

# **Oil Pressure Test File Layout Document**

**January 2019**

**Alberta Energy Regulator**

Oil Pressure Test File

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Published by

**Alberta Energy Regulator**

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# Contents

## Contents

- Contents ..... 1
- 1 Introduction ..... 2
  - 1.1 Overview ..... 2
  - 1.2 Problem Resolution ..... 2
  - 1.3 Available Format ..... 2
  - 1.5 Confidentiality ..... 2
  - 1.6 Disclaimer ..... 2
- 2 General File Description ..... 3
- 3 Record Element and Description ..... 4
- 4 Record Elements by record Type ..... 7
  - 4.1 Record Type- Well ID and On Production Data ..... 7
  - 4.2 Record Type- Licensee and Well Status ..... 9
  - 4.3 Record Type- Designated Field and Pool ..... 11
  - 4.4 Record Type- Well Data File ..... 13
  - 4.5 Record Type- Test Data ..... 15
  - 4.6 Record Type- Remarks ..... 18
- Appendix 1 Test Type Codes ..... 20

# 1 Introduction

## 1.1 Overview

The intent of this document is to describe the physical characteristics and data contents of the OBH Pressure File. This file includes basic well information, test data, test type and method of survey, gradients, pressures, length of shut-in, acoustic details, and other information on individual non-confidential well tests.

## 1.2 Problem Resolution

If problems are encountered with this product please email [informationrequest@aer.ca](mailto:informationrequest@aer.ca).

## 1.3 Available Format

This file is available in TXT format and is zipped.

## 1.5 Confidentiality

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

## 1.6 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 General File Description**

Record length: maximum of 177

Availability: monthly

Sort sequence: ascending record type

### 3 Record Element and Description

Element Name	Definitions
Record-Type	Record type identifier (00, 01,02,03,04,or 05)
Well-Identifier	Unique identifier for the well.
Consol-Interval-Num	Depth from the surface to the top of the test consolidation interval.
On-Production-Date	The date the production string came on production.
Survey-Coord-Oper-Code	Operator assigned to coordinate pool pressure survey. The Coordinating Operator is defined as the operator who produced the most in the pool the previous survey year.
Field-Code	Field code of the field.
Pool-Code	Pool code of the pool.
Consol-Interval-Top	Depth from the surface to the top of the test consolidation interval.
Consol-Interval-Bottom	Depth from the surface to the bottom of the test consolidation interval.
KB-Elevation	The elevation of the kelly bushing measured as metres above mean sea level.
Pool-Datum-Depth	The pool datum is the pool mid formation depth (mfd) adjusted to subsea.
Ground Elevation	The elevation above sea level at which point the hole was drilled.
Well-Datum-Depth	Bottom hole pressure adjusted to the pool datum depth (average mid formation depth for each well on pool, adjusted to sea level).
Initial-Pool-Pressure	This is a monthly publication of the pool

	pressure survey requirements.
Reservoir-Gradient	Sampled reservoir gas relative density to air.
Mid-Point-Perforation-Depth (MPP)	The mid point between the top and the base of the perforated producing interval being tested.
Gauge-Run-Depth	The measured depth from the top of the casing flange where the pressure reading was taken by the recorder. For gradient test this is equivalent to the representative stop depth.
Run-Depth-Gradient	The pressure gradient at run depth. It is based on the weight of the material in the production tubing at run depth and is used to adjust the measured pressure to different depths.
Run-Depth-Pressure	The static pressure measured by a recorder at the reported run depth after the well had been shut in for a period of time as part of the test.
Reservoir-Temperature	The reservoir temperature (*C) for the pool. This is either measured temperature or estimated.
Initial-Liquid-Level	Reported top of the liquid column, in measured (or Log) depth within the well borehole (production casing or tubing) at the moment the well was shut in for pressure testing.
Final-Liquid-Level	Reported top of final liquid column, in measured (or Log) depth within the well borehole.
Gas-Gradient	Calculated gas gradient near the recorder (run) depth which is based on the gas density and depth. Used to make depth

	corrections in conjunction with the fluid gradient if the pressure recorder is not at datum depth.
Oil-Gradient	Oil gradient is the measure of fluid pressure changes over depth for the fluids produced by the pool. This value is used to adjust test pressures from different depths to a common 'datum' depth.
Water-Gradient	Estimated gradient for water in the liquid column of the wellbore (production tubing).
MPP-Pressure	Indicates whether the MPP Pressure has been calculated or manually overridden.
Extrapolated-Pressure-Indicator	Reported results of a well pressure test done to determine the pressure exerted by one or more reservoirs penetrated by the well.
Extrapolated-MPP-Pressure	The Representative extrapolated/false pressure adjust to Mid-point of perforations
Extrapolated-Datum-Depth-Pressure	The representative extrapolated/false pressure, commonly known as P* adjusted to datum depth.
Shut-In-Period	Reported period of time the well was shut in prior to testing to allow the pressure to build up to the formation pressure.
Consol-Interval-Number	A sequential number used to uniquely identify each well testing consolidation interval for a specific well.
Remark-Indicator	Indicator corresponding to test footnote number.



