Coal Hole Data File

Layout Document

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**Alberta Energy Regulator**Coal Hole Data File: Layout Document

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# Introduction

## Overview

This document describes the physical characteristics and data contents of the Coal Hole Data File. This file contains coal hole identification, location, and description data for drill holes in Alberta. This file contains non-confidential data only. Includes coal hole identification, coordinates, ground elevation, drill date, company, logs run, deviation, outcrop, excavation, attitude of a geological feature and coal analysis data.

## New Subscribers

To become a subscriber of this product please email your request specifying product name and subscription frequency to informationrequest@aer.ca , you will be asked to provide a letter of intent at the time of order.

## Problem Resolution

If problems are encountered with this product please email informationrequest@aer.ca Please categorize the problem as one or more of the following:

* problems relating to the subscription or distribution
* problems relating to data contents
* other problems

## Available Formats

This product is available as XML. Products are zipped prior to being uploaded to FTP site.

## Rights

The AER retains the proprietary rights on all data sold.

Subscribers of this product are permitted to use the data file to select and process data for internal or client use and to release to their clients copies of small portions of the file that result from specialized data retrievals. Copying an entire file or a large portion of a file for resale is not permitted.

## Confidentiality

All files and programs are processed to exclude confidential data. Data are made available once they have been released from confidential status.

## Disclaimer

The AER

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

# File Specification

The Coal Hole Data contains XML files for each exploration entity type:

* Coal Hole
* Excavation
* Mine Survey Point
* Outcrop
* Well

Each of these XML files contains the following:

* Entity Details, including DLS, Lat/Long and 10TM location information
* Transverse Mercator location information (if applicable)
* Baseline Coordinate location information (if applicable)
* Log data (if applicable)
* Inclination Survey data (if applicable)
* Interpreted Interval data (if applicable)
* Geological Attitude (if applicable)

Separate XML files have been created for the Coal Sample, Coal Sample Analysis, and Analysis Type data.

NOTE: At this time, data is available for the following types of analyses: Proximate, Ultimate, Free Swelling, Chemical, Hardgrove Grindability, and Trace Element.

The XML tags within the files identify the associated data elements. For example:

<Coal\_Interpreted\_Interval>

<ExplorationEntityId>397679</ExplorationEntityId>

<IntervalTopDepth>0.00</IntervalTopDepth>

<IntervalBottomDepth>2.29</IntervalBottomDepth>

<IntervalMineralContent/>

<IntervalAssignedSeamNumber/>

</Coal\_Interpreted\_Interval>

These files can be viewed within a browser or imported into a database application, such as Microsoft Access.

## Metric Unit Listing

All data within the data file is in metric units. The following is an alphabetical listing of the metric units used for the various coal data attributes.

| Attribute | Unit |
| --- | --- |
| 10TM Easting | metres |
| 10TM Northing | metres |
| Baseline X Coordinate | metres |
| Baseline Y Coordinate | metres |
| Coal Hole Diameter | millimeters |
| East West Distance | metres |
| Easting | metres |
| Excavation Height | metres |
| Excavation Length | metres |
| Excavation Width | metres |
| Final Total Depth | metres |
| Ground Elevation | metres |
| Interval Base Depth | metres |
| Interval Top Depth | metres |
| Kelly Bushing Elevation | metres |
| Logged Depth | metres |
| Max True Vertical Depth | metres |
| Measured Depth | metres |
| North South Distance | metres |
| Northing | metres |
| Outcrop Total Length | metres |
| Proximate Analysis Heating Values | megajoules/kilogram |
| Sample Base Depth | metres |
| Sample Top Depth | metres |
| Sample Weight | kilograms |
| Survey Point Floor Depth | metres |
| Survey Point Measured Depth | metres |
| Total Depth | metres |

# Definition Types

|  |  |
| --- | --- |
| **Exploration Entity Type** | **Definitions** |
| Coal Hole | A coal hole is a hole drilled for the purposes of coal exploration or development. Coal holes are normally drilled by vehicle mounted rotary drills. |
| Excavation | An excavation which could be a pit, dike, etc. |
| Mine Survey Point | A mine survey point is the exact geometric description of a location in a mine. It does not include the dimensions of an excavation. |
| Outcrop | An outcrop is an exposure of bedrock or of an unconsolidated deposit to the surface of the ground, or the part of a rock formation that appears at the surface of the ground. |
| **Entity Details** | **Definitions** |
| Lat/Long and 10TM location information | Defines all the valid sections in the Province of Alberta as defined by the Dominion Land Survey (DLS) system. |
| Transverse Mercator location information (if applicable) | The transverse Mercator projection type and values used to locate the excavation. |
| Baseline Coordinate location information (if applicable) | The baseline origin location of the coal hole. |
| Log data (if applicable) | This table contains information about the submission of a LAS format electronic well log received by the AER. The information contained in this table provides some key search parameters for the contents of the LAS file and the file's location |
| Inclination Survey data (if applicable) | Data from a directional survey which is comprised of individual directional survey points along the wellbore during a downhole survey. The measurements at the survey points record the inclination from the vertical axis that the wellbore trends and the clockwise departure of the survey point from the north reference used in the directional survey. |
| Interpreted Interval data (if applicable) | The top and bottom of an isolated interval, of consistent interpreted mineral matter. For coal, this was previously known as a coal occurrence. |
| Geological Attitude (if applicable) | The angle of the stratum or planar feature at a given depth measured in terms of Azimuth (dip direction) and dip. The Attitude data is derived from dip-meter logs. The geologic category or type of the attitude data. |
| **Analysis Type** | **Definitions** |
| Proximate | This test is the determination of the various major component elements of coal (carbon, hydrogen, oxygen, nitrogen, Sulphur). |
| Ultimate | This test is the determination of the various major component elements of coal (carbon, hydrogen, oxygen, nitrogen, Sulphur).  If Ash %, Carbon %, Hydrogen %, Oxygen %, Nitrogen %, Sulphur % and Moisture % are all initialized, then the sum of all these percentages must be greater or equal to 99.98 and less than or equal to 100.02. If the sum is outside this range, it will be flagged. |
| Free Swelling | A test that measures the swelling of pulverized metallurgical coal under prescribed heating conditions during conversion to coke. |
| Hardgrove Grindability | The test of ease of reducing a coarse coal sample to fine powder for the purposes of combustion. |
| Chemical | This test is the inorganic analysis of coal ash. The sum of all chemicals in this analysis must be less than or equal to 102.0. |
| Trace Element | The determination of trace elements by the inorganic analysis of coal. This test contains all the elements of the periodic table except those elements contained in the Ultimate Analysis. |