

# Air Oil and Gas Facility Registration - New

version 3.1

(Submission #: HQ7-QGQ7-0WBY7, version 2)

Digitally signed by:  
CERIS-ND  
Date: 2025.09.11 15:44:04 -05:00  
Reason: Submission Data  
Location: State of North Dakota



## Details

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Submission ID HQ7-QGQ7-0WBY7

## Form Input

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### Instructions

#### Instructions

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Use this form to register a NEW Oil and Gas Production Facility as required under NDAC 33.1-15-20-01.

If you are adding a well to an existing facility, DO NOT use this form. Instead, search for the existing facility in CERIS-ND and submit a modification form (i.e. if the Upstream Production Facility already has an OGR "permit" assigned to it--do not use this form).

Registration fees are calculated at \$150 per new well.

If you add a Permit to Construct (PTC) application you will be assessed the additional \$325 filing fee. A link to the PTC forms is below.

You can upload an upstream oil and gas production site Title V Permit to Operate (PTO) application in this registration, a link to the Title V forms is below.

#### More Information

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More information on Oil and Gas Production Facility registration, rules, regulations, and policies can be found on the Department's website.

[NDDEQ- Oil & Gas](#)

[Permit Application Forms](#)

## Section A - Company Information

### Owner/Applicant

#### Company

##### Company Name

Continental Resources, Inc.

##### Company Mailing Address

PO Box 269000

Oklahoma City, OK 73126

United States

**Responsible Official**

**Responsible Official**

**Prefix**

NONE PROVIDED

**First Name      Last Name**

Sarah              Hale

**Title**

Manager, Williston Basin Production

**Organization Name**

Continental Resources, Inc.

**Phone Type    Number            Extension**

Business        4052349000

**Email**

sarah.hale@clr.com

**Responsible Official's Mailing Address**

PO Box 269000

20 N. Broadway

Oklahoma City, ND 73126

United States

**Contact Person for Air Pollution Matters**

**Contact person for Air Pollution Matters**

**First Name      Last Name**

Mike              Hampton

**Title**

Manager, Environmental Compliance

**Organization Name**

CONTINENTAL RESOURCES, INC.

**Phone Type    Number            Extension**

Business        4052349000

**Email**

mike.hampton@clr.com

**Section B - Facility Information**

When entering the facility name in the field below, please enter the company name first and then the facility name, separated by a hyphen [Company Name] - [Site Name]. For example:

ABC Company, LLC - 123 Test Facility

**Facility Name**

CONTINENTAL RESOURCES, INC. - HELEN 2-4 ARLEY 5-7 CHRISTIANA 7-8 KENNETH 2-3 CTB

**Site Type**

Air Oil Production Facility

**County**

Williams

Enter the facility location below. For latitude/longitude, use centroid of pad.

**Facility Location (CTB location/ location of the main process equipment):**

48.167696,-103.063994

**Enter the PLSS location for the facility**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Registration Fee (Calculated)**

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The values below are auto-populated from the information provided in the form.

**Total wells reported on this registration**

10

**Total new wells reported on this registration**

10

**Registration Fee Due**

1500

**Section C - Well Information (1 of 10)**

**Well: Helen 2-8HSL**

**NDIC Number**

41170

**API Number (full number including trailing 0s)**

33105063330000

**Status**

New

**Well Name**

Helen 2-8HSL

**Field Name**

WEST CAPA

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/14/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**

48.167695,-103.063339

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Section C - Well Information (2 of 10)**

**Well: Arley 7-18HSL**

**NDIC Number**

41169

**API Number (full number including trailing 0s)**

33105063320000

**Status**

New

**Well Name**

Arley 7-18HSL

**Field Name**

GRINNELL

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/14/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**

48.167696,-103.063601

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Section C - Well Information (3 of 10)**

**Well: Arley 6-18H1**

**NDIC Number**

41167

**API Number (full number including trailing 0s)**

33105063300000

**Status**

New

**Well Name**

Arley 6-18H1

**Field Name**

GRINNELL

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/19/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**

