

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

DZ/T 0216-2010

**Specifications for coalbed methane resources/reserves
(English Translation)**

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1 Scope

This Standard specifies the classification and grading standard, definitions, reserves estimation methods, reserves evaluation standard, and preparation requirements for reserves report of China's coalbed methane resources / reserves.

This Standard is applicable to the ground-exploited-mine's coalbed methane resources / reserves assessment and report preparation. It may be used as basis for the coalbed methane resources / reserves estimation review, the preparation of development program and medium-term and long-term planning in the coalbed methane resources / reserves management and mining economic activities. Regional survey and resources evaluation for coalbed methane resources, or resources / reserves estimation and report preparation of for exploitation and exploitation of coalbed methane by other means can be executed by reference.

2 Normative references

The articles contained in the following documents have formed this Standard when they are quoted herein. For the dated documents are quoted, all the modifications or revisions made thereafter shall be applicable to this Standard.

GB/T 212-2008 Proximate analysis of coal

GB/T 217-2008 Determination of true relative density of coal

GB/T 6949-1998 Determination of apparent relative density of coal

GB/T 13610-2003 Analysis of natural gas by gas chromatography

GB/T 19492-2004 Classifications for petroleum resources / reserves

GB/T 19559-2008 Method of determining coalbed's gas content

GB/T 19560-2008 Experimental method of high-pressure isothermal adsorption to coal

DZ/T 0215-2002 Specifications for coal, peat exploration

DZ/T 0217-2005 Regulation of petroleum reserves estimation

3 Terms and definitions

The following terms and definitions apply to this Standard.

3.1

SN/T 2034-2007

Coalbed methane (referred as CBM)

The hydrocarbon gas of which the main component is methane; it is adsorbed in the coalbed;

the original state is mainly adsorbed to the particle surface of the coal matrix, and is supplemented and dissociated in cleats, cracks and pores or dissolved in coalbed water. This

Standard specifies that the required estimating resources / reserves mainly refers to adsorbed gas.

3.2

Coalbed methane resources

The total amount of coalbed methane which is occurred in coalbed, according to the estimation by certain geological and exploration engineering basis; is recoverable in current time or future; and has the realistic economic significance and potential economic significance.

According to with- and without- prospecting-well engineering control, it is divided into the known reserves and potential reserves to be discovered.

3.3

Coalbed methane reserves

3.3.1

Original coalbed methane in place

Under the original state, the total coalbed methane which is occurred in the known coalbed with a clear estimation boundary; has realistic economic significance. According to exploration degree, it is divided into 3 levels - forecasted, controlled, and proved.

3.3.2

Recoverable reserves

The recoverable part of the original coalbed methane in place. It refers to using the existing technologies and theoretical estimation or analogy to calculate the recoverable total coalbed methane, under the current laws and policies and market conditions. It is divided into

"controlled" and "proved" levels, according to exploration degree.

For recovery-rate parameter, it may be obtained by adopting the methods such as analogy and numerical simulation of the same domestic or foreign geological conditions.

3.3.3

Commercial recoverable reserve

It is part of the recoverable reserves. It refers to using methods such as theoretical estimation or analogy to calculate the recoverable total coalbed methane, under the current economic and technical conditions. It can be divided into the "controlled" and the "proved" levels,

SN/T 2034-2007 according to exploration degree.

3.3.4

Developed initial reserves

The proved commercial recoverable reserves that is consumed by the corresponding cumulative production. Generally it may be obtained by using the cumulative production to be divided by recovery-rate.

3.3.5

Remainder proved initial reserves (referred as remainder reserves)

The difference BETWEEN proved commercial recoverable reserves AND developed initial reserves is the remainder proved initial reserves. Remainder proved initial reserves are divided into "built capacity remainder commercial recoverable reserves" and "un-built capacity remainder commercial recoverable reserves".

Built capacity remainder commercial recoverable reserves refer to the remainder proved initial reserves that is occupied by under-built or built capacity.

Un-built capacity remainder commercial recoverable reserves refer to the difference
BETWEEN the remainder proved initial reserves AND built capacity remainder
commercial recoverable reserves.

3.3.6

Coalbed methane reserves abundance

The coalbed methane reserves in the unit of coalbed containing-gas area.

3.4

Coalbed methane well

3.4.1

Prospecting well

The engineering well which adopts drilling-well, supplemented by logging-well and coring
analysis test method, to determine the parameters such as coalbed's depth, thickness,
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