

**BIG BEND GROUNDWATER MANAGEMENT DISTRICT NO. 5**

125 S. Main  
Stafford, Kansas 67578  
(620) 234-5352 Fax (620) 234-5718

**FORM CP-10**  
**APPLICATION FOR PERMIT TO DRILL AND CONSTRUCT**  
**A CASED CATHODIC PROTECTION BOREHOLE**  
*Referencing Kansas Corporation Commission Regulations*  
*K.A.R. 82-3-700 through K.A.R. 82-3-710*

**Permit Application Number CPB-\_\_\_\_\_**

**To the Big Bend Groundwater Management District No. 5:**

Applicant: \_\_\_\_\_

Address: \_\_\_\_\_  
(P.O. Box or Street) (City) (State) (Zip Code)

Telephone: \_\_\_\_\_  
(Area Code) (Telephone)

Application to the Big Bend Groundwater Management District No. 5 for a permit to drill and construct a cathodic protection borehole in and through the Big Bend aquifer in the county of \_\_\_\_\_, state of Kansas, to the extent and in accordance with the following:

1. The location of the proposed cathodic protection borehole is in the \_\_\_\_ quarter of the \_\_\_\_ quarter of the \_\_\_\_ quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ south, Range \_\_\_\_\_ west and more particularly described as being near a point \_\_\_\_ feet north and \_\_\_\_ feet west of the apparent southeast corner of said section.
2. The proposed use of the cathodic protection borehole is to provide cathodic protection of the applicant's \_\_\_\_\_ facility from electrochemical corrosion.
3. The land surface elevation is \_\_\_\_ feet above mean sea level and the method of measurement used was (a) surveyed, (b) topographic map or (c) other \_\_\_\_\_.
4. The depth to surface or top of bedrock or shale is \_\_\_\_ feet below land surface (bls).
5. The depth to the water table of the fresh water aquifer is \_\_\_\_ feet bls.
6. Aquifer salinity as indicated by chloride concentration is \_\_\_\_ mg/L and was determined by: (a) published report, (b) test well data, or (c) other \_\_\_\_\_.
7. The total depth of the cathodic protection borehole is \_\_\_\_ feet bls.
8. A non metallic surface casing equipped with centralizers will be installed in the surface casing borehole when drilling has penetrated \_\_\_\_ feet bls, which is a minimum of 20 feet below bedrock or shale surface as listed in paragraph #4.
9. Casing centralizers will be installed on the surface casing beginning at the surface casing's total depth and at 40 feet intervals along the complete length of the surface

casing at depths of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ feet bls.

10. The diameter of the surface casing borehole will be a minimum of six inches larger than the outside diameter of the surface casing. The diameter of the borehole containing the surface casing will be \_\_\_\_\_ inches and the outside diameter of the surface casing will be \_\_\_\_\_ inches.
11. The standard dimension ratio (SDR) of the surface casing calculated by dividing the surface casing's outside diameter (OD) of \_\_\_\_\_ inches by its minimum wall thickness (MWT) of \_\_\_\_\_ inches equals \_\_\_\_\_.
12. A pitless surface casing adapter will be installed in the surface casing \_\_\_\_\_ feet bls.
13. The annular space between the surface casing and the borehole will be grouted using: (a) cement, (b) neat cement, (c) bentonite clay grout, (d) bentonite cement or (e) other \_\_\_\_\_ from a total surface casing depth of \_\_\_\_\_ feet bls to \_\_\_\_\_ feet bls.
14. The top of the surface casing will be fitted with a watertight cap and will: (a) terminate \_\_\_\_\_ feet above land surface, (b) terminate in a water resistant and structurally sound vault \_\_\_\_\_ feet bls or (c) be buried \_\_\_\_\_ feet bls.
15. The anodes will be installed beginning at a depth of \_\_\_\_\_ feet bls to a total depth of \_\_\_\_\_ feet bls.
16. Anode conductor (backfill) material will be installed beginning at a depth of \_\_\_\_\_ feet bls to a total depth of \_\_\_\_\_ feet bls.
17. An anode vent pipe will be installed and completed \_\_\_\_\_ feet above land surface.
18. A concrete base or pad will / will not be constructed around the above ground surface casing or vault.
19. Will the use of a drilling pit threaten to contaminate fresh and usable groundwater?  
Yes No. If Yes complete sections (a) and (b).
  - (a) The pit will be: (i) constructed so that the bottom and sides have a hydraulic conductivity no greater than  $1 \times 10^{-7}$  cm/sec., (ii) constructed above ground, or (iii) a portable above ground tank, and
  - (b) The applicant has submitted a surface pond application to the Director, Conservation Division, Kansas Corporation Commission. Yes No.
20. Has the applicant filed a completed Form KSONA-1 and plat map with this application? Yes No.
21. Does the Form KSONA-1 indicate that the applicant has provided the surface owner with a copy of this application, including the Form KSONA-1 and plat map?  
Yes No.
22. A construction plan is submitted with the application and shows or illustrates the information contained in paragraphs #4 through #18.
23. The cathodic protection borehole will be abandoned and plugged if it: (a) is not completed due to unforeseen circumstances, (b) either contaminates or threatens to contaminate a fresh water aquifer, (c) encounters uncontrollable artesian flow, (d)

has exhausted its anodes and replacement anodes are not installed within one year, or (e) has not been used for one year and the applicant does not demonstrate intentions to use it.

24. The applicant understands and agrees to comply with K.A.R. 82-3-700 through 82-3-710. Further, the applicant may request an exception to these regulations pursuant to K.A.R. 82-3-100(b).

25. Dated at \_\_\_\_\_, Kansas, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
(Applicant)

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

**APPLICANT DO NOT CONTINUE BELOW DOUBLE LINE**  
**For Big Bend Groundwater Management District #5 Use**

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1) Application received on \_\_\_\_ / \_\_\_\_ / \_\_\_\_.

2) Application review by \_\_\_\_\_

\_\_\_\_\_  
(Title)

3) The application is hereby denied. The denial was based on the following findings:

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4) The application meets or exceeds Cathodic Regulations K.A.R. 82-3-700 through K.A.R. 82-3-710 and is hereby approved by the Big Bend Groundwater Management District No. 5 this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Orrin Feril, Manager  
Big Bend Groundwater Management District No. 5