48.167696,-103.063863

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

## Section C - Well Information (4 of 10)

Well: Christiana 8-6H

**NDIC Number**

41168

**API Number (full number including trailing 0s)**

33105063310000

**Status**

New

**Well Name**

Christiana 8-6H

**Field Name**

WEST CAPA

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/20/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**

48.167696,-103.063732

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

## Section C - Well Information (5 of 10)

Well: Helen 4-8H

**NDIC Number**

41174

**API Number (full number including trailing 0s)**

33105063370000

**Status**

New

**Well Name**

Helen 4-8H

**Field Name**

WEST CAPA

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/19/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)  
48.167695,-103.062814

Enter the PLSS location for the well

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

### Section C - Well Information (6 of 10)

Well: Kenneth 3-17H

**NDIC Number**

41173

**API Number (full number including trailing 0s)**

33105063360000

**Status**

New

**Well Name**

Kenneth 3-17H

**Field Name**

WEST CAPA

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/15/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)

48.167695,-103.062945

Enter the PLSS location for the well

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

### Section C - Well Information (7 of 10)

Well: Arley 5-18H

**NDIC Number**

41166

**API Number (full number including trailing 0s)**

33105063290000

**Status**

New

**Well Name**

Arley 5-18H

**Field Name**

GRINNELL

**Producing Pool**  
BAKKEN/THREE FORKS

**First Date of Production**  
06/15/2025

**Feature Type (used to map wellhead)**  
Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**  
48.167696,-103.064125

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Section C - Well Information (8 of 10)**

**Well: Christiana 7-6H**

**NDIC Number**  
41099

**API Number (full number including trailing 0s)**  
33105063200000

**Status**  
New

**Well Name**  
Christiana 7-6H

**Field Name**  
WEST CAPA

**Producing Pool**  
BAKKEN/THREE FORKS

**First Date of Production**  
06/19/2025

**Feature Type (used to map wellhead)**  
Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**  
48.167696,-103.063994

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Section C - Well Information (9 of 10)**

**Well: Kenneth 2-17H1**

**NDIC Number**  
41171

**API Number (full number including trailing 0s)**  
33105063340000

**Status**

New

**Well Name**

Kenneth 2-17H1

**Field Name**

WEST CAPA

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/14/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**

48.167695,-103.063207

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Section C - Well Information (10 of 10)****Well: Helen 3-8H1****NDIC Number**

41172

**API Number (full number including trailing 0s)**

33105063350000

**Status**

New

**Well Name**

Helen 3-8H1

**Field Name**

WEST CAPA

**Producing Pool**

BAKKEN/THREE FORKS

**First Date of Production**

06/14/2025

**Feature Type (used to map wellhead)**

Oil Wellhead

**Provide the latitude and longitude for the well location ((to 5 decimals of a degree using North American Datum of 1983)**

48.167695,-103.063076

**Enter the PLSS location for the well**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NONE PROVIDED	17	154N	96W

**Section D - Facility-Wide Applicable Regulations and Potential to Emit (PTE)**

**Applicable Air Programs**

Applicable State rules (SIP) have been pre-selected for you. Select each Federal Rule that is applicable to the facility.

**Table 1 - Applicable Federal Air Programs - Select each Federal Part that this site has requirements under (ex. NSPS, MACT, GACT)**

Program Code
40 CFR Part 60 - New Source Performance Standards/NSPS (Table 2)
40 CFR Part 70 - Title V Permits

**Table 2 - 40 CFR 60 - NSPS Air Program Subparts**

Subpart
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Subpart OOOOb - Standards of Performance for Crude Oil and Natural Gas Facilities for Which Construction, Modification or Reconstruction Commenced After December 6, 2022

**Table 3 - 40 CFR 61 - NESHAPS Air Program Subparts**

Subpart

**Table 4 - 40 CFR 63 - MACT Air Program Subparts (Major)**

Subpart

**Table 5 - 40 CFR 63 - GACT/Area Source MACT Air Program Subparts**

Subpart

**Table 6 - Applicable State Regulations**

Regulation
33.1-15-01. General Provisions.
33.1-15-02-04. Ambient air quality standards.
33.1-15-03-03.1. Visible Emissions. Restrictions applicable to flares.
33.1-15-07-01.3. Requirements for construction of organic compounds facilities. Submerged fill pipes required.
33.1-15-07-02. Requirements for organic compounds gas disposal.
33.1-15-16-02. Emissions of Odorous Substances Restricted.
33.1-15-17-04. Restriction of Fugitive Gaseous Emissions.
33.1-15-20-02. Control of Emissions from Oil and Gas Well Production Facilities. Registration and Reporting Requirements.
33.1-15-20-03. Control of Emissions from Oil and Gas Well Production Facilities. Prevention of significant deterioration applicability and source information requirements.
33.1-15-20-04. Requirements for control of production facility emissions.
33.1-15-23. Fees.

