

15A NCAC 05H .1606 CEMENTING STANDARDS

- (a) All cement pumped into the wellbore shall consist of cement that is manufactured and tested pursuant to API Specification 10A "Specification for Cements and Materials for Well Cementing" or the American Society for Testing and Materials (ASTM) Standard Specification "C150/C150M Standard Specification for Portland Cement," which are incorporated by reference, including subsequent amendments and editions. Specification 10A, published by API, may be viewed online for no charge at <http://publications.api.org/>. Specification C150/C150M, published by ASTM, may be purchased at a cost of forty-one dollars (\$41.00) at <http://www.astm.org/Standards/C150.htm> or by mail at 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.
- (b) The permittee, or an authorized representative of the permittee, shall be onsite for all cement mixing and placement operations to monitor the cement mixing equipment and to ensure that cement slurry design parameters are followed.
- (c) Cement shall be pumped at a rate and in a flow regime that minimizes channeling of the cement in the annulus.
- (d) Cement mixtures for which published performance data are not available shall be tested by the permittee or the service company. The cement test results shall be included with the Form 2 – Oil or Gas Well Permit Application confirming that the cement mixture meets API Specification 10A "Specification for Cements and Materials for Well Cementing."
- (e) The Department may require by permit condition a specific cement mixture to be used in any oil or gas based on site-specific situations, such as the salinity of subsurface groundwater zones or the presence of geological hazards.
- (f) All cement shall reach a compressive strength of at least 500 pounds per square inch (psi) prior to conducting the casing integrity test required by Rule .1605(b) of this Section.

History Note: Authority G.S. 113-391(a)(5)c;
Eff. March 17, 2015.