



# Site Specific Final Reclamation Completion Notice – Cropland Drone Imagery

## Permit Closure Report – Cropland

**Location ID:** 328533

**Location Name:** WHITE-65N64W/27NENW

## Report Date:

8/14/2024

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 2024 – Corn

Crop 2023 – Corn

## Inspection:

Performed by	H2E Incorporated
Date	8/6/2024

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

## Location Checklist



<b>Operator / #</b>	PDC ENERGY INC / 69175			
<b>Name / Location ID</b>	WHITE-65N64W/27NENW - 328533			
<b>County</b>	Weld			
<b>Well Information</b>	<b>Well Name:</b> WHITE #27-5			
	<b>Well API #:</b> 05-123-16108			
	<b>Lat/Long As Drilled:</b> 40.376226 / -104.538210			
	<b>Plug date &amp; Form 6S Doc. #:</b> 01/25/2021 - 402612378			
<b>Facility Entities</b>		Tank Battery		Pits
	X	Wells		On-Location Flowlines (Form 42): Doc. #
		Domestic Taps	X	Off-Location Flowlines (Form 44): Doc. #
<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
	X	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 (Form 42)</b>	X	No		Yes
<b>Off-Location Flowlines (Form 44)</b>		No	X	Yes
<b>Inspection Corrective Actions</b>	X	No		Yes
<b>Sundry Notice (Form 4)</b>	No sundry notice pertaining to series 900-1200 rules was identified.			
<b>Drone Information</b>	<b>Make &amp; Model:</b> DJI M300			
	<b>Image Processing Software:</b> Pix4Dmapper			
	<b>Pilot Name &amp; FAA Certificate #:</b> Cameron Denison - 4729153			
	<b>Date of FAA Certificate Issuance:</b> 2/15/2024			



## Designated Land Use Observations

Previous Land Use	Current Land Use
Reference Imagery for Infrastructure: NAIP 2013	Remotely Sensed Imagery: 8/6/2024
Designation: Oil and Gas Facility	Designation: Cropland

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

NAIP Imagery 2013, 2023, and historical Google Earth Imagery.

## Site Observation Notes

No Additional Information

## Closure Information

This final reclamation completion notice is intended to close the WHITE-65N64W/27NENW location which consists of the WHITE #27-5 (API # 05-123-16108) wellhead. This wellhead does not share a disturbance with any other wells or tank batteries. The associated tank battery has its own location ID (319573) which will remain open until final reclamation has been achieved.

The WHITE-65N64W/27NENW location is in Weld County, Colorado ~0.38 miles southeast of the intersection of County Road 54 and County Road 55. There is one off location flowline associated with this well that transports crude oil to its associated tank battery. The flowline was removed and reclaimed in 2021 in sequence with the plugging and abandonment of the well. The wellhead was accessed from a 95' long two-track path stemming from an existing service road off of County Road 55 which is still in place for accessing the adjacent irrigation retention pond. The two-track path was reclaimed with the well and flowline disturbances.

A Remediation Workplan (Form 27-I) was documented on 02/04/2021 for Wellhead Closure and Flowline Removal. On 12/03/2021 a Form 27-S (Doc. #402886464) was filed, stating the remediation workplan was closed by Candice (Nikki) Graber on 12/22/2021.

There were no spills/releases or corrective actions identified during our records review. 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	.39
Access Road	.11
Flowline	Not Included
Tank Battery	.21
Well Pad	.07