**Potential to Emit (PTE) Production and Throughput Limits**

The source's production and throughput limits used to estimate the Potential to Emit (PTE) MUST be included in this section (comment box below) or attached in this registration. Per Chapter 33.1-15-20, this registration and attached estimated PTE MUST contain sufficient information to allow the Division to determine if the facility is in compliance with all applicable North Dakota Air Pollution Control Rules. The DEQ may take enforcement action on sources that have not submitted a complete and accurate registration or have not operated in accordance with the information, production, and throughput limits submitted in this registration.

**Potential to Emit (PTE)**

Pollutant	Tons per year without Fugitive Emissions	Tons Per Year with Fugitive Emissions
NOx	71.14	71.14
CO	202.95	202.95
VOCs	244.11	270.71
SO2	4.54	4.54

Pollutant	Tons per year without Fugitive Emissions	Tons Per Year with Fugitive Emissions
PM	10.28	11.26
PM10	10.28	11.26
PM2.5	10.28	11.26
Total HAPs	13.58	14.30
H2S	0.00	0.00

You have self-reported that your PTE for one or more criteria pollutants is 100 tpy or greater. You will have to submit a Title V Air Pollution Control Permit to Operate Application to the Department within 12 months after actual emissions exceed 100 tpy (or 10 tpy of any single HAP or 25 tpy combined HAPs).

**Is this source a Title V source after this registration is submitted?**

Yes - this site is a major source or will be above Title V emission levels.

**PTE/Calculation Supporting Documentation**

I would like to Upload my Supporting Documentation.

**Supporting Documents**

[HACK Pad-PTE Workbook.pdf - 09/11/2025 08:28 AM](#)

**Comment**

NONE PROVIDED

**Section E - Process Equipment Information**

**OIL**

**Production Rate - Oil**

18,403.69

**Units (in barrels per unit of time)**

BBL/day

**Does this facility have pipeline crude oil sales?**

Yes

**Provide the name of the company (oil)**

Other: Kinder Morgan

**PRODUCED WATER**

**Production Rate - Produced Water**

16,370.01

**Units (in barrels per unit of time)**

BBL/day

**Does this facility have pipeline produced water disposal?**

No

**ASSOCIATED GAS**

**Production Rate - Gas**

38,316.76

**Production Rate Units (in thousand standard cubic feet per unit of time)**

Mscf/day

**Anticipated Flare Rate - Gas**

517,000.0

**Anticipated Flare Rate Units (in thousand standard cubic feet per unit of time)**

Mscf/year

**Does this facility have pipeline gas sales?**

Yes

**Provide the name of the company (gas)**

OneOK Rockies Midstream, LLC

**CONTROL DEVICES**

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**Does this facility have Department approval for and use a 99.5% DRE combustor?**

No

**Does this facility have Department approval for and use a 99% DRE flare?**

No

**Does this facility have and use a 98% DRE flare?**

Yes

**EMISSION UNITS**

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List the process equipment on site including their operating parameters. These values may be used as inputs for a process simulation model. If you are uploading PSM files, you do not need to fill out this table.

Please specify the normal operating pressures and temperatures of the processing equipment located at the facility. If more than one of the same equipment is on site, you may group them together but list the units in the EU No. field.

Example: Tanks 1-6, would represent 6 tanks.

If process equipment has a control device, list the Emission Unit for the control device to cross-reference.

Example: Crude Oil Storage Tanks, list the number of tanks and the operating temp and pressure for the tanks, not of the control device.

