

Basic Well Code Conversion File

Layout Document

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Alberta Energy Regulator
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Suite 1000, 250 – 5 Street SW
Calgary, Alberta
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Telephone: 403-297-8311
Inquiries (toll free): 1-855-297-8311
E-mail: inquiries@aer.ca
Website: www.aer.ca

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1 Introduction

1.1 Overview

This document describes the data and layout of records in the Basic Well Code Conversion File to help users translate coded data in reports produced using this product.

1.2 Problem Resolution

If you encounter problems with this product, please email inquiries@er.ca. Please identify the problem as one or both of the following:

- problems related to data
- other problems

1.3 Available Format

This product is available as a TXT file.

1.4 Confidentiality

The file is processed to exclude confidential data. Data are made available once they have been released from confidential status.

1.5 Disclaimer

The AER

- makes no representation, warranties, or guarantees, expressed or implied, for the fitness of the data file with respect to intended use;
- accepts no responsibility for any inaccuracies, errors, or omissions in the data file;
- accepts no responsibility for any costs incurred by a company to convert, install, or improve the data file; and
- makes no guarantee to the continuing availability of any data or the consistency of the format of transferred data.

2 File Specifications

Record length: maximum of 232
Availability: monthly
Sort sequence: ascending record type

3 Record Types, Descriptions, and Elements

3.1 Record Types and Descriptions

The following table lists the record types that are available in the Basic Well Code Conversion File.

Record code	Record type	Record name	Record description
510	Area-Office-Code	Area Office Code	An AER area office
520	Casing-Code	Casing Code	The type of casing set in the hole
530	Cement-Type-Code	Cement Type Code	The type of cement and additives used during the cementing operation
540	Cement-Unit-Code	Cement Unit Code	The unit of measure
550	Company-Code	Company Code	A code assigned by the AER to a person or company
560	Core-Cut-Fluid-Fixed	Core Cut Fluid Fixed	The type of fluid present during the cutting operation for the core
570	Core-Cut-Type-Fixed	Core Cut Type Fixed	The type of core cut
580	Core-Handling-Fixed	Core Handling Fixed	The handling of the core between the time it was cut and the time it was analyzed
590	Core-Lab-Code	Core Lab Code	The lab responsible for the sample analysis
610	Cushion-Type-Code	Cushion Type Code	The type of cushion for a drill stem test
620	Desc-Code	Description Code	The full description of a particular reference value
630	Dir-Drill-Reason-Code	Directional Drilling Reason Code	The reason for directionally drilling the well
650	DST-Fluid-Code	Fluid Code for a Drill Stem Test	The type of fluid recovered during a formation test
660	DST-Misrun-Flag	Drill Stem Test or Wireline Test Misrun Flag	Whether a formation test was mechanically successful
670	DST-Test-Code	Test Code for a Drill Stem Test	The type of well test
671	DST-Test-Sub-Code	Drill Stem Test Subtype	Details on the drill stem test subtype
680	Field-Code	Field Code	A unique identifier for the field

Record code	Record type	Record name	Record description
681	Pool-Code	Pool Code	A unique identifier for the pool
690	Fluid-Code	Fluid Code	The fluid injected in or produced from a well
700	Frmtn-Code	Formation Code	The unique stratigraphic unit name associated with the formation
710	Head-Lessor-Mnl-Rgt-Ind	Head Lessor Mineral Right Indicator	The type of head lessor for the mineral rights
730	AER-Class-Code	AER Classification Code	The initial well AER classification assigned by the AER at the time of licensing. See Appendix 1 for AER Classification codes.
740	Line-Code	Line Code	The condition of interval sampled
750	Log-TVD-Code	Log True Vertical Depth Code	An indicator for how the true vertical depth was derived; either from a log as a measured depth or a true vertical depth
760	Log-Type-Code	Log Type	The type of well log
770	Mode-Code	Mode Code	A code denoting the particular form or variety (move) of a well
790	Occ-Opr-Prog-Code	Occurrence Operation Progress Code	The operation in progress when the incident began; see <i>Directive 059</i> ¹ for operation in progress codes
810	Occ-Type-Code	Occurrence Type Code	The event or problem encountered
820	OS-Area-Code	Oil Sands Area Code	A geographical area and specific geological strata as declared by an oil sands area order
821	OS-Dep-Code	Oil Sands Deposit Code	A unique identifier code for the oil sands deposit
830	PBA-Apprvl-Type	Plug Back and Abandonment Run Type Code	The type of plug back and abandonment run; see values listed in <i>Directive 059</i>

¹ *Directive 059: Well Drilling and Completion Data Filing Requirements* is available at www.aer.ca.

