KOLAR Document ID: 1748054

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33139
Name: Natural Gas Pipeline Company of America LLC
Address 1: 195 RD P
Address 2:
City: RICHFIELD State: KS Zip: 67953 + __ __ __ __
Contact Person: James Wood
Phone: (970) 897-3271
CONTRACTOR: License # 35834
Name: Citation Drilling & Boring, LLC
Wellsite Geologist: N/A
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☑ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

6/25/2023 Spud Date or Recompletion Date
6/28/2023 Date Reached TD
6/29/2023 Completion Date or Recompletion Date

API No.: 15-201-20044-00-00
Spot Description:
NW - NW - NE - NE Sec. 26 Twp. 1 S. R. 2 ☑ East ☐ West
35 Feet from ☑ North / ☐ South Line of Section
1264 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Washington
Lease Name: AMA 434 Well #: 1
Field Name:
Producing Formation: N/A
Elevation: Ground: 1509 Kelly Bushing: 0
Total Vertical Depth: 250 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 20 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls
Dewatering method used:
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☐ **II** ☑ **III** **Approved by:** Todd Bryant **Date:** 01/28/2024

Operator Name: Natural Gas Pipeline Company of America LLC Lease Name: AMA 434 Well #: 1

Sec. 26 Twp. 1 S. R. 2 ☑ East ☐ West County: Washington

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☐ Yes	☑ No
Geologist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
N/A	N/A	N/A

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	14	10.750	9.1	20	Bentonite	15	N/A

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

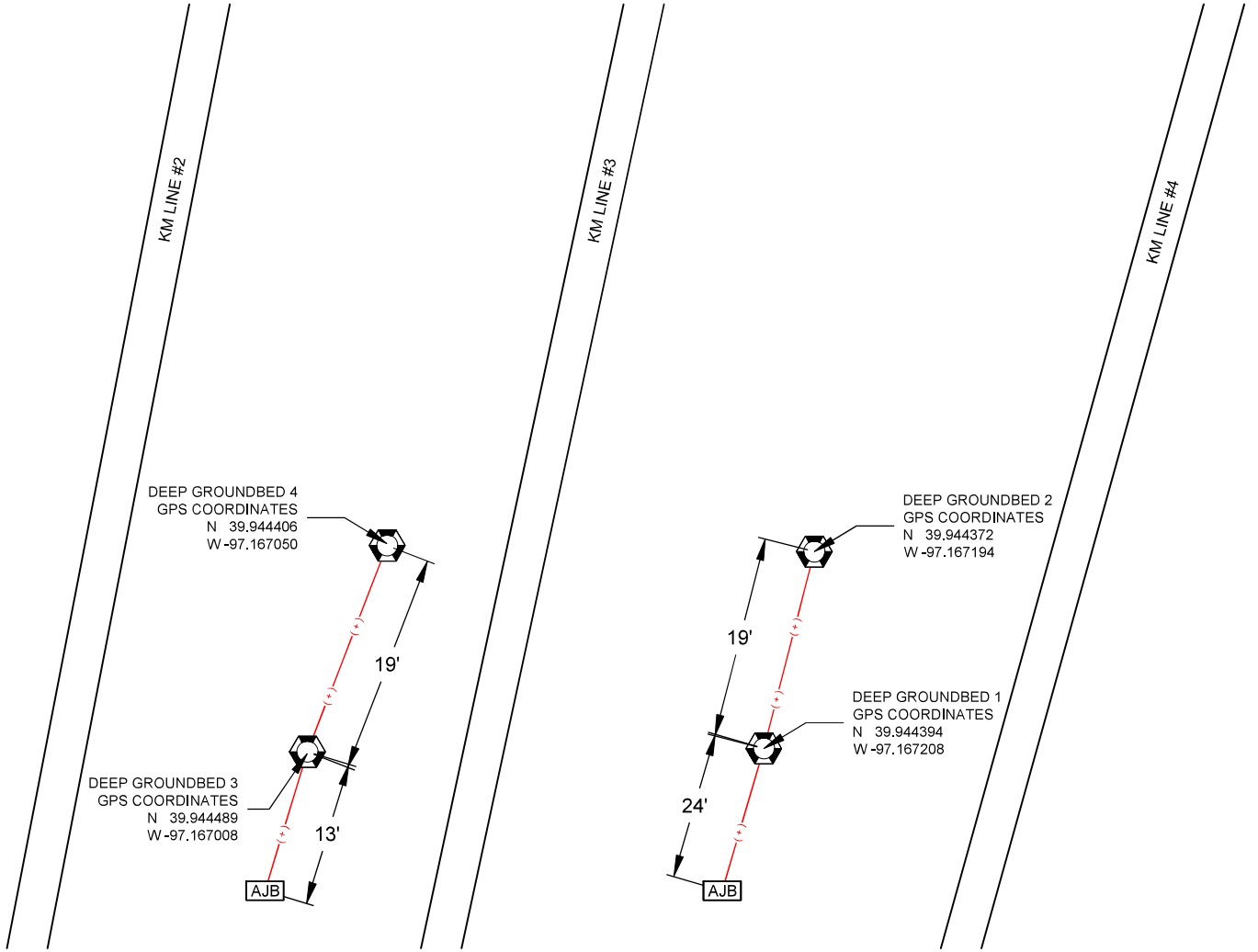
TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Natural Gas Pipeline Company of America LLC
Well Name	AMA 434 1
Doc ID	1748054

