type (110) Core Method testing methodology used on the core sample.

No.	Element Name	Length	Format	Comments
1	KEY-CORE-DATA			
	CPA-ID			
	LOC-DESC			
	TOWNSHIP	3	9(3)	
	TAB-FILLER	1	X	
	MERIDIAN	1	9	
	TAB-FILLER	1	X	
	RANGE	2	9(2)	
	TAB-FILLER	1	X	
	SECTION	2	9(2)	
	TAB-FILLER	1	X	
	LSD	2	9(2)	
	TAB-FILLER	1	X	
	LOC-EXCEPTION	2	X(2)	
	TAB-FILLER	1	X	
	EVENT-SEQUENCE	1	9	
	TAB-FILLER	1	X	
2	UPDATE-FLAG	1	X	
	TAB-FILLER	1	X	
3	CA-NUMBER	6	9(6)	
	TAB-FILLER	1	X	
4	RECORD-CODE	3	9(3)	
	TAB-FILLER	1	X	
5	EXTRACT-METHOD	50	X(50)	

No.	Element Name	Length	Format	Comments
	TAB-FILLER	1	X	
6	DRY-METHOD	50	X(50)	
	TAB-FILLER	1	X	
7	PERMEABILITY ANALYSIS METHOD	50	X(50)	
	TAB-FILLER	1	X	
8	POROSITY ANALYSIS METHOD	50	X(50)	
	TAB-FILLER	1	X	
9	DENSITY ANALYSIS METHOD	50	X(50)	
	TAB-FILLER	1	X	
10	FLUID SATURATION ANALYSIS METHOD	50	X(50)	
	TAB-FILLER	1	X	
11	CORE-CUT-TYPE-FREE	30	X(30)	
	TAB-FILLER	1	X	
12	CORE-CUT-FLUID-FREE	30	X(30)	
	TAB-FILLER	1	X	
13	CORE-HANDLING-FREE	30	X(30)	
	TAB-FILLER	1	X	
14	GAMMA-CORR-FREE	20	X(20)	
	TAB-FILLER	1	X	
15	SOLVENT-FREE	30	X(30)	
	TAB-FILLER	1	X	
16	CORE-REMARKS	50	X(50)	
	TAB-FILLER	1	X	
17	OTHER-SERVICES	50	X(50)	
	TAB-FILLER	1	X	

File Name:	Core Analysis File
Record Type:	(120) Core Report
Record Length:	0061

4.3 Record Type (120) Core Report

No.	Element Name	Length	Format	Comments
1	KEY-CORE-DATA			
	CPA-ID			
	LOC-DESC			
	TOWNSHIP	3	9(3)	
	TAB-FILLER	1	X	
	MERIDIAN	1	9	
	TAB-FILLER	1	X	
	RANGE	2	9(2)	
	TAB-FILLER	1	X	
	SECTION	2	9(2)	
	TAB-FILLER	1	X	
	LSD	2	9(2)	
	TAB-FILLER	1	X	
	LOC-EXCEPTION	2	X(2)	
	TAB-FILLER	1	X	
	EVENT-SEQUENCE	1	X	
	TAB-FILLER	1	X	
2	UPDATE-FLAG	1	X	
	TAB-FILLER	1	X	
3	CA-NUMBER	6	9(6)	
	TAB-FILLER	1	X	
4	RECORD-CODE	3	9(3)	
	TAB-FILLER	1	X	

No.	Element Name	Length	Format	Comments
5	CA-CORE-NO	3	9(3)	
	TAB-FILLER	1	X	
6	CORE-INTERVAL-TOP	7	9(4).9(2)	
	TAB-FILLER	1	X	
7	CORE-INTERVAL-BASE	7	9(4).9(2)	
	TAB-FILLER	1	X	
8	CORE-RECOVERED	7	9(4).9(2)	
	TAB-FILLER	1	X	

File Name:	Core Analysis File
Record Type:	(130) Core Analysis Line Data
Record Length:	0228

