

## Publications

### Authored Books

Hardage, B. A., DeAngelo, M. V., Murray, P. E., and Sava, D., 2011, Multicomponent seismic technology: Tulsa, Society of Exploration Geophysicists, Geophysical References Series No. 18, 318 p.

### Peer Reviewed Journal Articles

DeAngelo, M., and Hardage, B. A., 2016, Comparing P-P, P-SV, and SV-P mode waves in the Midland Basin, West Texas: Interpretation, v. 4, no. 2, p. T183-T190, <http://doi.org/10.1190/INT-2015-0170.1>.

DeAngelo, M., and Hardage, B. A., 2014, Application of 3C/3D converted mode reflections, King County, Texas: Interpretation, v. 2, no. 2, p. SE39-SE45, <http://doi.org/10.1190/INT-2013-0181.1>

Wei, S., DeAngelo, M., and Hardage, B. A., 2014, Advantages of joint interpretation of P-P and P-SV seismic data in geothermal exploration: Interpretation, v. 2, no. 2, p. SE117-SE123, <http://doi.org/10.1190/INT-2013-0084.1>

Wei, S., DeAngelo, M., and Hardage, B. A., 2014, Interpretation of multicomponent seismic data across Wister geothermal field, Imperial Valley, California: Interpretation, v. 2, no. 2, p. SE125-SE135, <http://doi.org/10.1190/INT-2013-0083.1>

Yuan, S., DeAngelo, M., and Hardage, B. A., 2014, Interpretation of fractures and joint inversion using multicomponent seismic data -- Marcellus Shale example: Interpretation, v. 2, no. 2, p. SE55-SE62, <http://doi.org/10.1190/INT-2013-0146.1>

DeAngelo, M. V., and Hardage, B. A., 2013, A 3C/3D analysis of the Appalachian Basin Hamilton Group, Northeastern Pennsylvania: Journal of Seismic Exploration, v. 22, p. 271-293.

Sava, D., Hardage, B. A., DeAngelo, M., and Murray, P., 2011, Evaluating marine gas-hydrate systems, part II: rock-physics joint inversion of electrical resistivity and seismic velocities: Journal of Seismic Exploration, v. 20, p. 105-118.

DeAngelo, M. V., Sava, D. C., Hardage, B. A., and Murray, P. E., 2010, Integrated 2D 4-C OBC analysis for estimating hydrate concentrations, Green Canyon, Gulf of Mexico: Journal of Seismic Exploration, v. 19, p. 263-278.

DeAngelo, M. V., Murray, P. E., Hardage, B. A., and Remington, R. L., 2008, Integrated 2D 4-C OBC velocity analysis of near-seafloor sediments, Green Canyon, Gulf of Mexico: Geophysics, v. 73, no. 6, p. B109-B115.

Hernández-Mendoza, J. J., DeAngelo, Michael, Wawrzyniec, T. F., and Hentz, T. F., 2008, Major structural elements of the Miocene section, Burgos Basin, northeastern Mexico: AAPG Bulletin, v. 92, no. 11, p. 1479-1499. [DeAngelo is the true senior author. As a condition for publication of this PEMEX-funded study, PEMEX required one of its personnel to be listed as first author.]

Hernández-Mendoza, J. J., Hentz, T. F., DeAngelo, Michael, Wawrzyniec, T. F., Sakurai, Shinichi, Talukdar, S. C., and Holtz, M. H., 2008, Miocene chronostratigraphy, paleogeography, and play framework of the Burgos Basin, southern Gulf of Mexico: AAPG Bulletin, v. 92, no. 11, p. 1501-1535. [Hentz is the true senior author. As a condition for publication of this PEMEX-funded study, PEMEX required one of its personnel to be listed as first author.]

### Peer Reviewed Book Chapters

Hardage, B. A., Murray, P., Remington, R. L., DeAngelo, M., Sava, D., Roberts, H. H., Shedd, W. W., and Hunt, J., Jr., 2009, Chapter 4. Multicomponent seismic technology assessment of fluid-gas expulsion geology and gas-hydrate systems: Gulf of Mexico, in Collett, T., Johnson, A., Knapp, C., and Boswell, R., eds., Natural gas hydrates--energy resource potential and associated geologic hazards: AAPG, Memoir 89, 247-265.