

Form	ACO1 - Well Completion
Operator	Mid-Continent Fractionation and Storage LLC
Well Name	CUE-TRUCK LOADING RACK 24 (1)
Doc ID	1820925

All Electric Logs Run

3.4
4.0
3.1
3.8
3.6
2.2
3.8
5.2
6.5
7.1

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Tops

Name	Top	Datum
Top Soil	0	3
Brown Clay	3	15
Red Bed	15	19
Red Bed and Green Shale	19	40
Red Bed	40	55
Red Bed and Green Shale	55	65
Red Shale	65	70
Red and Green Shale w/pieces of Gypsum	70	80
Blueish Gray Shale	80	85
Red and Green Shale	85	90
Red & Green Shale w/Gypsum	90	105
Blueish Gray Shale w/Gypsum	105	190

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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	16	8	200	60	Neat	78	N/A

CITATION

DEEP GROUND BED DRILL LOG & RECTIFIER FORM

DRILLING & BORING

CLIENT INFORMATION

Client	Williams					Job Number	2024-0370				
Facility	Cue truck loading facility					Customer Contact	David Spahr				
City	Conway	County	Mcperson	State	ks	Phone No.	580-729-8185				

DEEP GROUND BED & DRILLING LOG INFORMATION

☐ New Installation ☒ Existing Rectifier

Hole Dia.	8"	Total Depth	190'	Casing Feet	60'	Dia.	8"	Type	Sch-40 PVC	Groundbed GPS				
No. Anodes	10	Size & Type	Uda 2.5/100mmo	Anode Lead	350'	Size	#8	Type	Halar	N	38.361553			
Lbs. Coke	5000	Coke Type	SC3	Top of Coke Column	80'	Vent	120'	W	-97.777822					
Lbs. Plug	250	Plug Type	Bentonite	Top of Plug	75'	Logging Volts				13.2				