4.4 Record Type (130) Core Analysis Line Data

No.	Element	Length	Format	Comments
1	KEY-LINE			
	CPA-ID			
	LOC-DESC			
	TOWNSHIP	3	9(3)	
	TAB-FILLER	1	9	
	MERIDIAN	1	9	
	TAB-FILLER	1	X	
	RANGE	2	9(2)	
	TAB-FILLER	1	X	
	SECTION	2	9(2)	
	TAB-FILLER	1	X	
	LSD	2	9(2)	
	TAB-FILLER	1	X	
	LOC-EXCEPTION	2	X(2)	
	TAB-FILLER	1	X	

No.	Element	Length	Format	Comments
	EVENT-SEQUENCE	1	9	
	TAB-FILLER	1	X	
2	UPDATE-FLAG	1	X	
	TAB-FILLER	1	X	
3	CA-NUMBER	6	9(6)	
	TAB-FILLER	1	X	
4	RECORD-CODE	3	9(3)	
	TAB-FILLER	1	X	
5	CA-CORE-NO	3	9(3)	
	TAB-FILLER	1	X	
6	CA-INTERVAL-TOP	7	9(4).9(2)	
	TAB-FILLER	1	X	
7	LINE-CODE	2	X(2)	
	TAB-FILLER	1	X	
8	INTERVAL-DEPTH	7	9(4).9(2)	
	TAB-FILLER	1	X	
9	INTERVAL-LENGTH	7	9(4).9(2)	
	TAB-FILLER	1	X	
10	DATA-IND-KMAX	1	X	
	TAB-FILLER	1	X	
11	KMAX	9	9(5).9(3)	
	TAB-FILLER	1	X	
12	DATA-IND-K90	1	X	
	TAB-FILLER	1	X	
13	K90	9	9(5).9(3)	
	TAB-FILLER	1	X	
14	DATA-IND-KVERT	1	X	
	TAB-FILLER	1	X	
15	KVERT	9	9(5).9(3)	
	TAB-FILLER	1	X	

No.	Element	Length	Format	Comments
16	DATA-IND-POROSITY	1	X	
	TAB-FILLER	1	X	
17	POROSITY	4	.9(3)	
	TAB-FILLER	1	X	
18	DATA-IND-GRAIN-DENSITY	1	X	
	TAB-FILLER	1	X	
19	GRAIN-DENSITY	4	9(4)	
	TAB-FILLER	1	X	
20	DATA-IND-BULK-DENSITY	1	X	
	TAB-FILLER	1	X	
21	BULK-DENSITY	4	9(4)	
	TAB-FILLER	1	X	
22	DATA-IND-BULK-MASS-OIL	1	X	
	TAB-FILLER	1	X	
23	BULK-MASS-OIL	5	.9(4)	
	TAB-FILLER	1	X	
24	DATA-IND-BULK-MASS-WATER	1	X	
	TAB-FILLER	1	X	
25	BULK-MASS-WATER	5	.9(4)	
	TAB-FILLER	1	X	
26	DATA-IND-BULK-MASS-SAND	1	X	
	TAB-FILLER	1	X	
27	BULK-MASS-SAND	5	.9(4)	
	TAB-FILLER	1	X	
28	DATA-IND-PORE-VOLUME-OIL	1	X	
	TAB-FILLER	1	X	
29	PORE-VOLUME-OIL	6	9.9(4)	
	TAB-FILLER	1	X	
30	DATA-IND-PORE-VOLUME-WATER	1	X	
	TAB-FILLER	1	X	

No.	Element	Length	Format	Comments
31	PORE-VOLUME-WATER	6	9.9(4)	
	TAB-FILLER	1	X	
32	DATA-IND-BULK-VOLUME-OIL	1	X	
	TAB-FILLER	1	X	
33	BULK-VOLUME-OIL	5	.9(4)	
	TAB-FILLER	1	X	
34	DATA-IND-BULK-VOLUME-WATER	1	X	
	TAB-FILLER	1	X	
35	BULK-VOLUME-WATER	5	.9(4)	
	TAB-FILLER	1	X	
36	DATA-IND-GRAIN-MASS-OIL	1	X	
	TAB-FILLER	1	X	
37	GRAIN-MASS-OIL	5	.9(4)	
	TAB-FILLER	1	X	
38	DATA-IND-GRAIN-MASS-WATER	1	X	
	TAB-FILLER	1	X	
40	GRAIN-MASS-WATER	5	.9(4)	
	TAB-FILLER	1	X	
41	LITHOLOGY	32	X(32)	
	TAB-FILLER	1	X	

