International Standard

ISO 25195

Evaluation method of coalbed methane recoverability

First edition
2026-11

Sample Document
get full document from standards.iteh.ai

Reference number
ISO 25195:2026(en)

© ISO 2026

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

All rights reserved.

This ISO publication is protected by copyright and is owned by ISO and/or its licensors.

The content of this ISO publication is provided under licence, not sold. Use is subject to the applicable licence terms issued by ISO, an ISO member body, or an authorized third-party distributor.

Except as required for implementation or expressly permitted by a separate licence, no part of this ISO publication may be reproduced, distributed, modified, used, or made available in any form or by any means – electronic or mechanical, including photocopying, scanning, recording, or posting on internal or external digital platforms.

Any use beyond the scope of the granted rights is prohibited and may result in legal action.

ISO copyright office
CP 401 • CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO 25195:2026 • https://standards.iteh.ai/catalog/standards/iso/6979bceb-58f8-4e3d-a1c8-06569ce51bf4/iso-25195-2026

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Procedure for the evaluation of CBM recoverability **2**
5 Data collection and collation **2**
6 Enrichment unit evaluation **3**
6.1 Abundance of CBM resources 3
6.2 Hydrodynamic conditions 3
6.3 Fault development index 4
7 Evaluation of high-yield units **5**
7.1 Structural evaluation 5
7.1.1 Structural form 5
7.1.2 Fracture development 5
7.2 Reservoir rock evaluation 6
7.2.1 Coal-body structure 6
7.2.2 Effective stress 6
7.3 Gas reservoir evaluation 7
7.3.1 Gas saturation 7
7.3.2 Water content of surrounding rocks 7
8 Determination of enrichment and high-yield units **8**
8.1 Enrichment unit determination 8
8.2 Identification of high-yield units 8
8.3 Comprehensive evaluation 9
9 Content of CBM economic recoverability evaluation **10**
9.1 Economic recoverability evaluation procedure 10
9.2 Determination of gas-bearing areas of high-yield units 10
9.3 Calculation of geological reserves of high-yield units 10
9.4 Factors for production profile determination 11
9.5 Determination of recoverable reserves 12
9.6 Determination of production profiles 12
9.7 Economic evaluation 12
9.8 Determination of economically recoverable units 13
10 Drawings of results **14**
11 Annexed tables **14**
Annex A (informative) **Names, units, symbols, and effective digits of the CBM recoverability evaluation parameters** **15**
Bibliography **17**

Sample Document
Get full document from standards.iteh.ai

© ISO 2026 – All rights reserved

ISO 25195:2026 • https://standards.iteh.ai/catalog/standards/iso/6979bceb-58f8-4e3d-a1c8-06569ce51bf4/iso-25195-2026

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

Sample Document

This document was prepared by Technical Committee ISO/TC 263, *Coalbed methane (CBM).*

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

get full document from standards.iteh.ai

© ISO 2026 – All rights reserved

ISO 25195:2026 • https://standards.iteh.ai/catalog/standards/iso/6979bceb-58f8-4e3d-a1c8-06569ce51bf4/iso-25195-2026

Introduction

This document specifies the key evaluation parameters for economically recoverable coalbed methane (CBM) reserves. It provides an assessment of CBM resource recoverability, in which units with high production potential are identified based on resource enrichment levels and production capacity. The recoverable reserves of these units are estimated, and their production profiles are determined based on recovery factors, engineering technologies, and development indices of the target block and comparable mature CBM development areas. The cash flow method is used to perform an economic evaluation of the production profiles of high-yield units. The units are then ranked according to economic recoverability evaluation parameters to determine the development priority of economically recoverable units.

Sample Document

get full document from standards.iteh.ai

© ISO 2026 – All rights reserved

ISO 25195:2026 • https://standards.iteh.ai/catalog/standards/iso/6979bceb-58f8-4e3d-a1c8-06569ce51bf4/iso-25195-2026

Sample Document

get full document from standards.iteh.ai

Evaluation method of coalbed methane recoverability

1 Scope

This document specifies methods, recommended technical approaches, and results for the evaluating of coalbed methane (CBM) recoverability.

This document is applicable to the exploration, appraisal and production capacity building of CBM. It also provides certain references for the development and adjustment phases.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

Sample Document
get full document from standards.iteh.ai

3.1
coalbed methane
CBM
methane-rich gas naturally occurring in coal seams (and surrounding rock) typically comprising of 80 % to 95 % methane with lower proportions of ethane, propane, nitrogen and carbon dioxide

Note 1 to entry: In common international use, this term refers to methane recovered from un-mined coal seams using surface boreholes.

[SOURCE: ISO 18875:2015, 2.1]

3.2
coalbed methane recoverability
CBM recoverability
development feasibility of *coalbed methane* (3.1) in coal reservoirs under existing technical and economic conditions

3.3
enrichment unit
geological unit with certain *coalbed methane* (3.1) resources under existing technical conditions

3.4
high-yield unit
geological unit with high production potential under existing technical conditions

3.5
economically recoverable unit
geological unit that can be economically exploited under existing economic conditions

© ISO 2026 – All rights reserved

ISO 25195:2026 • https://standards.iteh.ai/catalog/standards/iso/6979bceb-58f8-4e3d-a1c8-06569ce51bf4/iso-25195-2026