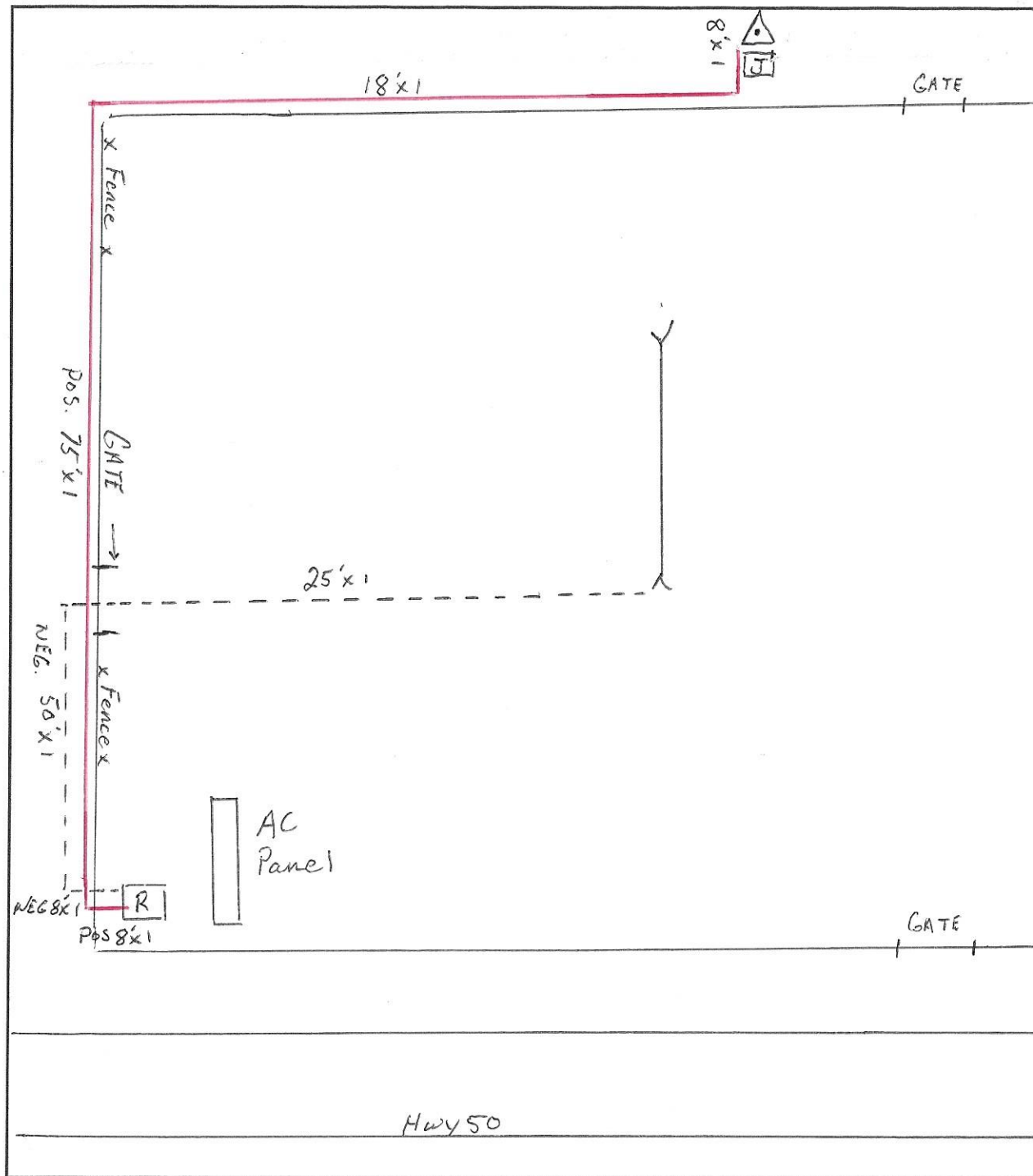


ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Form	ACO1 - Well Completion
Operator	Bluestem Pipeline LLC
Well Name	HUTCHINSON 1
Doc ID	1688628

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	16.75	8.625	853.15	120	Neat	270	N/A



Groundbed Information

Groundbed Type: *Deepwell*
 No. of Anodes: *1*
 Type of Anode: *Durammo*
 Lead Wire: *#16 Kynar/HMWPE*
 Coke Type: *SCC*
 Positive: *44 HMWPE*
 Negative: *74 HMWPE*
 Hole Diameter: *8"*
 Hole Depth: *300'*
 Date Installed: *12-2-20*

Rectifier Information

Manufacturer: *Matcor*
 Model No: *ASA1*
 Serial: *191901*
 DC Rating: *40140*
 AC Input: *115/230*
 Phase: *1*
 PSP "off": *NA*
 PSP "on": *NA*
 Tap Settings: *NA*
 Date Installed: *12-2-20*

Williams
Blue Stem
Pipeline
Hutchinson, Ks.
SW SE SW SE
Sec. 20
Twp. 23
Rng. 4

Ground Bed GPS
N 38.02892
W -97.781161



1700 E. Seward Road
 Guthrie, Oklahoma 73044
 (405)293-9777

Scale: *NA*
 Date: *12-30-20*
 Drawn: *JVO*
 Job#: *10038*
 Dwg#: *NA*

VISTA # 2200267

JOB NO: () 10038

GPS: N 38.62892

W - 97.78161

COMPANY:

COMPANY REP.:

INSTALLATION DATE:

RECTIFIER LOCATION:

LEGAL DESCRIPTION

Williams

David Spahr

12-2-20

SW corner inside fence



1700 E Seward Rd.

Guthrie, Ok. 73044

PH: (405) 293-9777 F: (405) 293-9779

STATE:

COUNTY:

QTR:

INSTALLED BY:

CASING TYPE:

DIAMETER:

CASING DEPTH:

NO. OF ANODES:

ANODE TYPE:

ANODE LEAD TYPE:

JVO
SDR 21 PVC

8"

120'

1

Durammo

70 Kynar/Harpur

DIA. HOLE:

DEPTH:

COKE TYPE:

LBS INST'D:

HOLE PLUG:

LOG VOLT:

SOURCE:

DEPTH FT.	DRILLERS LOG	ANODE NO.	ELECTRIC LOG		
			NATIVE	W/O COKE	W/COKE
0	Clay	↑			↑
10					
20	Sand & Clay				
30					
40	Sand				
50					
60		Casing			Hole plug
70					
80					
90	Shale & Clay				
100					
110					
120					
130					
140					
150					
160	Clay & Shale				↑
170					
180		↑			COKE column
190		Durammo			
200					
	Sand & clay	↓			↓

DEPTH FT.	DRILLERS LOG	ANODE NO.	ELECTRIC LOG		
			NATIVE	W/O COKE	W/COKE
210	Sandy clay	↑			
220					
230					
240					
250		Durammo			
260					
270					
280					
290					
300					
310					
320					
330					
340					
350					

DRILLER'S COMMENTS:

Cemented casing with centralizers
@ 40' intervals

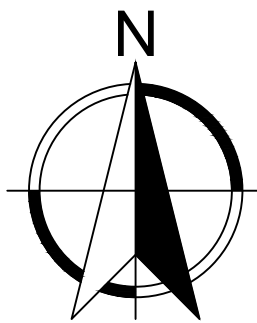
Receipt

Transaction Information

Transaction ID: bv55jgtvgs1dic0csp70
Merchant: Mid America Redi Mix-Hutchinson
Merchant Website:
Merchant Phone: (620) 792-2558
Transaction Date: 12/04/2020 09:46:11 CST
Transaction Type: Sale
Total: \$1,368.48
PO Number:
Order ID:
Authorization Code: 049706
Response: approved

Payment Information

Cardholder Name: JEREMIAH OLIVER
Card Type: Visa
Payment Type: card
Account # *****8218 01/23



GB GPS:
N: 38.02892
W: -97.781161

8'x1

J

Gate

Positive 75'x1

Riser

25'x1

Gate

Neagative 50'x1

AC Panel

Neagative 8'x1
Positive 8'x1

Gate

LEGEND:

- Groundbed
- Rectifier
- TEG Unit
- Wellhead
- J-BOX
- Positive (+) Cable
- Negative (-) Cable
- Fence
- Riser
- Control Box
- Solar Skid

GROUNDBED INFORMATION:

Groundbed Type: Deep Well
No. of Anodes: 1
Type: Durammo
Lead Wire: #6 Kynar/HMWPE
Coke Type: SC-3
Pounds Installed: 3,700 lbs
Cable Type: -
Positive: #4 HMWPE
Negative: #4 HMWPE
Hole Diameter: 8"
Hole Depth: 300'
Date Installed: 12/02/2020

RECTIFIER INFORMATION:

Manufacturer: MATCOR
Model No: ASAI
Serial: 191901
DC Rating: 40V/40A
AC Input: 115/230
Phase: I
PSP "off": N/A
PSP "on": N/A
Tap setting: N/A
Date Installed: 12/02/2020

Location

Williams Blue Stem Pipeline
Hwy 50 - E Blanchard Ave,
Hutchinson,
Kansas

SW SE SW SE

LEGAL DESCRIPTION
T: 23N R: 4W SEC: 20

E Blanchard Ave

Hwy 50

E Blanchard Ave

Hwy 50

E Blanchard Ave

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- NOTES:
- ALL GROUND BEDS MUST HAVE GPS
 - NOT DRAWN TO SCALE - SOME CABLE LENGTHS HAVE BEEN ADJUSTED TO FIT THIS PAGE.

REVISIONS					
A	AS BUILT	12/30/20	MRP	JVO	OJ
NO.	DESCRIPTION	DATE	BY	CHK	APPR



CATHODIC PROTECTION SYSTEM FOR WILLIAMS PIPELINE, HWY-50, E BLANCHARD AVE, HUTCHINSON, KS.			
DRAWN BY: MRP	1700 E. Seward Road Guthrie, Oklahoma 73044		PHONE: (405)293-9777
APPROVED BY: OJ	DWG NO.		
CREATION DATE: 12/30/20	P-2200267-10038-PL-CP01		
SCALE: NTS			