

API NUMBER 15-097-21575-00-00

Greensburg Station #1

BIG BEND GROUNDWATER MANAGEMENT DISTRICT NO. 5

125 S. Main Stafford, Kansas 67578 (620) 234-5352 Fax (620) 234-5318

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FORM CP-10

SEP 28 2005

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

BIG BEND GMD #5

Permit Application Number CPB-_____

To the Big Bend Groundwater Management District No. 5:

Applicant Southern Star Central Pipeline whose address is:

<u>455</u>	<u>Wabash</u>	<u>Lyons</u>	<u>KS</u>	<u>67554</u>
(P.O. Box or Street)	(City)	(State)	(Zip Code)	
<u>(620)</u>	<u>257-7815</u>			
(Area Code)	(Telephone)			

and makes 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 Kiowa state of Kansas, to the extent and in accordance with the following:

- The location of the proposed cathodic protection borehole is in the NW quarter of the SW quarter of the NW quarter of Section 23, Township 27 south, Range 18 (west/east) and more particularly described as being near a point 1300 feet north and 50 feet west of the apparent southeast corner of said section.
- The proposed use of the cathodic protection borehole is to provide cathodic protection of the applicant's Greensburg Station #1 facility from electrochemical corrosion.
- The land surface elevation is Est. 2,174 feet above mean sea level and the method of measurement used was (a) surveyed, (b) topographic map or (c) other _____.
- The depth to surface or top of bedrock or shale is 120 feet below land surface (bls).
- The depth to the water table of the fresh water aquifer is 334 feet bls.
- Aquifer salinity as indicated by chloride concentration is <100 mg/L and was determined by: (a) published report, (b) test well data, or (c) other _____.
- The total depth of the cathodic protection borehole is 250 feet bls.
- A non metallic surface casing equipped with centralizers will be installed in the surface casing borehole when drilling has penetrated 140 feet bls, which is a minimum of 20 feet below bedrock or shale surface as listed in paragraph #4.
- 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 140', 100', 60', 20' feet bls.
- 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 10" inches and the outside diameter of surface casing will be 9 1/8 inches.

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- 11. The standard dimension ratio (SDR) of the surface casing calculated by dividing the surface casing's outside diameter (OD) of 21 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 140 feet bls to _____ feet bls.
- 14. The top of the surface casing will be fitted with a watertight cap and will: (a) terminate 3 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 155 feet bls to a total depth of 245 feet bls.
- 16. Anode conductor (backfill) material will be installed beginning at a depth of 145 feet bls to a total depth of 250 feet bls.
- 17. An anode vent pipe will be installed and completed 3.5 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 X No. If Yes complete sections (a) and (b). Circle one: (a) the pit will be: (i) constructed so that the bottom and sides 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.
- 20. A construction plan is submitted with the application and shows or illustrates the information contained in paragraphs #4 through #18.
- 21. 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.
- 22. 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).

23. Dated at Tulsa, OK, ~~Kansas~~, this 26th day of September 2005
Max Moll, Mesa Products, Inc.
 (Applicant)
 By [Signature]
 (Signature)
Operations Manager
 (Title)

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APPLICANT DO NOT CONTINUE BELOW DOUBLE LINE

For Big Bend Groundwater Management District Use

1) Application received on 9 12 05.

2) Application review by Chad Milligan

DISTRICT Geologist
(Title)

