

For KCC Use:	
Effective Date:	
District #	
SGA? Yes No	C

#### Kansas Corporation Commission OIL & GAS CONSERVATION DIVISION

Form CB-1 March 2010 Form must be Typed Form must be Signed All blanks must be Filled

## **CATHODIC PROTECTION BOREHOLE INTENT**

	kty (60) days prior to commencing well. Surface Owner Notification Act, MUST be submitted with this form.
Expected Spud Date:	Spot Description:
month day year	Sec Twp S. R Tw
OPERATOR: Usansall	(Q/Q/Q/Q) feet from N / S Line of Section
OPERATOR: License#	feet from E / W Line of Section
Name:	Is SECTION: Regular Irregular?
Address 1:Address 2:	(Check directions from nearest outside corner boundries)
City: State: Zip: +	· · · · · · · · · · · · · · · · · · ·
Contact Person:	County:
Phone:	Facility Name:
	Borehole Number: MSL
CONTRACTOR: License#	Cathodic Borehole Total Depth:
Name: Type Drilling Equipment: Mud Rotary Cable	Depth to Bedrock:
Air Rotary Other	Water Information
Construction Features	Aquifer Penetration: None Single Multiple
Length of Cathodic Surface (Non-Metallic) Casing	Depth to bottom of fresh water:
Planned to be set:	Depth to bottom of usable water:
Length of Conductor pipe (if any):	Water well within one-quarter mile: Yes No
Surface casing borehole size: inches	Public water supply well within one mile: Yes No
Cathodic surface casing size: inches	Water Source for Drilling Operations:
Cathodic surface casing centralizers set at depths of:;;	☐ Well ☐ Farm Pond ☐ Stream ☐ Other
;;;;;	Water Well Location:
Cathodic surface casing will terminate at:	DWR Permit #
Above surface Surface Vault Below Surface Vault	Standard Dimension Ratio (SDR) is =
Pitless casing adaptor will be used: Yes No Depthfeet	(Cathodic surface csg. O.D. in inches / MWT in inches = SDR)
Anode installation depths are:;; ;;	Annular space between borehole and casing will be grouted with:  Concrete Neat Cement Bentonite Cement Bentonite Clay
	Anode vent pipe will be set at:
;;;;;	Anode conductor (backfill) material TYPE:
	Depth of BASE of Backfill installation material:
A FFID AVIT	Depth of TOP of Backfill installation material:
AFFIDAVIT	Borehole will be Pre-Plugged? Yes No
The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101 et. seq.	
It is agreed that the following minimum requirements will be met:	
Notify the appropriate District office prior to spudding and again before plugging the and placement is necessary prior to plugging. In all cases, notify District Office prior to plugging.	, , , , , , , , , , , , , , , , , , , ,
Notify appropriate District Office 48 hours prior to workover or re-entry.	, , ,
3. A copy of the approved notice of intent to drill shall be posted on each drilling rig.	
4. The minimum amount of cathodic surface casing as specified below shall be set by	grouting to the top when the cathodic surface casing is set.
<ol> <li>File all required forms: a. File Drill Pit Application (form CDP-1) with Intent to Drill (form KSONA-1) with Cathodic Protection Borehole Intent (CB-1) c. File Completio d. Submit plugging report (CP-4) within 30 days after final plugging is completed.</li> </ol>	(form CB-1). b. File Certification of Compliance with Kansas Surface Owner Notification Act n Form (ACO-1) within 30 days from spud date.
Submitted Electronically	
For KCC Use ONLY	
API # 15	If this permit has expired or will not be drilled, check a box below, sign, date and return
Conductor pipe requiredfeet	to the address below.
Minimum Cathodic Surface Casing Required:feet	
	Permit Expired Well Not Drilled
Approved by:	
This authorization expires:	
(This authorization void if drilling not started within 12 months of approval date.)	
	Date Signature of Operator or Agent
Spud date: Agent:	



SEWARD CO. 3390' FEL

For KCC Use ONLY	
API # 15	

#### IN ALL CASES, PLEASE FULLY COMPLETE THIS SIDE OF THE FORM.

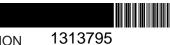
In all cases, please fully complete this side of the form. Include items 1 through 3 at the bottom of this page.

