

KCC Dist 1

KCC API # 22451-0000
15-151

Magellan Pipeline Company LP KCC Lic 33883
2550 FSL, 3550 FEL Sec. 6-T265-R13W
Saddlehorn #14

CB-1-GM05
99976

BIG BEND GROUNDWATER MANAGEMENT DISTRICT NO. 5

125 S. Main
Stafford, Kansas 67578
(620) 234-5352 Fax (620) 234-5718

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Feb 23 2016

FORM CP-10
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- 16-01

To the Big Bend Groundwater Management District No. 5:

Applicant: MAGELLAN MIDSTREAM PARTNERS

Address: ONE WILLIAMS CENTER, MD-272, TULSA, OK 74172

(P.O. Box or Street) (City) (State) (Zip Code)

Telephone: (713) 805-0279
(Area Code) (Telephone)

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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 Pratt 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 NE quarter of the SW quarter of Section 6, Township 26 south, ie 13 west and more particularly described as being near a point 2,550 feet north and 3550 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 PIPELINE facility from electrochemical corrosion.
- The land surface elevation is 5,874 feet above mean sea level and the method of measurement used was (a) surveyed, (b) topographic map or (c) other KGS.
- The depth to surface or top of bedrock or shale is 200 feet below land surface (bls).
- The depth to the water table of the fresh water aquifer is 28 feet bls.
- Aquifer salinity as indicated by chloride concentration is <500 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 400 feet bls.
- A non metallic surface casing equipped with centralizers will be installed in the surface casing borehole when drilling has penetrated 220 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 10, 40, 80, 120, 140, 180, 215, _____ feet bls.

10. 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 16 inches and the outside diameter of the surface casing will be 10 inches.
11. The standard dimension ratio (SDR) of the surface casing calculated by dividing the surface casing's outside diameter (OD) of 10.75 inches by its minimum wall thickness (MWT) of .511 inches equals 21.03.
12. A pitless surface casing adapter will be installed in the surface casing 3.5 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 225 feet bls to 3 feet bls.
14. The top of the surface casing will be fitted with a watertight cap and will: (a) terminate _____ feet above land surface, (b) terminate in a water resistant and structurally sound vault 3 feet bls or (c) be buried _____ feet bls.
15. The anodes will be installed beginning at a depth of 225 feet bls to a total depth of 395 feet bls.
16. Anode conductor (backfill) material will be installed beginning at a depth of 225 feet bls to a total depth of 400 feet bls.
17. An anode vent pipe will be installed and completed 3 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 No. If Yes complete sections (a) and (b).
 - (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. Has the applicant filed a completed Form KSONA-1 and plat map with this application? Yes No.
21. Does the Form KSONA-1 indicate that the applicant has provided the surface owner with a copy of this application, including the Form KSONA-1 and plat map?
 Yes No.
22. A construction plan is submitted with the application and shows or illustrates the information contained in paragraphs #4 through #18.
23. 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.

24. 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).

25. Dated at 14:33 PM, Kansas, this 1 day of FEBRUARY, 20 16

THOMAS VANGOOR

(Applicant)



By _____
(Signature)

PROJECT MANAGER

(Title)

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APPLICANT DO NOT CONTINUE BELOW DOUBLE LINE

For Big Bend Groundwater Management District #5 Use

1) Application received on 2 / 23 / 16.

2) Application review by John Hildebrand
Conservation Specialist
(Title)

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

Recommend Approval John Hildebrand

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 13th day of April, 20 16



Orrin Feril, Manager
Big Bend Groundwater Management District No. 5


KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form GDP-1
July 2014
Form must be Typed

