KOLAR Document ID: 1529103

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

## KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form CB-1 Oct 2016 Form must be Typed Form must be Signed All blanks must be Filled

#### CATHODIC PROTECTION BOREHOLE INTENT

Must be approved by the KCC sixty (60) days prior to commencing well.

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act, MUST be submitted with this form.

Expected Spud Date:	Spot Description:
month day year	
	Sec Twp S. R E W
OPERATOR: License#	feet from N / S Line of Section
Name:	feet from E / W Line of Section
Address 1:	Is SECTION: Regular Irregular?
Address 2:	(Check directions from nearest outside corner boundries)
City: State: Zip: +	County:
Contact Person:Phone:	Facility Name:
Priorie	Borehole Number:
CONTRACTOR: License#	Ground Surface Elevation: MSL
Name:	Cathodic Borehole Total Depth: feet
Type Drilling Equipment:	Depth to Bedrock: feet
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:feet	Depth to bottom of usable water:
Length of Conductor pipe (if any): feet	Water well within one-quarter mile: Yes No Public water supply well within one mile: Yes No
Surface casing borehole size: inches	
Cathodic surface casing size: inches	Water Source for Drilling Operations:  Well Farm Pond Stream Other
Cathodic surface casing centralizers set at depths of:;;	Water Well Location:
Cothodia quefosa essina will terminate et:	DWR Permit #
Cathodic surface casing will terminate at:  Above surface Surface Vault Below Surface Vault	Standard Dimension Ratio (SDR) is =
Pitless casing adaptor will be used: Yes No Depth feet	(Cathodic surface csg. O.D. in inches / MWT in inches = SDR)
Filless casing adaptor will be used les ivo leet	Annular space between borehole and casing will be grouted with:
Anode installation depths are:;; ;; ;;	Concrete Neat Cement Bentonite Cement Bentonite Clay
;;;;;;	Anode vent pipe will be set at: feet above surface
	Anode conductor (backfill) material TYPE:
	Depth of BASE of Backfill installation material:
AFFIDAVIT	Depth of TOP of Backfill installation material:
The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101 et. seq.	Borehole will be Pre-Plugged? Yes No
t is agreed that the following minimum requirements will be met:	
	An arranged by toward the consentence of the District Office and the
<ol> <li>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 price</li> </ol>	
2. Notify appropriate District Office 48 hours prior to workover or re-entry.	n to any grounny.
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.
	(form CB-1). b. File Certification of Compliance with Kansas Surface Owner Notification
Act (form KSONA-1) with Cathodic Protection Borehole Intent (CB-1) c. File Comp	letion Form (ACO-1) within 60 days from spud date.
d. Submit plugging report (CP-4) within 60 days after final plugging is completed.	
0 1 20 1 5 1	
Submitted Electronically	
	_
For KCC Use ONLY	
ADI # 15 _	If this parmit has expired or will not be drilled about a bar below size data and anti-
API # 15	If this permit has expired or will not be drilled, check a box below, sign, date and return to the address below.
Conductor pipe requiredfeet	
Minimum Cathodic Surface Casing Required: feet	Permit Expired Well Not Drilled
Approved by:	
Approved by:	
This authorization expires:	Date Signature of Operator or Agent
This authorization expires:	Date Signature of Operator or Agent

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 W	/ell: County:
Facility Nam	ne:								feet from N / S Line of Section
Borehole Nu	ımber:								feet from L E / W Line of Section
							Sec	·	Twp S. R
							Is S	Section:	Regular or Irregular
									Irregular, locate well from nearest corner boundary. er used: NE NW SE SW
							PLAT		
	Show loca	ation of the	e Cathodic	Borehole.	Show foo			ease or un	nit boundary line. Show the predicted locations of
						-			sas Surface Owner Notice Act (House Bill 2032).
					You m	ay attach a	a separate		
-									1065 ft.
		: :	:	: :		:	:	: :	
		: :	:	: :		:	:	:	LEGEND
	••••			· · · · · · · · · · · · · · · · · · ·	••••	· · · · · · · · · · · · · · · · · · ·			O Well Location
		•	:	:		:		لِ	30 ft. Tank Battery Location
		:		:		:	:	:	Pipeline Location
		:	:	:		:	:	•	Electric Line Location
			:					•	Lease Road Location
	•••••		•		••••			•	
			:	:		:	:	• •	
		•	:	1	8	:	<u>:</u>	•	EXAMPLE
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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.;

SEWARD CO. 3390' FEL

- 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.