## 4 Record Elements by record Type

### 4.1 Record Type- Well ID and On Production Data

No.	Element Name	Length	Format	Comments
1	Record-Type	2	99	Value '00' for this record type
	Tab-Filler	1	X	
2	Well-Identifier			
	Loc-Exception	2	99	
	Tab-Filler	1	X	
	LSD	2	99	
	Tab-Filler	1	X	
	Section	2	99	
	Tab-Filler	1	X	
	Township	3	9(3)	
	Tab-Filler	1	X	
	Range	2	99	
	Tab-Filler	1	X	
	Meridian	1	9	
	Tab-Filler	1	X	
	Event-Sequence	1	9	

Tab-Filler	1	X	
Consol-Interval-Num	2	99	
Tab-Filler	1	X	
Well-Name	36	X(36)	
Tab-Filler	1	X	
On-Production-Date	8	9(8)	Year Month Day
Tab-Filler	1	X	

#### 4.2 Record Type- Licensee and Well Status

No.	Element Name	Length	Format	Comments
1	Record-Type	2	99	Value '01' for this record type
	Tab-Filler	1	X	
2	Well-Identifier			
	Loc-Exception	2	99	
	Tab-Filler	1	X	
	LSD	2	99	
	Tab-Filler	1	X	
	Section	2	99	
	Tab-Filler	1	X	
	Township	3	9(3)	
	Tab-Filler	1	X	
	Range	2	99	
	Tab-Filler	1	X	
	Meridian	1	9	
	Tab-Filler	1	X	
	Event-Sequence	1	9	
	Tab-Filler	1	X	
Consol-Interval-Num	2	99		
3	Licensee-Code	5	X(5)	
	Tab-Filler	1	X	
4	Licensee-Abbrev	14	X(14)	
	Tab-Filler	1	X	
5	Survey-Coord-Oper-Code	4	X(4)	
	Tab-Filler	1	X	
6	Survey-Coord-Abbrev	14	X(14)	
	Tab-Filler	1	X	
7	Well-Stat-Date	8	9(8)	Year month day

	Tab-Filler	1	X
8	Well-Stat-Code	10	9(10)
	Tab-Filler	1	X

#### 4.3 Record Type- Designated Field and Pool

No.	Element Name	Length	Format	Comments
1	Record-Type	2	99	Value '02'
	Tab-Filler	1	X	
2	Well-Identifier			
	Loc-Exception	2	99	
	Tab-Filler	1	X	
	Lsd	2	99	
	Tab-Filler	1	X	
	Section	2	99	
	Tab-Filler	1	X	
	Township	3	9(3)	
	Tab-Filler	1	X	
	Range	2	99	
	Tab-Filler	1	X	
	Meridian	1	9	
	Tab-Filler	1	X	
	Event-Sequence	1	9	
	Tab-Filler	1	X	
	Consol-Interval-Num	2	99	

	Tab-Filler	1	X
3	Field-Name	20	X(20)
	Tab-Filler	1	X
4	Pool-Name	21	X(21)
	Tab-Filler	1	X

#### 4.4 Record Type- Well Data File

No.	Element Name	Length	Format	Comments
1	Record-Type	2	99	Value '03'
	Tab-Filler	1	X	
2	Well-Identifier			
	Loc-Exception	2	99	
	Tab-Filler	1	X	
	LSD	2	99	
	Tab-Filler	1	X	
	Section	2	99	
	Tab-Filler	1	X	
	Township	3	9(3)	
	Tab-Filler	1	X	
	Range	2	99	
	Tab-Filler	1	X	
	Meridian	1	9	
	Tab-Filler	1	X	
	Event-Sequence	1	9	
	Tab-Filler	1	X	
	Consol-Interval-Num	2	99	
	Tab-Filler	1	X	
3	Field-Code	4	9(4)	
	Tab-Filler	1	X	

4	Pool-Code	7	9(7)	
	Tab-Filler	1	X	
5	Consol-Interval-Top	7	9(4).9(2)	M
	Tab-Filler	1	X	
6	Consol-Interval-Bottom	7	9(4).9(2)	M
	Tab-Filler	1	X	
7	KB-Elevation	7	9(4).9(2)	M
	Tab-Filler	1	X	
8	Pool-Datum-Depth	8	S9(4).9(2)	M
	Tab-Filler	1	X	
9	Ground-Elevation	7	9(4).9(2)	M
	Tab-Filler	1	X	
10	Well-Datum-Depth	7	9(4).9(2)	M
	Tab-Filler	1	X	
11	Initial-Pool-Pressure	5	9(5)	kPa
	Tab-Filler	1	X	
12	Reservoir-Gradient	6	9(2).9(3)	kPa/M
	Tab-Filler	1	X	