## Location Summary



<b>Name:</b>	WHITE-65N64W/27NENW			
<b>Type</b>	Wellhead			
<b>Location ID</b>	328533			
<b>Operator / #</b>	PDC Energy / 69175			
<b>Field</b>	Wattenberg			
<b>County, State</b>	Weld, Colorado			
<b>Lat/Long</b>	40.376226 / -104.538210			
	Planned Location	X	As Drilled	
<b>Location</b>	NENW 27 5N64W 6			
<b>Facility Status - Date</b>	PA - 1/25/2021			
<b>Facility Entities</b>	<input type="checkbox"/>	Tank Battery	<input type="checkbox"/>	Pits
	X	Wells	X	Off-Location Flowlines (Form 44)
	<input type="checkbox"/>	Domestic Taps	<input type="checkbox"/>	On-Location Flowlines (Form 42)
	<input type="checkbox"/>	Electric Utilities	<input type="checkbox"/>	
<b>Equipment on Site</b>	X	No	<input type="checkbox"/>	Yes
	If yes, list:			
	Pit mouse/rat holes, cellars backfilled			
<b>Access Road</b>	X	Regraded	X	Contoured
	<input type="checkbox"/>	Culverts Removed	<input type="checkbox"/>	Gravel Removed
	Pre-Existing (Must provide supporting documentation):			
<b>Variance Requests</b>	No variance requests.			
<b>Sundry Notice (Form 4)</b>	No sundry notice pertaining to series 900-1200 rules was identified.			
<b>Off Location Flowlines (Form 44)</b>	<b>Form 44 Doc # &amp; Date:</b> 402810801 - 09/14/2021			
	<b>Purpose:</b> FLOWLINE SYSTEM ABANDONMENT VERIFICATION			
	<b>Abandonment Date:</b> 03/08/2021			
	<b>ECMC Approval Date &amp; Signee:</b>			
	<b>Operator Comments:</b> Abandoned under PDC Flowline System #479253			
	<b>Flowline Facility Information</b>			
	<b>ECMC Flowline ID:</b> 479253			
	<b>Operator Flowline ID:</b> PDC Flowline System			
	<b>Status &amp; Date:</b> AC - 10/25/2024			
	<b>Flowline Type:</b> Wellhead line			
	<b>Type of Fluids Transported:</b> Crude Oil			
	<b>Start Point Location ID:</b> 328533			
	<b>Start Point Riser Lat/Long:</b> 40.376226 / -104.538210			
	<b>Equipment at Start Point:</b> Wellhead			
	<b>End Point Location ID:</b> 319573			
	<b>End Point Riser Lat/Long:</b> 40.375722 / -104.543506			
	<b>Equipment at End Point:</b> Separator			
<b>Field Inspection Form (Form INSP)</b>	<b>Form INSP Doc # &amp; Date:</b>			
	673802514 - 9/16/2015			
	673901508 - 4/26/2016			
	698700858 - 1/24/2020			
	<b>Status Summary:</b>			
	9/16/2015 - N/A			
	4/26/2016 - NO FOLLOW UP INSPECTION REQUIRED			
	1/24/2020 - NO FOLLOW UP INSPECTION REQUIRED			
	<b>Inspected Facilities:</b>			
	9/16/2015 - 248310			
	4/26/2016 - 248310			
	1/24/2020 - 248310			
	<b>Inspection Status:</b>			
	9/16/2015 - Satisfactory			
	4/26/2016 - Satisfactory			
	1/24/2020 - Satisfactory			
	<b>Inspection Date &amp; Inspector:</b>			
	9/16/2015 - Jason Gomez			
	4/26/2016 - John Montoya			
	1/24/2020 - Abe Sema			
	<b>Comments:</b>			
	9/16/2015 - No comments			
	4/26/2016 - No comments			
	1/24/2020 - On (1/24/2020) at approximately (9:15 AM), I, Inspector (Abe Serna), Conducted an on-site inspection at (White #27-5) (PDC Energy), at (API#123-16108) in (Weld) Colorado. While there, I observed a (SI Well) During this inspection no compliance issues were observed: No follow up on this site inspection needs to be conducted. This is a summary of inspection report.			