APPLICATION FOR SURFACE PIT

Submit in Duplicate

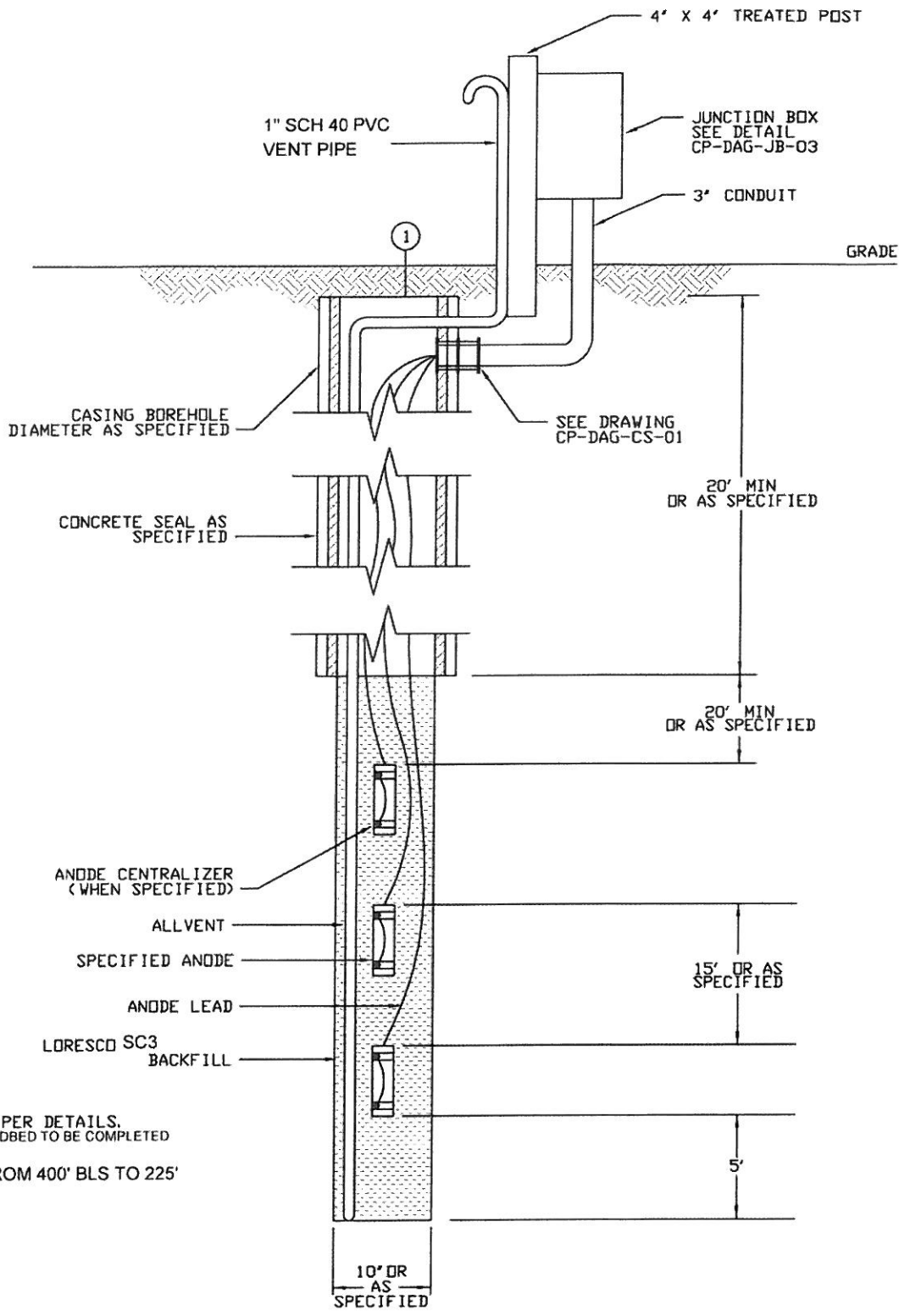
15-151-22451-0000

Operator Name: MAGELLAN PRODUCTS PIPELINE		License Number: 33883
Operator Address: ONE WILLIAMS CENTER, MD-27-1 TULSA OKLAHOMA 74172		
Contact Person: TOM VANGOOR		Phone Number: 713-805-0279
Lease Name & Well No.: SADDLEHORN #14		Pit Location (QQQQ): NW 1/4 NE 1/4 Sec. 6 Twp. 26 R. 13 <input type="checkbox"/> East <input checked="" type="checkbox"/> West 2550 Feet from <input type="checkbox"/> North / <input checked="" type="checkbox"/> South Line of Section 3550 Feet from <input checked="" type="checkbox"/> East / <input type="checkbox"/> West Line of Section PRATT County
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input checked="" type="checkbox"/> Haul-Off Pit <i>(If WP Supply API No. or Year Drilled)</i>	Pit is: <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)	
Is the pit located in a Sensitive Ground Water Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Chloride concentration: _____ mg/l <i>(For Emergency Pits and Settling Pits only)</i>
Is the bottom below ground level? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Artificial Liner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	How is the pit lined if a plastic liner is not used? STEEL ABOVE GROUND PIT
Pit dimensions (all but working pits): _____ Length (feet) _____ Width (feet) Depth from ground level to deepest point: _____ (feet)		<input checked="" type="checkbox"/> N/A: Steel Pits <input type="checkbox"/> No Pit
If the pit is lined give a brief description of the liner material, thickness and installation procedure. STEEL PIT - 250 WT	Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring. FRESH WATER TEST <div style="text-align: right; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">KCC WICHITA MAY 03 2016 RECEIVED</div>	
Distance to nearest water well within one-mile of pit: 682 feet Depth of water well 30 feet	Depth to shallowest fresh water 30 feet. Source of information: <input type="checkbox"/> measured <input checked="" type="checkbox"/> well owner <input type="checkbox"/> electric log <input type="checkbox"/> KDWR	
Emergency, Settling and Burn Pits ONLY: Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No	Drilling, Workover and Haul-Off Pits ONLY: Type of material utilized in drilling/workover: _____ Number of working pits to be utilized: _____ Abandonment procedure: _____ Drill pits must be closed within 365 days of spud date.	
I hereby certify that the above statements are true and correct to the best of my knowledge and belief.		
FEBRUARY 01, 2016 _____ Date		 _____ Signature of Applicant or Agent