Operator:					Loc	ation of Well:	County:					
•	ıme:					ation or vveii.	feet from N / S Line of Section					
	Number:						feet from E / W Line of Section					
					Sec	Sec Twp S. R						
					Is S	ection:	Regular or Irregular					
						ection is Irre	egular, locate well from nearest corner boundary. sed: NE NW SE SW					
	Show location of	f the Cathodia	Parahala S	how footage to t	PLAT	assa or unit h	ooundary line. Show the predicted locations of					
				_	s required by	the Kansas	Surface Owner Notice Act (House Bill 2032).					
2109 ft.	:	<u> </u>		:	: :							
- 103 It.				:			LEGEND					
	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		Well Location					
							Tank Battery Location					
	:	:			: :		—— Pipeline Location					
	:	: : :		:	: ::		Electric Line Location					
							Lease Road Location					
	:	:		·········	::							
		:		:	: :							
			12				EXAMPLE					
	:	: :	12	<u>:</u>	: :							
			ı	:								
	:	:		:	::							
	:			:	: :							
				Ė								
							1980' FSL					
				i								
	:	: :		:	: :							
							<u>  _                                 </u>					

#### NOTE: In all cases locate the spot of the proposed drilling locaton.

#### In plotting the proposed location of the well, you must show:

- 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.



# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form CDP-1 May 2010 Form must be Typed

### **APPLICATION FOR SURFACE PIT**

Submit in Duplicate

Operator Name:			License Number:				
Operator Address:							
Contact Person:			Phone Number:				
Lease Name & Well No.:		Pit Location (QQQQ):					
Type of Pit:  Emergency Pit Burn Pit  Settling Pit Drilling Pit  Workover Pit Haul-Off Pit  (If WP Supply API No. or Year Drilled)	Pit is:  Proposed Existing  If Existing, date constructed:  Pit capacity:  (bbls)		SecTwp R East WestFeet from North / South Line of SectionFeet from East / West Line of SectionCounty				
Is the pit located in a Sensitive Ground Water A	rea? Yes	No	Chloride concentration: mg/l  (For Emergency Pits and Settling Pits only)				
Is the bottom below ground level?  Yes No	Artificial Liner?	lo	How is the pit lined if a plastic liner is not used?				
Pit dimensions (all but working pits):	Length (fee	et)	Width (feet)				
Depth fro	om ground level to dee	epest point:	(feet) No Pit				
material, thickness and installation procedure.  liner integrity, including any special monitoring.							
Distance to nearest water well within one-mile of	of pit:	Depth to shallowest fresh water feet. Source of information:					
feet Depth of water well	feet	measured	well owner electric log KDWR				
Emergency, Settling and Burn Pits ONLY:		Drilling, Work	over and Haul-Off Pits ONLY:				
Producing Formation:		Type of material utilized in drilling/workover:					
Number of producing wells on lease:		Number of working pits to be utilized:					
Barrels of fluid produced daily:		Abandonment procedure:					
Does the slope from the tank battery allow all spilled fluids to flow into the pit? Yes No		Drill pits must be closed within 365 days of spud date.					
Submitted Electronically							
	KCC	OFFICE USE O	NLY Steel Pit RFAC RFAS				
Date Received: Permit Num	ber:	Permi	t Date: Lease Inspection:  Yes No				



# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form KSONA-1
January 2014
Form Must Be Typed
Form must be Signed
All blanks must be Filled

# CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

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 #	Well Location:
Name:	
Address 1:	County:
Address 2:	Lease Name: Well #:
City: State: Zip:+	If filing a Form T-1 for multiple wells on a lease, enter the legal description of
Contact Person:	the lease below:
Phone: ( ) Fax: ( )	
Email Address:	
Surface Owner Information:	
Name:	When filing a Form T-1 involving multiple surface owners, attach an additional
Address 1:	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
Address 2:	county, and in the real estate property tax records of the county treasurer.
City:	
the KCC with a plat showing the predicted locations of lease roads, tank are preliminary non-binding estimates. The locations may be entered of Select one of the following:   □ I certify that, pursuant to the Kansas Surface Owner Notice A owner(s) of the land upon which the subject well is or will be lead.	dic Protection Borehole Intent), you must supply the surface owners and it batteries, pipelines, and electrical lines. The locations shown on the plat in the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.  Act (House Bill 2032), I have provided the following to the surface ocated: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form being filed is a Form C-1 or Form CB-1, the plat(s) required by this and email address.
KCC will be required to send this information to the surface ov task, I acknowledge that I must provide the name and address that I am being charged a \$30.00 handling fee, payable to the I	tocknowledge that, because I have not provided this information, the vner(s). To mitigate the additional cost of the KCC performing this of the surface owner by filling out the top section of this form and KCC, which is enclosed 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-  Submitted Electronically	