<b>Inspection Corrective Actions (CAs)</b>	No Corrective Actions	
<b>Environmental Incidents &amp; Remediation</b>	None	Spill or Release (Form 19)
	X	Remediation (Form 27/27A)
<b>Spill or Release (Form 19)</b>	N/A	
<b>Site Investigation and Remediation Workplan (Form 27/27A)</b>	<b>Remediation Project #:</b> 16556	
	<b>Form 27 Initial Doc # &amp; Date:</b> 402591869 - 02/04/2021	
	<b>Purpose:</b> Wellhead Closure and Flowline Removal	
	<b>Notes:</b> In accordance with COGCC Rule 911, this form serves as notification for decommissioning and/or abandonment of the production facility or the offlocation wellhead and flowline. The ground and sub-surfaces will be visually inspected for hydrocarbon impacts during equipment decommissioning. Field observations and photo documentation will be recorded in a field inspection form for submittal to the COGCC. If reportable hydrocarbon impacts, as defined in Rule 912.b., are discovered, a site-specific remediation plan will be developed and submitted via a Supplemental Form 27. If reportable impacts are not encountered, a Supplemental Form 27 closure request will be submitted within 45 days of abandonment and/or decommissioning activities.	
	<b>Form 27 Supplemental Docs # &amp; Date:</b> 402886464 - 12/03/2021	
	<b>Purpose:</b> Wellhead Closure and Flowline Removal	
	<b>Operator Comments:</b> Based on the results collected during the supplemental site investigation conducted on September 7, 2021, at the former White 27-5 wellhead, PDC is requesting a No Further Action (NFA) determination for this location.	
	<b>ECMC Comments:</b> No comments	
	<b>ECMC COAs:</b> Based on the information presented, it appears that no further remedial action is necessary at this time and the COGCC approves the closure request. 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. This no further action determination is limited to environmental remediation. Operator is required to comply with COGCC 1100 Series Rules for Flowline Regulations for all Flowline Abandonment activities and COGCC 400 Series Rules for Wellhead Plugging and Abandonment. The surface area disturbed by the remediation activity shall be reclaimed in accordance with the 1000 Series Reclamation Rules. For locations with active ongoing oil and gas operations, comply with Rule 1003 interim reclamation requirements and for locations that will no longer have active oil and gas operations, comply with Rule 1004 Final Reclamation requirements.	
	<b>Closure Request Approved:</b> 12/22/2021	
<b>Final Resolution:</b> 12/22/2021 - Candice (Nikki) Graber		
<b>COGIS Tank Location Information (Scout Card)</b>	<b>Tank Battery Name:</b> WHITE-65N64W/27NWNW	
	<b>Location ID:</b> 319573	
	<b>Status &amp; Date:</b> AC - 3/3/2023	
	<b>Lat/Long:</b> 40.375426 / -104.542944	
	<b>Notes:</b> N/A	
<b>COGIS Well Information (Scout Card)</b>	<b>Form 4 Doc # &amp; Date:</b> N/A	
	<b>Purpose:</b> N/A	
	<b>Well Name:</b> WHITE #27-5 (API: 05-123-16108)	
	<b>Facility ID:</b> 248310	
	<b>Status &amp; Date:</b> PA - 1/25/2021	
	<b>Lat/Long:</b> 40.376226 / -104.538210	
<b>Notes:</b> N/A		
<b>Form 4 Doc # &amp; Date:</b> N/A		
<b>Purpose:</b> N/A		

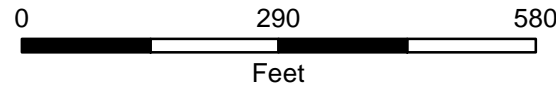
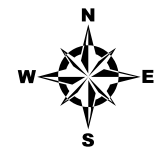
**Pre-Plugging Active Operations Location Overview**





# PDC Form 4 Final Reclamation - Pre Plugging Overview

White 27-5



Prepared by:



Editor: CDenison

File: PDC\_Drone\_Rec\_PostPlugging\_DDP

Scale: 1:2,600

Date: 10/28/2024

⊕ Well Head

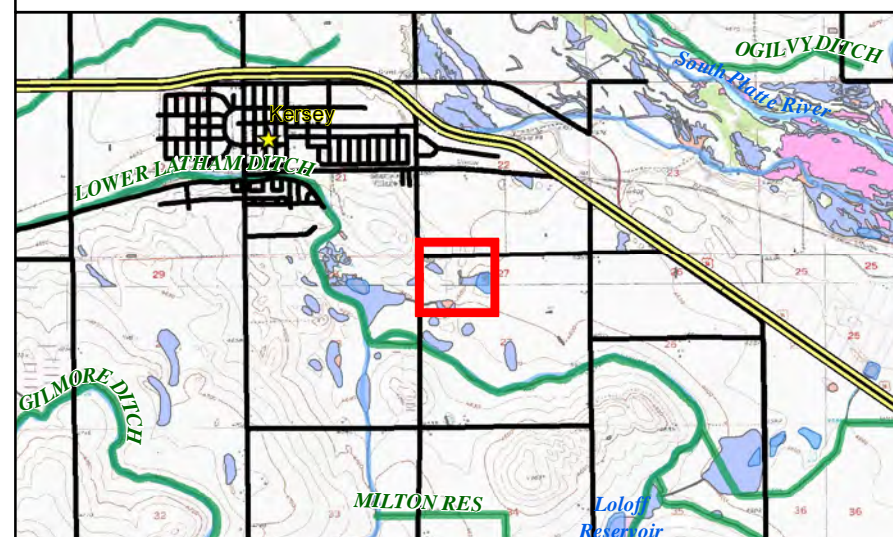
Reclaimed Tank Battery Disturbance

Reclaimed Well Pad Disturbance

Reclaimed Access Road Disturbance

Flowline - Removed

## 2013 NAIP Imagery

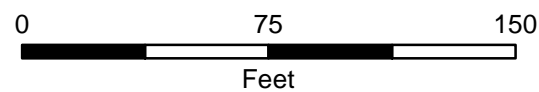
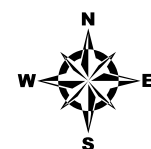






# PDC Form 4 Final Reclamation - Pre Plugging Overview

White 27-5



Prepared by:

