

## Location Checklist



<b>Operator / #</b>	PDC ENERGY INC - 69175			
<b>Name / Location ID</b>	ROTHE #23-29U - 306704			
<b>County</b>	Weld			
<b>Well Information</b>	<b>Well Name:</b> ROTHE #23-29U			
	<b>Well API #:</b> 05-123-25136			
	<b>Lat/Long As Drilled:</b> 40.368640 / -104.462060			
	<b>Plug date &amp; Form 6S Doc. #:</b> 10/25/2021 Doc #402899957			
<b>Facility Entities</b>		Tank Battery		Pits
	X	Wells		On-Location Flowlines (Form 42): Doc. #
		Domestic Taps	X	Off-Location Flowlines (Form 44): Doc. #402940070
<b>Equipment on Site</b>	X	None		Debris
		Pit mouse/rat holes, cellars backfilled		
<b>Access Road</b>	X	Regraded	X	Contoured
		Culverts removed		Gravel removed
		Pre-existing: must provide supporting documentation		
<b>Reclamation Status</b>	X	Location and associated disturbances reclaimed		
		Subsidence		
<b>Spills or Releases (Form 19)</b>	X	No		Yes
<b>Remediation (Form 27/27A)</b>		No	X	Yes
<b>On-Location Flowlines</b>	X	No		Yes
<b>Off-Location Flowlines</b>		No	X	Yes
<b>Inspection Corrective Actions</b>		No	X	Yes
<b>Sundry Notice (Form 4)</b>	<b>Form 4 Doc. # &amp; Date:</b> No Sundry notice was identified pertaining to 900-1200 series rules.			
<b>Drone Information</b>	<b>Make &amp; Model:</b> DJI Mavic Air 2			
	<b>Image Processing Software:</b> Raw			
	<b>Pilot Name &amp; FAA Certificate #:</b> Sully Phillips #4638858			
	<b>Date of FAA Certificate Issuance:</b> 3/15/2022			



# Site Specific Final Reclamation Completion Notice – Cropland Drone Imagery

## Permit Closure Report – Cropland

**Location ID:** 306704

**Location Name:** ROTHE #23-29U

## Report Date:

5/3/2024

H2E has conducted a thorough review of the data provided in this report. This report was developed in accordance with ECMC Operator Guidance – Operator supplied cropland drone imagery and information for submitting a final reclamation completion notice.

## Crop Year and Type

Crop 2023 – Corn

Crop 2022 – Corn

## Inspection:

Performed by	Confluence Compliance
Date	7/28/2023

All pertinent data, imagery, and materials are included at the end of this report.

