KOLAR Document ID: 1725251

For KCC Use:
Effective Date: 09/17/2023
District # 4
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: 10/01/2023 (month / day / year)

OPERATOR: License# 34952
Name: Tallgrass Interstate Gas Transmission, LLC
Address 1: 3808 28TH AVE, STE B
Address 2:
City: KEARNEY State: NE Zip: 68845 + 1290
Contact Person: Mark Bredemeier
Phone: 785-269-7003

CONTRACTOR: License# 35834
Name: Citation Drilling & Boring, LLC
Type Drilling Equipment: ☑ Mud Rotary ☐ Cable ☐ Air Rotary ☐ Other

Construction Features
Length of Cathodic Surface *(Non-Metallic)* Casing Planned to be set: 20 feet
Length of Conductor pipe *(if any)*: 0 feet
Surface casing borehole size: 16 inches
Cathodic surface casing size: 10 inches
Cathodic surface casing centralizers set at depths of: 20 ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ;
Cathodic surface casing will terminate at:
☐ Above surface ☐ Surface Vault ☑ Below Surface Vault
Pitless casing adaptor will be used: ☐ Yes ☑ No Depth _____ feet
Anode installation depths are: Attached ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ; _____ ;

Spot Description:
NW - NE - SW - SW (Q/Q/Q/Q) Sec. 11 Twp. 15 S. R. 28 ☐ E ☑ W
1235 feet from ☐ N / ☑ S Line of Section
940 feet from ☐ E / ☑ W Line of Section
Is SECTION: ☑ Regular ☐ Irregular?
(Check directions from nearest outside corner boundries)
County: Gove
Facility Name: Shields Northeast #3
Borehole Number: Well #1
Ground Surface Elevation: 2539 Estimated MSL
Cathodic Borehole Total Depth: 300 feet
Depth to Bedrock: 10 feet

Water Information
Aquifer Penetration: ☐ None ☑ Single ☐ Multiple
Depth to bottom of fresh water: 150
Depth to bottom of usable water: 950
Water well within one-quarter mile: ☐ Yes ☑ No
Public water supply well within one mile: ☐ Yes ☑ No
Water Source for Drilling Operations:
☐ Well ☐ Farm Pond ☐ Stream ☑ Other
Water Well Location:
DWR Permit # Apply if needed
Standard Dimension Ratio (SDR) is = 26
(Cathodic surface csg. O.D. in inches / MWT in inches = SDR)
Annular space between borehole and casing will be grouted with:
☐ Concrete ☐ Neat Cement ☐ Bentonite Cement ☑ Bentonite Clay
Anode vent pipe will be set at: 3 feet above surface
Anode conductor *(backfill)* material TYPE: Lorseco SC-2
Depth of BASE of Backfill installation material: 300
Depth of TOP of Backfill installation material: 30
Borehole will be Pre-Plugged? ☐ Yes ☑ No

AFFIDAVIT

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:

1. *Notify the appropriate District office prior to spudding and again before plugging the well. An agreement between the operator and the District Office on plugs and placement is necessary prior to plugging. In all cases, notify District Office prior to any grouting.*
2. *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.*
5. *File all required forms: a. File Drill Pit Application (form CDP-1) with Intent to Drill (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 Completion Form (ACO-1) within 60 days from spud date. d. Submit plugging report (CP-4) within 60 days after final plugging is completed.*

Submitted Electronically

For KCC Use ONLY
API # 15 - 15-063-22435-00-00
Conductor pipe required 0 feet
Minimum Cathodic Surface Casing Required: 20 feet
Approved by: CeLena Peterson 09/12/2023
This authorization expires: 09/12/2024
(This authorization void if drilling not started within 12 months of approval date.)
Spud date: _____ Agent: _____

If this permit has expired or will not be drilled, check a box below, sign, date and return to the address below.
☐ *Permit Expired* ☐ *Well Not Drilled*

_____ _____
Date *Signature of Operator or Agent*

11 15 28 ☐ E ☑ W

Mail to: KCC - Conservation Division, 266 N Main St, Ste 220, Wichita, KS 67202-1513

Side Two

For KCC Use ONLY
API # 15 - 15-063-22435-00-00

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: Tallgrass Interstate Gas Transmission, LLC
Facility Name: Shields Northeast #3
Borehole Number: Well #1