#### 4.5 Record Type- Test Data

No.	Element Name	Length	Format	Comments
1	Record-Type	2	99	Value '04'
	Tab-Filler	1	X	
2	Well-Identifier			
	Location-Exception	2	99	
	Tab-Filler	1	X	
	LSD	2	99	
	Tab-Filler	1	X	
	Section	2	99	
	Tab-Filler	1	X	
	Township	3	9(3)	
	Tab-Filler	1	X	
	Range	2	99	
	Tab-Filler	1	X	
	Meridian	1	9	
	Tab-Filler	1	X	
	Event-Sequence	1	9	
	Tab-Filler	1	X	
	Consol-Interval-Num	2	99	
	Tab-Filler	1	X	
3	Test-Date	8	9(8)	Year month day
	Tab-Filler	1	X	

4	Test-Type	2	99	See Appendix A for values
	Tab-Filler	1	X	
5	Historical-Well-Status- Date	8	9(8)	
	Tab-Filler	1	X	
6	Historical-Well-Status- Code	10	9(10)	Year month day
	Tab-Filler	1	X	
7	Casing-Pressure	6	9(6)	kPa
	Tab-Filler	1	X	
8	Mid-Point_Perforation- Depth (MPP)	7	9(4).9(2)	M
	Tab-Filler	1	X	
9	Gauge-Run-Depth	7	9(4).9(2)	M
	Tab-Filler	1	X	
10	Run-Depth-Gradient	6	9(2).9(3)	kPa/M
	Table-Filler	1	X	
11	Run-Depth-Pressure	6	9(6)	kPa
	Tab-Filler	1	X	
12	Reservoir-Temperature	3	9(3)	Degrees Celsius
	Tab-Filler	1	X	
13	Initial-Liquid-Level	7	9(4).9(2)	M
	Tab-Filler	1	X	
14	Final-Liquid-Level	7	9(4).9(2)	M

	Tab-Filler	1	X	
15	Gas-Gradient	6	9(2).9(3)	kPa/M
	Tab-Filler	1	X	
16	Oil-Gradient	6	9(2).9(3)	kPa/M
	Tab-Filler	1	X	
17	Water-Gradient	6	9(2).9(3)	kPa/M
	Tab-Filler	1	X	
18	MPP-Pressure	6	9(6)	kPa
	Tab-Filler	1	X	
19	Datum-Depth-Pressure	6	9(6)	kPa
	Tab-Filler	1	X	
20	Extrapolated-Pressure-Indicator	1	X	
	Tab-Filler	1	X	
21	Extrapolated-MPP-Pressure	6	9(6)	kPa
	Tab-Filler	1	X	
22	Extrapolated-Datum-Depth-Pressure	6	9(6)	kPa
	Tab-Filler	1	X	
23	Shut-In-Period	7	9(5).9	Hours
	Tab-Filler	1	X	
24	Footnote-Number	2	9(2)	
	Tab-Filler	1	X	

## 4.6 Record Type- Remarks

No.	Element Name	Length	Format	Comments
1	Record-Type	2	99	Value '05'
	Tab-Filler	1	X	
2	Well-Identifier			
	Loc-Exception	2	99	
	Tab-Filler	1	X	
	LSD	2	99	
	Tab-Filler	1	X	
	Section	2	99	
	Tab-Filler	1	X	
	Township	3	9(3)	
	Tab-Filler	1	X	
	Range	2	99	
	Tab-Filler	1	X	
	Meridian	1	9	
	Tab-Filler	1	X	
	Event-Sequence	1	9	
	Tab-Filler	1	X	
	Consol-Interval- Number	2	99	
	Tab-Filler	1	X	
3	Remark-Indicator	2	99	
	Tab-Filler	1	X	
4	Remark	50	X(50)	

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Tab-Filler	1	X
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## Appendix 1 Test Type Codes

Code	Description
01	Top hole undefined
02	Top hole buildup
03	Bottom hole static gradient
04	Bottom hole build up
05	Bottom hole undefined (segregation, interference, etc)
06	Bottom hole fall-off
07	Drill Stem Test
08	Pressure Sentry (Permanent bottom hole gauge)
09	(for future use)
10	Acoustic well sounder – single shot
11	Acoustic well sounder - buildup
12	Acoustic well sounder – fall-off
99	Rejected Misrun test