## Location Summary



<b>Name:</b>	ROTHE #23-29U		
<b>Type</b>	Well		
<b>Location ID</b>	306704		
<b>Operator / #</b>	PDC ENERGY INC - 69175		
<b>Field</b>	WATTENBERG - #90750		
<b>County, State</b>	WELD, CO		
<b>Lat/Long</b>	40.368640 / -104.462060		
	Planned Location	X	As Drilled
<b>Location</b>	NESW 29 5N63W 6		
<b>Facility Status - Date</b>	PA - 10/25/2021		
<b>Facility Entities</b>		Tank Battery	Pits
	X	Wells	X Off-Location Flowlines (Form 44)
		Domestic Taps	On-Location Flowlines (Form 42)
		Electric Utilities	
<b>Equipment on Site</b>	X	No	Yes
		If yes, list:	
		Pit mouse/rat holes, cellars backfilled	
<b>Access Road</b>	X	Regraded	X Contoured
		Culverts Removed	Gravel Removed
		Pre-Existing (Must provide supporting documentation):	
<b>Variance Requests</b>	No Variance Requests detected		
<b>Sundry Notice (Form 4)</b>	No previous Form 4s detected		
<b>On Location Flowlines (Form 42)</b>	No Form 42s detected		
<b>Off-Location Flowlines (Form 44)</b>	<b>Form 44 Doc # &amp; Date:</b> #402940070 1/28/2022		
	<b>Purpose:</b> Off-location flowline registration and abandonment		
	<b>Abandonment Date:</b> 10/26/2021		
	<b>ECMC Approval Date &amp; Signee:</b> Director of COGCC 11/16/2022		
	<b>Operator Comments:</b> NA		
	<b>Flowline Facility Information</b>		
	<b>ECMC Flowline ID:</b> 479253		
	<b>Operator Flowline ID:</b> 131018		
	<b>Status &amp; Date:</b> AC - 2/6/2020		
	<b>Flowline Type:</b> Wellhead line		
	<b>Type of Fluids Transported:</b> Produced fluids		
	<b>Start Point Location ID:</b> 306704		
	<b>Start Point Riser Lat/Long:</b> 40.368640 / -104.462060		
	<b>Equipment at Start Point:</b> Wellhead		
<b>End Point Location ID:</b> 302303			
<b>End Point Riser Lat/Long:</b> 40.365995, -104.464495			
<b>Equipment at End Point:</b> Separator			
<b>Field Inspection Form (Form INSP)</b>	<b>Form INSP Doc # &amp; Date:</b> 699104573 10/08/2021		
	<b>Status Summary:</b> FOLLOW UP INSPECTION REQUIRED		
	<b>Inspected Facilities:</b> 290571		
	<b>Inspection Status:</b> TA		
	<b>Inspection Date &amp; Inspector:</b> 10/08/2021 Burns, Adam		
<b>Comments:</b> CA was corrected in follow up inspection Doc #699104648 on 10/27/2021			
<b>Inspection Corrective Actions (CAs)</b>	Unused equipment lying next to well, needs to be removed for good housekeeping.		

<b>Environmental Incidents &amp; Remediation</b>	None	X	Spill or Release (Form 19)
	X	Remediation (Form 27/27A)	
<b>Spill or Release (Form 19)</b>	<b>Spill/Release Facility ID:</b> NA		
<b>Site Investigation and Remediation Workplan (Form 27/27A)</b>	<b>Remediation Project #:</b> 19992		
	<b>Form 27 Initial Doc # &amp; Date:</b> #402811531 - 09/16/2021		
	<b>Purpose:</b> Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.		
	<b>Notes:</b>		
	<b>Form 27 Supplemental Docs # &amp; Date:</b> 402894135		
	<b>Purpose:</b> Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.		
	<b>Operator Comments:</b> Based on the analytical results and field observations recorded during the closure and abandonment of the Rothe 23-29U wellhead and associated flowline, PDC is submitting a closure request for this location.		
	<b>ECMC Comments:</b>		
	<b>ECMC COAs:</b> The pH of soil samples collected at the site exceeds the allowable level for Table 915-1 soil suitability for reclamation for pH and exceeds the background sample presented. However, all other parameters are within Table 915-1 allowable levels. COGCC will not require further action at this time. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if groundwater is found to be impacted, then further investigation and/or remediation activities may be required.		
	<b>Closure Request Approved:</b> 01/10/2022		
<b>Final Resolution:</b> Kari Brown 01/10/2022			
<b>COGIS Tank Facilities Information (Scout Card)</b>	<b>Tank Battery Name:</b> ROTHE-65N63W/29SESW		
	<b>Facility ID:</b> 446871		
	<b>Status &amp; Date:</b> AC - 7/22/2016		
	<b>Lat/Long:</b> 40.366210 / -104.464396		
	<b>Notes:</b>		
	<b>Form 4 Doc # &amp; Date:</b> NA <b>Purpose:</b> NA		
<b>COGIS Well Information (Scout Card)</b>	<b>Well Name:</b> ROTHE #23-29U		
	<b>Facility ID:</b> 290571		
	<b>Status &amp; Date:</b> PA - 10/25/2021		
	<b>Lat/Long:</b> 40.368640 / -104.462060		
	<b>Notes:</b>		
	<b>Form 4 Doc # &amp; Date:</b> NA <b>Purpose:</b> NA		



## Designated Land Use Observations

Previous Land Use	Current Land Use
Reference Imagery for Infrastructure: NAIP 2013	Raw Imagery: 7/28/2023
Designation: Oil and Gas Facility	Designation: Cropland

### **The following imagery sources were reviewed during this investigation:**

NAIP Imagery 2013 and 2023 and historic Google Earth imagery

## Site Observation Notes

No Additional Information

## Closure Information

This final reclamation completion notice is to close out the ROTHE #23-29U location; the associated ROTHE 29BU well (API #05-123-28108) will remain open and tied to the ROTHE-65N63W/29SESW Tank Battery (446871) until both the well and tank battery disturbances meet the final reclamation standard.

