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Publication list

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Publications:

1. Post, Paul J.; Reid, Jeffrey C., and Coleman, James L., Jr., 2018, Petroleum systems of coastal North Carolina: What we know, what we think we know, and the range of uncertainty in the interpretation of geochemical data. In preparation for the 2018 Conjugate Margins Conference, Halifax, N.S., Canada (August 19-22, 2018 – Dalhousie University). Accepted for presentation.
2. Reid, Jeffrey C.; Coleman, James L., Jr., and Post, Paul J., 2018, Organic petrology, geochemistry, and stratigraphic data from the Esso Hatteras Light No. 1 and the Mobil State of North Carolina #3 and their effect hydrocarbon prospectivity in coastal North Carolina (poster tentative title). In preparation for the 2018 Conjugate Margins Conference, Halifax, N.S., Canada (August 19-22, 2018 – Dalhousie University). Accepted for presentation.
3. Reid, Jeffrey C.; Marciniak, Katherine J.; Haven, Walter T., and Taylor, Kenneth B., 2018, Confirmation of hydrocarbon shows and helium in the Walnut Cove Formation: Triassic rift / lacustrine Dan River basin (Stokes and Rockingham counties), North Carolina: A potential new helium province in the Eastern United States? In review for a North Carolina Geological Survey, Open-File Report.
4. Myers, C. W., and Reid, Jeffrey C., 2018, Underground Space Resource in Granitic Pluton of the Southeastern U.S. and the Concept for an Underground Nuclear Power Plant with Collocated Facilities for Spent Fuel Storage and Deep Borehole Disposal. Submitted to the SE Section, Geological Society of America, Knoxville 2018 annual meeting.
5. Reid, Jeffrey C.; Moyer, Robert J, and Lee, David F., 2017, Silver Shaft Mine VMS mineralization and hydrothermal alteration: Petrographic examples from core hole PDSS-3, Rowan and Cabarrus counties, North Carolina. Submitted to the SE Section, Geological Society of America, Knoxville 2018 annual meeting.
6. Reid, Jeffrey C., 2017, Digital karst layer and compilation of mapped karst (sinkhole) features in New Hanover and Brunswick counties, North Carolina: Relationship to critical facilities: North Carolina Geological Survey, Open-File Report 2017-12, 11p. accompanied by geographic information system (GIS) files. 1 CDR, not available for download.
7. Reid, Jeffrey C.; Marciniak, Katherine J.; Haven, Walter T., and Taylor, Kenneth B., 2017a, Pine Hall Formation: Type section designated – Dan River basin, Stokes Co., North Carolina: A potential reservoir: North Carolina Geological Survey, Open-file report 2017-03 (with appendices). Available on-line at URL
https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Geological%20Survey/OFRs_Geological_Survey/NCGS_OFR_2017-03_Pine_Hall_Formation.pdf.