**Are you uploading Process Simulation files to this form?**

Yes

**Process Simulation Upload**

- [HACK Pad-ProMax.pdf - 09/11/2025 08:25 AM](#)
- [2025-09-09 Hack Water Tank W&B.pdf - 09/11/2025 08:28 AM](#)
- [2025-09-09 Hack Oil Tank W&B.pdf - 09/11/2025 08:29 AM](#)

**Comment**

NONE PROVIDED

**Section F - Gas Analysis - High Pressure Gas**

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**Sample Collection Information**

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**Sample Site OGR Number or NDIC Number**

34918

**Sample ID Number**

172-23060226-001A

**Sample Method**

Other: See attached analysis

**Sampled Date**

06/21/2023

**Lab Analysis Information**

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**Analysis Method**

GPA-2286

**Analysis Date**

06/22/2023

**Average Gas Molecular Weight**

24.50

**Higher Heating Value (HHV) in BTU/scf @ 14.73 PSIA**

1,432.0

**Lower Heating Value (LHV) in BTU/scf @ 14.73 PSIA**

1,407.0

**% Weight Total VOC (non-methane, non-ethane)**

31.77

**% Weight Total HAPs**

0.72

**Is this a dry gas analysis?**

No

**Gas Component Results****High Pressure Gas Analysis Results**

Component	% Weight
Methane	41.6600
Ethane	23.7800
Propane	16.4400
Combined Butanes	8.1600
5+ Carbons	7.1700
Hydrogen Sulfide (H2S)	0.0045
	Sum: 97.2145

**Attach Certified Lab Analysis**
[2023-06-21 Christiana 21X Roxy 21X6 CTB - Gas Analysis.pdf - 10/28/2024 02:43 PM](#)
**Comment**

NONE PROVIDED

**Section G - Gas Analysis - Low Pressure/Flash Gas****Process Simulation Model utilized to calculate flash gas?**

Yes

**Gas Component Results**

Components supplied in certified lab analysis or in process simulation files will be used in calculating/verifying emissions. Information in this table will be used for general trending across all registrations.

**Low Pressure/Flash Gas Analysis Results**

Component	% Weight
Methane	11.7600
Ethane	28.2500
Propane	26.2400
Combined Butanes	18.4000
5+ Carbons	14.4900

Component	% Weight
Hydrogen Sulfide (H2S)	0.0000
	Sum: 99.1400

## Section H - Oil Properties

### API Gravity @ 60F

56.66

### True Vapor Pressure @ 100F, PSIA

23.70

### Reid Vapor Pressure (RVP)

10.7

## Section I - Additional Registration Information

Attach any additional information relevant to the operations at the facility in support of this registration.

[2023-06-21 Christiana 21X Roxy 21X6 CTB - Liquid Analysis.pdf - 10/28/2024 02:44 PM](#)

### Comment

NONE PROVIDED

## Section J - Title V Application

Do you wish to upload a Title V Permit to Operate Application to this Registration?

No

Have you previously submitted a Title V Permit to Operate Application that you would like to request be rescinded?

No

## Submittal of Facility Registration Application

### Additional Requirements

#### Submittal of Facility Registration Application

This facility MAY BE subject to additional requirements per North Dakota Air Pollution Control Rules and federal rules. Please review the following items, as one or more may apply to this facility.







#### Initial Construction and Operation

Construction and operation of the facility (with respect to sources of air pollution) shall be in accordance with information provided to the Department 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. Approval to construct and operate may be suspended or revoked if the Department determines that a significant deviation from the plans, specifications, and/or emissions calculations furnished has been made or is to be made.

### State Rules

#### North Dakota Air Pollution Control Rules

The North Dakota Century Code (NDCC) Title 23.1 can be located at <https://www.legis.nd.gov/cencode/t23-1c06.html>. The North Dakota Administrative Code (NDAC) can be located at <https://www.legis.nd.gov/information/acdata/html/33.1-15.html>.