The ROTHE #23-29U location is in Weld County, Colorado near the intersection of County Road 380 and County Road 63. There is one off-location flowline between each wellhead and the ROTHE-65N63W/29SESW Tank Battery registered and abandoned under the PDC Flowline System (479253).

The location was closed and reclaimed in 2021. The wellhead was accessed from an access road off of County Road 380 which was reclaimed and returned to agriculture alongside the wellhead disturbance.

One Corrective Action came out of the field inspections at the wellhead on 10/08/2021 stating “Unused equipment lying next to well, needs to be removed for good housekeeping. Comply with Rule 606.” This issue was addressed prior to the follow-up inspection on 10/27/2021.

A Remediation Workplan (Form 27-I) was documented on 9/16/2021 for the Decommissioning of Oil and Gas Facilities per Rule 913.c.(9), and on 12/16/2021 the Form 27-S (Doc. # 402894135) was filed. In this report PDC requests that the COGCC grant closure status for Remediation Project #19992.

Drone imagery confirms that no equipment was left on site at this location after reclamation activities occurred.



## Summary Acreage Table

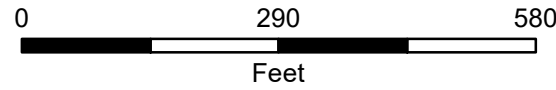
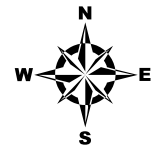
Description	Acres
Historic Disturbance Extent	1.51
Access Road	0.14
Flowline	Abandoned in Place
Tank Battery	Not Included
Well Pad	1.37

# Pre-Plugging Active Operations Location Overview



# PDC Form 4 Final Reclamation - Pre Plugging Overview

ROTHE 23-29U

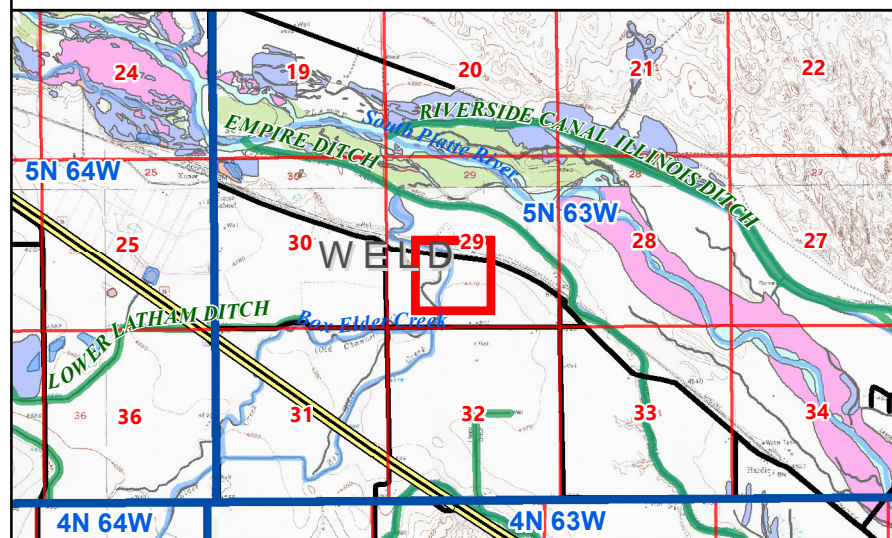


Prepared by:  
Scale: 1:2,600  
Date: 5/3/2024

Editor: CDenison  
File: PDC\_Drone\_Rec\_DDP

- Well Head
- Reclaimed Tank Battery Disturbance
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Abandoned

