

## DAFTAR PUSTAKA

- Arisoy, M.O., and Dikmen, U., 2013. Edge Detection of Magnetic Sources Using Enhanced Total horizontal derivative of The Tilt Angle, Turki: Earth Sciences Application & Research Centre of Hacettepe University.
- Bernhard, W.S., 2015. Volcaniclastic Petroleum Systems – Theory And Examples From Indonesia, Proceedings of Indonesian Petroleum Association Thirty-Ninth Annual Convention & Exhibition, 39: G-026.
- Blakely, R.J., 1995. Potential Theory in Gravity and Magnetic Application, Cambridge: Cambridge University Press.
- Bronto, S., Asmoro P., and Efendi M., 2017. Mud Volcanoes in Cengklik and Surrounding Area, Boyolali Districts Central Java Province, Journal of Geology and Mineral Resources, vol. 18, pp. 147-159.
- Bott, M.P.H., 1962. A Simple Criterion for Interpreting Negative Gravity Anomalies, Geophysics, 27(3), 376-381.
- Cahyono, A., Shirly, A., Syafitra, F., Premonowati, Ibadurrahman, H., and Sinulingga, Y.R., 2016. Ngimbang Clastics & Carbonate Kujung Distribution Based On Paleogeography Reconstruction, Proceedings Geosea XIV And 45th IAGI Annual Convention (GIC 2016), 432-438.
- Clark, D.A., and Emerson, D.W., 1991. Notes On Rock Magnetization Characteristics In Applied Geophysical Studies, Exsploration Geophysics 22, 547-555.
- Cordell, L., and Grauch, V.J.S., 1985. Mapping basement magnetization zones from aeromagnetic data in the San Juan basin, New Mexico: The Utility Of Regional Gravity & Magnetic Anomaly Maps.
- De Genevraye, P., and Samuel, L., 1972. Geology of The Kendeng Zone (Central & East Java), Proceedings of the Indonesian Petroleum Association 1st Annual Convention & Exhibition.
- Emmet, P.A., Granath, J.W., and Dinkelman, M.G., 2009. Pre-Tertiary Sedimentary “Keels” Provide Insights Into Tectonic Assembly Of Basement Terranes And Present-Day Petroleum Systems Of The East Java Sea, Proceedings of Indonesian Petroleum Association Thirty-Third Annual Convention & Exhibition, G-46.
- Fossen, H., 2010. Structural Geology, New York: *Cambridge University Press*.
- Grandis, H., and Dahrin, D., 2014. Full Tensor Gradient of Simulated Gravity Data for Prospect Scale Delineation, Journal of Mathematics and Fundamental Sciences, 46, pp.107-124.
- Grandis, H., 2009. Pengantar Pemodelan Inversi Geofisika, Jakarta: Himpunan Ahli Geofisika Indonesia.

