



**AIR POLLUTION CONTROL  
PERMIT TO CONSTRUCT**

Pursuant to Chapter 23-25 of the North Dakota Century Code, and the Air Pollution Control Rules of the State of North Dakota (Article 33-15 of the North Dakota Administrative Code), and in reliance on statements and representations heretofore made by the owner designated below, a Permit to Construct is hereby issued authorizing such owner to construct and initially operate the source unit(s) at the location designated below. This Permit to Construct is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Health and to any conditions specified below:

**I. General Information:**

A. **Permit to Construct Number:** PTC15068

B. **Source:**

1. Name: 1804 Ltd. LLC
2. Location: Spring Brook Gas Processing Plant  
SE ¼, SE ¼, Sec. 22, T155N, R100W  
Williams County, North Dakota
3. Source Type: Gas Processing Plant
4. Equipment at the Facility: The facility consists of a natural gas processing plant with a capacity of 45 million standard cubic feet per day. Existing equipment includes the following:

<b>Emission Unit Description</b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
One Caterpillar Model G3608 natural gas-fired engine (4SLB) rated at approximately 2,370 bhp. The manufacture date is unknown.	C-2711	1	Oxidation Catalyst
One Caterpillar Model G3608 natural gas-fired engine (4SLB) rated at approximately 2,370 bhp. The manufacture date is unknown.	C-2712	2	Oxidation Catalyst
One Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at approximately 1,035 bhp. The manufacture date is unknown.	C-300A	3	Oxidation Catalyst
One Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at approximately 1,035 bhp. The manufacture date is unknown.	C-300B	4	Oxidation Catalyst

<b>Emission Unit Description</b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
One Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at approximately 1,035 bhp. The manufacture date is unknown.	C-5701	5	Oxidation Catalyst
One Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at approximately 1,035 bhp. The manufacture date is unknown.	C-5702	6	Oxidation Catalyst
One Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at approximately 1,035 bhp. The manufacture date is unknown.	C-4711	7	Oxidation Catalyst
One Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at approximately 1,818 bhp. The manufacture date is unknown.	GEN1	8	Oxidation Catalyst
One Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at approximately 1,818 bhp. The manufacture date is unknown.	GEN2	9	Oxidation Catalyst
One natural gas-fired hot oil heater rated at approximately 10 million Btu/hr	B-940	10	None
Emergency and process flare	FL-8501*	11	None
NGL loadout	LOAD1	12	None
One 45 MMSCFD glycol dehydration unit	T-510/V-520**	13/14**	None
Fugitive emissions	FUG	FUG	None
400 barrel produced water storage tank with tanker truck loadout	TK-1	FUG	Submerged Fill Pipe (SFP)
400 barrel produced water storage tank with tanker truck loadout	TK-2	FUG	SFP

\* Due to increased waste gas being produced from the process, FL-8501 can also be operated as a process flare to control emissions during upset and maintenance conditions.

\*\* T-510 (EP 13) is the still vent and V-520 (EP 14) is the flash gas vent.

5. New Equipment to be added at the Facility:

<b>Emission Unit Description</b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
500 bbl Condensate Tank	TK-3*	15*	SFP & Vapor Recovery Unit (VRU)
500 bbl Condensate Tank	TK-4*	15*	SFP & VRU
500 bbl Condensate Tank	TK-5*	15*	SFP & VRU
500 bbl Condensate Tank	TK-6*	15*	SFP & VRU
Condensate Loadout	LOAD 2	16	None

\* Tank vapors are captured using the VRU and are recycled back into the system for reprocessing, therefore, no expected emissions will result from these units.

**C. Owner/Operator (Permit Applicant):**

1. Name: 1804 Ltd. LLC
2. Address: 11080 Circle Pint Road, Ste 185  
Westminster, CO 80020
3. Application Date: October 19, 2015

**II. Conditions:** This Permit to Construct allows the construction and initial operation of the above-mentioned new or modified equipment at the source. The source may be operated under this Permit to Construct until a Permit to Operate is issued unless this permit is suspended or revoked. The source is subject to all applicable rules, regulations, and orders now or hereafter in effect of the North Dakota Department of Health and to the conditions specified below.

**A. Emission Limits:** Emission limits from the operation of the new equipment identified in Item I.B of this Permit to Construct (hereafter referred to as "permit") are as follows. Minor source units not listed are subject to the applicable emission limits specified in the North Dakota Air Pollution Control Rules.

<b>Emission Unit Description</b>	<b>EU</b>	<b>EP</b>	<b>Pollutant / Parameter</b>	<b>Emission Limit</b>
Emergency and process flare	FL-8501	11	Opacity	20% (60%*)

\* Permissible for not more than one six-minute period per hour.

**B. Flaring Restrictions:**

1. Flaring may not be used to burn waste gas for the purpose of increasing or maintaining well production without prior approval from the Department. When it is necessary to operate the flare during emergency, malfunction or maintenance, all precautions shall be taken to minimize emissions and maintain compliance with the applicable ambient air quality standards as outlined in NDAC 33-15-02 and the opacity standard of 20% not to exceed 60% for more than one six-minute period per hour.
2. The flare must be equipped and operated with an automatic ignitor or a continuous burning pilot which must be maintained in good working order as outlined in NDAC 33-15-07-02.
3. The presence of a flame shall be monitored using a thermocouple or any other equivalent device approved by the Department.
4. The flare shall be operated in accordance with the requirements of 40 CFR 60.18.