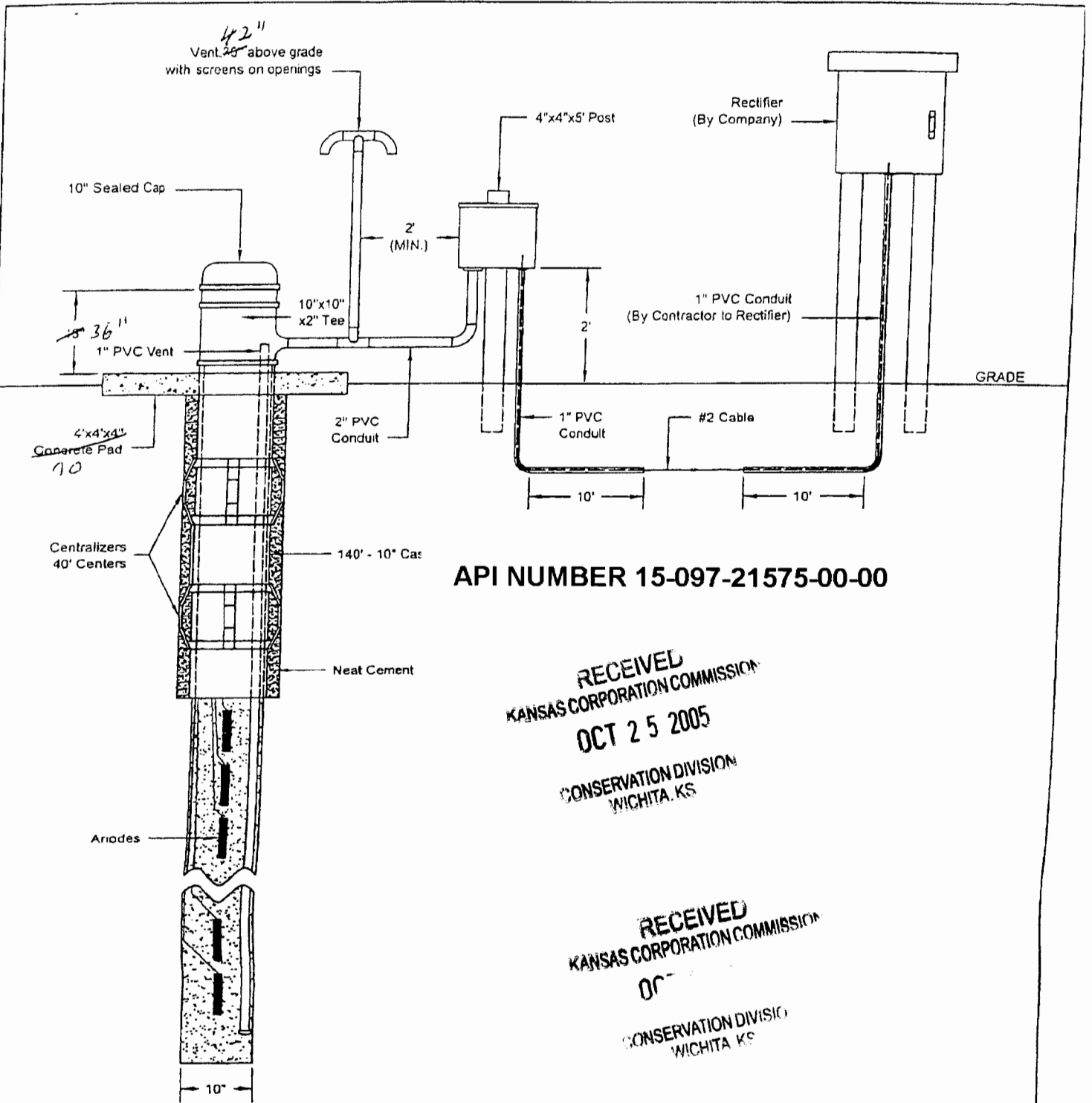
3) The application is hereby denied. The denial was based on the following findings:


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 4 day of October, 2005.

Sharon Falk, Mgr
Sharon Falk, Manager
Big Bend Groundwater Management District No. 5

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WICHITA KS



 CORROSION CONTROL	PROJECT		KIOWA COUNTY	
	TITLE		TYPICAL DEEP GROUND BED SURFACE FACILITIES	
CLIENT Southern Star Central Pipeline Co.	DRAWN BY	MRM	DATE	9/19/05
	APPROVED BY	TFM	SCALE	NONE
			DRAWING NO.	REV
				▲