KCC OFFICE USE ONLY


Liner Steel Pit RFAC RFAS

Date Received: _____ Permit Number: _____ Permit Date: _____ Lease Inspection: Yes No



NOTES:

1. CASING TOP AS PER DETAILS.
DEEP ANODE GROUNDBED TO BE COMPLETED
BELOW GRADE
2. LORESCO SC3 FROM 400' BLS TO 225'
BLS

REVISIONS		NOTES:	 PIPELINE CONTROLS & SERVICES	
NO.	DATE			
			LORESCO SC3 GROUND BED DEEP ANODE BED	
			DRAWING NO. PCS-CP-DAG-04	DATE: 07/31/2015

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Jan 05 2016

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form KSONA-1
July 2010
Form Must Be Typed
Form must be Signed
All blanks must be Filled

Big Bend GMD #5

CERTIFICATION OF COMPLIANCE WITH THE
KANSAS SURFACE OWNER NOTIFICATION ACT

15-151-22451-0000

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1 (Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)

OPERATOR: License # 33883
Name: MAGELLAN PIPELINE COMPANY
Address 1: ONE WILLIAMS CENTER
Address 2: MD-27-2
City: TULSA State: OK Zip: 74172 + _____
Contact Person: TOM VANGOOR
Phone: (713) 805.0279 Fax: (_____) _____
Email Address: TVANGOOR@PIPECS.COM

Well Location:
NE 1/4 SE 1/4 Sec. 6 Twp. 26 S. R. 13 East West
County: PRATT
Lease Name: SADDLEHORN Well #: 14

If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:

Surface Owner Information:

Name: JOHN D. HENDERSON
Address 1: 1313 N. MAIZE COURT
Address 2: _____
City: WICHITA State: KS Zip: 67212 + _____

When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

Select one of the following:

- I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Date: 12/30/15 Signature of Operator or Agent: _____ Title: PROJECT MANAGER

APPLICATION FOR SURFACE PIT (FORM CDP-1)
Instructions

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General Instructions.

1. All Notices of Intent to Drill must include an Application for Surface Pit, even if steel pits will be used.
2. Operators need to submit two copies of all CDP-1s.
3. Form must be typed.

Section 1: Operator Information.

- 1a. **Operator Name.** Enter the operator's full name as it appears on operator's license.
- 1b. **License Number.** Enter the operator's license number. To verify KCC operator license information check the Commission's website at http://kcc.ks.gov/conservation/oil_license.cgi or contact the Conservation Division's Licensing Department at (316) 337-6194.
- 1c. **Operator Address.** Enter the operator's mailing address.
- 1d. **Contact Person.** Enter the name of the individual who will be the operator's contact person for this Application for Surface Pit, should Conservation Division Staff need to contact the operator about the Application for Surface Pit. The contact person may be the operator or the operator's agent.
- 1e. **Phone Number.** Enter the phone number of the contact person, so that Conservation Division Staff may easily reach the contact person if necessary.

Section 2: Lease/Well/Pit Information.