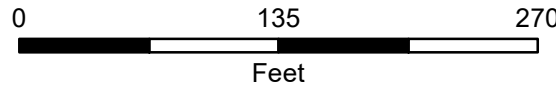
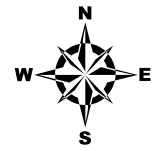
NAIP 2013 Imagery





# PDC Form 4 Final Reclamation - Pre Plugging Overview

ROTHE 23-29U

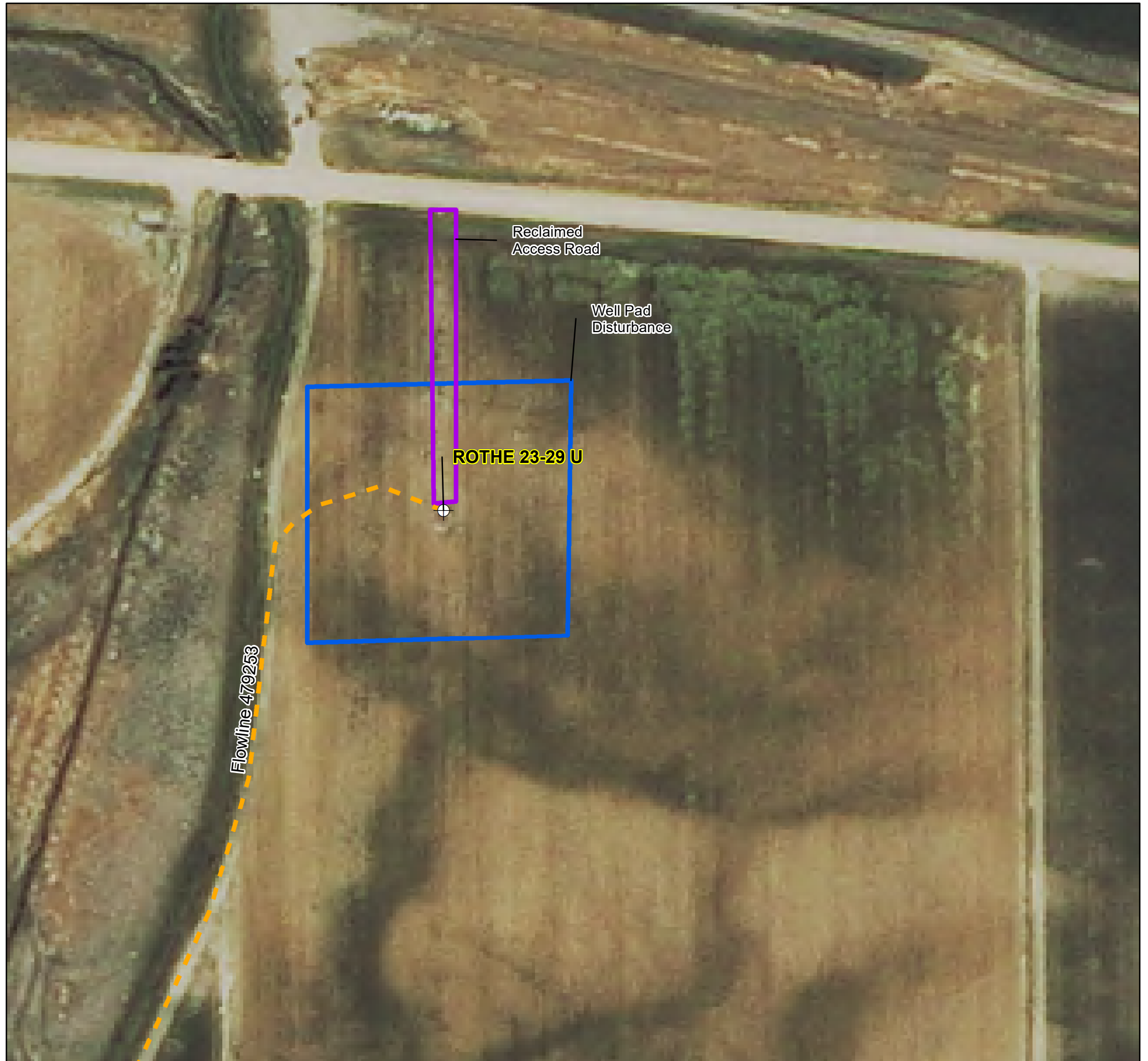
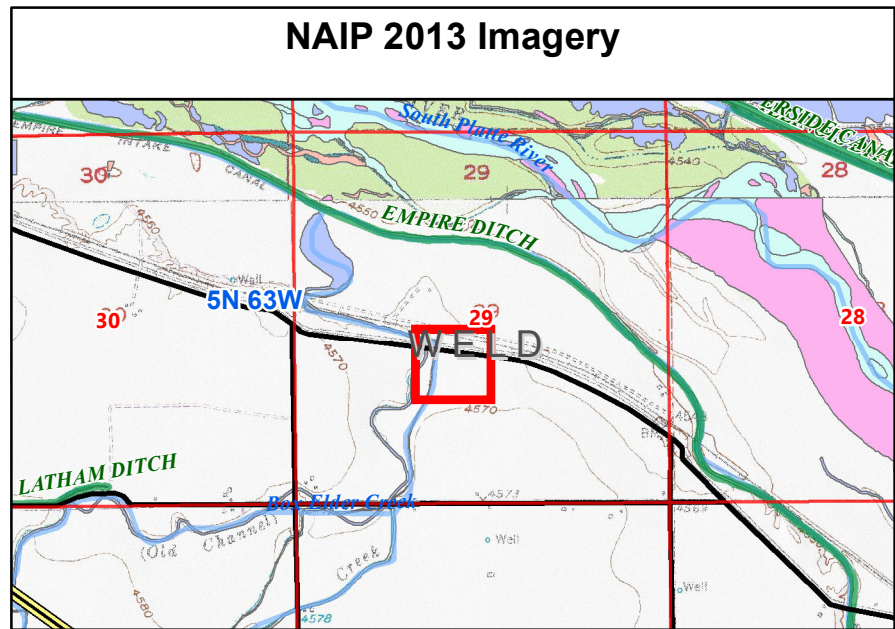