8. Reid, Jeffrey C.; Marciniak, Katherine J.; Haven, Walter T., and Taylor, Kenneth B., 2017b, Pine Hall Formation: Type section designated – Dan River basin, Stokes Co., North Carolina: A potential reservoir: In press, *Southeastern Geology* – Expected publication, February 2018 .
9. Reid, Jeffrey C.; Marciniak, Katherine J.; Haven, Walter T., and Taylor, Kenneth B., 2017c, Pine Hall Formation: Type section designated – Dan River basin, Stokes Co., North Carolina: A potential reservoir: American Association of Petroleum Geologists – Eastern Section, Morgantown, WV (poster). Accepted 3 October 2017 for publication in AAPG’s ‘Search and Discovery’. Available on-line at URL http://www.searchanddiscovery.com/documents/2017/11012reid/ndx_reid.pdf. (Winner of the “Vincent E. Nelson Memorial Best Poster Award” at the 2017 Eastern Section Meeting, Morgantown, WV.
10. Reid, Jeffrey C., 2017, Section 2.2. Core photographs and selected petrography for the Silver Shaft (McMakin) VMS deposit, Gold Hill District, Rowan and Cabarrus counties, North Carolina, document pages 48-137, in Moye, Robert J.; Reid, Jeffrey C., and Lee, David F., 2017, Volcanogenic polymetallic massive sulfide deposits (VMS) of the Carolina Terrane in central North Carolina: New Perspectives and historical reports and data from the files of Phelps Dodge Exploration East (1975-1982): North Carolina Geological Survey, Special Publication 11, 456p. Available on-line at URL <https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Geological%20Survey/SpecialPublications/NCGS%20Special%20Publication%2011.pdf>.
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12. Carpenter, Robert H.; Reid, Jeffrey C., and Myers, C.W., 2017, Underground storage of refrigerated natural gas in granites in North Carolina and Southern Virginia. Abstract and oral presentation at the 2017 meeting of the Southeast Section, Geological Society of America at Richmond, VA. Abstract on-line at URL <https://gsa.confex.com/gsa/2017SE/webprogram/Paper290036.html>.
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15. Reid, Jeffrey C.; Milici, Robert C., and Coleman, James, L., Jr., 2017, in review, The Deep River Total Petroleum System, North Carolina – basin number 1230700461. (Forthcoming U.S. Geological Survey Open-File Report without data).

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19. Reid, Jeffrey C.; Taylor, Kenneth B.; Mensah-Biney, Robert; Simms, Jonathan, and Akbari, Hamid, 2017, Tungsten Queen mine tailings evaluation, Vance Co., NC: A potential silica resource. Abstract and poster presented at the 2017 meeting of the Southeast Section, Geological Society of America at Richmond, VA. Abstract on-line at URL <https://gsa.confex.com/gsa/2017SE/webprogram/Paper290030.html>. The presented poster is appended to the on-line abstract.
20. Reid, Jeffrey C.; Coleman, Jr., James L.; Taylor, Kenneth, B.; Marciniak, Katherine J.; Haven, Walter T.; Channell, Ryan A.; and Warner, Chandler I., 2016, North Carolina Geological Survey Open-File Report 2016-01: Cumberland-Marlboro basement drilling results – 2015: Cumberland, Hoke and Scotland counties, North Carolina, 34 p. Available on-line at URL https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Geological%20Survey/Oil%20and%20Gas%20Research/NCGS_OFR_2016-01_V_20160223.pdf.
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22. Reid, Jeffrey C., and Taylor, Kenneth B., 2016, Dawn of a new gas play in North Carolina: The Walnut Cove and Cow Branch shales, invited oral presentation for presentation at the Unconventional Resources Technology Conference (URTEC 2016), San Antonio, for Theme Session 12, “Emerging Unconventional Plays” (abstract and presentation available upon request).
23. Reid, Jeffrey C.; Taylor, Kenneth, B.; Marciniak, Katherine J.; Haven, Walter T.; Channell, Ryan A.; and Warner, Chandler I., 2015, North Carolina Geological Survey Open-File Report 2015-06: Dan River basin stratigraphic core hole ‘Town of Walnut Cove’ (SO-C-1-15), Stokes County,

North Carolina: Preliminary results, 24 p. Available on-line at URL <https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Geological%20Survey/Oil%20and%20Gas%20Research/Dan%20River%20basin%20stratigraphic%20core%20hole%20%E2%80%98Town%20of%20Walnut%20Cove%E2%80%99%20%28SO-C-1-15%29.pdf>.