- 2a. **Lease Name & Well No.** Enter the name of the lease, and if applicable the well number, at which the pit is or will be located.
- 2b. **Type of Pit.** Mark the appropriate box to indicate the type of pit. Note—if the pit is a workover pit, the operator must enter the API No. or Year Drilled of the well which is to be worked over.
- 2c. **Proposed or Existing Pit.** Operator should mark the appropriate box to indicate if the pit is proposed or already exists.
 - 2c(1). **Existing Pits.** The operator should provide the date pit was constructed.
 - 2c(2). **Proposed and Existing Pits.** The operator must provide the pit capacity.
- 2d. **Pit Location.**
 - 2d(1). **¼ ¼ ¼ Section.** The operator should list the location of the pit by ¼ ¼ ¼ Section.
 - 2d(2). **Sec., Twp., and R.** The operator should enter the Section, Township and Range Number in which the pit is located, and should mark either the "East" or "West" box to indicate if the Range # is East or West.
 - 2d(3). **Footage Location.** This is where the operator reports the location of the pit from the North or South section line and the East or West section line. Enter in the blank provide the number of feet the pit is or will be from the North or South section line and then mark the appropriate box for the measurement to indicate if the footage is from the North or South section line. Follow the same procedure with respect to the location of the pit from the East or West section line.
 - 2d(4). **County.** Enter the county in which the pit is or will be located.
- 2e. **Sensitive Groundwater Area.** Mark the appropriate box as to whether or not the pit is located in a Sensitive Groundwater Area. Operators may find a listing of Sensitive Groundwater Areas in Table III of the Conservation Division's Rules and Regulations. The Commission's rules and regulations for the conservation of oil and gas, including Table III, are available in an Adobe pdf file from the Conservation Division's website at <http://kcc.ks.gov/conservation/index.htm>.
- 2f. **Chloride Concentration (for emergency and settling pits only).** Indicate the chloride concentration level of fluids which the pit is or will be used to contain. A sample should be taken from the salt water tank. This information is needed to determine the potential for contamination should the salt water tank discharge into the emergency pit.

- 2g. **Below Ground Level.** Mark the appropriate box to indicate whether the bottom of the pit is below ground level.
- 2h. **Artificial Liner.** Mark the appropriate box to indicate whether the pit is or will be constructed with an artificial liner.
- 2i. **Other Liner.** Explain how the pit is constructed if a plastic liner is not used.
- 2j. **Pit Dimensions (all but working pits).** For all but steel pits, enter the length, width, and depth (from ground level to the deepest point) in feet of the pit. If the pit is a steel pit, the operator only needs to mark the "steel pits" box. If no pits will be used, mark the "No Pit" box.

Section 3: Description of Liner.

If the pit is lined, enter a brief description of the liner material, thickness, and installation procedure.

Section 4: Description of Maintenance.

Enter a brief description of the procedures used for periodic maintenance and determining liner integrity, including any special monitoring.

Section 5: Distance to Nearest Water Well Within One Mile of Pit.

Enter the distance to the nearest water well within one mile of the pit location and the total depth of the water well. If there are not any water wells within a one-mile radius of the pit location, the space should be left blank. Water well information is available from the Kansas Geological Survey's website, at <http://www.kgs.ku.edu/Magellan/WaterWell/index.html>.

Section 6: Shallowest Freshwater Depth.

Enter the depth to the shallowest fresh water in the area of the pit and mark the appropriate box as the source of the freshwater information.

Section 7: Emergency, Settling, and Burn Pits ONLY.

Enter the formation from which wells on the lease are producing, the number of producing wells on the lease, and the number of barrels of fluids produced daily on the lease. The operator should also mark the appropriate box to indicate if the slope of the tank battery allows all spilled fluids to flow in the pit.

Section 8: Drilling, Workover, and Haul-Off Pits ONLY.

Enter the type of material utilized in the drilling or workover of the well, the number of working pits to be utilized, and the procedure to be used for abandoning the pits after work at the well is complete.

Section 9: Affidavit.

Date and sign the certification that the above statements are true and correct to the best of the signee's knowledge and belief.

15-151-22451-0000

IN ALL CASES, PLEASE FULLY COMPLETE THIS FORM.

Operator: MAGELLAN MIDSTREAM PARTNERS
Facility Name: SADDLEHORN
Borehole Number: 14

Location of Well: 2,550 feet from N / S Line of Section
3,550 feet from E / W Line of Section
Sec. 6 Twp. 26 S Rng. 13 E W
Is Section: Regular or Irregular

If Section is Irregular, locate well from nearest corner boundary.