Prepared by:  
Scale: 1:1,200  
Date: 5/3/2024

Editor: CDenison  
File: PDC\_Drone\_Rec\_DDP

- Well Head
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Abandoned

NAIP 2013 Imagery

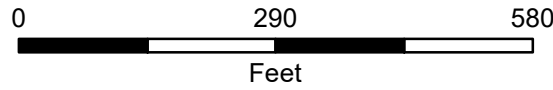


## **Post-Plugging and Abandonment Location Overview**



# PDC Form 4 Final Reclamation - Post Plugging Overview

ROTHE 23-29U

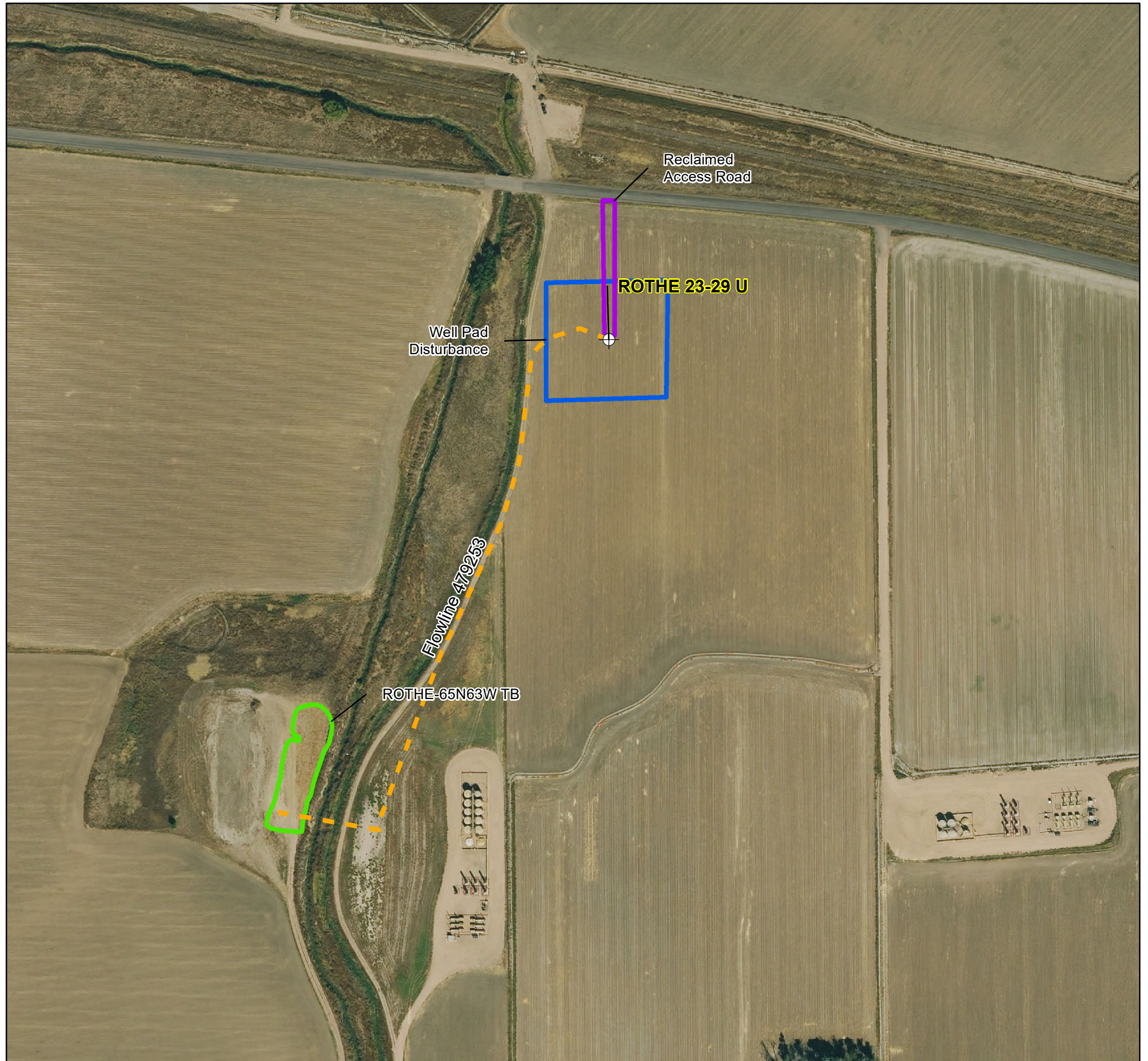
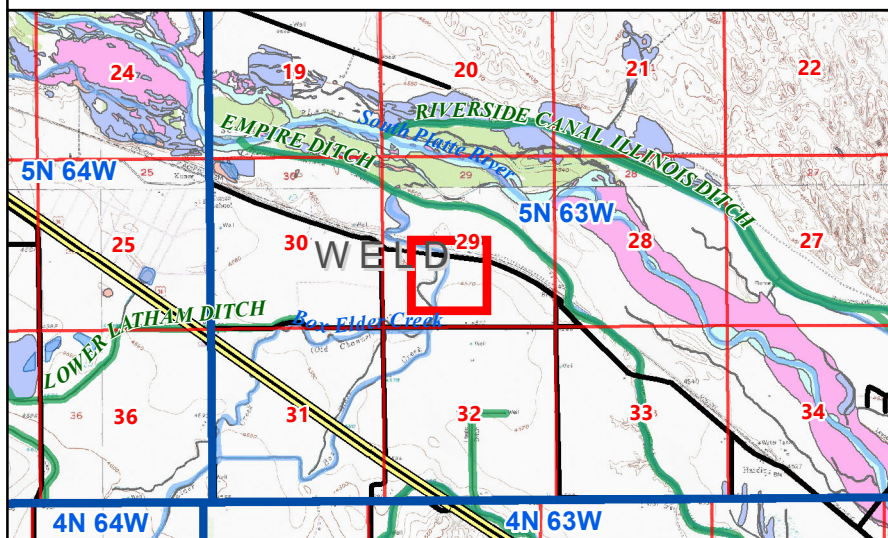