- Grant, F.S., and West, G.F., 1965. Interpretation Theory in Applied Geophysics. New York: McGraw-Hill Inc.
- Hall, R., Clements, B., Smyth, H.R., and Cottam, M.A., 2007. A New Interpretation Of Java's Structure, Proceedings of Indonesian Petroleum Association Thirty-First Annual Convention and Exhibition, 31: G-035.
- Hall, R., Clements, B., and Smyth, H.R., 2009. Sundaland: basement character, structure and plate tectonic Development, Proceedings of Indonesian Petroleum Association Thirty-Third Annual Convention and Exhibition, IPA09-G-134.
- Harding, T.P., Wilcox, R.E., and Selly, D.R., 1973. Basic Wrench Tectonics, American Association of Geologist Bulletin, 57, 97-116.
- Hidayat, R., dan Fatimah, 2007. Inventarisasi Kandungan Minyak Dalam Batuan Daerah Kedungjati, Kabupaten Semarang, Provinsi Jawa Tengah, Proseding Pemaparan Hasil Kegiatan Lapangan Dan Non Lapangan Pusat Sumber Daya Geologi.
- Hidayat W. and Novianto A., 2020. Potential analysis of geological disasters “mud volcano” at Boyolali and its surrounding areas based on geomagnetic methods, International Conference on Electromagnetism, Rock Magnetism and Magnetic Material (ICE-R3M) 2019.
- Hinze, J. W., Von Ferse, R.R.B., and Saad, A.H., 2012. Gravity & Magnetic Explorations, New York: Cambridge University Press.
- Huang, W.Y. and Meinschein, W.G., 1979. Sterols As Ecological Indicators, Geochimica Et Cosmochimia Acta, 43, 739-745.
- Husein, S., Mustofa, A., Sudarno, I., and Toha, B., 2008. Tegalrejo Thrust Fault As An Indication Of Compressive Tectonics in Baturagung Range, Bayat, Central Java, 37<sup>th</sup> Annual Convention IAGI, 258-268.
- Husein, S., dan Nukman, M., 2015. Rekonstruksi Tektonik Mikrokontinen Pegunungan Selatan Jawa Timur: Sebuah Hipotesis Berdasarkan Analisis Kemagnetan Purba, Proceeding, Seminar Nasional Kebumian Ke-8.
- Iyer, K., Schmid, D.W., Planke, S., and Millett, J., 2017. Modelling Hydrothermal Venting In Volcanic Sedimentary Basins: Impact On Hydrocarbon Maturation And Paleoclimate, Earth and Planetary Science Letters Elsevier, 467: 30-42.
- Juliansyah, M.N., Mazied, M., and Arisandy, M., 2016. Regional Stratigraphic Correlation Across The East Java Basin: Integrated Application Of Seismic, Well, Outcrop And Biostratigraphic Data, Proceedings of Indonesian Petroleum Association Fortieth Annual Convention & Exhibition, 510-G
- Kaufman, Alexander, A., Hansen, R.O., Kleinberg, and Robert L.K., 2009. Principles of The Magnetic Methods in Geophysics, Amsterdam Boston, Elsevier.
- Kearey, P., Brooks, M., and Hill, I., 2002. An Introduction to Geophysical Exploration, London: Blackwell Science.

- Koesoemadinata, R.P., 1980. Geologi Minyak Dan Gas 9bumi Edisi Kedua Jilid I, ITB, Bandung.
- Kusumastuti, A., Darmoyo, A.B., Suwarian, W., and Sosromihardjo, S.P.C., 1999. The Wunut field: pleistocene volcaniclastic gas sands in east java, Proceedings, Indonesian Petroleum Association Twenty Seventh Annual Convention & Exhibition, G-012.
- LaFehr, T.R., and Misac, N., 2012. Fundamentals Of Gravity Exploration, Geophysical Monograph Series Number 17, Society of Exploration Geophysicists, Tulsa, OK.
- Law, C.A., 1999. Evaluating Source Rocks, Hand Book of Petroleum Geology, The American Association of Petroleum Geologist.
- Lokier, S., 2000. The development of the Miocene Wonosari Formation, south Central Java, Indonesian, Proceedings of Indonesian Petroleum Association 27th Annual Convention, pp. 217-222.
- Lunt, P., Netherwood, R. and Huffman, O.F., 1998. IPA field trip to Central Java, Indonesian Petroleum Association, Indonesia.
- Lunt, P., 2013. The Sedimentary Geology of Java, Indonesia, Indonesian Petroleum Association.
- Mazzini, A. and Etiope G., 2017. Mud volcanism: An updated review, Earth-Science Reviews, Elsevier, vol. 168, pp. 81-112.
- Metcalfe, 2017. Tectonic evolution of Sundaland, Bulletin of the Geological Society of Malaysia, Volume 63, pp. 27-60.
- Miles, J.A., 1989. Illustrated Glossary of Petroleum Geochemistry, New York; Oxford University Press.
- Moscariello, A., Couto, D.D., Mondino, F., Booth, F., Lupi, M., and Mazzini, A., 2017. Genesis and evolution of the Watukosek fault system in the Lusi area (East Java), Accepted Manuscript. Marine and Petroleum Geology Elsevier.
- Nugraha, A.M.S., and Hall, R., 2012. Cenozoic History Of The East Java Forearc, Proceedings of Indonesian Petroleum Association Thirty-Sixth Annual Convention & Exhibition, G-028.
- Peters, K.E., and Cassa, M.R., 1994. Applied Source Rocks Geochemistry, The Petroleum AAPG Memoir 60.
- Peters, K.E., and Moldowan, J.M., 1993. The Biomarker Guide “Interpreting Molecular Fossils In Petroleum And Ancient Sediments”, New Jersey: Prentice Hall Englewood Cliffs.
- Peters, K.E., Walters, C.C. and Moldowan, J.M., 2005a Volume 1. The Biomarker guide, Cambridge University press.
- Pfiffner, O.A., 2006. Thick-skinned and Thin-skinned Styles of Continental Contraction, Geology Society of America, Special Paper 414.

