



# Site Specific Final Reclamation Completion Notice – Cropland Drone Imagery

## Permit Closure Report – Cropland

**Location ID:** 329830

**Location Name:** ANDERSON-64N65W/27SWNW

## Report Date:

9/22/2025

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 2025 – Corn

Crop 2024 – Corn

## Inspection:

Performed by	H2E Inc.
Date	9/2/2025

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



## Imagery Sources

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

NAIP Imagery from 2009-2023, and historic Google Earth imagery from 1985-2023.

## Site Observation Notes

No Additional Information

## Closure Information

This final reclamation completion notice is intended to close the ANDERSON-64N65W/27SWNW (329830) location which consists of the ANDERSON #12-27 (API # 05-123-17900) wellhead. This wellhead does not share a disturbance with any other wells or tank batteries. There is one off-location flowline associated with this well that transported produced fluids to the associated tank battery, and was removed in October of 2019. The associated tank battery has no location ID and will not be tied to this well for closure, but can be tied to location ID's 322746 or 305275 when it is passing for final reclamation.

ANDERSON #12-27 was reclaimed and returned to the landowner for agricultural use in 2020. The wellhead appears to have been accessed on foot from an unassociated oil and gas access road used to access a local tank battery. Due to the lack of a traditional access road/access point for the well, no reclamation efforts were made for access road(s) during the reclamation of this location.

A Remediation Workplan (Form 27-S Doc # 401483886) was identified for this location for Rule 909.e.(2)B.: Closure of remediation project. No Form 27-I was identified in ECMC records, but the supplemental form documents the initial actions taken for the remediation. In August 2005, a corrosion hole in a dump line fitting was discovered while bridging a new line into the Anderson 12-27, Bohlender 1-27 tank battery. The volume of the release was unknown. The petroleum hydrocarbon impacted soil was excavated and the dump lines were replaced. Approximately 410 cubic yards of impacted soil were excavated and transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado. While backfilling the excavation, five gallons of MicroBlaze®, a concentrated solution of facultative microbes, nutrients, and surfactants designed to bioremediate petroleum hydrocarbons, was applied to the excavation groundwater immediately prior to backfilling. The excavation area was restored to its pre-release grade. Due to persistent, elevated BTEX concentrations in multiple site monitoring wells, an air sparging (AS) and soil vapor extraction (SVE) system was installed at the site to remediate the dissolved-phase petroleum hydrocarbon plume. Pilot test well AS01 and observation wells OW01 and OW02 were installed at the site in May 2014, with pilot testing activities occurring on June 11, 2014. Installation and operation of the full-scale AS/SVE system occurred between May 2014 and October 2016. The system is comprised of 14 AS wells and 10 SVE wells connected by a combination of surface and subsurface high-density polyethylene piping to a remediation trailer powered by a natural gas generator. Three AS wells were added in October 2016 to increase system influence. Monitoring wells MW01 through MW22 were installed at the site between September 2005 and October 2016. Replacement monitoring wells for destroyed wells MW03 through MW05 and MW08 through MW12 were installed between September 2007 and May 2014. Monitoring wells MW01 and MW02 were removed from the monitoring program following COGCC



approval on July 1, 2009. In January 2017, monitoring wells MW05R and MW12R were abandoned and reinstalled to a deeper depth as wells MW05R2 and MW12R2. Groundwater monitoring continued on a quarterly basis. As of the December 2017 quarterly monitoring event, BTEX concentrations in wells MW05R2 and MW08R2 through MW22 were compliant with COGCC allowable levels for four consecutive quarterly monitoring events. This remediation project was closed on 01/11/2018 by Bob Chesson.

One corrective action (CA's) was identified during the records review. The CA came from an inspection on 06/10/2020, noting weeds around the wellhead, violating Rule 603.f. The CA mentioned above was addressed during the following inspection on 6/10/2020.

No Spills/Releases (Form 19) were identified to be associated with this location.