Section corner used: NE NW SE SW

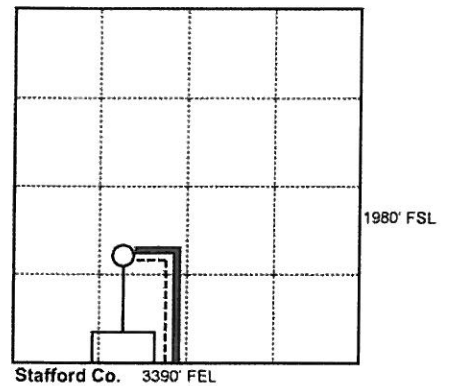
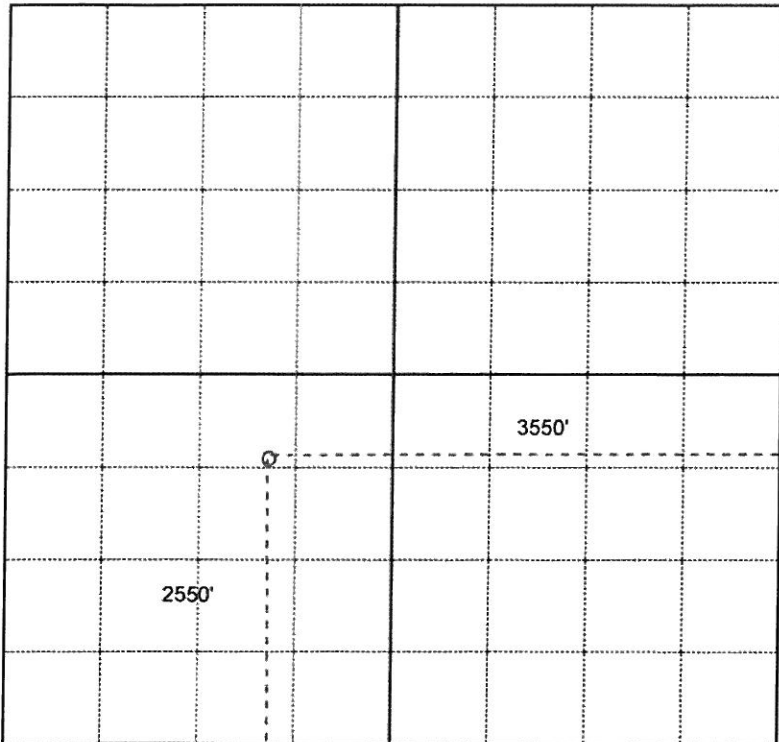
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PLAT

Show location of the Cathodic Borehole. Show footage to the nearest lease or unit boundary line. Show the predicted locations of lease roads, tank batteries, pipelines, and electrical lines, as required by the Kansas Surface Owner Notice Act (House Bill 2032). You may attach a separate plat if desired.

LEGEND

- Well Location
- Tank Battery Location
- Pipeline Location
- Electric Line Location
- Lease Road Location



NOTE: In all cases, locate the spot of the proposed drilling location.

1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.;
2. The distance of the proposed drilling location from the section's south / north and east / west line;
3. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT/CHEMICAL NAME:	Calcined Petroleum Coke	EMERGENCY PHONE NO.	(601) 544-7490
OTHER IDENTIFICATION:	LORESCO® types RS.3, SC.3, SC.2, DW-1, SWK, SWS, and FlexFill.	HMIS/NEPA HAZARD RATING 4 = Extreme 3 = Serious 2 = Moderate 1 = Minimal	
PRODUCT USE:	Impressed Current Anode Backfill		
COMPANY:	LORESCO, Inc. 421 J. M. Tatum Ind. Park Dr. Hattiesburg MS 39401		

SECTION 2 - HAZARD IDENTIFICATION

HAZARD CLASSIFICATION:	Mechanical abrasion	SYMBOL:	None
SIGNAL WORD:	Warning	PRECAUTIONARY STATEMENT:	Wear safety glasses or goggles. Gloves are recommended. If there is excessive dust, a NIOSH approved respirator is recommended. Wash skin and hair thoroughly after handling.
HAZARD STATEMENT:	Repeated or prolonged contact may cause irritation of eyes, skin or respiratory system.	OTHER HAZARDS:	None Identified

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:	Coke (Petroleum), calcined	Weight % (dry basis)	100
COMMON NAME AND SYNONYMS:	Calcined petroleum coke	CAS NUMBER	64743-05-1

SECTION 4 - FIRST AID MEASURES

HEALTH HAZARDS Avoid contact with eyes. Wash thoroughly after handling.

