



**Section D – Facility/Site Information:**

**1. Provide the Facility Information**

Facility Name \_\_\_\_\_  
Location (Physical address or Directions) \_\_\_\_\_  
Nearest City or Town, Zip Code, County \_\_\_\_\_  
Facility Latitude, Longitude \_\_\_\_\_, \_\_\_\_\_  
Located Within Indian Country  No  Yes (*If yes, obtain the permit through EPA, not DEQ*)

**2. Standard Industrial Classification (SIC) Codes:** Provide at least one SIC and one NAICS code which best reflects the products or services provided by the facility or site described in Section C.

SIC Code	Description
(1)	
(2)	

NAICS Code	Description
(1)	
(2)	

**Section E – Facility Description:**

**1. Select the nature of the proposed operation:**

- Produced water from oil and gas operations
- Produced water from coal bed natural gas operations (*if selected, apply for individual permit coverage*)

**2. Describe the proposed operation:**

Total discharge rate (gallons per minute) \_\_\_\_\_ gpm  
Continuous or Intermittent  Continuous  Intermittent (Explain) \_\_\_\_\_  
Identify the source of the produced water \_\_\_\_\_  
Describe the treatment process \_\_\_\_\_  
\_\_\_\_\_

**3. Attach a facility design diagram, adhering to the following requirements:**

- Detail the layout of the facility, treatment processes, and movement of produced water through the facility
- Identify each outfall location and where effluent monitoring will take place after treatment and before entering the constructed impoundment or ephemeral drainage.

**4. Attach a map of the area, adhering to the following requirements:**

- Topographic map extending at least one mile beyond property boundaries of the site of the operation
- Illustrate the operation boundaries, receiving water, and major drainage patterns
- If discharging to an impoundment, indicate the boundaries and area (acres) of the impoundment

**5. Chemical and Additive Disclosure:** Does any part of the facility or lease use chemicals or additives?

- Yes. Attach a list of all chemicals and additives used at all leases and facilities that discharge produced wastewater: all product names, recommended uses, manufacturer, and Safety Data Sheet (SDS). A (SDS) is acceptable for submission if it contains the required information.
- No. No additional information is required.

**6. Stream Classification:** Is the stream classified as A-1, A-Closed? (See ARM 17.30.601-670).  Yes  No



**3. Select the type of discharge that describes your proposed operation, and provide the corresponding information:**

This operation (either a new or existing source) discharges to an ephemeral drainage with no impoundment:

Nearest downstream perennial waterbody \_\_\_\_\_

Distance to nearest downstream intermittent or perennial waterbody \_\_\_\_\_ miles

Selecting this option certifies that discharge will not reach waters of the United States. Facilities with discharge that will reach waters of the United States should apply for individual permit coverage. Skip to Section H.

This operation (either a new or existing source) discharges to an impoundment: Complete Section F.4 and G below.

**4. Provide the area, depth, and volume of the impoundment.** If this is an existing operation, provide the impoundment's actual area and depth. If this is a new operation, use Appendix A to estimate the minimum area and depth needed to contain the acre-ft of discharge (See Section F.4 of the Instructions for more guidance).

Impoundment depth: \_\_\_\_\_ feet

Impoundment area: \_\_\_\_\_ acres

**Impoundment volume:** \_\_\_\_\_ ft × \_\_\_\_\_ acres = \_\_\_\_\_ **acre-ft impoundment**

**Section G – Produced Water Storage Capacity Self-Evaluation:** Permittees discharging to an impoundment must be able to demonstrate capacity to contain the produced water in the impoundment. Refer to Section G of the Instructions for guidance on completing this section.

