DAFTAR PUSTAKA

Abdassah, D., 2014, *Pedoman Klasifikasi dan Perkiraan Sumberdaya Gas Metana Batubara (GMB),* Pertamina-Institut Teknologi Bandung.

AGI, 1976, *Dictionary of Geological Terms*, Anchor Press/Doubleday, Garden City, New York, pp 472.

Amijaya, D.H., 2004, *Paleoenvironmental, paleoecological and thermal metamorphism implications on the organic petrography and organic geochemistry of Tertiary Tanjung Enim coal, South Sumatra Basin, Indonesia.* Thesis for Doctor Philosophy. Aachen University.

American Society for Testing and Materials (ASTM) D7569., 2010. *Standard Practice for Determination of Gas Content of Coal – Direct Desorption Method.*

American Society for Testing and Materials (ASTM) D 3302., 2015, *Standard test method for total moisture in coal.*

American Society for Testing and Materials (ASTM) D 3173., 2011, *Standard test method for moisture in the analysis sample (% adb).*

American Society for Testing and Materials (ASTM) D 3174., 2012, *Standard test method for ash analysis.*

American Society for Testing and Materials (ASTM) D 3175., 2011, *Standard test method for volatile matter analysis.*

American Society for Testing and Materials (ASTM) D 4329., 2012, *Standard test method for analyisis of sulphur.*

Australian Standard TM (AS) 3980., 1999. *Guide to The Determination of Gas Content of Coal – Direct Desorption Method,* . Published by Standards Australia.

Australian Standard (AS) D 1038., 2008, *Analyisis of relative density.* Part21.1.1

Badan Geologi., 2009, *Peta sebaran lokasi batubara Indonesia*, Kementrian Energi dan Sumber Daya Mineral.

Bertard, C. B., Bruyet, B., dan Gunther, J., 1970. *Determination of desorbable gas concentration of coal (direct method)*. International Journal of Rock Mechanics and Mining Sciences. V. 7. p. 43.

Bohacs, K.M., dan Suter, J., 1997, *Sequence stratigraphic distribution of coaly rocks: fundamental controls and paralic examples*. AAPG Bulletin, v. 81, no. 10, p. 1612 – 1639.

Bustin, R. M., dan Clarkson, C. R, 1998, *Geological control on coalbed methane reservoir capacity and gas content:* International Journal of Coal geology, v. 38, p. 3 – 26.

Butland, C.I., dan Moore, T.A., 2008. *Secondary biogenic coal seam gas reservoirs in New Zealand: A preliminary assessment of gas contents*. International Journal of Coal Geology, 76(1-2): 151-165.

Chalmers, G.R.L., Bustin, R.M., 2007, *On the effects of petrographic composition on coalbed methane sorption*; International Journal of Coal Geology 69, 288–304.

Cai, Y., 2014, *Preliminary Evaluation of Gas Content of the No.2 Coal Seam in the Yanchuannan Area, Southeast Ordos Basin, China. Journal of Petroleum Science and Engineering 122, 675-689.*

Clarkson, C.R., dan R.M. Bustin, 1997, *Variation in permeability with lithotype and maseral composition of Cretaceous coals of the Canadian Cordillera*: International Journal of Coal Geology, v. 33, p. 135-151.

Charles, E.B., Todd, A., Dallegge dan Arthur, C.C., 2001, *USGS Coal Desorption Equipment And A Spreadsheet For Analysis Of Lost And Total Gas From Canister Desorption Measurements*, U.S. Department of The Interior, U.S. Geological Survey.

Craft, B. C. dan Hawkins, H. F., 1991, *Applied Petroleum Reservoir Engineering*, Prentice-Hall Inc., Englewood Cliffs, N.J.

Crosdale, P.J., Moore, T.A., dan Mares, T.E., 2008, *Influence of moisture content and temperature on methane adsorption isotherm analysis for coals from a low-rank, biogenically-sourced gas reservoir*: International Journal of Coal Geology, v. 76, p. 166-174.

Cui, X., 2006, *Controls of Coal Fabric on Coalbed Gas Production and Compositional Shift in Both Field Production and Canister Desorption Test*, SPE -89035-PA, U. of British Columbia.