Record code	Record type	Record name	Record description
840	PT-Code	Perforation Treatment Type Code	The type of perforation treatment; for further information see <i>Directive 059</i>
841	Packer-Code	Packer Type Code	The packer type used for a well event
850	Qual-Code	Quality Code	The quality and evaluation of the data
860	Sample-Shape	Sample Shape Code	Sample shape for core analysis samples
870	Solvent-Fixed	Solvent Fixed Code	Solvent used when performing core analysis
880	Struct-Code	Structure Code	A code intended to represent the structure of the drill hole
890	Surf-Aband-Code	Surface Abandonment Code	The method used to cut and cap the well
900	Surf-Rgt-Owner-Ind	Surface Rights Owner Indicator	The type of surface rights the owner has; defined in <i>Directive 056</i> ²
910	Type-Code	Type Code	The well status type

² *Directive 056: Energy Development Applications and Schedules* is available at www.aer.ca.

3.2 Record Elements

3.2.1 510 Area-Office-Code

Record length: 27

Estimated number of records: 47

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Area-Office-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Area-Office-Name	8	20	X(20)

3.2.2 520 Casing-Code

Record length: 37

Estimated number of records: 7

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Casing-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Casing-Code-Desc	8	30	X(30)

3.2.3 530 Cement-Type-Code

Record length: 37

Estimated number of records: 47

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Cement-Type-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Cement-Type-Name	8	30	X(30)

3.2.4 540 Cement-Unit-Code

Record length: 37

Estimated number of records: 5

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Cement-Unit-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Cement-Unit-Desc	8	30	X(30)

3.2.5 550 Company-Code

Record length: 231

Estimated number of records: 14 112

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Company-Code	5	4	X(4)
	Tab-Filler	9	1	X
3	Company-Name	10	56	X(56)
	Tab-Filler	66	1	X
4	Company-Abbrev	67	16	X(16)
	Tab-Filler	83	1	X
5	Company-Street1	84	50	X(50)
	Tab-Filler	134	1	X
6	Company-Street2	135	50	X(50)
	Tab-Filler	185	1	X
7	Company-City	186	30	X(30)
	Tab-Filler	216	1	X
8	Company-Prov	217	2	X(2)
	Tab-Filler	219	1	X
9	Company-PC	220	12	X(12)

3.2.6 560 Core-Cut-Fluid-Fixed

Record length: 108

Estimated number of records: 9

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Core-Cut-Fluid-Fixed	5	2	9(2)
	Tab-Filler	7	1	X
3	Core-Cut Fluid-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Core-Cut-Fluid-Abbrev	59	50	X(50)

3.2.7 570 Core-Cut-Type-Fixed

Record length: 108

Estimated number of records: 12

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Core-Cut-Type-Fixed	5	2	9(2)
	Tab-Filler	7	1	X
3	Core-Cut-Type-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Core-Cut-Type-Abbrev	59	50	X(50)

3.2.8 580 Core-Handling-Fixed

Record length: 57

Estimated number of records: 6

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Core-Handling-Fixed	5	2	9(2)
	Tab-Filler	7	1	X
3	Core-Handling-Desc	8	50	X(50)

3.2.9 590 Core-Lab-Code

Record length: 58

Estimated number of records: 55

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Core-Lab-Code	5	3	X(3)
	Tab-Filler	8	1	X
3	Core-Lab-Desc	9	50	X(50)

3.2.10 610 Cushion-Type-Code

Record length: 56

Estimated number of records: 6

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Cushion-Type-Code	5	1	9
	Tab-Filler	6	1	X
3	Cushion-Type-Desc	7	50	X(50)

3.2.11 620 Desc-Code

Record length: 88

Estimated number of records: 12

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Desc-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Desc-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Desc-Name	59	30	X(30)

3.2.12 630 Dir-Drill-Reason-Code

Record length: 37

Estimated number of records: 5

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Dir-Drill-Reason-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Dir-Drill-Desc	8	30	X(30)

