15A NCAC 05H .1304 CONTENTS OF OIL OR GAS WELL PERMIT APPLICATION

(a) All applications to drill, recomplete, restimulate, deepen, reenter, sidetrack, plug and abandon, plug back, or revise a location shall be submitted using a Form 2 – Oil or Gas Well Permit Application. The Form 2 – Oil or Gas Well Permit Application shall include:

(1) the applicant's or permittee's name, address in accordance with G.S. 113-408, telephone number, fax number, and email address;

(2) the county and nearest city or town where the oil or gas well is proposed to be located or is located;

(3) the property street address, or nearest address to the ingress and egress point leading from a public road to the proposed or existing well pad;

(4) the lease name and the oil or gas well name and number for the proposed or existing oil or gas well;

(5) the drilling unit number issued by the Commission pursuant to Rule .1202 of this Subchapter;

(6) any variance request(s) approved by the Commission;

(7) the latitude and longitude (in decimal degrees) of the proposed or existing oil or gas well location(s) with a minimum of five decimal places of accuracy and precision using the North American Datum (NAD) of 1983. The location coordinates shall be a field measurement and not a calculated or conversion measurement;

(8) the name of any incorporated city, town, village, or respective extra-territorial jurisdiction, if the oil or gas well is proposed to be located or is located within its limits;

(9) if known, the names of the proposed drilling contractor, cementing service company, and well stimulation company at the time of application submittal;

(10) an indication that the local emergency management coordinator has received an emergency response plan in accordance with Rule .1305 of this Section;

(11) an indication that the applicant or permittee will scan all equipment at the well site to measure for methane emissions;

(12) an indication that the applicant or permittee will address methane emissions detected;

(13) an indication that the applicant or permittee is submitting an estimate of the number and type of engine(s) to be used onsite, the size of engine(s), and the fuel source of engine(s) that will be used during drilling or completion activities;

(14) an indication that the applicant or permittee has a proppant-related dust management and mitigation plan; and

(15) an indication of whether pits are to be constructed and, if so, for what purpose.

(b) The following plat(s) and maps shall be attached to Form 2 – Oil or Gas Well Permit Application:

(1) A plat showing:

(A) the subject drilling unit where the oil or gas well will be drilled and the property lines with surface and mineral owner name(s);

(B) the location of the proposed oil or gas well in the drilling unit, based on a field survey showing the distances in feet from the proposed well site to the boundary lines of the drilling unit;

(C) the location and distances of the nearest buildings, public roads, railroads, private water supply wells, public water supply sources, surface water bodies, utility rights-of-way, and drilling or producing oil or gas wells from the proposed oil or gas well in accordance with Rules .1205 or 1206 and .1601 of this Subchapter; and

(D) any areas with known environmental contamination within the area of influence in accordance with Rule .1901 of this Subchapter.

(2) All plats submitted as a part of the application for a Form 2 – Oil or Gas Well Permit Application shall contain the following identifying information and be signed and sealed by a Professional Land Surveyor (PLS) or Professional Engineer (PE) licensed by the North Carolina Board of Examiners for Engineers and Surveyors pursuant to G.S. 89C:

(A) the name of the applicant or permittee;

(B) the oil or gas well name and number;

(C) a north arrow;

(D) the county;

(E) a map scale of 1 inch equals 50 feet to 1 inch equals 500 feet with two foot topographic contours, depending on the total disturbed area;

(F) a legend with symbols used and corresponding names;
(G) the date the plat or map was prepared and revised; and
(H) the name and title of person preparing the plat.

(3) A topographic and site overlay on a base color aerial map for the well site based on a LiDAR derived map showing the location of the well site, corners of well pad, oil or gas wells, tank battery, pits, access roads, all other proposed production equipment, and any other existing structures and features onsite; and

(4) The total estimated true vertical and measured depths of the wellbore and proposed well path report showing inclination and azimuth every 100 feet with the North American Vertical Datum of 1988 (NAVD88) as the vertical control.

(c) The applicant or permittee shall submit the following attachments with Form 2 – Oil or Gas Well Permit Application:

(1) Form 3 – Well Construction Design that includes the following:
(A) the applicant's or permittee's name, address, telephone number, fax number, and email address;
(B) the county and nearest city or town where the oil or gas well is located;
(C) the property street address, or nearest address to the ingress and egress point leading from a public road to the well pad;
(D) the lease name and the oil or gas well name and number;
(E) the planned diameter of each wellbore segment;
(F) the main design parameters for each casing string, including the maximum anticipated pressure, compressive and tensile loads, and drilling or completion fluid density;
(G) the casing grade, weight, outside diameter, and setting depth for each proposed casing string;
(H) the method of drilling, including the fluids that will be used during the drilling for each proposed casing string;
(I) the cement type, additives, density, yield, and volume for each proposed casing string;
(J) a list of the blowout prevention equipment and other wellhead equipment and the pressure rating of each that is to be installed before drilling out of each casing string;
(K) a wellbore diagram or other documentation detailing the proposed oil or gas well construction design; and
(L) the method of well stimulation for the oil or gas well, the proposed number of well stimulation stages, the proposed maximum surface treating pressures, and the estimated true vertical depth to the top of fractures.

(2) a Well Site Development Plan that includes the Sedimentation and Erosion Control and Stormwater Management Plans as a part of the site construction sheets and details for review in accordance with Section .1500 of this Subchapter;

(3) Form 4 – Water Management Plan, including documentations and maps in accordance with Section .1900 of this Subchapter;

(4) Form 5 – Waste Management Plan, including documentations and maps in accordance with Section .2000 of this Subchapter;

(5) Form 6 – Well Site Reclamation Plan showing reclamation phases in accordance with Section .2100 of this Subchapter;

(6) Form 1 – FRO filled out in its entirety;

(7) any variance request(s) approved by the Commission;

(8) a road impact plan that mitigates damage to roads by truck traffic and heavy equipment. Plans shall include:
(A) procedures to restore roads to their condition that existed prior to the drilling activity undertaken by the permittee or applicant;
(B) identification of trucking routes that minimize road surface travel; and
(C) route travel hours that avoid otherwise heavy traffic volume, including avoidance of hours during which school buses will be traveling on the roads.

(9) documentation that the local emergency management coordinator has received emergency response plan information in accordance with Rule .1305 of this Section;

(10) a statement of how often the permittee intends to scan all equipment at the well site to measure for methane emissions;

(11) a statement that if methane emissions are detected the time period during which the permittee intends to repair any leaks discovered;

(12) an estimate of the engine(s) to be used onsite during exploration and development including the following information:

(A) the number and type of engine(s), such as compression ignition, two stroke lean burn ignition, four stroke lean burn ignition, rich burn spark ignition;

(B) the size of engine(s) (maximum site-rated horsepower); and

(C) the fuel source of engine(s).

(13) a plan that manages and mitigates proppant-related dust.

History Note: *Authority G.S. 113-391(a)(5)a; 113-391(a)(5)b ; 113-391(a)(5)c; 113-391(a)(5)i; 113-391(a)(5)j; 113-391(a)(5)l; 113-391(a)(8); 113-391(a6); 113-395; 114-408;*
Eff. March 17, 2015.