Form	CB1CDP1 - Cathodic Protection Borehole Intent			
Operator Mid-America Pipeline Company, LLC				
Well Name	WLM-98 MP 98.31			
Doc ID	1313795			

## Anode Installation Depths

epth
95
35
75
85
55
J5
35
25
5
05
95
35
75
55
55
l5
35
25
5
05



Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Jay Scott Emler, Chairman Shari Feist Albrecht, Commissioner Pat Apple, Commissioner

August 15, 2016

Mid-America Pipeline Company, LLC 9420 West Sam Houston Parkway North N1.248 PO Box 4324 Houston, TX 77210-4324

RE: Request for Cathodic Wellbore Variance K. A. R. 82-3-702 (b) (4) WLM-98 #MP 98.31 Section 12-T5S-R3E, Washington County

#### Dear Sirs:

The Kansas Corporation Commission has received your request for an exception to the minimum surface pipe requirement for a multiple aquifer cathodic well bore completion as set out in K.A.R. 82-3-702(b)(4). From your request, the KCC understands that you are requesting to set 20 feet of 10" PVC casing and utilize Conducrete backfill in the borehole from 300 feet total depth to 100 feet and neat cement from a depth of 100 feet back to surface.

After review of this matter by technical staff it was determined that the proposed construction method will adequately protect fresh and usable water in this area.

Notify the KCC District #2 office prior to spudding the well so they may have the opportunity to witness the well construction procedure.

Sincerely,

Ryan A. Hoffman

Director

cc: Rene Stucky, Production Supervisor / RF 8-12-16

Jeff Klock - District #2 Supervisor / Via e-mail 8-11-2016

CATHODIC PROTECTION HOL	E COM	Geological	Final Anode	Electric	Before	After	Anode
Native Fill (0'-3')		Formation	Depth	Log	Coke	Coke	No.
Casing (0'-20')	10'		<del></del>	*************			
	20'			•			
	30'			•			
Neat Cement	40'		·				}
(3'-100')	50'		•	**********			·····
	60'						
	70'		<i></i>				
	80'		·				<b></b>
	90'		<b></b>	•			<b> </b>
	100'		<u> </u>				
	110'		105'	•			20
SAE Conducrete	120'		115'				19
(100'-300')	130'		125'	************			18
	140'		135'	•			17
	150'		145'	• · · · · · · · · · · · · · · · · · · ·			16
	160'		155'				15
	170'		165'	**********			14
	180'		175'				13
	190'		185'	,			12
10' Centers 20 SAE Anodes	200'		195'				11
(105'-295')	210'	***************************************	205'	**********			10
	220'		215'				9
	230'		225'	•			8
	240'		235'				7
- 100 mg/s	250'	***************************************	245'	*************			6
	260'		255'	•			5
	270'		265'	•			4
99 30	280'		275'				3
	290'		285'	<u> </u>			2
	300'		295'	·····			1
10	The succession of	Test	: Voltage	•••••	Total		



WLM-98

MP 98.31

INSTALLED FOR: Mid America Pipeline Co. LLC.

RECTIFIER ID:

Location: Linn, KS

INSTALL DATE:

JOB NO: T6EP036

INSPECTOR: Richard Ellwood

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Jay Scott Emler, Chairman Shari Feist Albrecht, Commissioner Pat Apple, Commissioner

According to the drilling pit application, no earthen pits will be used at this location. Steel pits will be used. Please inform the Commission in writing as to which disposal well you utilized to dispose of the contents in the steel pits and the amount of fluid that was disposed. Please file form CDP-5, Exploration and Production Waste Transfer, within 30 days of fluid removal.

Should a haul-off pit be necessary please file form CDP-1, Application for Surface Pit, This location will have to be inspected prior to approval of the haul-off pit application.

A copy of this letter should be posted in the doghouse along with the approved Intent to Drill.