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

## Location Checklist



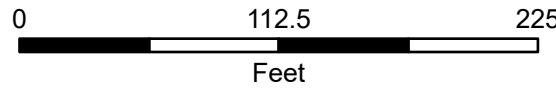
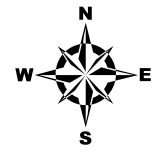
<b>Location Name</b>	ANDERSON-64N65W/27SWNW		
<b>Type</b>	LOCATION		
<b>Location ID</b>	329830		
<b>Operator / #</b>	NOBLE ENERGY INC / 100322		
<b>Field</b>	WATTENBERG - #90750		
<b>County, State</b>	WELD, CO		
<b>Lat/Long</b>	40.284881 / -104.657167		
	Planned Location	X	As Drilled
<b>Location</b>	SWNW 27 4N65W		
<b>Location Status - Date</b>	CL - 8/21/2020		
<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:		
<b>Access Road</b>	Regraded		Contoured
	Culverts Removed		Gravel Removed
	Pre-Existing (Must provide supporting documentation):		
<b>Reclamation Status</b>	X Location and associated disturbances reclaimed		
	Subsidence		
<b>Plug date &amp; Form 6S Doc. #:</b>	08/21/2020 - #402494275		
<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>Variance Requests</b>	No variance requests identified		
<b>Sundry Notice (Form 4)</b>	No sundry notice pertaining to series 900-1200 rules was identified.		
<b>Site Investigation and Remediation Workplan (Form 27/27A)</b>	<b>Remediation Project #:</b> 3559		
	<b>Form 27 Initial Doc # &amp; Date:</b> No F27-I identified in ECMC records.		
	<b>Purpose:</b> N/A		
	<b>Notes:</b> N/A		
	<b>Form 27 Supplemental Docs # &amp; Date:</b> #401483886 - 01/11/2018		
	<b>Purpose:</b> Rule 909.e.(2)B.: Closure of remediation project		
	<b>Operator Comments:</b> In August 2005, a corrosion hole in a dump line fitting was discovered while bridging a new line into the Anderson 12-27, Bohlender 1-27 tank battery. The volume of the release is unknown. The petroleum hydrocarbon impacted soil was excavated and the dump lines were replaced.		
	<b>ECMC Comments:</b>		
	<b>ECMC COAs:</b> The COGCC has reviewed the NFA request for Project/Remediation #3559. Based on the information presented no further action is necessary at this time. However, should future conditions at the site indicate contaminant concentrations in soils or groundwater exceeding COGCC standards then further investigation and/or remediation activities may be required at the site. 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> 1/11/2018		
<b>Final Resolution:</b> BOB CHESSON - 1/11/2018			

