## EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2 99976

		COCC BESC C.	e Street Halstead, Ka	onege 67056 (316	3) 835-2224	
15-1	~	313 Spruce 2/560-00-00	3 Street Haisteau, N	alisas 07000 (010	7) 000-222 1	
10 1		2-2010	FORM	CP-15		
	<i>7-1</i>	APPLICAT	ION FOR PERMIT	TO DRILL AND CO	ONSTRUCT	
CPI	B	# 65 APPLICAT AN UNC	ASED CATHODIC	PROTECTION BO	REHOLE	
		P	Permit Application I	Number CPB- <u>Ψ</u> 7	<del></del>	
	T- 4	the Equus Beds Groui	ndwater Manageme	ent District No. 2:		
	Cor	nes now the Applicant	Hayse Managemer	<u>it Services for Blac</u>	khills Corp.	
	Wh	ose Address is				67100
		PO Box 107(P.O. Box or Street)	Mullinville		sas	(Zip Code)
	Tal	(P.O. Box or Street) ephone No620	. (City) 548-2369	(Gla	(e)	(Zip 0000)
	ı ele	eprione Noozo Area (	Code) (Tele	phone)		
					aomont Dietri	et No. 2 for a
	And	I makes application to mit to drill and constru	the Equus Beas C	ston horebole in a	nd through th	e Equus Beds
	per	mit to drill and constru- lifer in the county of	Reno Reno	State of Ka	nsas. to the	extent and in
	200	ordance with the follow	rina:			
	acc	The location of the pro-			in the NE	guarter of the
	1.	The location of the pro ✓ <b>_₩</b> Ĕ quarter of th	posed cathodic prote	ection porenole is i	Townshin	23 south
TBoere	N	✓ME quarter of the Range6_ west and	t more particularly d	escribed as being	, rownship near a point	5230 feet
per per		north and 13801740	feet west of the ac	parent southeast	corner of said	section. (80 ft
TBoere LMDI Per Dike Hayse		west 50 ft south from t	the corner of 4 <sup>th</sup> & W	estland, Hutchinso	on, Ks) #2	
						in mustastian of
	2.	The proposed use of t	the cathodic protecti	on borehole is to p	rovide cathod	rosion
		the applicant'sGas	Distribution Main	_ facility from elect	rochennear co	11031011.
	3	The land surface ele	75 1536 fe	eet above mean s	ea level and	the method of
	J.	measurement used wa	as (b) topographic m	nap	- <u></u> -	
	4.	The depth to surface	or top of bedrock or	shale is _65 +/	feet below lan	d surface.
	-	The depth to the water	or table of the fresh v	vater aquifer is 1	12 feet below	land surface.
	5.	The depth to the water	H (able of the fresh v	valer additor is	12_1001 001011	iana sansas.
	6.	Aguifer salinity as	s indicated by chlo	ride concentration	n is145_ i	ng/L and was
	•	determined by (a) pub				
	_	T) ( ( ) ( ) ( ) ( ) ( ) ( ) ( )	th . dia musto stion	harabala will not r	senetrate the h	edrock surface
	7.	The total depth of the and will be completed	: cathodic protection	borenole will not p	renetiate the L	ediook sanace
		and will be completed	100 1/1000 be	J.041   GITG GGT   GGG.		
	8.	The diameter of the u	ncased cathodic pro	tection borehole w	ill be a minimu	m of8
		inches.		RECEIVED		
					**************************************	0 E CD 15
				APR 2 7 2010	4 / 4 / 4 / 5 M / M / M / M / M / M / M / M / M /	

Equus Beds Groundwater
Magagement District No. 2

# 15-155-21560-000

Э.	for use in public water supply systems and adopted through K.A.R. 82-3-707 will be installed beginning at a depth of20 feet below land surface to a total depth of
	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 of9 feet below land surface. To a total depth of 65 feet below land surface.
11.	The uncased borehole from the top of the anode conductor grout will be grouted with (c) Illustrate bentonite clay grout from a total depth of9_ feet below land surface to3 feet below land surface.
12.	The grouted uncased borehole will be backfilled with clean compacted topsoil from3 feet below land surface to0 feet above land surface.
13.	Will the use of a drilling pit threaten to contaminate fresh and usable groundwater?  YesX 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 <sup>-7</sup> 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, this2 day ofApril_, 2010
	Hayse Management Services (Applicant) By(Signature)
	Supervisor RECEIVED (Title)
	ADD 2.7.2000

