

313 Spruce Street Halstead, Kansas 67056 (316) 835-2224

#99976

APPLICATION FOR PERMIT TO DRILL AND CONSTRUCT AN UNCASSED CATHODIC PROTECTION BOREHOLE

Permit Application Number CPB-52

_____ PO Box 107 _____ Mullinville _____ Kansas _____ 67109
(P.O. Box or Street) (City) (State) (Zip Code)
Telephone No. _____ 620 _____ 548-2369 _____
(Area Code) (Telephone)

1. The location of the proposed cathodic protection borehole is in the SW quarter of the SW quarter of the NW quarter of Section 10, Township 22, south, Range 7 west and more particularly described as being near a point _____ feet north and _____ feet west of the apparent southeast corner of said section. (40 ft east & 25 ft north from the corner of Morgan & Nickerson Blvd, Nickerson, Ks)
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 1590 feet above mean sea level and the method of measurement used was (b) topographic map _____.
4. The depth to surface or top of bedrock or shale is 65 +/- feet below land surface.
5. The depth to the water table of the fresh water aquifer is 10 feet below land surface.
6. Aquifer salinity as indicated by chloride concentration is 250 mg/L and was determined by (a) published report, _____.
7. The total depth of the cathodic protection borehole will not penetrate the bedrock surface and will be completed 65 +/- feet below land surface.
8. The diameter of the uncased cathodic protection borehole will be a minimum of 8 inches.

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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 10 feet below land surface to a total depth of 65 feet below land surface. 20 * per Dale Hayse 8-11-06 T. Boone
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 (c) bentonite clay grout 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 is aware that the Equus Beds Groundwater Management District No. 2 has adopted a policy that establishes minimum standards to drill, construct and abandon cathodic protection boreholes and agrees to comply with the adopted standard and policy. Further, the applicant may, pursuant to District policy D.S.P. 9007.1 appeal these standards and request a waiver of an adopted standard.
17. Dated at Mullinville, Kansas, this 5 day of July, 2006.

Hayse Management Services
(Applicant)

By Dale W. Hayse
(Signature)

Supervisor
(Title)

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APPLICANT DO NOT CONTINUE BELOW DOUBLE LINE**For Equus Beds Groundwater Management District Use**1) Application received on 7/18/06.2) Application review by Tim BoeseInterim Manager / Hydro
(Title)