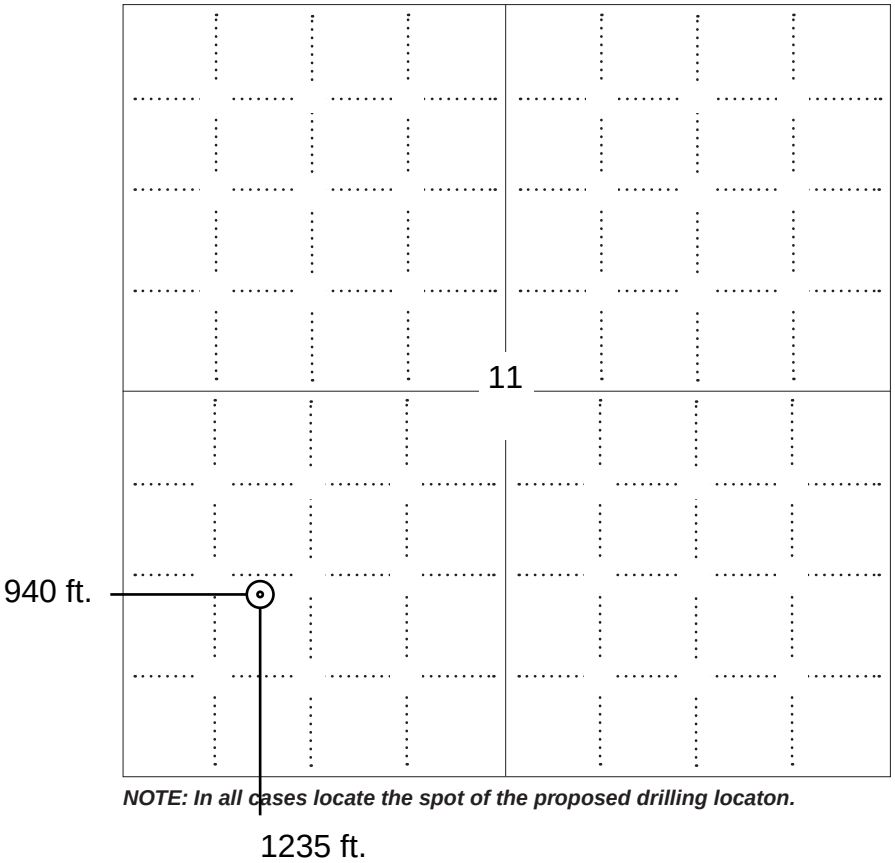
Location of Well: County: Gove
1235 feet from ☐ N / ☑ S Line of Section
940 feet from ☐ E / ☑ W Line of Section
Sec. 11 Twp. 15 S. R. 28 ☐ E ☑ W

Is Section: ☑ Regular or ☐ Irregular

If Section is Irregular, locate well from nearest corner boundary.
Section corner used: ☐ NE ☐ NW ☐ SE ☐ SW

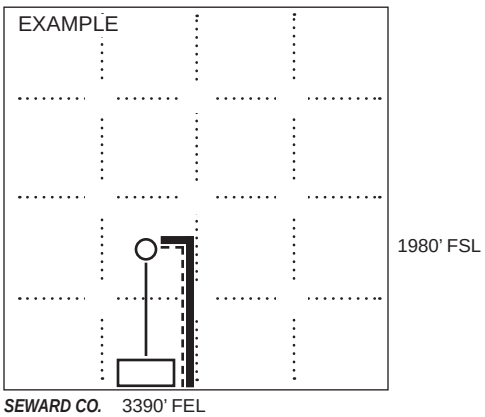
PLAT

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 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.

KOLAR Document ID: 1725251

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: Tallgrass Interstate Gas Transmission, LLC
License Number: 34952

Operator Address: 3808 28TH AVE, STE B KEARNEY NE 68845

Contact Person: Mark Bredemeier
Phone Number: 785-269-7003

Lease Name & Well No.: Shields Northeast #3 Well #1

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)

Pit Location (QQQQ): NW - NE - SW - SW
Sec. 11 Twp. 15 R. 28 ☐ East ☑ West
1235 Feet from ☐ North / ☒ South Line of Section
940 Feet from ☐ East / ☒ West Line of Section
Gove County

Is the pit located in a Sensitive Ground Water Area? ☐ Yes ☒ No

Chloride concentration: mg/l
(For Emergency Pits and Settling Pits only)

Is the bottom below ground level? ☐ Yes ☐ No

Artificial Liner? ☐ Yes ☐ No

How is the pit lined if a plastic liner is not used?
Steel Pits

Pit dimensions (all but working pits): Length (feet) Width (feet) ☒ N/A: Steel Pits

Depth from ground level to deepest point: (feet) ☐ No Pit

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

No Liners Steel Pits

Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.