Editor: CDenison

File: PDC\_Drone\_Rec\_PostPlugging\_DDP

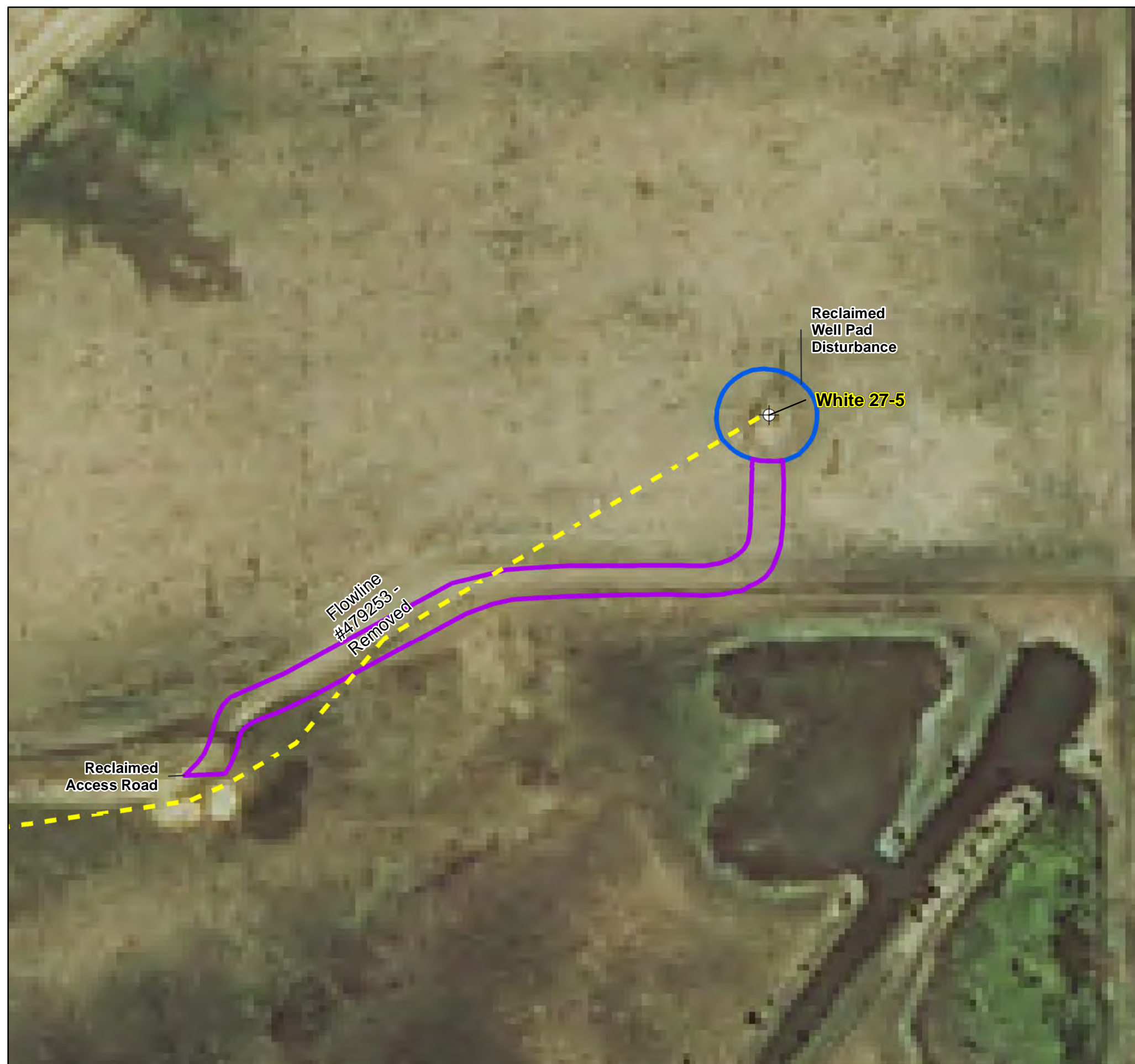
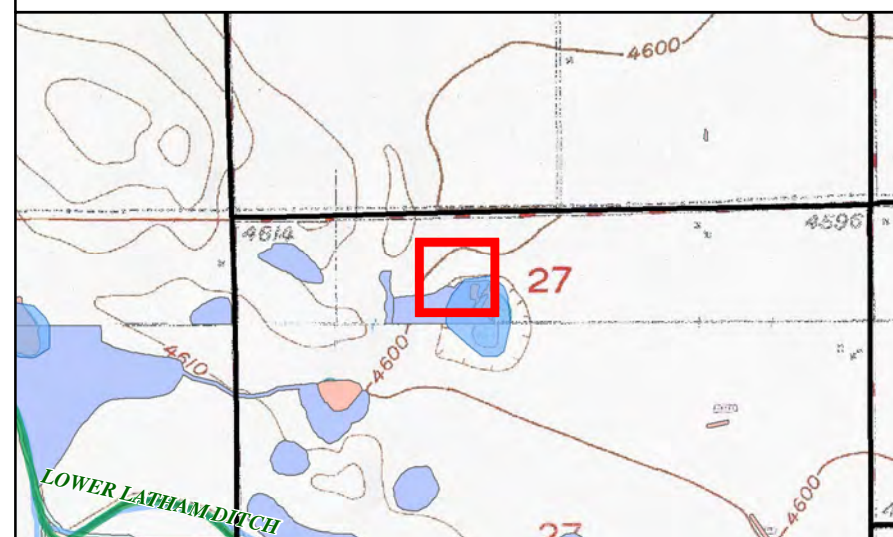
Scale:1:700

Date: 10/28/2024

⊕ Well Head

- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Removed

## 2013 NAIP Imagery





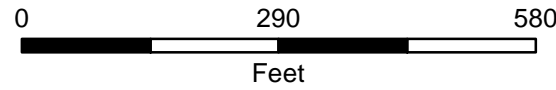
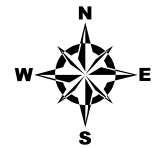
**Post-Plugging and Abandonment Location Overview**





## PDC Form 4 Final Reclamation - Post Plugging Overview

White 27-5



Prepared by:



Editor: CDenison

File: PDC\_Drone\_Rec\_PostPlugging\_DDP

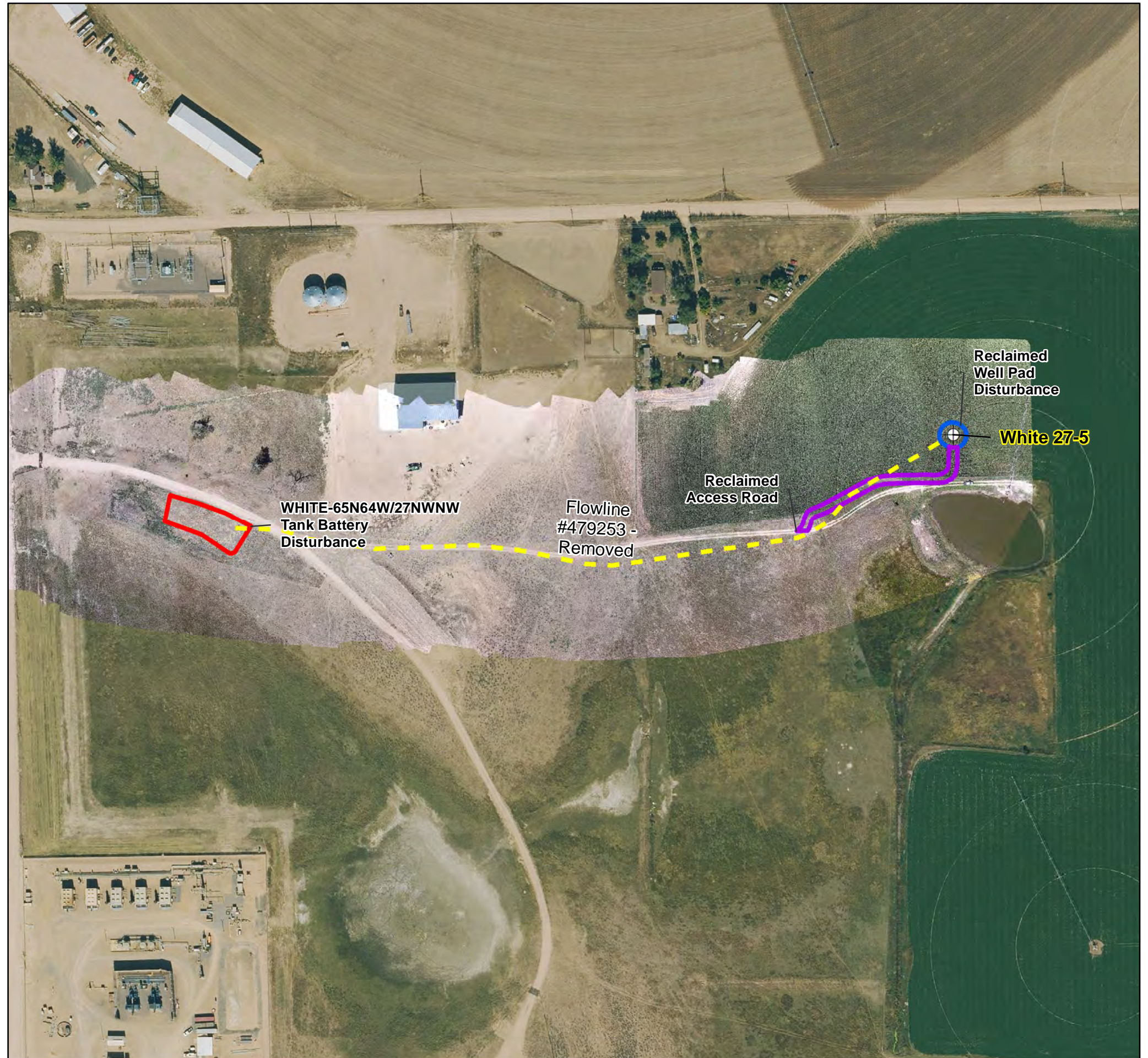
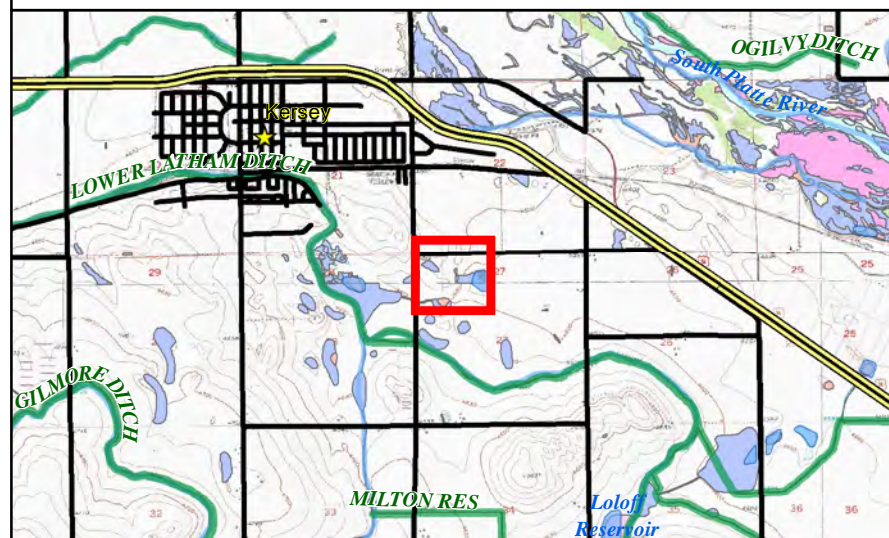
Scale: 1:2,600