EXPOSURE ROUTE	ACUTE	CHRONIC
EYE CONTACT	No significant irritation expected. Possible abrasive mechanical irritation. Dust may cause stinging, watering, or redness. Flush eyes with plenty of water.	No data available
INHALATION (Breathing)	No significant irritation expected. Possible mechanical irritation. Possible irritation of respiratory tract. May aggravate pre-existing respiratory conditions.	Repeated overexposure to any dusts may result in irritation of the respiratory tract, pneumoconiosis (dust congested lungs), pneumonitis (lung inflammation), coughing, and shortness of breath.
INGESTION (Swallowing)	No significant health hazards expected. If large quantities are ingested, or discomfort occurs, seek medical attention.	No data available
SKIN	First aid is not normally required. May be abrasive and mildly irritating. Prolonged or repeated contact may cause skin irritation or dermatitis to susceptible individuals.	No data available

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Dry chemical type preferred. Carbon dioxide, foam, water spray, sand, or earth is also recommended.
SPECIFIC PRECAUTIONS AND INSTRUCTIONS FOR FIRE FIGHTERS	Use washdown and spread out method. For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. If the potential hazard is unknown or in enclosed or confined areas, self-contained breathing apparatus should be worn. Cool equipment exposed to fire with water, if it can be done with minimal risk.
SPECIFIC HAZARDS (Unusual Fire & Explosion Hazards)	This material may burn, but will not ignite readily. When water is used to extinguish a fire in a confined storage space there is the possibility of a steam explosion. Whenever possible, the burning coke in a confined storage space should be removed and the material drenched in an open area to extinguish fire. Under certain conditions, the dust may be a potential explosion hazard.
SPECIFIC HAZARDS	Typical Decomposition Products: carbon oxides (CO/CO ₂), sulfur oxides and metal oxides.

Cathodic Protection Installation Request

15151-22451-0000



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Jan 05
Big Bend

Region: _____ Area: _____ Pipeline: SADDLEHORN 20" CRUDE
 Alignment Sheet: _____ Tract: 6918-16-PR-6 Mile Post: 356.680 Survey Station: 18832+70
 State: KANSAS County: PRATT Longitude: -98.793568 Latitude: 37.815
 Section: 6 1/4 Sec. of 1/4: SW 1/4 Township: 26S Range: 13W

Location: _____
 Property Owner
 Contact & Information: JOHN W. HENDERSON, 1313 N. MAIZE CT #1401 WICHITA, KS 67212 620.770.0492/316.640.4571

Power Company
 Contact and Information: STATION POWER - NNNESCAH RURAL ELECTRIC COOP

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Groundbed Type: DEEP Current Required: 50A Soil Resistance: 10000
 Anode Type: LIDA - MIXED METAL OXIDE Number of Anodes: 12 Type of Backfill: LORESCO ENVIROCOKE
 Amount of Backfill: 240' Type of Cable: #6 KYNAR DUAL EXTRUDED HMWPE Amount of Cable: 450'
 New Rectifier
 Required: (yes/no): YES Rectifier Type: UNIVERSAL 40V/60A Anode Depth: 395
 Anode Spacing: 15' Anode Hole Specs: 400' X 10" Design Life: 20 YEARS

Required Installation Date: _____ Construction Company: _____

Driving Directions FROM INTERSECTION OF SW90TH STREET AND NW 30TH STREET, PROCEED SOUTH ON NW30TH STREET FOR .62 MILES TO MAGELLA PUMP STATION. ENTER GATE AND PROCEED TO SOUTHEAST CORNER OF STATION FOR 1500' FEET. BOREHOLE WILL BE IN BACK CORNER OF SE SIDE OF STATION

Details: RECTIFIER COMPLETION WILL BE BELOW GRADE AND ALL ANODE CABLES TO BE TERMINATED AT RECTIFIER RACK IN STATION. ADDITIONAL NEGATIVE INSTALLATION WILL BE REQUIRED IN STATION FOR NEGATIVE TO STATION PIPING.



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, August 11, 2015** at 12:15 a.m. Eastern Time. Please [contact NSF International](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?Company=76110&Standard=060&>

NSF/ANSI 60 Drinking Water Treatment Chemicals - Health Effects

Loresco International

421 J. M. Tatum Industrial Park Drive

Hattiesburg, MS 39401

United States

601-544-7490

[Visit this company's website \(http://www.loresco.com\)](http://www.loresco.com)

Facility : Hattiesburg, MS

Miscellaneous Water Supply Products

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
LORESCO® PowerFill™	Other	[1]
LORESCO® Type RS.3®	Other	[1]
LORESCO® Type SC.3®	Other	[1]

[1] These products were evaluated to NSF/ANSI Standard 60, Section 8 for backfill applications with a maximum diameter of 15 inches and a maximum aquifer contact depth of 20 ft with an assumption of a minimum 1/2 acre aquifer of not less than 25% porosity (293,760 gallons).

Number of matching Manufacturers is 1

15751-22451-0000

LORESCO, Inc.