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

4) The application meets or exceeds the Cathodic Protection Borehole standard and policy 9107.1 and is hereby approved by the Equus Beds Groundwater Management District No. 2 this 11 day of August, 2006.Tim BoeseManager
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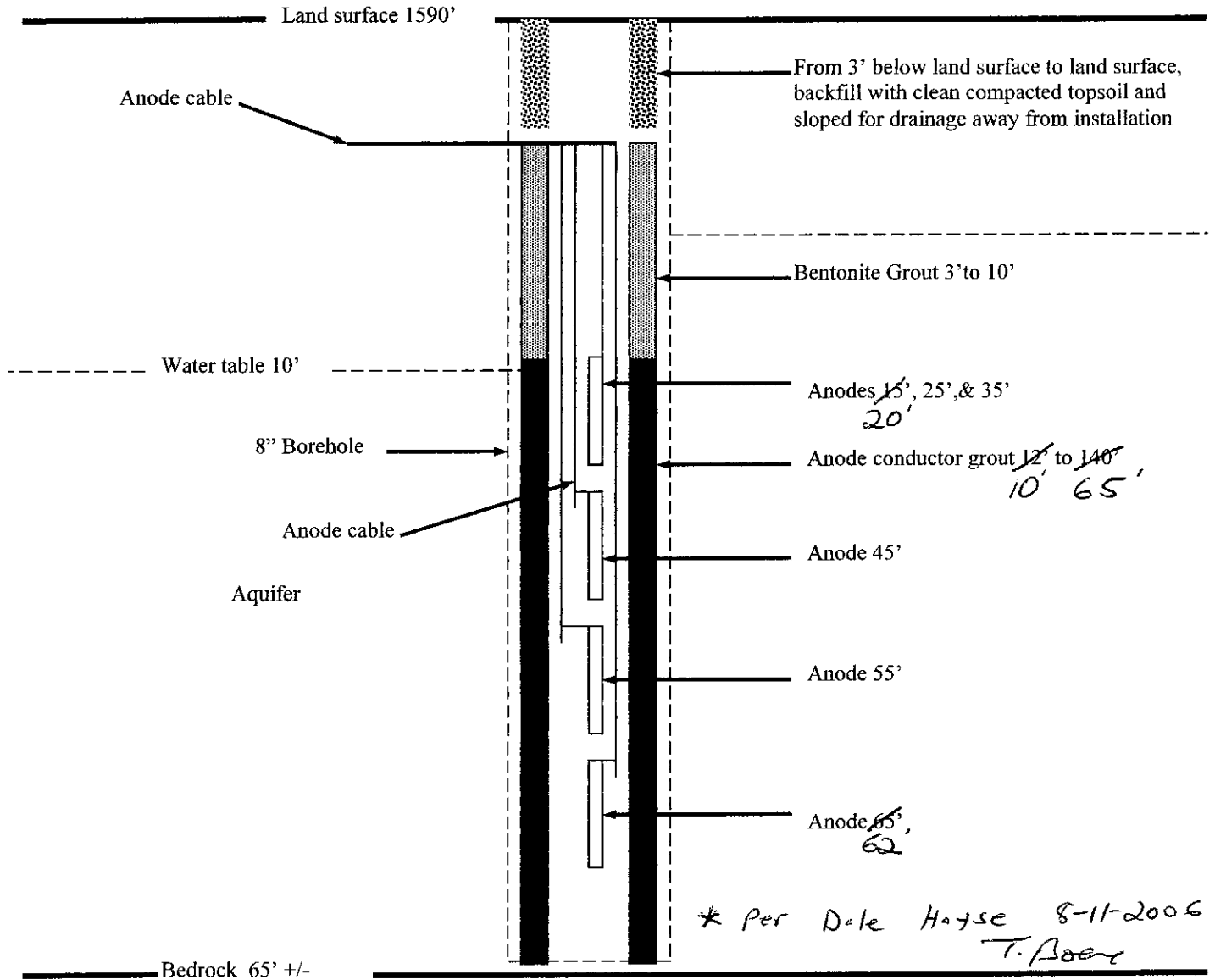
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CATHODIC PROTECTION BOREHOLE ILLUSTRATION

Aquila

Nickerson, Kansas

Uncased Borehole Construction Features



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BOB SEILER, PRESIDENT
FRANK HARPER, VICE PRESIDENT
DAVID STROBERG, SECRETARY
LARRY JACOB, TREASURER
TIM BOESE, INTERIM MANAGER
THOMAS A. ADRIAN, ATTORNEY



15-153-21515-0000

DIRECTORS:
DENNIS GRUENBACHER
KIRK LARSON
FRED SEILER
NADINE STANNARD
DAVID WARREN

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

313 SPRUCE STREET • HALSTEAD, KANSAS 67056-1925 • VOICE (316) 835-2224 • FAX (316) 835-2225 • equusbed@ink.org
August 11, 2006

Dale Hayse
Hayse Management Services
PO Box 107
Mullinville, Kansas 67109

Re: Application No. CPB 52 -- Aquila

Dear Mr. Hayse:

The Equus Beds Groundwater Management District No. 2 reviewed the referenced application, August 11, 2006, using the District's Revised Management Program (effective May 1, 1995) and rules and regulations K.A.R. 82-3-700, K.A.R. 82-3-705 through K.A.R. 82-3-710.

During the review the applicant's agent requested the following modifications be made to the application: 1) paragraph #9 change to anodes beginning at 20' bls and change anodes to a total depth of 62' bls, and 2) change the illustration to reflect the application parameters.

Based on the review, the application, as modified, complied with the Cathodic Protection regulations and the Revised Management Program and is hereby **approved** by the Equus Beds Groundwater Management District No. 2.

Please notify the District 72 hours before drilling and constructing the cathodic protection borehole.

Thank you for your cooperation and assistance in protecting our groundwater resources from contamination.

Sincerely,
EQUUS BEDS GROUNDWATER
MANAGEMENT DISTRICT NO. 2

Tim Boese
Interim Manager

Enclosure
TDB/db

pc: Morris Korphage, Kansas Corporation Commission

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