No Liners - Steel Pits

Distance to nearest water well within one-mile of pit:
feet Depth of water well feet

Depth to shallowest fresh water feet.
Source of information:
☐ measured ☐ well owner ☐ electric log ☐ 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? ☐ Yes ☐ 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.

Submitted Electronically

KCC OFFICE USE ONLY

☐ Liner ☒ Steel Pit ☒ RFAC ☐ RFAS

Date Received: 09/08/2023 Permit Number: 15-063-22435-00-00 Permit Date: 09/11/2023 Lease Inspection: ☐ Yes ☒ No

Mail to: KCC - Conservation Division, 266 N Main St, Ste 220, Wichita, KS 67202-1513

KOLAR Document ID: 1725251

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form KSONA-1
July 2021
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 # 34952
Name: Tallgrass Interstate Gas Transmission, LLC
Address 1: 3808 28TH AVE, STE B
Address 2:
City: KEARNEY State: NE Zip: 68845 + 1290
Contact Person: Mark Bredemeier
Phone: (785) 269-7003 Fax: ( )
Email Address: mark.bredemeier@tallgrass.com

Well Location:
NW NE SW SW Sec. 11 Twp. 15 S. R. 28 ☐ East ☒ West
County: Gove
Lease Name: Shields Northeast #3 Well #: Well #1

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

Surface Owner Information:
Name: Valhalla Ranch, LLC - Attn: DeeAnn Wilkison
Address 1: 417 C.R. #58
Address 2:
City: Dighton State: KS Zip: 67839 +

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 (*see* Chapter 55 of the Kansas Statutes Annotated), 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 must provide the name and address of the surface owner by filling out the top section of this form and 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.

Submitted Electronically

Form	CB1CDP1 - Cathodic Protection Borehole Intent
Operator	Tallgrass Interstate Gas Transmission, LLC
Well Name	Shields Northeast #3 Well #1
Doc ID	1725251

Anode Installation Depths

Depth
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60

Form	CB1CDP1 - Cathodic Protection Borehole Intent
Operator	Tallgrass Interstate Gas Transmission, LLC
Well Name	Shields Northeast #3 Well #1
Doc ID	1725251