Safety Data Sheet

Calcined Petroleum Coke Backfills

Page 2 of 4

Issued 7/08/2015

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Petroleum coke is combustible. Avoid heat and flames. Wash thoroughly after clean up.	EMERGENCY PROCEDURES:	Minimize formation of dust.
PROTECTIVE EQUIPMENT:	Wear eye protection and gloves. If excessive dust, use a NIOSH approved respirator.	METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Contain and remove by mechanical means (scoop, sweep or vacuum). Prevent spilled material from entering sewers, storm drains, or other unauthorized treatment drainage systems and natural waterways.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	No special requirements. Wash thoroughly after handling. Practice good personal hygiene.	CONDITIONS FOR SAFE STORAGE (including any incompatibles)	No special requirements; however, material should be stored to minimize dust formation. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits.
---------------------------------------	------------------------------------------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH*	TLV (8-HR TWA)**	3 mg/M3 as Respirable Fraction	10 mg/M3 Total Dust
OSHA***1910.1000	PEL**** (8-HR TWA)**	5 mg/M3 as Respirable Fraction	15 mg/M3 Nuisance Dust
State, local or other agencies may have established more stringent limits. Consult local agencies for further information.			
* ACGIH = American Conference of Governmental Industrial Hygienists		*** OSHA = Occupational Safety and Health Administration	
** TLV-TWA = Threshold Limit Value-Time Weighted Average		**** PEL = Permissible Exposure Limit	
ENGINEERING CONTROLS	Mechanically ventilate the work environment to reduce dust concentration and to maintain normal atmospheric oxygen levels.		
EYE PROTECTION	Approved eye protection, such as safety glasses or goggles, to safeguard against potential eye contact is recommended.		
RESPIRATORY PROTECTION	Appropriate respirator depends upon the type and magnitude of exposure. A NIOSH/MSHA approved dust respirator (i.e., type 95 [N or P] particulate filter) may be used under conditions where airborne concentrations are expected to exceed exposure limits for dust. Use a positive pressure air respirator, if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.		
SKIN PROTECTION	Not required. However, it is considered good practice to wear gloves when handling.		
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	Recommend using good personal hygiene practices and a clean source of water for flushing eyes and skin.		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Irregular, steel gray to black, granular solid.	ODOR	May have slight petroleum odor.
ODOR THRESHOLD	Not determined.	pH	Not applicable.
MELTING POINT/FREEZING POINT	Not applicable.	INITIAL BOILING POINT AND BOILING RANGE	Not applicable.
FLASH POINT	Not determined.	EVAPORATION RATE	Not applicable.
FLAMMABILITY	Not determined.	UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Upper NA% Lower NA%
VAPOR PRESSURE	Not applicable.	RELATIVE DENSITY (water=1)	0.72 - 1.28
SOLUBILITY (in water)	Insoluble	PARTITION COEFFICIENT: n-octanol/water	Not applicable.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued)

AUTO-IGNITION TEMPERATURE	670 C (1,238 F)	DECOMPOSITION TEMPERATURE	Not determined.
VISCOSITY	Not applicable.		

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY	Finely ground petroleum coke dust may become flammable or explosive.	CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	None known	CONDITIONS TO AVOID	Avoid accumulations of finely ground dust.
INCOMPATIBLE MATERIALS	Incompatible with strong oxidizing agents, perchlorates, peroxides, nitric acid, especially when heated.	HAZARDOUS DECOMPOSITION PRODUCTS	In the event of a fire, products of combustion may include carbon monoxide, carbon dioxide, sulfur dioxide, various hydrocarbons and smoke. There are no hazardous decomposition products during recommended handling and storage.

SECTION 11 - TOXICOLOGICAL INFORMATION

HEALTH HAZARDS Avoid contact with eyes. Wash thoroughly after handling.

POTENTIAL HEALTH EFFECTS	ACUTE	CHRONIC
EYE CONTACT	No significant irritation expected. Possible abrasive mechanical irritation, dust may cause stinging, watering, or redness. Flush eyes with plenty of water.	No data available.
INHALATION (Breathing)	No significant irritation expected. Possible mechanical irritation. Possible irritation of respiratory tract. May aggravate pre-existing respiratory conditions.	Repeated overexposure to any dusts may result in irritation of the respiratory tract, pneumoconiosis (dust congested lungs), pneumonitis (lung inflammation), coughing, and shortness of breath.
INGESTION (Swallowing)	No significant health hazards expected. If large quantities are ingested, or discomfort occurs, seek medical attention.	No data available.
SKIN	First aid is not normally required. May be abrasive and mildly irritating. Prolonged or repeated contact may cause skin irritation or dermatitis to susceptible individuals.	No data available.
CARCINOGENICITY (NTP)	The National Toxicology Program (NTP) has not identified calcined petroleum coke as known or anticipated carcinogen.	
CARCINOGENICITY (IARC)	The International Agency for Research on Cancer (IARC) has not identified calcined petroleum coke as a probable, possible or confirmed human carcinogen.	
CARCINOGENICITY (OSHA)	The Occupational Safety and Health Administration (OSHA) has not identified calcined petroleum coke as a carcinogen or potential carcinogen.	