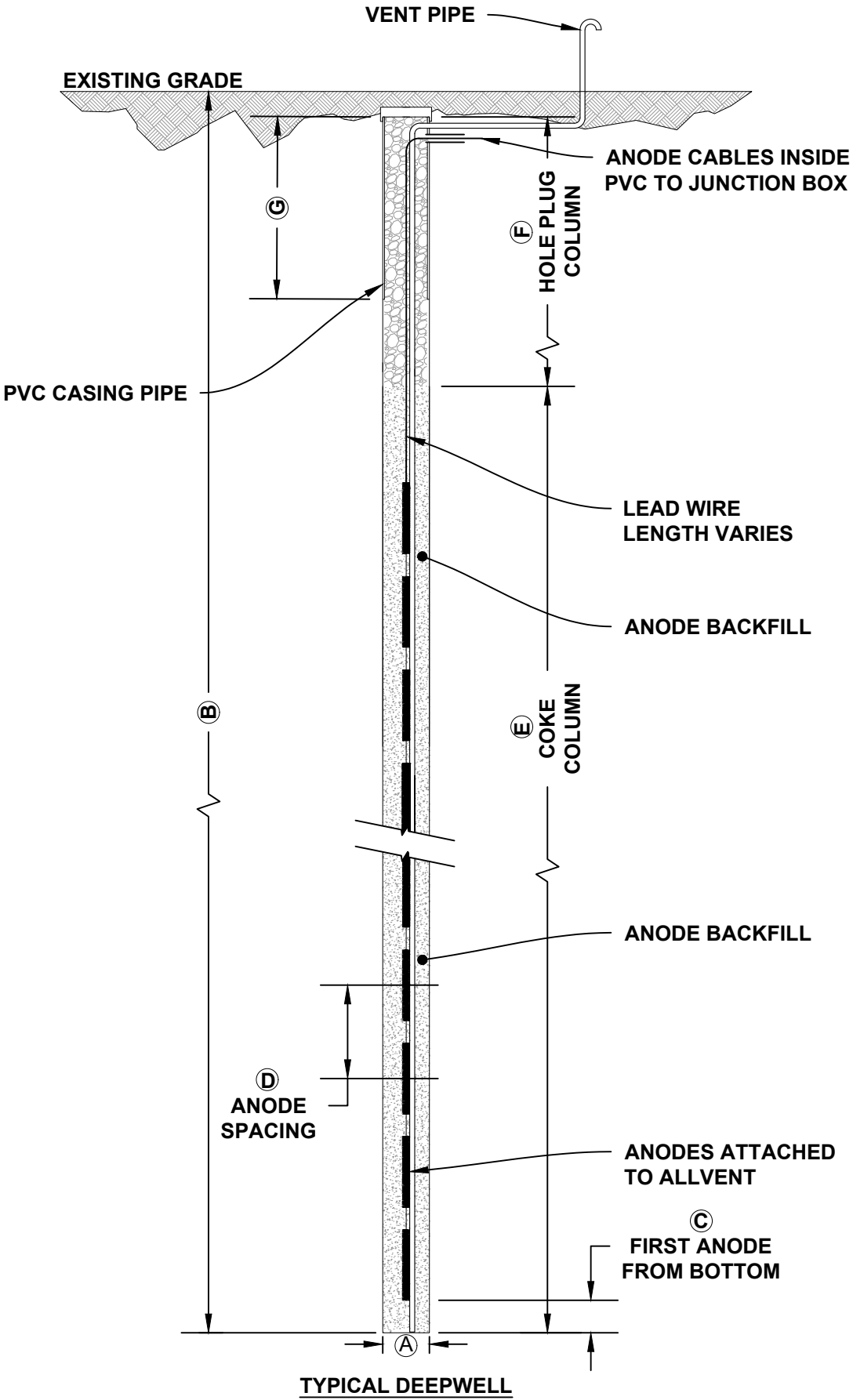
Depth Ft.	DRILLER'S LOG	Anode NO.	Electric Log				Depth Ft.	DRILLER'S LOG	Anode NO.	Electric Log			
			Volts	Amps Before	Amps After	Remarks				Volts	Amps Before	Amps After	Remarks
0							205						
5							210						
10	Caing						215						
15							220						
20	Casing						225						
25							230						
30	Casing						235						
35							240						
40	Casing						245						
45							250						
50	Casing						255						
55							260						
60	Casing						265						
65							270						
70	Red Shale						275						
75							280						
80	Red Shale						285						
85							290						
90	Coke						295						
95							300						
100	Coke	10			3.4		305						
105							310						
110	Coke	9			4.0		315						
115							320						
120	Coke	8			3.1		325						
125							330						
130	Coke	7			3.8		335						
135							340						
140	Coke	6			3.6		345						
145							350						
150	Coke	5			2.2		355						
155							360						
160	Coke	4			3.8		365						
165							370						
170	Coke	3			5.2		375						
175							380						
180	Coke	2			6.5		385						
185							390						
190	Coke	1			7.1		395						
195							400						
200										Total			