Editor: CDenison  
File: PDC\_Drone\_Rec\_DDP

Prepared by:  
Scale: 1:2,600  
Date: 5/3/2024

- Well Head
- Reclaimed Tank Battery Disturbance
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Abandoned

## NAIP 2023 Imagery

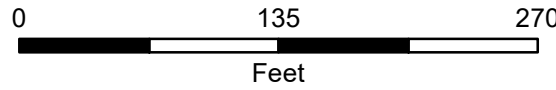
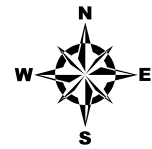




# PDC Form 4 Final Reclamation - Post Plugging Overview

ROTHE 23-29U

Prepared by:

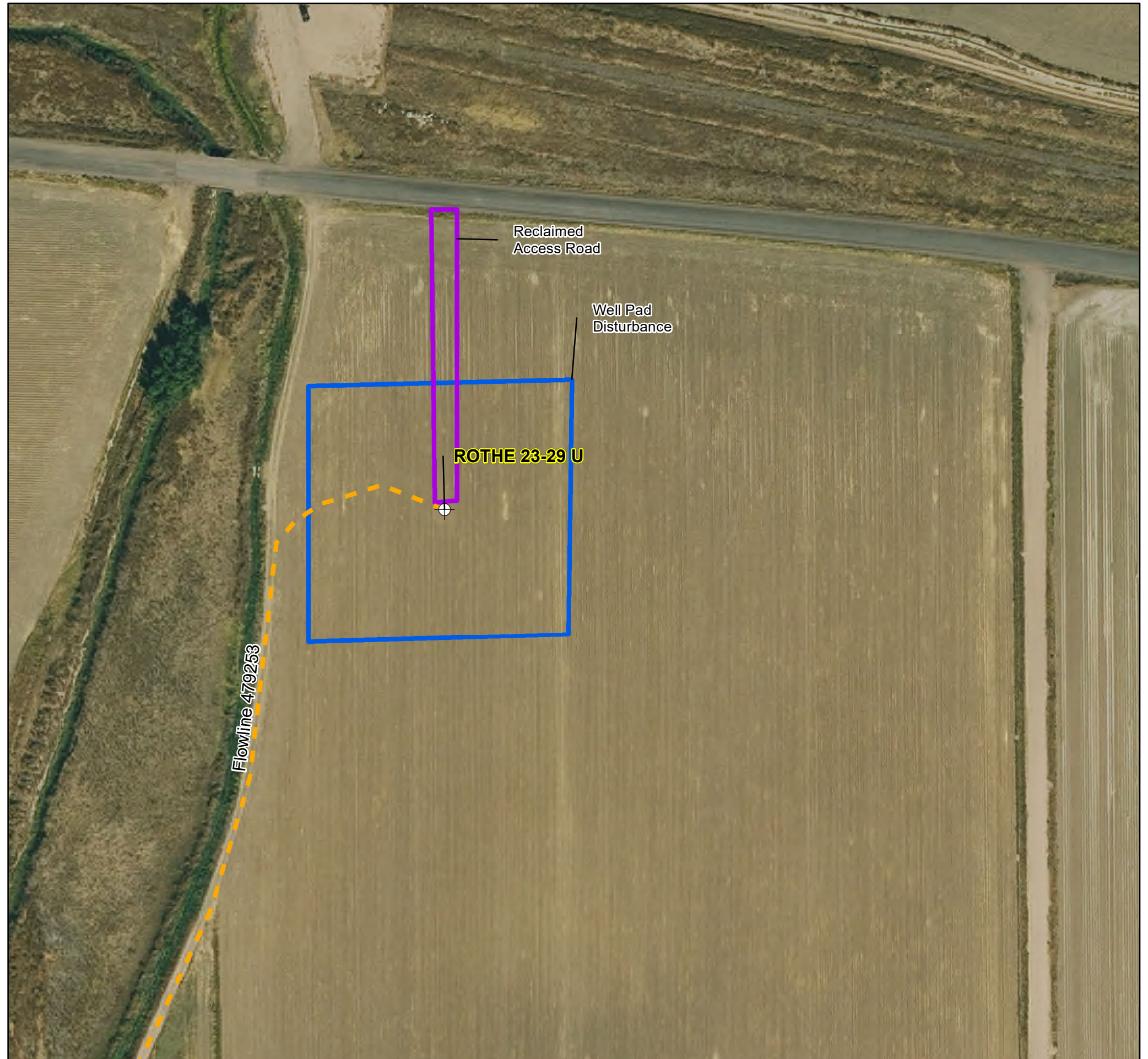
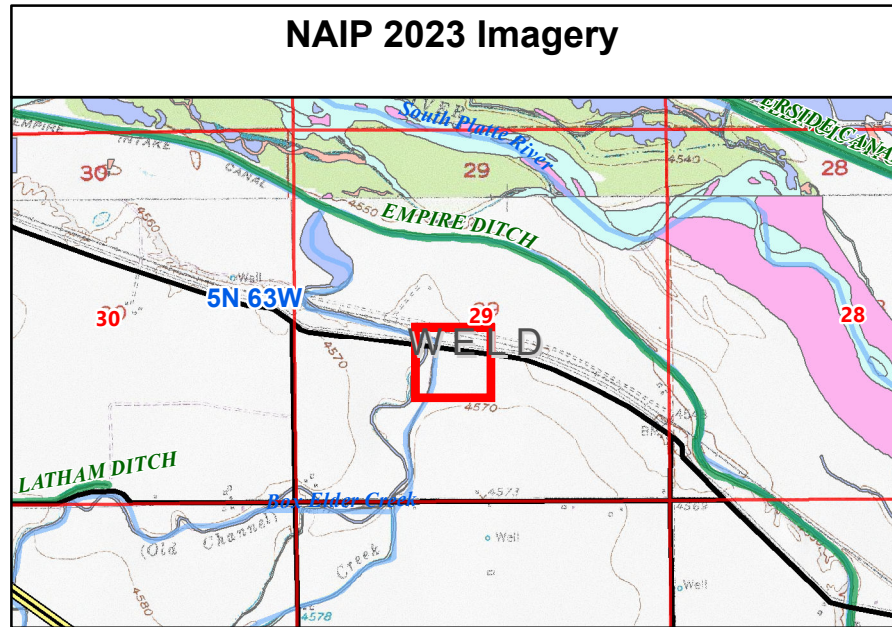