**C. 40 CFR 60, Subpart Dc:** The owner/operator shall comply with all applicable requirements of 40 CFR 60, Subpart Dc – Standards of Performance for Small

Industrial-Commercial-Institutional Steam Generating Units.

- D. **40 CFR 60, Subpart OOOO:** The owner/operator shall comply with all applicable requirements of 40 CFR 60, Subpart OOOO – Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution. For this subpart, EPA Region 8, not the North Dakota Department of Health, is the implementing and enforcement authority. The permittee shall submit all documentation to EPA at the address listed below:

U.S. EPA Region 8  
1595 Wynkoop Street  
Mail Code 8ENF – AT  
Denver, CO 80202-1129

- E. **Organic Compounds Emissions:** The permittee shall comply with all applicable requirements of NDAC 33-15-07 – Control of Organic Compounds Emissions.

- F. **Construction:** Construction of the above described facility shall be in accordance with information provided in the permit application as well as any plans, specifications and supporting data submitted to the Department. The Department shall be notified ten days in advance of any significant deviations from the specifications furnished. The issuance of this Permit to Construct may be suspended or revoked if the Department determines that a significant deviation from the plans and specifications furnished has been or is to be made.

Any violation of a condition issued as part of this permit to construct as well as any construction which proceeds in variance with any information submitted in the application, is regarded as a violation of construction authority and is subject to enforcement action.

- G. **Startup Notice:** A notification of the actual date of initial startup shall be submitted to the Department within 15 days after the date of initial startup.

- H. **Permit Invalidation:** This permit shall become invalid if construction is not commenced within eighteen months after issuance of such permit, if construction is discontinued for a period of eighteen months or more; or if construction is not completed within a reasonable time.

- I. **Fugitive Emissions:** The release of fugitive emissions shall comply with the applicable requirements in NDAC 33-15-17.

- J. **Annual Emission Inventory/Annual Production Reports:** The owner/operator shall submit an annual emission inventory report or an annual production report, upon request, on forms supplied or approved by the Department.

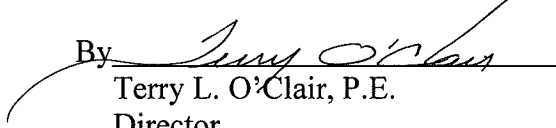
- K. **Source Operations:** Operations at the installation shall be in accordance with statements, representations, procedures and supporting data contained in the initial application, and any supplemental information or application(s) submitted thereafter. Any operations not listed in this permit are subject to all applicable North Dakota Air Pollution Control Rules.
- L. **Alterations, Modifications or Changes:** Any alteration, repairing, expansion, or change in the method of operation of the source which results in the emission of an additional type or greater amount of air contaminants or which results in an increase in the ambient concentration of any air contaminant, must be reviewed and approved by the Department prior to the start of such alteration, repairing, expansion or change in the method of operation.
- M. **Air Pollution from Internal Combustion Engines:** The permittee shall comply with all applicable requirements of NDAC 33-15-08-01 – Internal Combustion Engine Emissions Restricted.
- N. **Recordkeeping:** The owner/operator shall maintain any compliance monitoring records required by this permit or applicable requirements. The owner/operator shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report or application. Support information may include all calibration and maintenance records and all original strip-chart recordings/computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.
- O. **Nuisance or Danger:** This permit shall in no way authorize the maintenance of a nuisance or a danger to public health or safety.
- P. **Malfunction Notification:** The owner/operator shall notify the Department of any malfunction which can be expected to last longer than twenty-four hours and can cause the emission of air contaminants in violation of applicable rules and regulations.
- Q. **Operation of Air Pollution Control Equipment:** The owner/operator shall maintain and operate all air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions
- R. **Transfer of Permit to Construct:** The holder of a permit to construct may not transfer such permit without prior approval from the Department.
- S. **Right of Entry:** Any duly authorized officer, employee or agent of the North Dakota Department of Health may enter and inspect any property, premise or place at which the source listed in Item I.B of this permit is located at any time for the purpose of ascertaining the state of compliance with the North Dakota Air Pollution Control Rules. The Department may conduct tests and take samples of air

contaminants, fuel, processing material, and other materials which affect or may affect emissions of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.

- T. **Other Regulations:** The owner/operator of the source unit(s) described in Item I.B of this permit shall comply with all State and Federal environmental laws and rules. In addition, the owner/operator shall comply with all local burning, fire, zoning, and other applicable ordinances, codes, rules and regulations.
- U. **Permit Issuance:** This permit is issued in reliance upon the accuracy and completeness of the information set forth in the application. Notwithstanding the tentative nature of this information, the conditions of this permit herein become, upon the effective date of this permit, enforceable by the Department pursuant to any remedies it now has, or may in the future have, under the North Dakota Air Pollution Control Law, NDCC Chapter 23-25. Each and every condition of this permit is a material part thereof, and is not severable.
- V. **Odor Restrictions:** The owner/operator shall not discharge into the ambient air any objectionable odorous air contaminant which is in excess of the limits established in NDAC 33-15-16.

FOR THE NORTH DAKOTA  
DEPARTMENT OF HEALTH

Date 12/10/15

By   
Terry L. O'Clair, P.E.  
Director  
Division of Air Quality