Off-Location Flowlines (Form 44)	<b>Form 44 Doc # &amp; Date:</b> #402491965 - 09/17/2020
	<b>Purpose:</b> FLOWLINE SYSTEM ABANDONMENT VERIFICATION
	<b>Abandonment Date:</b> 8/21/2020
	<b>ECMC Approval Date &amp; Signee:</b> 6/23/2022 - Director of ECMC
	This is verification of the abandonment of 45 flowlines detailed on the attachment. If they were abandoned-in-place, then the supporting justification and 3rd party verification documents are also attached. The flowline system remains
	<b>Operator Comments:</b> ACTIVE.
	<b>Flowline Facility Information</b>
	<b>ECMC Flowline ID:</b> N/A
	<b>Operator Flowline ID:</b> NOBLE FLOWLINE SYSTEM - 469881
	<b>Status &amp; Date:</b> N/A
	<b>Flowline Type:</b> Wellstream
	<b>Type of Fluids Transported:</b> Produced fluids
	<b>Start Point Location ID:</b> 329830
	<b>Start Point Riser Lat/Long:</b> 40.284881, -104.657167
	<b>Equipment at Start Point:</b> Wellhead
Tank/separation facility has no location ID and serves locations 329830, 322746, 305275.	
<b>End Point Location ID:</b> 329830, 322746, 305275.	
<b>End Point Riser Lat/Long:</b> 40.287019, -104.655989	
<b>Equipment at End Point:</b> Separator	
Field Inspection Form (Form INSP)	<b>Form INSP Doc # &amp; Date:</b> #698701524 - 06/10/2020
	<b>Status Summary:</b> FOLLOW UP INSPECTION REQUIRED
	<b>Inspected Facilities:</b> 250097
	<b>Inspection Status:</b> TA
	<b>Inspection Date &amp; Inspector:</b> 6/10/2020
Inspection Corrective Actions (CAs)	<b>Comments:</b> Weeds need to be cut & removed for good housekeeping around wellhead.
	Comply with Rule 603.f . -Weeds need to be cut & removed for good housekeeping around wellhead.  CA was no longer present by the follow up inspection on 06/24/2020 (Doc #698701607).
COGIS Tank Facilities Information (Scout Card)	<b>Tank Battery Name:</b> Anderson 12-27, Bohlender 1, Oster 4-27 TB
	<b>Facility ID:</b> N/A
	<b>Status &amp; Date:</b> N/A
	<b>Lat/Long:</b> 40.286989, -104.656283
	<b>Notes:</b> Tank facility has no Loc ID or Facility ID.
COGIS Well Information (Scout Card)	<b>Form 4 Doc # &amp; Date:</b> N/A
	<b>Purpose:</b> N/A
	<b>Well Name:</b> ANDERSON #12-27
	<b>Facility ID:</b> 250097
	<b>Well API #:</b> 05-123-17900
	<b>Status &amp; Date:</b> PA - 8/21/2020
	<b>Lat/Long:</b> 40.284881 / -104.657167
<b>Notes:</b> N/A	
Drone Information	<b>Form 4 Doc # &amp; Date:</b> N/A
	<b>Purpose:</b> N/A
	<b>Make &amp; Model:</b> DJI M3E MultiSpectral
	<b>Image Processing Software:</b> Pix4D Mapper
<b>Pilot Name &amp; FAA Certificate #:</b> Peter Nelson - 4974559	
<b>Date of FAA Certificate Issuance:</b> 3/19/2024	