1. NDCC 23.1-06  Air Pollution Control
2. NDAC 33.1-15-01  General Provisions
3. NDAC 33.1-15-02  Ambient Air Standards
4. NDAC 33.1-15-03  Restriction of Emission of Visible Air Contaminants
5. NDAC 33.1-15-06  Emissions of Sulfur Compounds Restricted
6. NDAC 33.1-15-07  Control of Organic Compounds Emissions

## 7. NDAC 33.1-15-12 ♦ Standards of Performance for New Stationary Sources

- a. 40 CFR 60, Subpart III ♦ Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- b. 40 CFR 60, Subpart JJJJ ♦ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
- c. 40 CFR 60, Subpart OOOO ♦ Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after August 23, 2011, and on or before September 18, 2015
- d. 40 CFR 60, Subpart OOOOa ♦ Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015

## 8. NDAC 33.1-15-13 ♦ Emission Standards for Hazardous Air Pollutants

9. NDAC 33.1-15-14 ♦ Designated Air Contaminant Sources, Permit to Construct, Minor Source Permit to Operate, Title V Permit to Operate
10. NDAC 33.1-15-15 ♦ Prevention of Significant Deterioration of Air Quality
11. NDAC 33.1-15-16 ♦ Restriction of Odorous Air Contaminants
12. NDAC 33.1-15-17 ♦ Restriction of Fugitive Emissions
13. NDAC 33.1-15-20 ♦ Control of Emissions from Oil and Gas Well Production Facilities
14. NDAC 33.1-15-22 ♦ Emission Standards for Hazardous Air Pollutants for Source Categories
15. NDAC 33.1-15-23 ♦ Fees

## Federal Rules

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### Federal Rules

The Code of Federal Regulations (CFR) can be located at <https://www.ecfr.gov/>

1. 40 CFR 63, Subpart ZZZZ ♦ National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Note: This rule has not been adopted for area sources by the North Dakota Department of Environmental Quality and correspondence should be sent to the Region 8 EPA office.)

## Potential to Emit Exceeds 100 tons per year (Title V Air Operating Permit Requirements)

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If the 12-month rolling total of emissions from your facility have the potential to exceed 100 tons per year of any criteria pollutant or ten tons per year of any single hazardous air pollutant, your facility is subject to the following requirements:

1. By the 15th day of each month, emissions from the facility (including VOCs, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub>, and HAPs) shall be calculated and recorded for the previous month and for the previous 12-month period (12-month rolling sum). If the calculation methodology is not adequately justified (e.g. emission factors are not approved by the Department, etc.), the Department will recalculate emissions using the best available information.
2. The owner/operator shall submit the emissions calculations for the facility to the Department within 30 days of the end of the calendar quarter for the previous calendar quarter. The Department will review the data to determine if issuance of a Title V permit for the facility is warranted. Before the Department determines that a Title V permit is appropriate for the facility, it will be necessary for you to demonstrate that all practicable efforts have been made to collect the produced gas during normal operation.
3. If a change is made at the site (e.g. additional sales capacity, installation of additional control equipment, etc.) that changes the calculated potential to emit for the facility, then potential emissions from the facility shall be recalculated and submitted to the Department within 30 days of the change.
4. The Department does not consider the flaring of produced gas to be indicative of ♦normal♦ operation as this gas is a valuable, nonrenewable resource that should be collected, processed, and utilized in a responsible manner for the benefit of the citizens of the state. Therefore, with the above-referenced quarterly report, a schedule for the development of the necessary infrastructure to collect, process, and utilize the produced gas shall be submitted.

## Questions

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Note that the above-referenced conditions address only air quality requirements that may be applicable to your facility. Other divisions (Water Quality, Waste Management and Municipal Facilities) within the Department of Environmental Quality may have additional requirements. Contact information for the various divisions can be found on [deq.nd.gov](http://deq.nd.gov).

Please contact Wyatt Peterson at (701) 328-5184 or [wyatt.peterson@nd.gov](mailto:wyatt.peterson@nd.gov) with any questions.

REMEMBER to Add Users to this NEW Site so they can have access to this Site when they login. Authorized Users>Invite Users

**Total Fee Due**

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Total Fees due for new well heads and permit to construct application.

**Total Fee Due**

1,500.0

**Revisions**

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<b>Revision</b>	<b>Revision Date</b>	<b>Revision By</b>
Revision 1	10/28/2024 2:22 PM	Jessica Hinson
Revision 2	9/11/2025 8:14 AM	Jessica Hinson