KCC District 2 KCC API# 15-155-21532-0000 108 ft
Lease: CPB #60 CB-1 GMD2 99976

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

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

FORM CP-15
APPLICATION FOR PERMIT TO DRILL AND CONSTRUCT AN UNCASED CATHODIC PROTECTION BOREHOLE

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NOV 07 2007

Equus Beds Groundwater Management District No. 2

Permit Application Number CPB-60

To the Equus Beds Groundwater Management District No. 2:

Comes now the Applicant Hayse Management Services for Aquila
Whose Address is
PO Box 107 (P.O. Box or Street) Mullinville (City) Kansas (State) 67109 (Zip Code)
Telephone No. 620 (Area Code) 548-2369 (Telephone)

And makes application to the Equus Beds Groundwater Management District No. 2 for a permit to drill and construct a cathodic protection borehole in and through the Equus Beds aquifer in the county of Reno, State of Kansas, to the extent and in accordance with the following:

1. The location of the proposed cathodic protection borehole is in the NW quarter of the NW quarter of the NW quarter of Section 14, Township 23, south, Range 6 west and more particularly described as being near a point 5145 feet north and 5240 feet west of the apparent southeast corner of said section. (100ft south, 25 ft east of center line from the corner of 4th & Hendricks, Hutchinson, 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 1536 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 ~~70~~ 75 TOB per Dale Hayse 11-13-07 feet below land surface.

5. The depth to the water table of the fresh water aquifer is 12 feet below land surface.

6. Aquifer salinity as indicated by chloride concentration is 145 mg/L and was determined by: (b) test well data.

7. The total depth of the cathodic protection borehole will not penetrate the bedrock surface and will be completed ~~70~~+/- feet below land surface.
75 TOB per Dale Hayse 11-13-07

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 __25____ feet below land surface to a total depth of ___70___ feet below land surface.

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. to a total depth of 75 feet below land surface TDA per Dale Hayse 11-13-07

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 x 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~~ Regulations TDA 11-13-07 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 __8____ day of _October_, 2007____.

_____Hayse Management Services____
(Applicant)

By _____
(Signature)

_____Supervisor_____
(Title)

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Equus Beds Groundwater Management District No. 2

EBGWMD2 Form -CP-15

APPLICANT - DO NOT CONTINUE BELOW DOUBLE LINE

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For Equus Beds Groundwater Management District Use

1) Application received on 11/7/07.

2) Application review by Tim Boese

Manager
(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 K.A.R. 82-3-700 and K.A.R. 82-3-705 through K.A.R. 82-3-710 and is hereby approved by Board of Directors, Equus Beds Groundwater Management District No. 2 this 13 day of November, 20 07.