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	14	10.750	9.1	20	Bentonite	15	N/A



DEEP GROUNDBED INSTALLATION
(4) 10"X250'
13 OF 2660 CAST IRON ANODES
WITH #6 HMWPE ANODE LEADS
5,000# LORESCO SC-3 COKE BREEZE
1,850# BENTONITE HOLE PLUG
20' OF 10" SDR-21 PVC CASING WITH CAP

REVISIONS					
No.	Description	Drawn By:	Date	Chk'd By:	Date

DEEP GROUNDBED LEGEND

- DEEP GROUNDBED
- ANODE JBOX
- NEG. CONNECTION
- RECTIFIER
- POSITIVE CABLE
- NEGATIVE CABLE
- PIPELINE ASSETS

Drawn By: J. GREENFIELD	Date: 6/2023
Checked By: R. McCLAIN	Date: 6/2023

MERIDIAN PIPELINE SERVICES
CORROSION • INTEGRITY • CONSTRUCTION

CATHODIC PROTECTION LAYOUT
AMA 434
DEEP GROUNDBED INSTALLATION

MORROWVILLE KS

Project No.	Sheet No.	Revision:
2023-0211	1	0

CITATION DRILLING & BORING

DEEP GROUNDBED DRILL LOG & RECTIFIER FORM

CLIENT INFORMATION

Client	Kinder Morgan					Job Number	2023-0211
Facility	AMA 434N DW4					Customer Contact	Kevin Brown
City	Morrowville	County	Washington	State	Ks	Phone No.	+1 (308) 325-3563

DEEP GROUNDBED & DRILLING LOG INFORMATION

☑ New Installation ☐ Existing Rectifier

Hole Dia.	10"	Total Depth	250'	Casing Feet	20'	Dia.	10"	Type	SDR21 PVC	Groundbed GPS	
No. Anodes	13	Size & Type	2660 cast iron	Anode Lead	300'	Size	#6	Type	HWMPE	N	39.944406
Lbs. Coke	5000	Coke Type	SC3	Top of Coke Column		108'		Vent	140'	W	-97.16785
Lbs. Plug	2500	Plug Type	Bentonite	Top of Plug	3'			Logging Volts		12.8	

Depth Ft.	DRILLER'S LOG	Anode NO.	Electric Log				Depth Ft.	DRILLER'S LOG	Anode NO.	Electric Log			
			Volts	Amps Before	Amps After	Remarks				Volts	Amps Before	Amps After	Remarks
0							205		5			7.2	
5							210	Sandy Clay			1.1		
10	Casing						215		4			7.0	
15							220	Sandy Clay			1.2		
20	Casing						225		3			6.1	
25							230	Sandy Clay			1.3		
30	Sand stone			.4			235		2			2.9	
35							240	Sandy Clay			1.2		
40	Sand stone			.8			245		1			3.0	
45							250	Sandy Clay			1.0		
50	Sandy clay			.3			255						
55							260						
60	Sandy clay			.4			265						
65							270						
70	Sandy clay			.6			275						
75							280						
80	Sandy clay			.8			285						
85							290						
90	Sandy Clay			.4			295						
95							300						
100	Sandy clay			.8			305						
105							310						
110	Sandy Clay			.5			315						
115							320						
120	Red clay			1.2			325						
125		13			8.3		330						
130	Red clay			1.7			335						
135		12			8.3		340						
140	Red clay			1.6			345						
145		11			7.6		350						
150	Red clay			1.4			355						
155		10			8.2		360						
160	Red clay			1.2			365						
165		9			8.7		370						
170	Red clay			1.2			375						
175		8			8.7		380						
180	Red clay			1.5			385						
185		7			6.8		390						
190	Sandy clay			1.5			395						
195		6			7.1		400						
200	Sandy Clay			.9					Total				

ANODE JUNCTION BOX INFORMATION

ANODE JUNCTION BOX												COMMENTS
Cir.	Amp	Cir.	Amp	Cir.	Amp	Cir.	Amp	Cir.	Amp	Cir.	Amp	
1		6		11		16		21		26		
2		7		12		17		22		27		
3		8		13		18		23		28		
4		9		14		19		24		29		
5		10		15		20		25		30		
Shunt		Mv		Amp						TOTAL		

RECTIFIER INFORMATION

Manufacturer			Rectifier ID Number					
Model No.		DC Volts		AC Volts		Max Coarse		Shunt Amp
Serial No.		DC Amps		AC Amps		Max Fine		Shunt mV
GPS Coordinates	Latitude	N		Longitude	W			
RMU Type			Serial Number					

ENERGIZED INFORMATION

☐ No A/C Power ☐ #12 Lead Installed with Negative

Coarse Tap Setting		of		AC Volts		DC Volts		DC Amps	
Fine Tap Setting		of		AC Amps		DC mV		Structure PS	
Calculated Ground Bed Resistance				Calculated Rectifier Efficiency					

ASBUILT DRAWING

DEEP BED · NEGATIVE JUNCTION BOX · POSITIVE JUNCTION BOX · ANODE JUNCTION BOX (AJB) · RECTIFIER (R) · WELL HEAD · POWER POLE · COUPON TEST STATION (TS) · AC POWER POLE (AC) · BLOCK VALVE · REFERENCE CELL (REF) · MAG ANODE (MAG) · VERTICAL CAST-IRON ANODE · HORIZONTAL CAST-IRON ANODE

Remarks: _____

Technician/Foreman _____ **Date** _____