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# Kansas Corporation Commission Oil & Gas Conservation Division

Form CDP-1 July 2014 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  If Existing, date cor  Pit capacity:	Existing nstructed: (bbls)	SecTwpR East WestFeet from Rast / West 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) N/A: Steel Pits		
Depth fro	om ground level to dee	epest point:	(feet) No Pit		
material, thickness and installation procedure.		inioi integrity, ii	ncluding 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 s flow into the pit? Yes No	pilled fluids to	Drill pits must be closed within 365 days of spud date.			
Submitted Electronically					
	KCC (	OFFICE USE O	NLY  Liner Steel Pit RFAC RFAS		
Date Received: Permit Num	ber:	Perm	it Date: Lease Inspection:		

KOLAR Document ID: 1529103

### Kansas Corporation Commission Oil & Gas Conservation Division

Form KSONA-1
July 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).

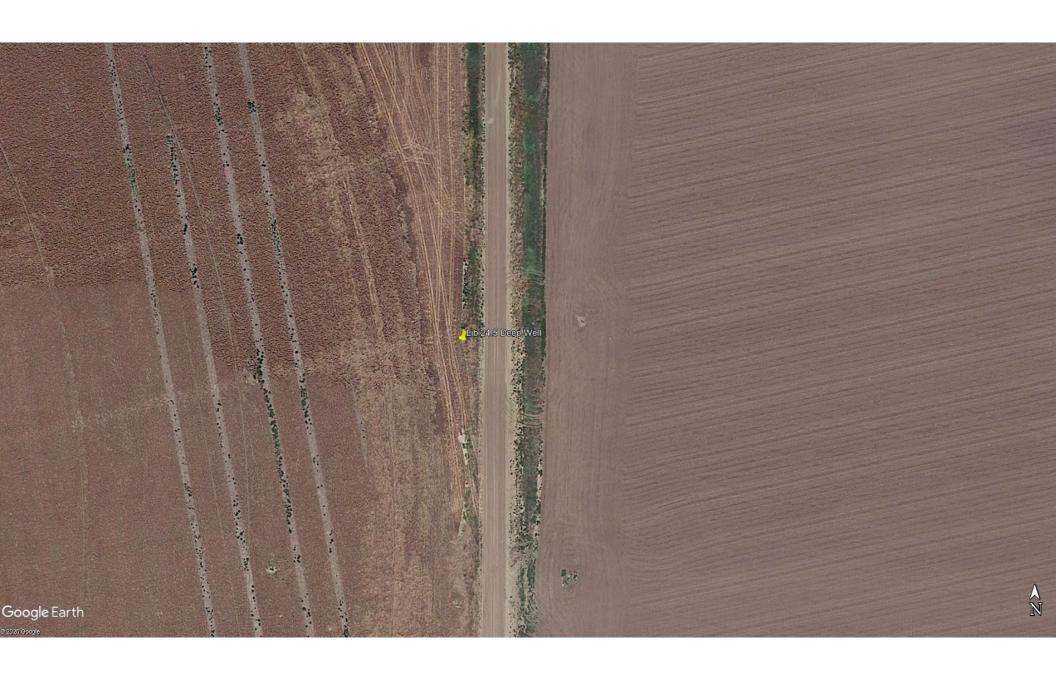
Any such form submitted without an accompanying Form KSONA-1 will be returned.