Anode Installation Depths

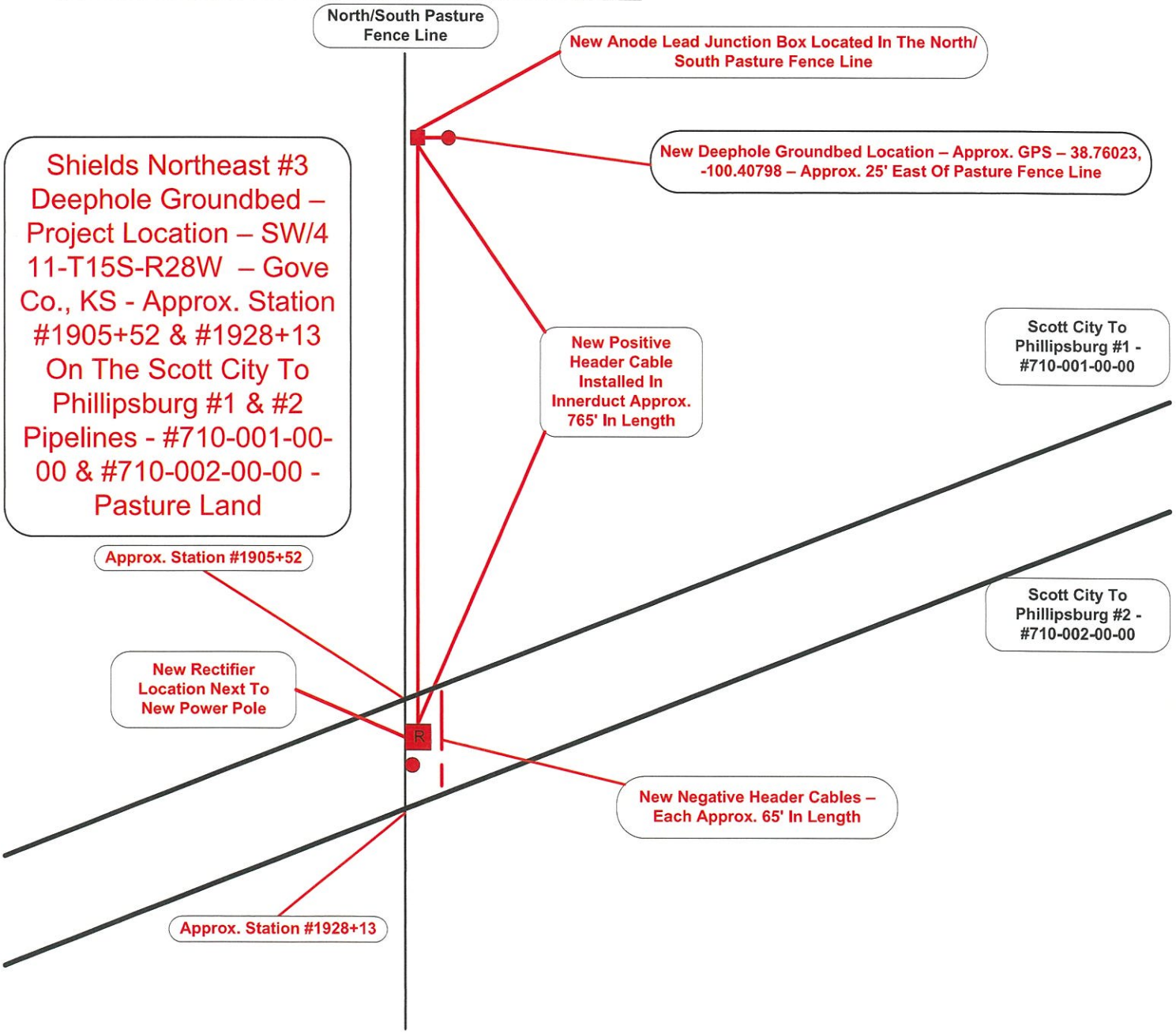
Depth
50

TIGT – Scott City To Phillipsburg #1 & #2 Pipelines
#710-001-00-00 & #710-002-00-00
Shields Northeast #3 Deephole Groundbed Installation
AFE #11114
SW/4 11-T15S-R28W – Gove Co., KS

DRAWN BY: MARK BREDEMEIER	NOT TO SCALE	DATE:5/16/2023

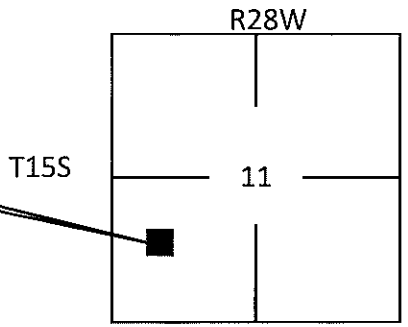
CATHODIC PROTECTION DEEPHOLE GROUNDBED

Groundbed To Consist Of 25 - 4"x80" Graphite Anodes – Installed In A 10" Hole – Drilled 300' Deep. Metallurgical Coke Breeze Pumped Into Deephole Around The 4"x80" Graphite Anodes As The Backfill Media. Leads From The Graphite Anodes To Be Trenched To A Junction Box Installed In The North/ South Pasture Fence. A New Positive Header Cable Installed In Innerduct To Be Installed From The New Junction Box Location And Run Approx. 765' South To The New Rectifier And Power Pole Location And Terminate. New Deephole Groundbed To Be Installed Approx. 25' East Of The North/South Pasture Fence Line, Approx. 765' North Of The New Rectifier And New Power Pole, And Approx. 700' North Of The North 12" Pipeline Location With All Wires Buried Approx. 42" Deep. New Negative Header Cables To Be Installed From Both Pipelines To The New Rectifier Location And Terminate With Wires Buried Approx. 42" Deep.