ANODE JUNCTION BOX INFORMATION

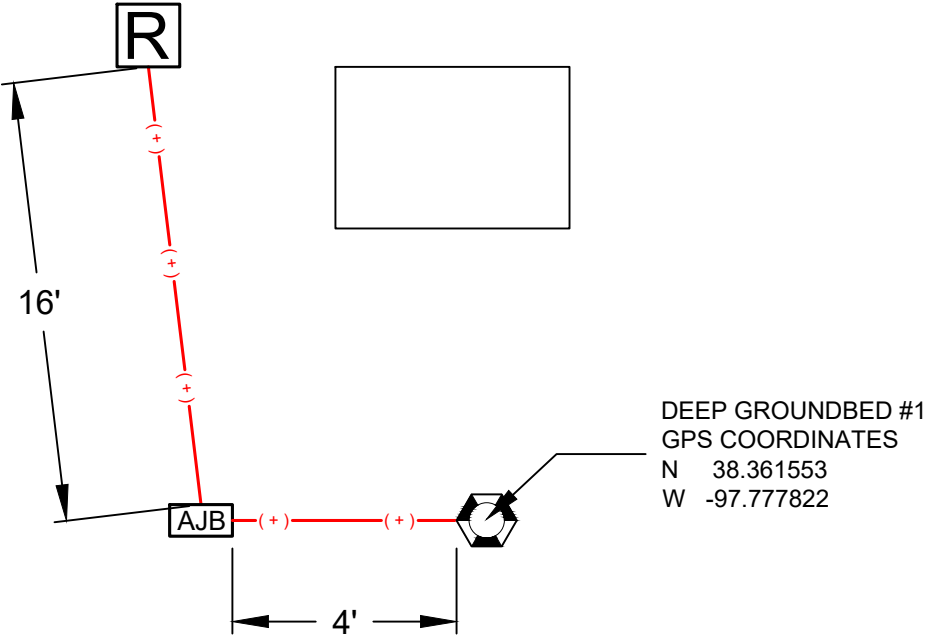
ANODE JUNCTION BOX												COMMENTS
Cir.	Amp	Cir.	Amp	Cir.	Amp	Cir.	Amp	Cir.	Amp	Cir.	Amp	
1		6		11		16		21		26		
2		7		12		17		22		27		
3		8		13		18		23		28		
4		9		14		19		24		29		
5		10		15		20		25		30		
Shunt	Mv		Amp					TOTAL				

BILL OF MATERIALS			
ITEM	DESCRIPTION	QTY.	UNITS
1	UNIVERSAL ASAI 053197 30V/30A 115/230 1 PHASE	1	EACH
2	ANODES, SET OF 10, 2.5" x 100" LIDA MMO, 10' CENTERS AT 350', #8 HALAR	1	EACH
3	SC-3 COKE BREEZE	100	50 LB BAGS
4	BENTONITE PLUG	5	50 LB BAGS

DIMENSIONS			
CALLOUT	ITEM	DIMENSIONS	UNITS
Ⓐ	HOLE DIAMETER	8	IN
Ⓑ	HOLE DEPTH	190	FT
Ⓒ	FIRST ANODE FROM BOTTOM	5	FT
Ⓓ	ANODE SPACING	10	FT CTC
Ⓔ	ANODE BACKFILL COLUMN	115	FT
Ⓕ	HOLE PLUG COLUMN	75	FT
Ⓖ	CASING LENGTH	20	FT



REVISIONS						DEEP GROUND BED LEGEND		Drawn By:	Date:			CATHODIC PROTECTION LAYOUT CUE - TRUCK LOADING FACILITY DEEP GROUND BED INSTALLATION		MCPHERSON Project No. 2024-0370		KS Sheet No. 2 of 2 Revision: 0	
No.	Description	Drawn By:	Date	Chk'd By:	Date	 DEEP GROUND BED	 POSITIVE CABLE	J. GREENFIELD	2024								
						 ANODE JBOX	 NEGATIVE CABLE			Checked By: R. McClain		Date: 2024					
						 NEG. CONNECTION	 PIPELINE ASSETS										
						 RECTIFIER											



REVISIONS						DEEP GROUND BED LEGEND				Drawn By: J. GREENFIELD	Date: 2024		CATHODIC PROTECTION LAYOUT CUE - TRUCK LOADING FACILITY DEEP GROUND BED INSTALLATION			
No.	Description	Drawn By:	Date	Chk'd By:	Date	 DEEP GROUND BED	 POSITIVE CABLE	 ANODE JBOX	 NEGATIVE CABLE							
						 NEG. CONNECTION	 PIPELINE ASSETS									
						 RECTIFIER										

MCPHERSON		KS	
Project No.	2024-0370	Sheet No. 1 of 2	Revision: 0