3.2.13 650 DST-Fluid-Code

Record length: 89

Estimated number of records: 95

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	DST-Fluid-Code	5	3	9(3)
	Tab-Filler	8	1	X
3	DST-Fluid-Desc	9	50	X(50)
	Tab-Filler	59	1	X
4	DST-Fluid-Type	60	30	X(30)

3.2.14 660 DST-Misrun-Flag

Record length: 88

Estimated number of records: 4

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	DST-Misrun-Flag	5	2	9(2)
	Tab-Filler	7	1	X
3	DST-Misrun-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	DST-Misrun-Type	59	30	X(30)

3.2.15 670 DST-Test-Code

Record length: 88

Estimated number of records: 3

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	DST-Test-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	DST-Test-Code-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	DST-Test-Type	59	30	X(30)

3.2.16 671 DST-Test-Sub-Code

Record length: 88

Estimated number of records: 15

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	DST-Test-Sub-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	DST-Test-Sub-Code-Long-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	DST-Test-Sub-Code-Short-Desc	59	30	X(30)

3.2.17 680 Field-Code

Record length: 38

Estimated number of records: 924

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Field-Code	5	4	9(4)
	Tab-Filler	9	1	X
3	Field-Name	10	20	X(20)
	Tab-Filler	30	1	X
4	Field-Abbrev	31	8	X(8)

3.2.18 681 Pool-Code

Record length: 52

Estimated number of records: 63 284

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Field-Code	5	4	9(4)
	Tab-Filler	9	1	X
3	Pool-Code	10	7	9(7)
	Tab-Filler	17	1	X
4	Pool-Name	18	21	X(21)
	Tab-Filler	39	1	X
5	Pool-Abbrev	40	13	X(13)

3.2.19 690 Fluid-Code

Record length: 83

Estimated number of records: 44

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Fluid-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Fluid-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Fluid-Abbrev	59	25	X(25)

3.2.20 700 Frmtn-Code

Record length: 70

Estimated number of records: 1261

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Frmtn-Code	5	4	9(4)
	Tab-Filler	9	1	X
3	Frmtn-Name	10	40	X(40)
	Tab-Filler	50	1	X
4	Frmtn-Abbrev	51	20	X(20)

3.2.21 710 Head-Lessor-Mnl-Rgt-Ind

Record length: 26

Estimated number of records: 3

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Head-Lessor-Mnl-Rgt-Ind	5	1	9
	Tab-Filler	6	1	X
3	Head-Lessor-Mnl-Rgt-Ind-Desc	7	20	X(20)

3.2.22 730 AER-Class-Code

Record length: 53

Estimated number of records: 11

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	AER-Class-Code	5	2	X(2)
	Tab-Filler	7	1	X
3	AER-Class-Desc	8	20	X(20)
	Tab-Filler	28	1	X
4	AER-Class-Abbrev	29	25	X(25)

3.2.23 740 Line-Code

Record length: 57

Estimated number of records: 14

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Line-Code	5	2	X(2)
	Tab-Filler	7	1	X
3	Line-Code-Desc	8	50	X(50)

3.2.24 750 Log-TVD-Code

Record length: 35

Estimated number of records: 9

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Log-TVD-Code	5	1	9
	Tab-Filler	6	1	X
3	Log-TVD-Desc	7	25	X(25)
	Tab-Filler	32	1	X
4	Log-TVD-Abbrev	33	3	X(3)

3.2.25 760 Log-Type-Code

Record length: 90

Estimated number of records: 350

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Log-Type-Code	5	4	9(4)
	Tab-Filler	9	1	X
3	Log-Type-Type	10	30	X(30)
	Tab-Filler	40	1	X
4	Log-Type-Desc	41	50	X(50)

3.2.26 770 Mode-Code

Record length: 83

Estimated number of records: 18

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Mode-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Mode-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Mode-Abbrev	59	25	X(25)

3.2.27 790 Occ-Opr-Prog-Code

Record length: 27

Estimated number of records: 18

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Occ-Opr-Prog-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Occ-Opr-Prog-Desc	8	20	X(20)

3.2.28 810 Occ-Type-Code

Record length: 53

Estimated number of records: 6

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Occ-Type-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Occ-Type-Desc	8	25	X(25)
	Tab-Filler	33	1	X
4	Occ-Type-Abbrev	34	20	X(20)

3.2.29 820 OS-Area-Code

Record length: 38

Estimated number of records: 4

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	OS-Area-Code	5	4	X(4)
	Tab-Filler	9	1	X
3	OS-Area-Name	10	20	X(20)
	Tab-Filler	30	1	X
4	OS-Area-Abbrev	31	8	X(8)