Tim Boese

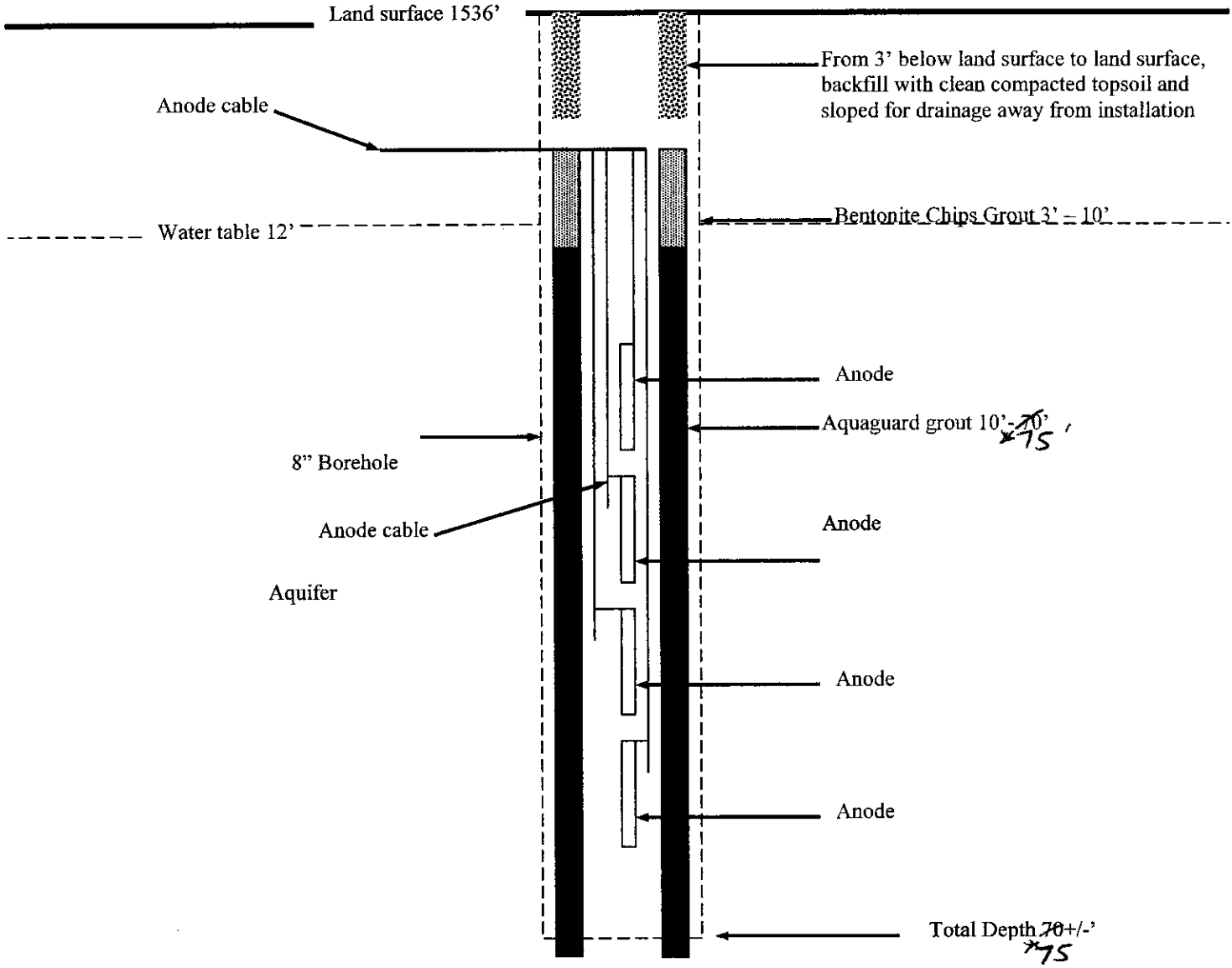
Equus Beds Groundwater Management District No. 2

EQUUS GROUNDWATER MANAGEMENT DISTRICT NO. 2

CATHODIC PROTECTION BOREHOLE ILLUSTRATION

Uncased Borehole Construction Features

Aquila
4th & Hendricks
Hutchinson, Reno County, Kansas
October, 2007



* TDS per D.le Hyde 11-13-07

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

313 SPRUCE STREET • HALSTEAD, KANSAS 67056-1925 • PHONE (316) 835-2224 • FAX (316) 835-2225 • equusbeds@gmd2.org • www.gmd2.org

November 13, 2007

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

Re: Application Nos. CPB-57, CPB-58, CPB-59, CPB-60 – Aquila Gas Distribution Main

Dear Mr. Hayse:

The Equus Beds Groundwater Management District No. 2 reviewed the referenced applications, November 13, 2007, 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 requested the following modifications be made to each application: 1) paragraph #4 change the depth to top of bedrock/shale to 75 feet below land surface, 2) paragraph #7 change the borehole completion depth to 75 feet below land surface, 3) paragraph #10 change to anode conductor grout (Aquagard) being installed from 10 feet below land surface to total borehole depth of 75 feet below land surface, and 4) change the illustration to reflect the application parameters.

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

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

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

Sincerely,
EQUUS BEDS GROUNDWATER
MANAGEMENT DISTRICT NO. 2

Tim Boese

Tim Boese
Manager

TDB/db

Enclosures

pc: Doug Louis, Kansas Corporation Commission

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