- Pfiffner, O.A., 2017. Thick-skinned and Thin-skinned: A Global Perspective, Institute of Geological Sciences, University of Bern Baltzerstr, Bern, Switzerland.
- Pluijm, B.A., and Marshak, S., 2004. Earth Structure, An Introduction to Structural Geology and Tectonics, London: W. W. Norton & Company.
- Pramono, W., dan Amijaya, H., 2008. Karakteristik Geokimia Rembesan Minyak Bumi Di Daerah Bantal, Kecamatan Bancak, Semarang, Jawa Tengah Geochemical Characteristic Of Oil Seepage In Bantal Area, Semarang, Central Java, Prosiding Pertemuan Ilmiah Tahunan IAGI Ke-37, 691-704.
- Prasetyadi, C., 2007. Evolusi Tektonik Paleogen Jawa Bagian Timur. PhD Thesis. Institut Teknologi Bandung.
- Prasetyadi, C., Rachman, M.G., Hapsoro, S.E., Shirly, A., Gunawan, A., and Purwaman, I., 2016. Seismic-Based Structural Mapping of RMKS Fault Zone: Implication to Hydrocarbon Accumulation in East Java Basin, Proceedings Geosea XIV And 45th IAGI Annual Convention (GIC 2016), 104-107.
- Pringgoprawiro, H., 1983. Biostratigrafi dan Paleogeografi Cekungan Jawa Timur Utara Suatu Pendekatan Baru, PhD Thesis. Institut Teknologi Bandung.
- Ramadhan, B., Maha, M., Hapsoro, S.E., Budiman, A., and Fardiansyah, I., 2015. Unravel Kendeng Petroleum System Enigma: Recent update from Transect Surface Observation Of Kedungjati-Djuwangi-Ngawi Area, East Java, Proceedings of Indonesian Petroleum Association Thirty-Ninth Annual Convention & Exhibition, SG-065.
- Rippington, S.J., Anderson, C., and Mazur, S., 2014. Insights from a Newly Merged High-resolution Gravity and Magnetic Dataset on the Faroe-Shetland Margin, 76<sup>th</sup> EAGE Conference & Exhibition, Amsterdam Netherlands.
- Reynolds, J.M., 2011. An Introduction To Applied & Environmental Geophysics. John Wiley & Sons, Ltd.
- Ring, U., Mortimer, N., and Deckert, H., 2019. Critical-wedge theory and the Mesozoic accretionary wedge of New Zealand, Journal of Structural Geology, Elsevier, 122 (2019) 1-10.
- Robert, J.L., 1999. Whole Earth Geophysics: An Introductory Textbook For Geologist and Geophysicist, New Jersey: Prentice Hall.
- Samankassou, E.A., Mazzini, M., Chiaradia, S., Spezzaferri, A., Moscariello, and Couto, D.D., 2017. Origin and age of carbonate clasts from the Lusi eruption, Java, Indonesia, Marine and Petroleum Geology, vol. 90, pp. 138-148.
- Satyana, A.H., and Asnidar, 2008. Mud Diapirs And Mud Volcanoes In Depressions Of Java To Madura: Origins, Natures, And Implications To Petroleum System, Proceedings of Indonesian Petroleum Association Thirty-Second Annual Convention & Exhibition, 32: G-139.
- Satyana, A.H., and Purwaningsih, M.E.M., 2003. Geochemistry Of The East Java Basin: New Observations On Oil Grouping, Genetic Gas Types And Trends Of

Hydrocarbon Habitats, Proceedings of Indonesian Petroleum Association Twenty-Ninth Annual Convention & Exhibition, 29: G-021.