# Pre-Plugging Active Operations Location Overview

# PDC Form 4 Final Reclamation - Pre Plugging Overview

ANDERSON-64N65W/27SWNW

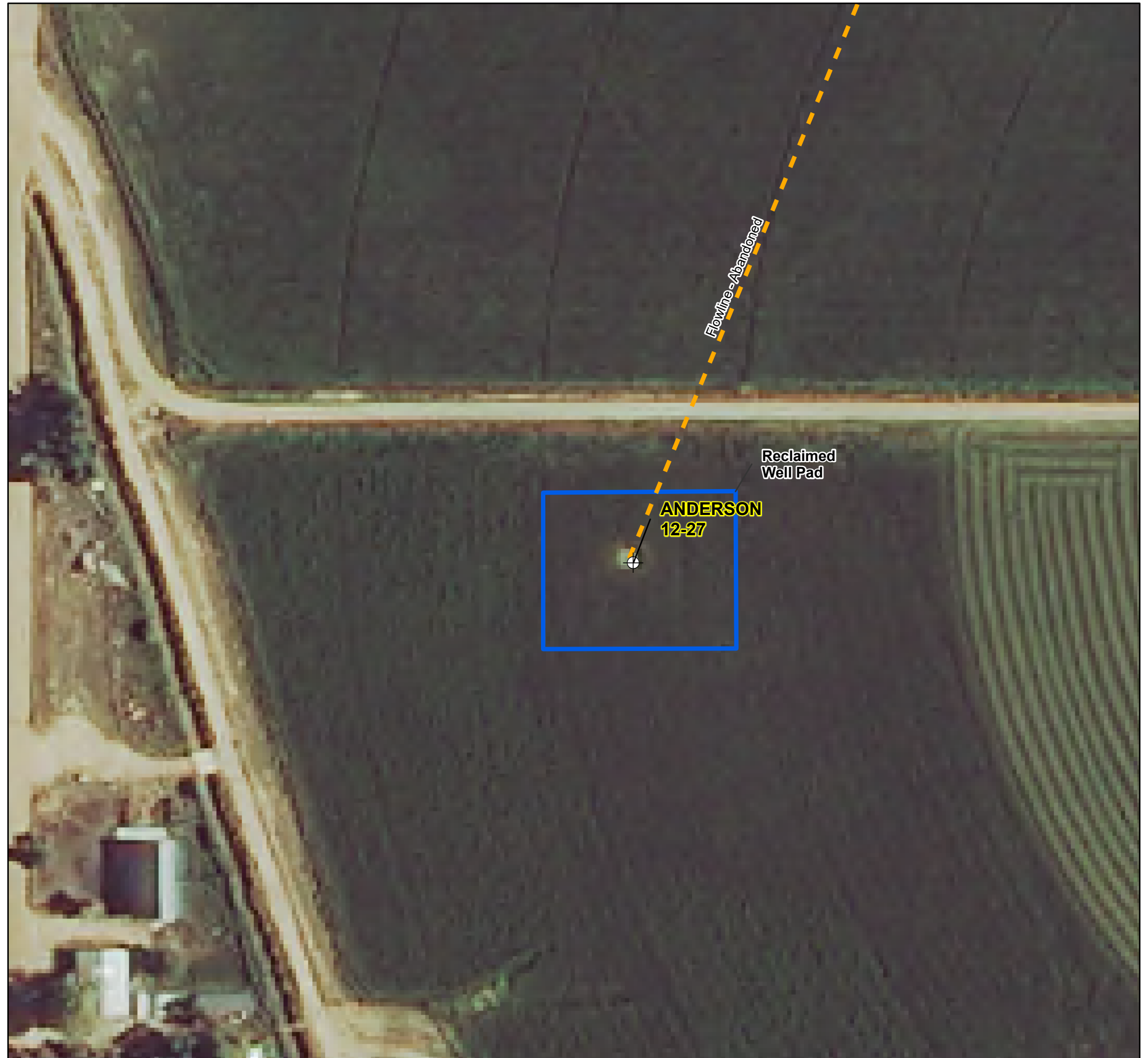
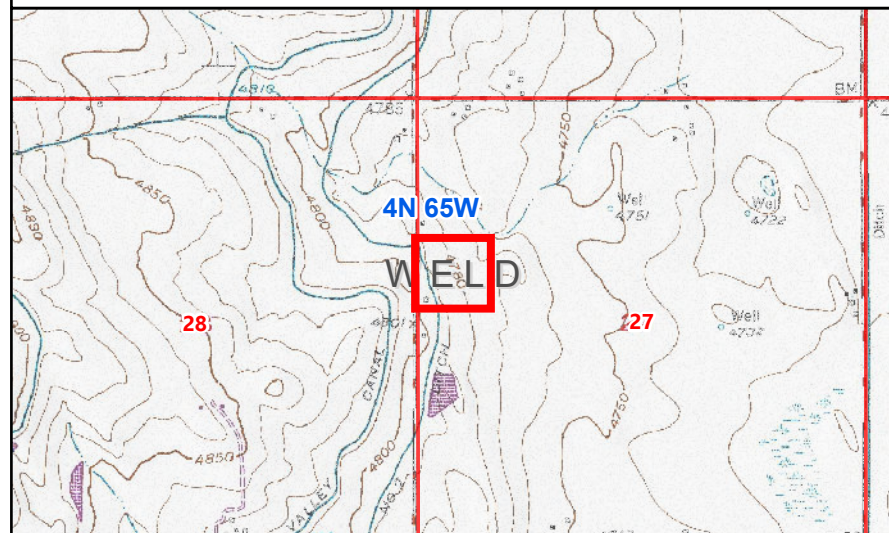


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Date: 10/24/2025

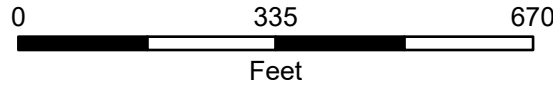
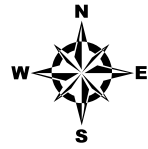
- Well Head
- Flowline - Abandoned
- Reclaimed Well Pad