Shields Northeast #3
2023 Deephole Groundbed Installation

NOT DRAWN TO SCALE



SW/4 11-T15S-R28W
Gove Co., KS

Deephole Groundbed Location

Top Of Borehole And Casing 3' Below Ground Level

Well Bore Diagram

50# Bags Of 100% Bentonite Chips Used To Seal 10"X20' Casing In 16" Hole

Top Of Last Anode - 50'

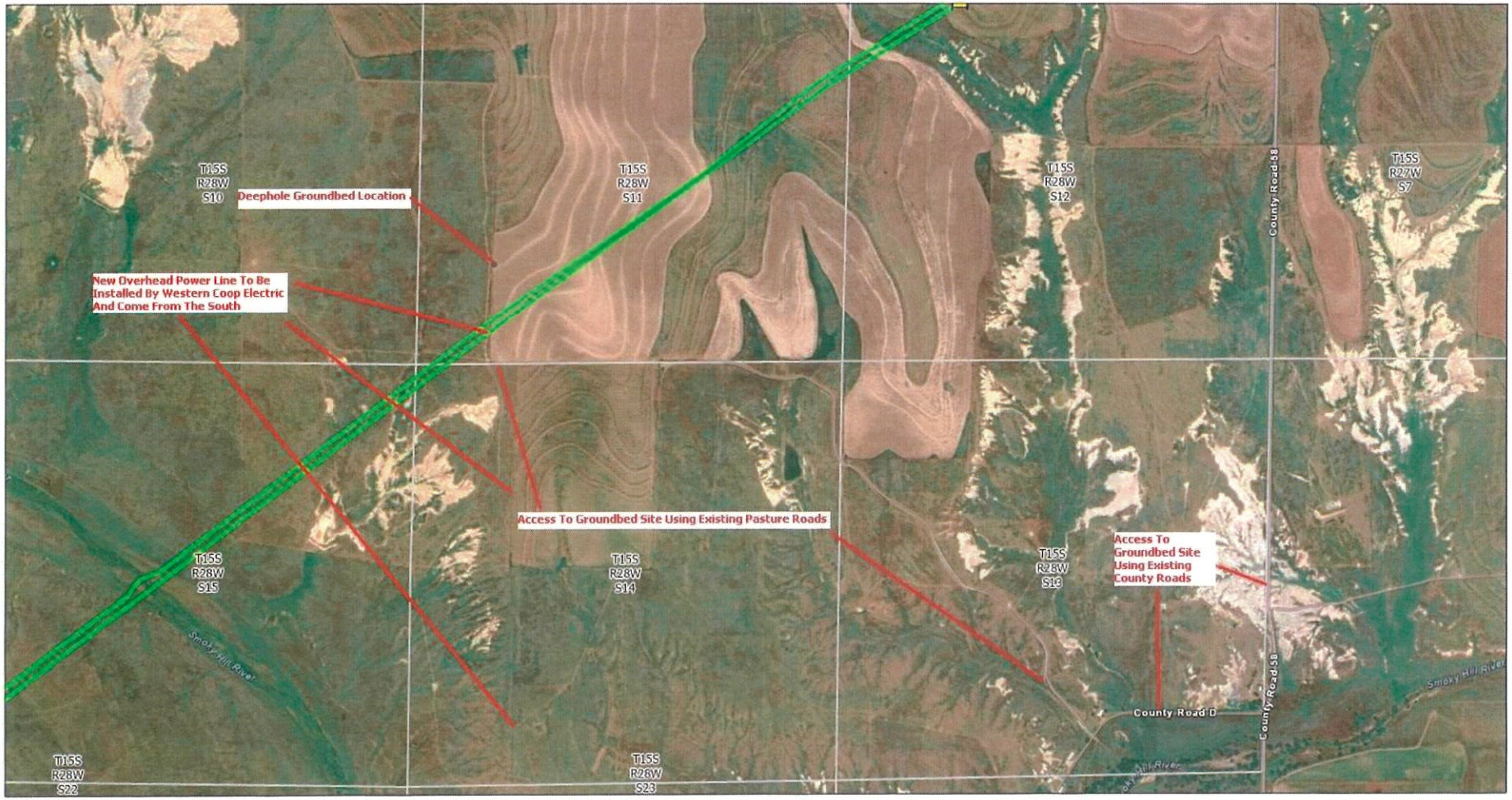
50# Bags Of Bentonite Chips Used To Plug Well From Top Of Coke Column To Top Of Casing

Top Of Coke Backfill Column

25 - 4"X80" Graphite Anodes Evenly Spaced In 300' Column Coke Backfill Installed Around Anode Column