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY	Calcined petroleum coke has a low potential to cause adverse effects on the aquatic and terrestrial environments.
PERSISTENCE AND DEGRADABILITY	Calcined petroleum coke does not readily degrade.
BIOACCUMULATIVE POTENTIAL	Calcined petroleum coke has a low bioaccumulative potential.
MOBILITY IN SOIL	Calcined petroleum coke is non-reactive and mobility in soil is low
OTHER ADVERSE EFFECTS	None known

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Safety Data Sheet Calcined Petroleum Coke Backfills

Issued 1/20/2015

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL

This material, if discarded in the same form as the product, is not a RCRA "listed" or "characteristic" hazardous waste. The material may be processed by an approved recycler, or disposed of at an approved waste disposal facility. Method of disposal selected is subject to compliance with applicable federal, state and local laws and regulations and product characteristics at the time of disposal.

SECTION 14 TRANSPORT/ DISPOSAL CONSIDERATIONS

UN NUMBER	Not applicable. Not regulated by DOT/CAP/IATA	UN PROPER SHIPPING NAME	Not applicable. Not regulated by DOT/CAP/IATA
TRANSPORT HAZARD CLASS	Not applicable. Not regulated by DOT/CAP/IATA	PACKING GROUP	Not applicable. Not regulated by DOT/CAP/IATA
ENVIRONMENTAL HAZARDS	Calcined petroleum coke is not a marine pollutant.		
TRANSPORTATION IN BULK	Hot calcined petroleum coke is regulated when loading cargo vessels, if the coke temperature exceeds 130F. (See 46 CFR 148.10).		
SPECIAL PRECAUTIONS	See the comment above for Transportation in Bulk.		

SECTION 15 REGULATORY INFORMATION

SARA 311/312	Acute: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Fire: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Reactive: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Chronic: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pressure: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
SARA 313	This material contains no chemicals, above the de minimis levels, subject to the reporting requirements of SARA 313 and 40 CFR 372		
EPA (CERCLA) REPORTABLE QUANTITY	No		
US TSCA Chemical Inventory Section 8(b)	This product is listed on the TSCA Inventory		
Country or Region	On inventory (yes/no)		
Canada (DSL)	Yes		
Europe (EINECS)	Yes		
Australia (AICS)	Yes		
China (IECSC)	Yes		
Japan (ENCS)	No		
Korea (ECL)	Yes		
Philippines (PICCS)	Yes		
New Zealand	No		
REACH Registration: Calcined petroleum coke is exempt from the registration requirements of the European chemical policy Registration, Evaluation, and Authorization of Chemicals (REACH) per Annex V, Exemptions from the Obligation to Register in Accordance with Article 2(7)(b), Exemption 10.			
IMSBC Section 4.2 Declaration	Calcined petroleum coke is not "Harmful to the Marine Environment".		

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SECTION 16 DOCUMENTARY INFORMATION

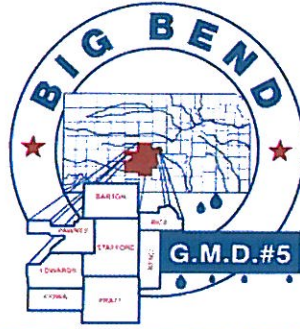
ISSUE DATE	July 8, 2015
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IDENTIFICATION	Calcined Petroleum
REVISION No.	3

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Phil Martin - Barton
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April 18, 2016

Ryan Hoffman, Director
Kansas Corporation Commission
Conservation Division
130 S Market RM 2078
Wichita, KS 67202-3802

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Re: Cathodic Protection Well Permit
(CPB-16-01), (CPB-16-02)

Dear Mr. Hoffman,

Please find enclosed, copies of 2 permits to drill cased cathodic protection boreholes within GMD#5. As per K.A.R. 82-3-705 (c), these permits are being forwarded to your office for your information.

If you have any questions or comments concerning these permits, please call the District office.

Sincerely,

John Hildebrand

John Hildebrand
Conservation Specialist

Enclosure