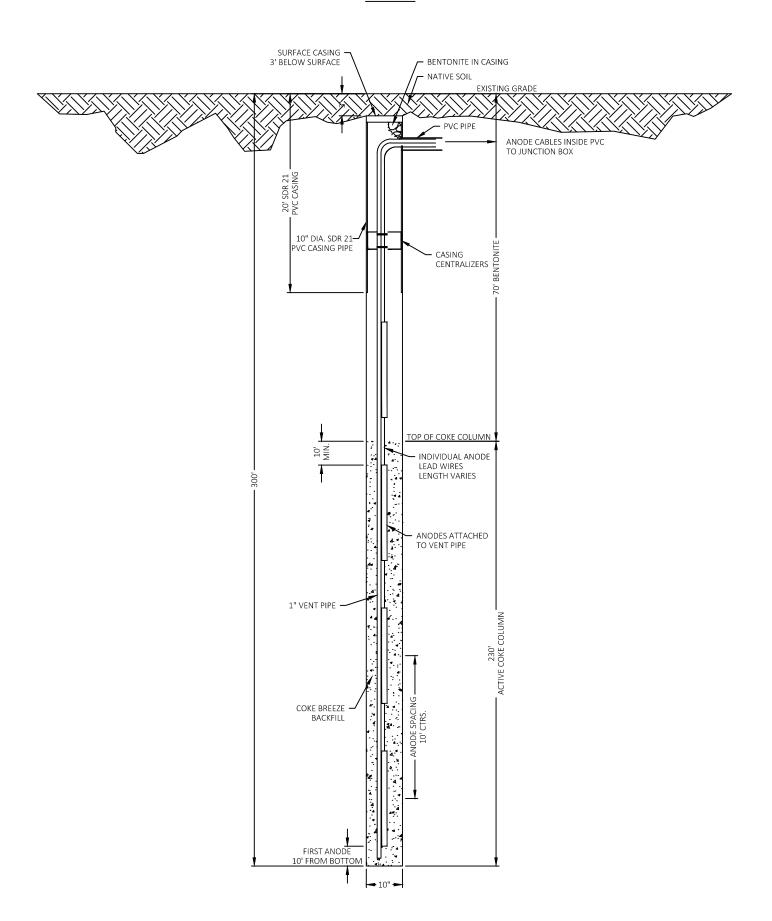
Select the corresponding form being filed: C-1 (Intent) CB-1	(Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)
OPERATOR: License #	Well Location: SecTwpS. R East West County: Lease Name: Well #:  If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:
Surface Owner Information:         Name:	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.
the KCC with a plat showing the predicted locations of lease roads, tall	odic Protection Borehole Intent), you must supply the surface owners and nk batteries, pipelines, and electrical lines. The locations shown on the plat on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.
owner(s) of the land upon which the subject well is or will be	Act (House Bill 2032), I have provided the following to the surface located: 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 of	acknowledge that, because I have not provided this information, the owner(s). To mitigate the additional cost of the KCC performing this as of the surface owner by filling out the top section of this form and KCC, which is enclosed with this form.
If choosing the second option, submit payment of the \$30.00 handling form and the associated Form C-1, Form CB-1, Form T-1, or Form CF	g fee with this form. If the fee is not received with this form, the KSONA-1 P-1 will be returned.
Submitted Electronically	
I	<del>-</del>

Form	CB1CDP1 - Cathodic Protection Borehole Intent
Operator	Pan Gas Storage, LLC dba Southwest Gas Storage Company
Well Name	Lib 24.5 1
Doc ID	1529103

# Anode Installation Depths

epth	
90	
80	
70	
60	
50	
40	
30	
20	
10	
00	
90	
80	
70	
60	
50	
40	
30	
20	
10	
00	





300' - TYPICAL DEEPWELL (QTY - 20 ANODES)
NOT TO SCALE

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



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

Laura Kelly, Governor

Susan K. Duffy, Chair Dwight D. Keen, Commissioner Andrew J. French, 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.