3.2.30 821 OS-Dep-Code

Record length: 52

Estimated number of records: 23

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	OS-Area-Code	5	4	X(4)
	Tab-Filler	9	1	X
3	OS-Dep-Code	10	7	9(7)
	Tab-Filler	17	1	X
4	OS-Dep-Name	18	21	X(21)
	Tab-Filler	39	1	X
5	OS-Dep-Abbrev	40	13	X(13)

3.2.31 830 PBA-Apprvl-Type

Record length: 63

Estimated number of records: 7

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	PBA-Apprvl-Type	5	2	9(2)
	Tab-Filler	7	1	X
3	PBA-Apprvl-Desc	8	30	X(30)
	Tab-Filler	38	1	X
4	PBA-Apprvl-Abbrev	39	25	X(25)

3.2.32 840 PT-Code

Record length: 63

Estimated number of records: 28

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	PT-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	PT-Code-Desc	8	30	X(30)
	Tab-Filler	38	1	X
4	PT-Code-Abbrev	39	25	X(25)

3.2.33 841 Packer-Code

Record length: 63

Estimated number of records: 6

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Packer-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Packer-Code-Desc	8	30	X(30)
	Tab-Filler	38	1	X
4	Packer-Code-Abbrev	39	25	X(25)

3.2.34 850 Qual-Code

Record length: 73

Estimated number of records: 5

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Qual-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Qual-Code-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Qual-Abbrev	59	15	X(15)

3.2.35 860 Sample-Shape

Record length: 57

Estimated number of records: 4

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Sample-Shape	5	2	9(2)
	Tab-Filler	7	1	X
3	Sample-Shape-Desc	8	50	X(50)

3.2.36 870 Solvent-Fixed

Record length: 57

Estimated number of records: 12

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Solvent-Fixed	5	2	9(2)
	Tab-Filler	7	1	X
3	Solvent-Fixed-Desc	8	50	X(50)

3.2.37 880 Struct-Code

Record length: 83

Estimated number of records: 6

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Struct-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Struct-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Struct-Abbrev	59	25	X(25)

3.2.38 890 Surf-Aband-Code

Record length: 47

Estimated number of records: 4

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Surf-Aband-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Surf-Aband-Desc	8	40	X(40)

3.2.39 900 Surf-Rgt-Owner-Ind

Record length: 26

Estimated number of records: 3

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Surf-Rgt-Owner-Ind	5	1	9
	Tab-Filler	6	1	X
3	Surf-Rgt-Owner-Ind-Desc	7	20	X(20)

3.2.40 910 Type-Code

Record length: 83

Estimated number of records: 14

Element number	Element name	Starting position	Length	Format
1	Record-Code	1	3	9(3)
	Tab-Filler	4	1	X
2	Type-Code	5	2	9(2)
	Tab-Filler	7	1	X
3	Type-Desc	8	50	X(50)
	Tab-Filler	58	1	X
4	Type-Abbrev	59	25	X(25)

4 Definitions

element	A field within a record representing information about a well characteristic.
fluid	The primary fluid produced by the well event.
mode	The mode of operation for the production string, such as flowing or pumping.
record	A collection of elements that combine to describe a characteristic of a well.
structure	The structure of the well event identifies when multiple zones have been commingled (allowed to produce more than one zone) or when a well event is completed horizontal and the producing interval is open and draining into a common wellbore (another well event).
type	The purpose of the well event, such as production or injection.

Appendix 1 AER Classification Codes

AER code	AER description
0	Development
01	Development Service
02	Outpost
03	Re-entry
04	Deeper Pool Test
05	New Pool Wildcat
06	New Field Wildcat
09	Other
10	Experimental
11	Evaluation (Oil Sands)
12	Test Hole
13	Evaluation
20	Development Incentive Exploratory Well (IEW)
21	Development Service IEW
22	Outpost IEW
24	Deeper Pool Test IEW
25	New Pool Wildcat IEW
26	New Field Wildcat IEW
29	Other IEW
30	Development Exploratory Gas Well (EGW)
31	Development Service EGW
32	Outpost EGW
34	Deeper Pool Test EGW
35	New Pool Wildcat EGW
36	New Field Wildcat EGW
39	Other EGW
40	Exploratory