**1. Convert the local annual average precipitation to volume in acre-ft.**

a. Average annual precipitation: \_\_\_\_\_ in ÷ 12 in/ft = \_\_\_\_\_ ft

b. Annual precipitation volume: \_\_\_\_\_ ft × \_\_\_\_\_ impoundment acres = \_\_\_\_\_ **acre-ft precipitation**

**2. Determine annual Class A pan evaporation loss in volume:** Use Appendix B to determine the Class A pan evaporation for your area.

a. Annual Evaporation (Appendix B): \_\_\_\_\_ in ÷ 12 in/ft × 0.7 = \_\_\_\_\_ ft

b. Evaporation Volume: \_\_\_\_\_ ft × \_\_\_\_\_ impoundment acres = \_\_\_\_\_ **acre-ft evaporation**

**3. Complete the water balance calculation to determine the required annual storage volume:**

discharge volume + precipitation volume - evaporation volume = required annual storage volume  
\_\_\_\_\_ acre-ft + \_\_\_\_\_ acre-ft - \_\_\_\_\_ acre-ft = \_\_\_\_\_ **acre-ft storage**

**4. Certify that the impoundment storage capacity is adequate to contain the produced water discharge** by comparing the impoundment volume (from Section F.4) to the required annual storage volume (from Section G.3).

The impoundment volume (\_\_\_\_\_ acre-ft/yr) is greater than the required annual storage volume (\_\_\_\_\_ acre-ft/yr)

The impoundment volume is not adequate to contain the produced water discharge. (Contact DEQ about permit coverage)

**Section H – Water Quality Analysis for Wildlife and Livestock Drinking Water:** The General Permit authorizes discharge of produced water for beneficial use only.

**1. Attach a water quality analysis of the proposed discharge meeting the criteria for livestock and wildlife drinking water in the table below.**

Livestock and Wildlife Drinking Water Criteria. Water quality of discharge must not exceed these values							
Parameter <sup>(1)(2)</sup>	Units	RRV <sup>(3)</sup>	Criteria <sup>(4)</sup>	Parameter <sup>(1)(2)</sup>	Units	RRV <sup>(3)</sup>	Criteria <sup>(4)</sup>
Electrical Conductivity	µS/cm <sup>(5)</sup>	1	8000	Copper <sup>(6)</sup>	µg/L	2	500
Total Dissolved Solids	mg/L	5	5000	Fluoride	µg/L	200	2000
Oil and Grease	mg/L	1	10	Lead <sup>(6)</sup>	µg/L	0.3	100
pH	s.u.	0.1	6.0 – 9.0	Nitrate as N	mg/L	0.02	100
Arsenic <sup>(6)</sup>	µg/L	1	500	Nitrite as N	mg/L	0.01	10
Cadmium <sup>(6)</sup>	µg/L	0.03	80	Selenium <sup>(6)</sup>	µg/L	1	50
Chromium <sup>(6)</sup>	µg/L	10	1000	Sulfate	mg/L	100	2500
Cobalt <sup>(6)</sup>	µg/L	50	1000	Zinc <sup>(6)</sup>	mg/L	0.008	25

(1) Sample type for all parameters is grab. See Definition section at the end of the permit for explanation of terms.  
 (2) Analysis for all parameters must be done in accordance with EPA test procedures (40 CFR Part 136).  
 (3) Required Reporting Value. If a parameter is reported as not detected, then RRVs or lower must be achieved.  
 (4) If the proposed discharged produced water does not meet drinking water quality criteria, applicants will be ineligible for permit coverage.  
 (5) microSiemens/cm  
 (6) All metals must be based on the analysis of samples following a “total recoverable” digestion procedure.

**2. Certify that the proposed produced water discharge meets water quality requirements and will be put to beneficial use of providing drinking water for livestock and wildlife.**

- The proposed produced water discharge meets water quality requirements in the General Permit and the table above.
- The proposed discharge from this operation will be put to beneficial use for drinking water for livestock and wildlife.

**Section I – Certification**

**The is form must be completed, signed, and certified as follows:**

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner of the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

**All applicants must complete the following Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA].

***Certification of this form indicates conformance with the Produced Water General Permit***

Name (Type or Print)	
Title (Type or Print)	Phone Number
Signature	Date Signed