Editor: CDenison  
File: PDC\_Drone\_Rec\_DDP

Scale: 1:1,200  
Date: 5/3/2024

- Well Head
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Abandoned

## NAIP 2023 Imagery



Post-Plugging Overview of Rothe 23-29U  
Lat/Long: 40.36859117/ -104.46211433



North of Well Pad Facing South  
Lat/Long: 40.36900628 / -104.46210239



South of Well Pad Facing North  
Lat/Long: 40.36826247/ -104.46208225



West of Well Pad Facing East  
Lat/Long: 40.36862414 / -104.46260558



East of Well Pad Facing West  
Lat/Long: 40.36863842 / -104.46159669



Access Road Entrance Facing Well Pad  
Lat/Long: 40.36944336/-104.46212108



Reference Area North of Reclaimed Surface  
Lat/Long: 40.36900561/-104.46249983



Reference Area South of Reclaimed Surface  
Lat/Long: 40.36826150/-104.46165239



Reference Area West of Reclaimed Surface  
Lat/Long: 40.36833586/-104.46260511



Reference Area East of Reclaimed Surface  
Lat/Long: 40.36892128/-104.46159842



Cropland Reference Photo Showing Corn in the Reproductive Growth Stage  
Lat/Long: 40.36857386/ -104.46213467