Date: 10/28/2024

⊕ Well Head

- ▬ Reclaimed Tank Battery Disturbance
- ▬ Reclaimed Well Pad Disturbance
- ▬ Reclaimed Access Road Disturbance
- ▬ Flowline - Removed

### 2024 Drone Imagery

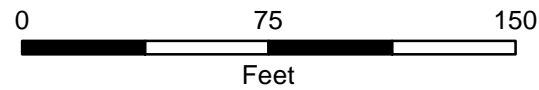
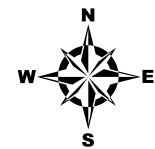






# PDC Form 4 Final Reclamation - Post Plugging Overview

White 27-5



Prepared by:

Editor: CDenison

File: PDC\_Drone\_Rec\_PostPlugging\_DDP

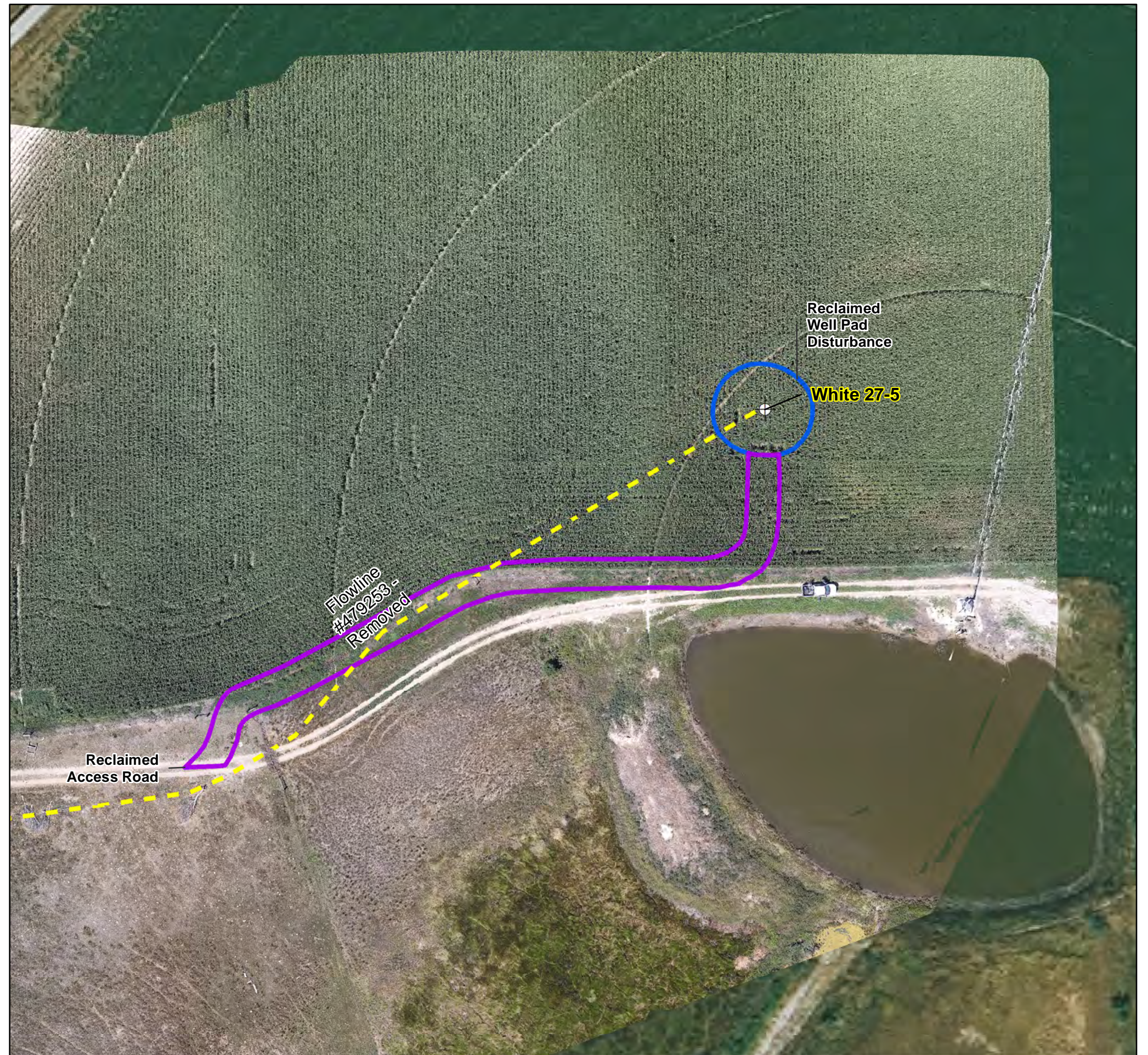
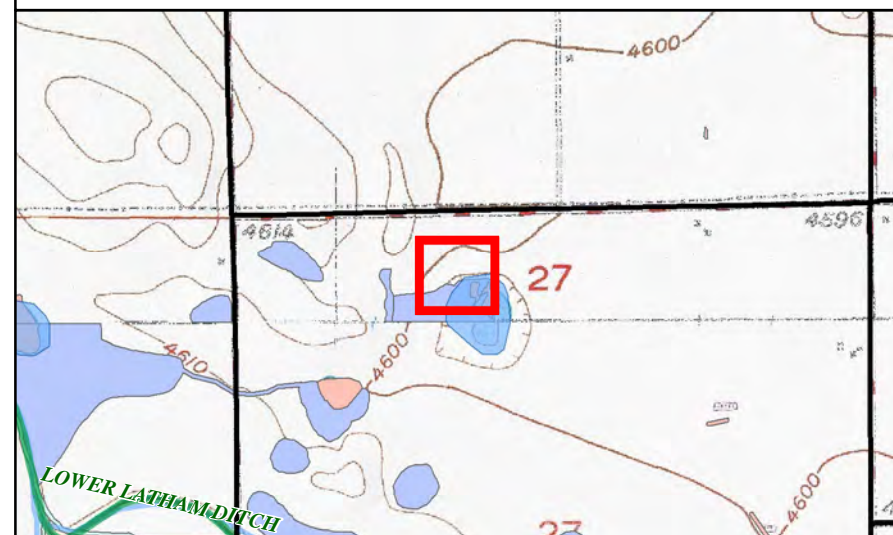
Scale:1:700

Date: 10/28/2024

⊕ Well Head

- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Removed

## 2024 Drone Imagery





# Cardinal Direction Drone Photos of the Reclaimed Area

Photo Dates:

8/6/2024

Drone Photo Height:

100'



North of Disturbance Facing South  
Lat/Long: 40.37676814/ -104.53824639





South of Disturbance Facing North  
Lat/Long: 40.37583622 / -104.53818306





West of Disturbance Facing East  
Lat/Long: 40.37614656 / -104.53882447





East of Disturbance Facing West  
Lat/Long: 40.37620597 / -104.53729219





# Cardinal Direction Drone Photos of the Reference Area

Photo Dates:

8/6/2024

Drone Photo Height:

100'



Reference Area North of the Reclaimed Area  
Lat/Long: 40.37677594 / -104.53824928





Reference Area South of the Reclaimed Area  
Lat/Long: 40.37583286 / -104.53817744





Reference Area West of the Reclaimed Area  
Lat/Long: 40.37614047 / -104.53883236





Reference Area East of the Reclaimed Area  
Lat/Long: 40.37620750 / -104.53728831





**Reference Photo for Cropland Growth Stage**



Cropland Reference Photo (Corn)  
Lat/Long: 40.37590833 / -104.53810833