Dariusz, S., Picardal, F., Turich, C., Schaperdoth, I., Macalady, J., Lipp, J.S., Lin, Y.S., Ertefai, T.F., Schubotz, F., Hinrichs, K.U., Mastalerz, M., dan Schimmelmann, A., 2008, *Methanogenic Microbial Degradation of Organic Matter in Indiana Coal Bed*, Appl. Environ. Microbiol. April 2008 vol. 74 no. 8 2424-2432.

Edbrooke, S.W., Sykes, R., Pocknall, D.T., 1994. *Geology of the Waikato Coal Measures, Waikato Coal Region, New Zealand, Monograph 6*. Institute of Geological and Nuclear Sciences Limited, Lower Hutt, New Zealand.

Eddy, G., 1982, *Relationship of Methane Content of Coal Rank and Depth: Theoretical vs. Observed*, SPE/DOE 10800, U.S. Dept. of Energy.

Eddy, G. E., Rightmire, C. T., Byren, C. W., 1982, *Relationship of methane content of coal rank and depth: theoritical vs observed*; Society of Petroleum Engineers, Dept. of Interior, Proceedings, Unconventional Gas Symposium, Pittsburg, P. A, SPE/DOE 108800, p 117 – 122.

Ettinger, I., Eremin, I., Zimakov, B., dan Yanovskaya, M., 1966, *Natural factors influencing coal sorption properties, Petrography and sorption properties of coal*; Fuel 45, p 267 – 275.

Ertekin, T., 2008, *Engineering of Coalbed Methane Reservoirs*, Pennsylvania State University, TX.

Faiz, M., Saghaf, A., Sherwood, N., Wang, N., 2007. *The influence of petrological properties and burial history on coal seam methane reservoir characterization, Sydney Basin*: Australia. International Journal of Coal Geology 70, 193–208.

Flores, R.M., Rice, C.A., Stricker, G.D., Warden, A. and Ellis, M.S., 2008. *Methanogenic pathways of coal-bed gas in the Powder River Basin, United States: The geologic factor*. International Journal of Coal Geology, 76(1-2): 52-75.

Gash, B. W. 1991, *Measurement of rock properties in coal for coalbed methane production*, SPE 22909, 66th Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, Dallas, TX.

Hall, R., Witts, D., Nichols, G., dan Morley, R., 2012, *A new depositional and provenance model for the Tanjung Formation, Barito Basin*, SE Kalimantan, Indonesia, Journal of Asian Earth Sciences pp. 77-104.

Heryanto, H., 2010, *Paleogeografi Cekungan Tersier Barito, Kalimantan*. Pusat Studi Geologi, Bandung.

Hildenbrand, A., Krooss, B.M., Busch, A., Gaschnitz, R., 2006. *Evolution of methane sorption capacity of coal seams as a function of burial history —*

a case study from the Campine Basin, NE Belgium; International Journal of Coal Geology 66, 179–203.

International Standard (ISO) 7404-2., 2009, *Methods for the petrographic analysis of coals – Part 2: Methods of preparing coal samples.*

International Standard (ISO) 7404-3., 1994, *Methods for the petrographic analysis of bituminous coal and antrachite – Part 3: Method of determining maseral group composition.*

International Standard (ISO) 7404-5., 2009, *Methods for the petrographic analysis of coals – Part 5: Method of determining microscopically the reflectance of vitrinite.*

International Standard (ISO) 11760., 2005, *Classification of coals.*

Kim, A. G., 1978, *Experimental studies on the origin and accumulation of coalbed gas* : U.S. Bureau of Mines, Report of Investigation 8317, 18p.

Kissell, F. N., McCulloch, C. M., dan Elder, C. H.1973. *The Direct Method of Determining Methane Content of Coalbeds for Ventilation Design*. U.S. Bureau of Mines. RI 7767.

Kissell, F. N., 1973; Smith, D. M., dan Williams, F. L, 1981. *A new technique for determining the methane content of coal*.

Koesoemadinata, R.P, 2000. *Tectono-Stratigraphic Frame Work of Tertiary Coal Deposits of Indonesia*. Proceeding Southeast Asian Coal Geology Conference, Bandung, Indonesia, 19-20 June.

Laxminarayana C., Crosdale P.J., 1999. *Role of coal type and rank on methane sorption characteristics of Bowen Basin, Australia coals*. International Journal of Coal Geology 40, 309–325.

Laxminarayana, C. and Crosdale, P.J., 2002. *Controls on methane sorption capacity of Indian coals*. AAPG Bulletin, 86(2): 201-212.

