

KCLAPI (4-21-2005)
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GMD5-REV.
2005

BIG BEND GROUNDWATER MANAGEMENT DISTRICT NO. 5

125 S. Main Stafford, Kansas 67578 (620) 234-5352 Fax (620) 234-6166

FORM CP-15

**APPLICATION FOR PERMIT TO DRILL AND CONSTRUCT
AN UNCASSED 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 Hayse Management Services for Aquila
Address PO Box 107 Mullinville Ks 67109
(P.O. Box or Street) (City) (State) (Zip Code)
Telephone No. 620-548-2369
(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 Rice, State of Kansas, to the extent and in accordance with the following:

1. The location of the proposed cathodic protection borehole is in the SW quarter of the NE quarter of the SE quarter of Section 21, Township 21, south, Range 8 (west/east) and more particularly described as being near a point _____ feet north and _____ feet west of the apparent southeast corner of said section. (In alley 50' south of Monroe St. Between 2nd and 3rd Streets)
2. The proposed use of the cathodic protection borehole is to provide cathodic protection of the applicant's gas distribution main facility from electrochemical corrosion.
3. The land surface elevation is 1638 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 100'± feet below land surface.
5. The depth to the water table of the fresh water aquifer is 108'± feet below land surface. (8'± SF, GMD)
6. Aquifer salinity as indicated by chloride concentration is 28.7 mg/L and was determined by: (a) published report, (b) test well data, or (c) other Sample from well in Sterling.
7. The total depth of the cathodic protection borehole will not penetrate the bedrock surface and will be completed 100'± feet below land surface.
8. The diameter of the uncased cathodic protection borehole will be a minimum of 8 inches.
9. Non toxic anodes that meet or exceed the American Water Works Association standards for use in public water supply systems and adopted through K.A.R. 82-3-707 will be installed beginning at a depth of 16 feet below land surface to a total depth of 95 feet below land surface.

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Base FW = 120
Base Usable = 180

10. Anode conductor grout that is certified by the National Sanitation Foundation to meet the American National Standards Institute Standard 60 for use in drinking water treatment chemicals and adopted through K.A.R. 82-3-707 will be installed beginning at a depth of 10 feet below land surface.
11. The uncased borehole from the top of the anode conductor grout will be grouted with: (a) neat cement, (b) cement, (c) bentonite clay grout, (d) bentonite cement, or (e) other _____, from a total depth of 10 feet below land surface to 3 feet below land surface.
12. The grouted uncased borehole will be backfilled with clean compacted topsoil from 3 feet below land surface to 0 feet above land surface.
13. Will the use of a drilling pit threaten to contaminate fresh and usable groundwater?
_____ Yes X No. If Yes, complete sections (a) and (b). Circle one: (a) the pit will be: (i) constructed so that the bottom and side have a hydraulic conductivity no greater than 1×10^{-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.
14. A construction plan is submitted with the application and shows or illustrates the information contained in paragraphs #4 through #12.
15. 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.
16. 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).
17. Dated at Mullinville, Kansas, this 3 day of April, 2005.

Hayse Management Services
(Applicant)
By Debra W. Hayse
(Signature)
Superintendent
(Title)

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