24. Olsen, Paul E.; Reid, Jeffrey C.; Taylor, Kenneth B.; Kent, Dennis V.; and Whiteside, Jessica H., 2015, Revised stratigraphy of Triassic age strata of the Dan River basin (Virginia and North Carolina, USA) based on drill core and outcrop data: *Southeastern Geology*, v. 51, No. 1, March 2015, p. 1-31.
25. Reid, Jeffrey C., 2015, Triassic rift / lacustrine continuous gas assessment units (AU): North Carolina and Virginia, USA, *in* Post, P.; Coleman, Jr., J. L.; Brown, D.; *et al.*, editors, Petroleum systems in “rift” basins: 34th Annual GCSSEPM Foundation Perkins-Rosen Research Conference Proceedings, December 13-16, 2015, Houston, TX, p. 287-306 plus Appendix (3 posters). The abstract can be viewed on-line at URL http://www.gcssepm.org/conference/2015_abstracts4.pdf. This was both an oral and poster presentation.
26. Reid, Jeffrey C.; Hunt, Andrew; Ellis, Geoffrey; Taylor, Kenneth; and Patterson, O.F., III, 2015, Noble gas isotopes, major element isotopes, and gas composition data from the Cumnock Formation: Sanford sub-basin, Deep River basin, North Carolina, U.S.A. poster presented at the September 2015 AAPG Eastern Section meeting, Indianapolis, IN. The poster can be viewed on line as AAPG Search and Discovery Article #80494 (posted 9 November 2015) at URL http://www.searchanddiscovery.com/documents/2015/80492reid/ndx_reid.pdf.
27. Carpenter, Robert H., and Reid, Jeffrey C., 2015, Permian, Triassic, and Jurassic history of the Raleigh-Durham area, North Carolina. Presented at the 2015 annual meeting of the Southeastern Section, Geological Society of America, Chattanooga, Tennessee. Abstract number 251558, Abstracts with programs, v. 47, No. 2, p. 13. See URL <https://gsa.confex.com/gsa/2015SE/webprogram/Paper251558.html> (also URL link at bottom of abstract to view the poster PDF file).
28. Reid, Jeffrey C.; Kenneth B. Taylor; and McGlue, Michael M., 2015, Porosity, permeability, pore characterization and rock mechanics of the Triassic Cow Branch and Walnut Cove Formations: A continuous gas assessment unit, Dan River basin, Stokes and Rockingham counties, North Carolina, USA, **Part 3**. Presented at the 2015 annual meeting of the American Association of Petroleum Geologists (AAPG), Denver (annual meeting abstract number 2092852). Available on-line as Article #10752 at AAPG’s ‘Search and Discovery’ site at URL http://www.searchanddiscovery.com/documents/2015/10752reid/ndx_reid.pdf.
29. Reid, Jeffrey C., and Taylor, Kenneth B., 2015, Mesozoic rift basins – Onshore North Carolina and South-Central Virginia, U.S.A.: Deep River and Dan River-Danville Total Petroleum Systems (TPS) and Assessment Units (AU) for continuous gas accumulation Atlantic Margins, (Adapted from an extended abstract prepared in conjunction with presentation at CSPG/CSEG/CWLS Geoconvention 2013 – Calgary, AB, Canada, 6-12 May 2013). See AAPG Search and Discovery Article #10712 at URL http://www.searchanddiscovery.com/documents/2015/10712reid/ndx_reid.pdf.

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31. Carpenter, Robert H., and Reid, Jeffrey C., 2015, Geochemical lineaments and trends in NURE groundwater domestic water well data, and their geological relationships, North Carolina Coastal Plain, presented at the 2015 annual meeting of the Geological Society of America, Baltimore. The abstract was published in GSA Abstracts with Programs, Vol. 47, No. 7, p. 323. Available on-line at URL <https://gsa.confex.com/gsa/2015AM/webprogram/Paper261158.html>. This was a poster presentation (part of the Theme Session 112 'Understanding Saline Fluid Flow Systems: From Saltwater Intrusion to Geologic-Scale Brine Migration'). Available on-line at URL <https://gsa.confex.com/gsa/2015AM/webprogram/Paper261158.html>.
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1. Links to various parts of this study can be accessed *via* URL <http://portal.ncdenr.org/web/guest/shale-gas>.