Levine, J. R., 1993, *Coalification: The evolution of coal as source rock and reservoir rock for oil and gas*: in Law, B. E. and Rice, D. D., eds.. Hydrocarbons from coal, American Association of Petroleum Geologists Studies in Geology Number 38, Tulsa, Oklahoma, The American Association of Petroleum Geologists, p. 39-78.

Li, Z.S., Ward, C.R. dan Gurba, L.W., 2007. *Occurrence of non-mineral inorganic elements in low-rank coal maserals as shown by electron microprobe element mapping techniques*. International Journal of Coal Geology, 70(1-3): 137-149.

Mares, T. E., 2009, *An Investigation of The Relationship Between Coal and Gas Properties in the Huntly Coalfield, New Zealand*. Thesis for Doctor Philosophy. University of Canterbury.

Mazumder, S. and Sosrowidjojo, I.B., 2010, *The Late Miocene Coalbed Methane System in the South Sumatra Basin of Indonesia*. SPE 133488-PP, Paper presented at the SPE Asia Pacific Oil & Gas Conference and Exhibition, Brisbane, Australia, 18-20 October 2010, 29 p.

McLennan, J. D., Schafer, P. S., dan Pratt, T. J., 1995. *A Guide to Determining Coalbed Gas Content*, Gas Research Institute Report, GRI-94/0396.

McCabe, P. J., 1984. *Depositional environments of coal and coal-bearing strata*. In: Rahmani R.A. and Flores, R.M. (eds.). *Sedimentology of coal and coal-bearing sequences*. Special Publication, International Association of Sedimentologists, Blackwell Scientific Publications.

Moore, T.A, dan Butland, C.I., 2005. *Coal seam gas in New Zealand as a model for Indonesia*. In: S. Prihatmoko, S. Digdowirogo, C. Nas, T. van Leewen

and H. Widjajanto (Editors), IAGI Special Issues 2005: Indonesian Mineral and Coal Discoveries. Indonesian Association of Geologists, Indonesia, pp. 192-200.

Netherwod, R., 2003, *A Geological Overview of Indonesia*, Jakarta, PT. Shlumberger Indonesia.

Newman, N.A., Moore, T.A. and Esterle, J.S., 1997, *Geochemistry and petrography of the Taupiri and Kupakupa coal seams, Waikato Coal Measures (Eocene), New Zealand*. International Journal of Coal Geology, 33(2): 103-133.

Pertamina, 2016, *Pedoman Pengelolaan Keteknikan Reservoir dan Produksi Minyak dan Gas Bumi, Hidrokarbon Non Konvensional, dan Geothermal*. Unpublished.

Pertamina, 2013, *Laporan Studi G&G WK GBM Tanjung II, Cekungan Barito, Kalimantan Selatan*. Unpublished.

Pertamina Hulu Energi (PHE), 2015, *Peta Administratif Lapangan GMB Tanjung II Propinsi Kalimantan Selatan*. Unpublished.

Pertamina Hulu Energi (PHE), 2014, *Laporan Studi Geology, Geophysics, Reservoir and Hydrogeology WK GBM Tanjung II, Cekungan Barito, Kalimantan Selatan*. Unpublished.

Richard, E. C., dan Pashin, J. C, 2004, *Relationship of sorption capacity to coal quality : CO2 sequestration potential of coalbed methane reservoirs in the Black Warrior Basin*. Geological Survey of Alabama Report, 11p.

Rice, D. D., 1993. *Composition and Origin of Coalbed Gas*. In: Law, B.E., Rice, D.D. (Eds.), Hydrocarbons from coal. American Association of Petroleum Geologists Studies in Geology, 38, 159-184.

Rice D. D, and Claypool G. E., 1981, *Generation, accumulation, and resources potential of biogenic gas*: American Association of Petroleum Geologists Bulletin, v. 65, no. 1, p. 5-25.

Rightmire, C.T., Eddy, G. E., and Kirr, J. N., eds., 1984, *Coalbed Methane Resources of the United States*: American Association of Petroleum Geologists Studies in Geology Series Number 17, Tulsa, Oklahoma, The American Association of Petroleum Geologists, 378 p.

Rogers, R., Ramurthy,K., Rodvelt, G., dan Mullen, M., 2007, *Coalbed Methane Principles and Practices*: Oktibbeha, Starkville MS, USA.