File Name:	Core Analysis File
Record Type:	(140) Core Sieve Header Data
Record Length:	01109

4.5 Record Type (140) Core Sieve Header Data

No.	Element Name	Length	Format	Comments
1	KEY-SIEVE			
	CPA-ID			
	LOC-DESC			
	TOWNSHIP	3	9(3)	
	TAB-FILLER	1	X	
	MERIDIAN	1	9	
	TAB-FILLER	1	X	
	RANGE	2	9(2)	
	TAB-FILLER	1	X	
	SECTION	2	9(2)	
	TAB-FILLER	1	X	
	LSD	2	9(2)	
	TAB-FILLER	1	X	
	LOC-EXCEPTION	2	X(2)	
	TAB-FILLER	1	X	
	EVENT-SEQUENCE	1	9	
	TAB-FILLER	1	X	
2	UPDATE-FLAG	1	X	
	TAB-FILLER	1	X	
3	SA-NUMBER	6	9(6)	
	TAB-FILLER	1	X	
4	RECORD-CODE	3	9(3)	
	TAB-FILLER	1	X	
5	CA-INTERVAL-TOP	7	9(4).9(2)	
	TAB-FILLER	1	X	

No.	Element Name	Length	Format	Comments
6	CA-INTERVAL-BASE	7	9(4).9(2)	
	TAB-FILLER	1	X	
7	OCCURS-COUNT	3	9(3)	
	TAB-FILLER	1	X	
8	CORE-SIEVE-HEADER-DATA-GROUP			OCCURS 12 TIMES
	DATA-IND-SA-SCREEN-SIZE	1	X	
	TAB-FILLER	1	X	
	SA-SCREEN-SIZE	3	9(3)	
	TAB-FILLER	1	X	
9	CORE-LAB-CODE	3	X(3)	
	TAB-FILLER	1	X	
10	LAB-FILE-NUMBER	15	X(15)	
	TAB-FILLER	1	X	
11	ANALYSIS DATE			
	ANALYSIS-YEAR	4	9(4)	
	TAB-FILLER	1	X	
	ANALYSIS-MONTH	2	9(2)	
	TAB-FILLER	1	X	
	ANALYSIS-DAY	2	9(2)	
	TAB-FILLER	1	X	
12	REPORT-COMMENT	50	X(50)	
	TAB-FILLER	1	X	

File Name:	Core Analysis File
Record Type:	(150) Core Sieve Line Data
Record Length:	0145

4.6 Record Type (150) Core Sieve Line Data

No.	Element Name	Length	Format	Comments
1	KEY-LINE-DATA			
	CPA-ID			
	LOC-DESC			
	TOWNSHIP	3	9(3)	
	TAB-FILLER	1	9	
	MERIDIAN	1	9	
	TAB-FILLER	1	X	
	RANGE	2	9(2)	
	TAB-FILLER	1	X	
	SECTION	2	9(2)	
	TAB-FILLER	1	X	
	LSD	2	9(2)	
	TAB-FILLER	1	X	
	LOC-EXCEPTION	2	X(2)	
	TAB-FILLER	1	X	
	EVENT-SEQUENCE	1	9	
	TAB-FILLER	1	X	
2	UPDATE-FLAG	1	X	
	TAB-FILLER	1	X	
3	SA-NUMBER	6	9(6)	
	TAB-FILLER	1	X	
4	RECORD-CODE	3	9(3)	
	TAB-FILLER	1	X	
5	CA-INTERVAL-TOP	7	9(4).9(2)	
	TAB-FILLER	1	X	

No.	Element Name	Length	Format	Comments
6	INTERVAL-DEPTH	7	9(4).9(2)	
	TAB-FILLER	1	X	
7	INTERVAL-LENGTH	7	9(4).9(2)	
	TAB-FILLER	1	X	
8	OCCURS-COUNT	3	9(3)	
	TAB-FILLER	1	X	
9	CORE-SIEVE-LINE-DATA-GROUP			OCCURS 12 TIMES
	DATA-IND-SA-HELD	1	X	
	TAB-FILLER	1	X	
	SA-HELD	4	9(3)	
	TAB-FILLER	1	X	