APR 2 7 2010

EBGWMD2 Form -CP-15

15-155 21560-0000

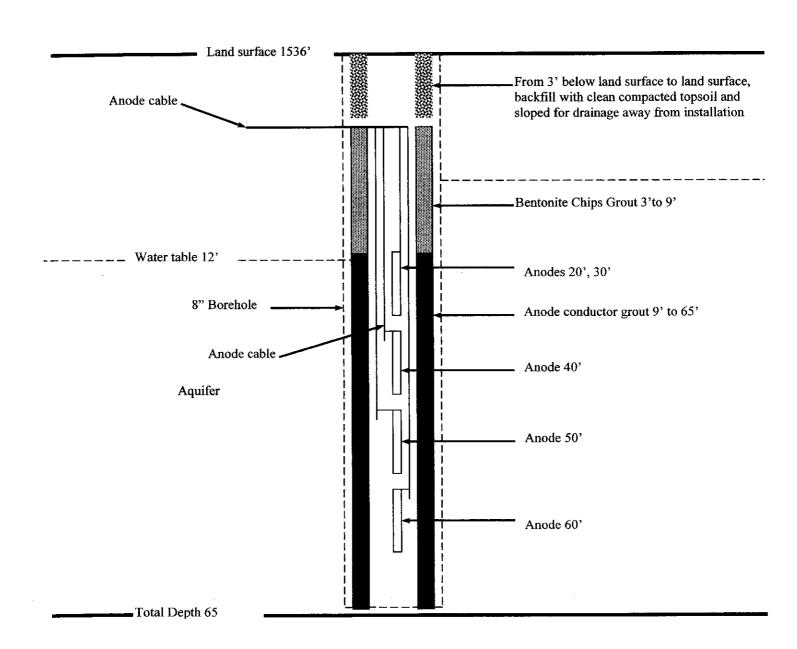
#### CATHODIC PROTECTION BOREHOLE ILLUSTRATION

Blackhills Corp.

4th & Westland, Hutchinson, Kansas

May, 2010

Uncased Borehole #1 Construction Features



## 15-155-21560-00-00

### APPLICANT - DO NOT CONTINUE BELOW DOUBLE LINE

For Equus Beds Groundwater Management District Use
1) Application received on 4 1271260.
2) Application review by  Tim Boese GMD2
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 16 to day of 3 and 20 10 10 10 10 10 10 10 10 10 10 10 10 10
The Boeze

#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form CDP-1 April 2004 Form must be Typed

#### **APPLICATION FOR SURFACE PIT**

Submit in Duplicate

Operator Name: BlackHills Corp %Ha	yse Managemen	License Number:					
Operator Address: PO Box 107		Muli	inville	KS	67109		
Contact Person: Dale Hayse		Phone Number:	620-548-236	9			
Lease Name & Well No.: Cathodic Pr		Pit Location (QC	QQ):				
Type of Pit:			NENW_				
Emergency Pit Burn Pit	Proposed	Existing	Sec. 15 Twp.	_23 <sub>R.</sub> _6	East X West		
Settling Pit Drilling Pit If Existing, date construct			5,230 Feet from North / South Line of Section				
Workover Pit Haul-Off Pit	Pit capacity:		4 740		West Line of Section		
(If WP Supply API No. or Year Drilled)	0	(bbls)	Reno		County		
Is the pit located in a Sensitive Ground Water	Area? Yes	No	Chloride concent	ration:	mg/l		
			(For Emergency Pits and Settling Pits only)				
is the bottom below ground level?  Yes No	Artificial Liner?	No	How is the pit lin	ed if a plastic liner is r	not used?		
Pit dimensions (all but working pits):	0 Length (fe	eet) 0	Width (feet)		N/A: Steel Pits		
Depth f	rom ground level to de	epest point:	(feet	)	☐ No Pit		
Distance to nearest water well within one-mil	Source of info						
feet Depth of water well _		measured well owner electric log KDWR					
Emergency, Settling and Burn Pits ONLY			Drilling, Workover and Haul-Off Pits ONLY:  Type of material utilized in drilling/workover:				
Producing Formation:  Number of producing wells on lease:		"	Number of working nits to be utilized:				
Barrels of fluid produced daily:		Abandonment procedure:					
Does the slope from the tank battery allow a flow into the pit? Yes No	Drill pits must be closed within 365 days of spud date.						
I hereby certify that the above stat  April 2, 2010	ements are true and o						
Date			Signature of Applica	nt or Agent			
KCC OFFICE USE ONLY Steel Pit RFAC RFAS							
Date Received: Permit Nur	nber:	Pern	nit Date:	Lease Inspec	tion: Yes No		

LARRY JACOB, PRESIDENT DAVID STROBERG, VICE PRESIDENT FRED SEILER, SECRETARY DON KOCI, TREASURER TIM BOESE, MANAGER THOMAS A. ADRIAN, ATTORNEY



DIRECTORS:
CHRIS CARRIER
DENNIS GRUENBACHER
VIN KISSICK
MIKE MCGINN
BOB SEILER

## 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

RECEIVED KANSAS CORPORATION COMMISSION

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

JUN **21** 2010

15-155-21560-00-00

CONSERVATION DIVISION WICHITA, KS

Re: Application Nos. CPB-65 and CPB-66 - Blackhills Corp. Gas Distribution Main

Dear Mr. Hayse:

The Equus Beds Groundwater Management District No. 2 reviewed the referenced applications, June 16, 2010, 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 #1 change the legal description to the Northeast quarter of the Northwest quarter of the Northwest quarter of Section 15, Township 23 South, Range 6 West, and the footage measurements for CPB-65 to 5230' N & 4380' W and CPB-66 to 5230' N & 4340' W; 2) paragraph #3 change the surface elevation to 1541 feet above mean sea level; 3) paragraph #9 change to anodes being installed to a total depth of 60 feet below land surface; and 4) paragraph #10 change to anode conductor grout (Aquagard) being installed from 9 feet below land surface to total borehole depth of 65 feet below land surface.

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 Manager

TDB/db

**Enclosures** 

pc: Doug Louis, Kansas Corporation Commission

Mike Dealy, Kansas Geological Survey - Wichita