Satyana, A.H., 1995, *Paleogene Unconformlties in The Barito Basin, Southeast Kalimantan: A Concept for The Solution of The "Barito Dilemma" and A Key to The Search for Paleogene Structures*, 24th Annual Convention Proceedings, Indonesian Petroleum Association, Jakarta.

Sapiie, B., Rifiyanto, A., dan Perdana, L.A., 2014, *Cleats Analysis and GMB Potential of the Barito Basin, South Kalimantan, Indonesia*, AAPG International Conference & Exhibition, Istanbul, Turkey.

Seidle, J., 2011. *Fundamentals of Coalbed Methane Reservoir Engineering*, PennWell Corporation, 2011.

Spears, R. W., 2014, *Desorbed Canister Gas Sampling and Gas Isotopic Analysis Procedures and Practices: A Case Study of Two Coalbed Methane Wells from the Lower Saxony Basin, Germany*, SPWLA-2014-V55N1A4, ExxonMobil Production Company.

Sosrowidjojo, I.B., 2013. *Coal Geochemistry of The Unconventional Muara Enim Coalbed Reservoir, South Sumatera Basin: A Case Study From The Rambutan Field*. Indonesian Mining Journal, 16, no.2, p. 71-81.

Sosrowidjojo, I.B. and Saghafi, A., 2009. *Development of the first coal seam gas exploration program in Indonesia: Reservoir properties of the Muaraenim Formation, South Sumatra*. International Journal of Coal Geology, 79, p. 145-156.

Stevens, S.H., dan Hadiyanto, 2004, Indonesia: *Coalbed Methane Indicators and Basin Evaluation*, SPE Asia Pacific Oil and Gas Conference and Exhibition, Perth, Australia.

Stricker, G.D., Flores, R.M., McGarry, D.E., Stillwell, D.P., Hoppe, D.J., Stillwell, C.R., Ochs, A.L., Ellis, M.S., Osvald, K.S., Taylor. S.L., Thorvaldson, M.C., Trippi, M.H., Grose, S.D., Crockett, F.J., dan Shariff, A.J., 2006. *Gas desorption and adsorption isotherm studies of coals in the Powder River Basin, Wyoming and adjacent basins in Wyoming and North Dakota*. U.S. Geological Survey Open-File Report 2006-1174.

Tissot, B. P., and Welte, D. H., 1984, *Petroleum Formation and Occurrence*: New York, Springer-Verlag, 699 p.

Twombly, G., Stepanek, S.H. and Moore, T.A., 2004, *Coalbed methane potential in the Waikato Coalfield of New Zealand: A comparison with developed basins in the United States*, New Zealand Petroleum Conference Proceedings.

Ulanovskii M. L., 2011, *Origin of methane in coal beds in the initial and intermediate stages of coalification*; Coke and Chemistry, v. 54, no. 1, p. 4-6.

Ulery, J. P., dan Hyman, D. M., 1991. *The modified direct method of gas content determination: Application and results*. Paper 9163 in Proceedings of the 1991 International Coalbed Methane Symposium. Tuscaloosa: University of Alabama.

Wang, K., 2011, *Adsorption characteristic of lignite in China*. Journal of Earth Science, Vol. 22, No. 3 p. 371-376.

Ward, C. R., 1984, *Coal Geology and Coal Technology*, Blackwell Scientific, Publishers, 345 p.

Warwick, P.D., Breland Jr, F.C. and Hackley, P.C., 2008, *Biogenic origin of coalbed gas in the northern Gulf of Mexico Coastal Plain,* U.S.A. International Journal of Coal Geology, 76(1-2): 119-137.

Yao, Y., Liu, D., dan Qiu, Y., 2013, *Variable gas content, saturation, and accumulation characteristics of Weibei coalbed methane pilot-production field in the southeastern Ordos Basin*, China AAPG Bulletin, August 2013, v. 97, p. 1371-1393.

Yao, Y., Liu, D., Tang, D., Tang, S., dan Huang, W., 2009. *Fractal characterization of adsorption-pores of coals from North China: An investigation on CH4 adsorption capacity of coals*. International Journal of Coal Geology, 73(1): 27-42.

Yee, D., Seidle, J. P, Hanson, W. B, 1993, *Gas sorption on coal and measurement of gas content*: in Law, B. E, Rice, D. D, (Eds.), Hydrocarbons from Coal, AAPG Studies in Geology, Chap. 9, p. 203 – 218.