Cables From Anodes

ArcGIS Web Map



9/8/2023, 11:24:01 AM

Sections

Centerline Operator

TIGT

Valves

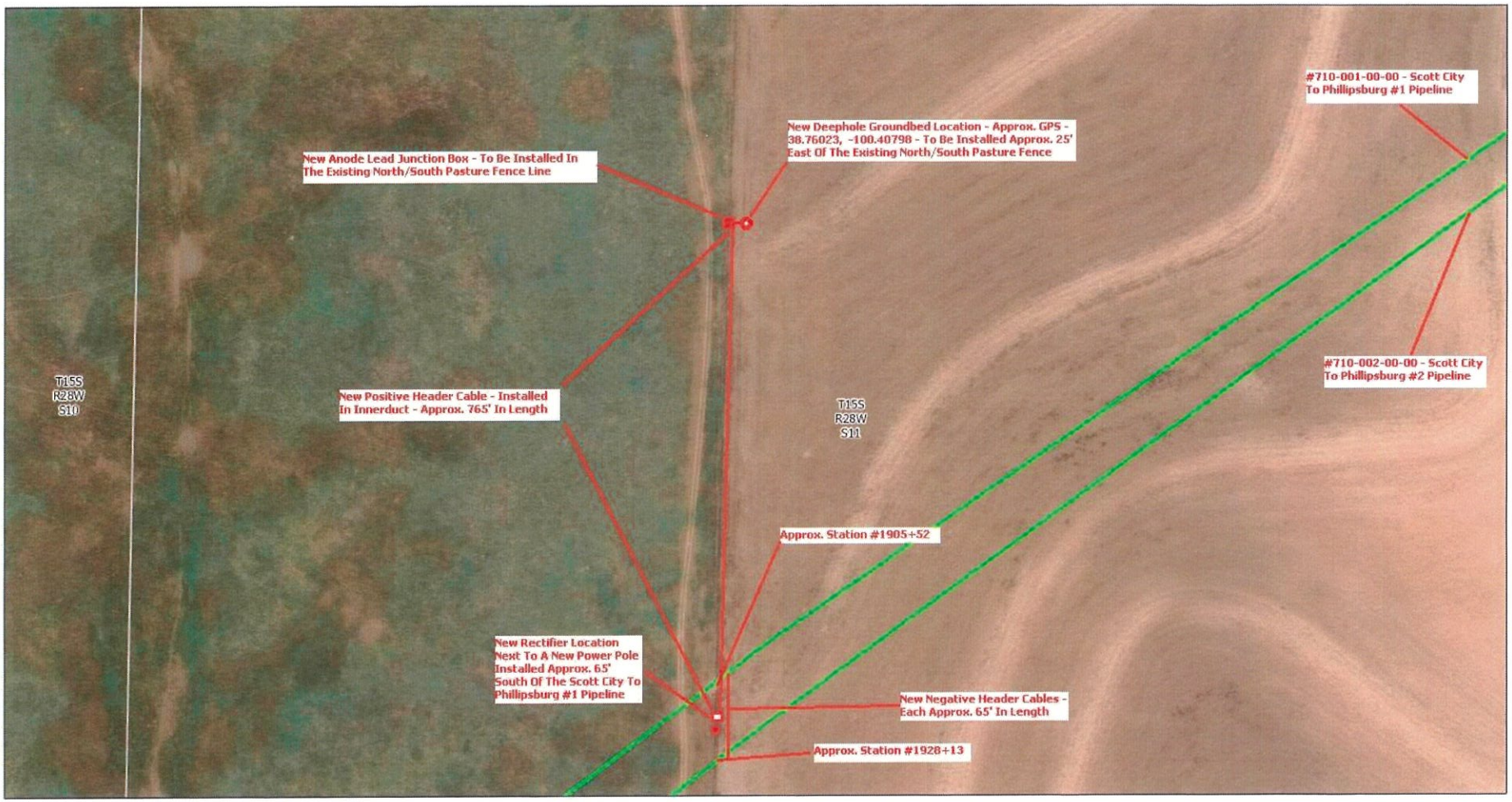
<all other values>

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

ArcGIS Web Map



9/8/2023, 11:01:44 AM

Sections

Centerline Operator

TIGT

1:2,257

0 0.02 0.04 0.08 mi

0 0.04 0.07 0.14 km

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

Kansas
Corporation Commission

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

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.