Satyana, A.H., 2016. The Emergence Of Pre-Cenozoic Petroleum System In East Java Basin: Constraints From New Data And Interpretation Of Tectonic Reconstruction, Deep Seismic, And Geochemistry, Proceedings of Indonesian Petroleum Association Fortieth Annual Annual Convention & Exhibition, 40: G-573.

Setyowati, T.P., Nusantara, Y.P., Wicaksono, A.B., Yusriani, A., and Hidayatullah, A., 2018. Characteristics of oil seepages boyolali: where did they come from?, Proceedings, Indonesian Society of Petroleum Geologists (ISPG) Research Forum 243-255.

Smyth, H.R., Hall, R., Hamilton, J., and Kiny, P., 2005. East Java: Cenozoic Basins, Volcanoes And Ancient Basement, Proceedings of Indonesian Petroleum Association Thirtieth Annual Convention & Exhibition, 30: G-045.

Smyth, H.R., Hall, R., and Nichols, G.J., 2008. Cenozoic Volcanic Arc History Of East Java, Indonesia: The Stratigraphic Record Of Eruptions On An Active Continental Margin, The Geological Society of America, Special Paper 436: 199-222.

Sribudiyani, Prasetya, I., Muchsin, N., Sapiie, B., Ryacudu, R., Asikin, S., Kunto, T., Harsolumakso, A.H., Astono, P., and Yulianto, i., 2003. The Collision Of The East Java Microplate And Its Implication For Hydrocarbon Occurrences In The East Java Basin, Proceedings of Indonesian Petroleum Association Twenty-Ninth Annual Convention & Exhibition, 29: G-085.

Subroto, E.A., Noeradi, D., Priyono, A., Wahono, H.E., Hermanto, E., Praptisih, and Santoso, K., 2007. The Paleogene Basin Within The Kendeng Zone, Central Java Island, And Implications To Hydrocarbon Prospectivity, Proceedings of Indonesian Petroleum Association Thirty-first Annual Convention & Exhibition, 31: G-091.

Sumintadireja, P., Dahrin, D., and Grandis, H., 2018. A Note on the Use of the Second Vertical Derivative (SVD) of Gravity Data with Reference to Indonesian Cases, Journal Enggineering Technol. Sci., Vol. 50 No. 1, 127-139.

Susilawati, 2005. Reduksi dan Interpretasi Data Gravitasi, *e-USU Respository*.

Talwani, M., Worzel, JL., and Lisman, M., 1959. Rapid gravity computations for two-dimensional bodies with application to the Mendocino submarine fracture zone, Journal of Geophysical Research, 64 (1), 49–59.

Telford, W.M., Geldrat, L.P., and Sheriff, R.P., 1990. Applied Geophysics Second Edition, Cambridge: Cambridge University Press.

Van Bemmelen, R.W., 1949. The Geology of Indonesia. Vol 1A. General Geology of Indonesia And Adjacent Archipelagos, Martinus Nijhoff, The Hague, Netherlands.

Waltham, D., Hall, R., Smyth, H.R., and Ebinger, C.J., 2008. Basin formation by volcanic arc loading, The Geological Society of America, Special Paper 436, 436: 11-26.

Waples, D.W., 1985. Geochemistry in petroleum exploration, International Human Resources Development Corporation, Boston.

Waples, D.W., and Machihara, T., 1991. Biomarkers for geologist – A Practical guide to the application of steranes and triterpanes in petroleum geology, AAPG Methods in Exploration, No 9, The American Association of Petroleum Geologist.

Waples, D.W., and Curiale, J.A., 1999. Oil–oil and oil–source rock correlations, AAPG Treatise of Petroleum Geology, Hand book of Petroleum Geology, The American Association of Petroleum Geologist.