NAIP 2013 Imagery



# PDC Form 4 Final Reclamation - Pre Plugging Overview

ANDERSON-64N65W/27SWNW



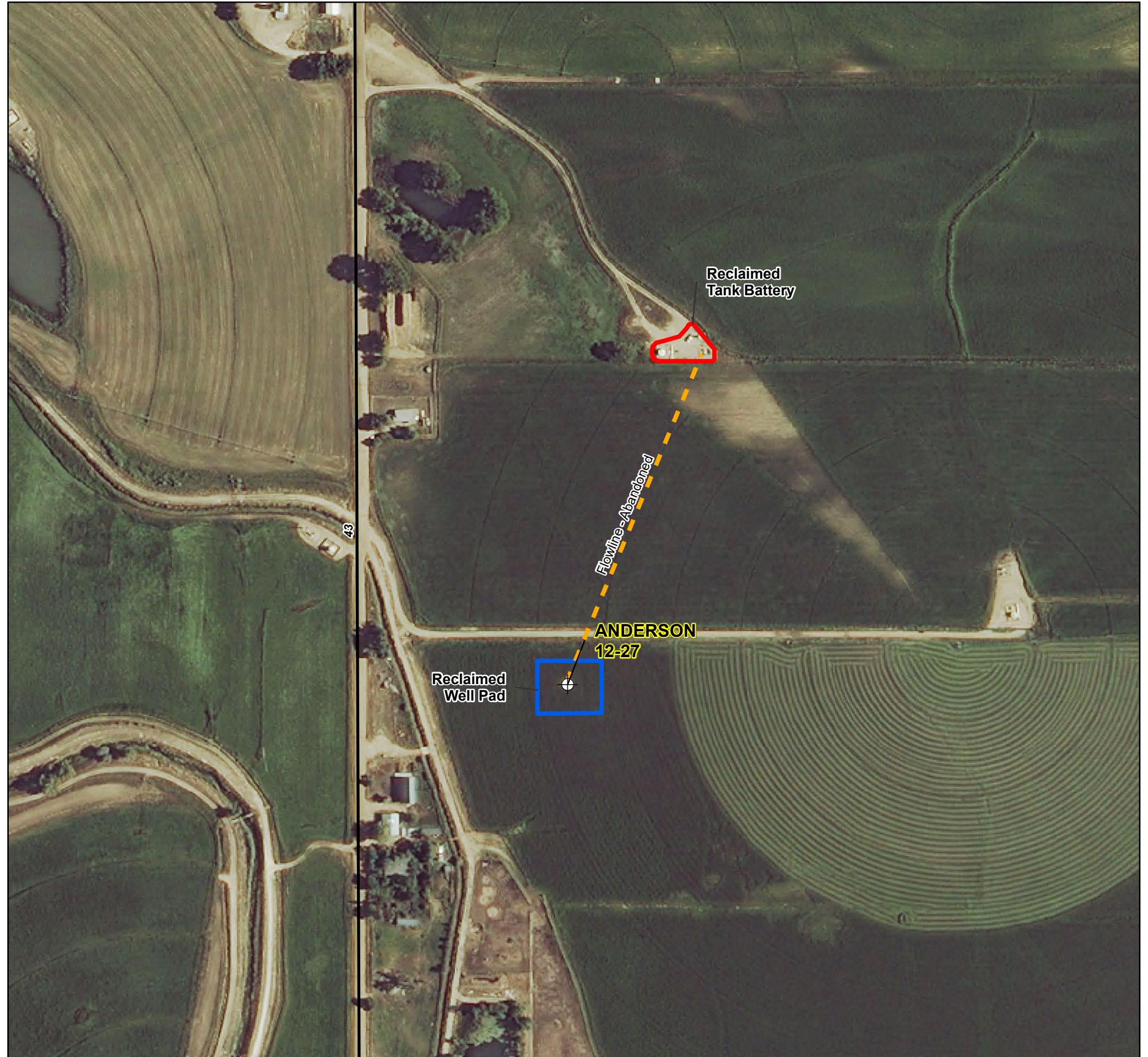
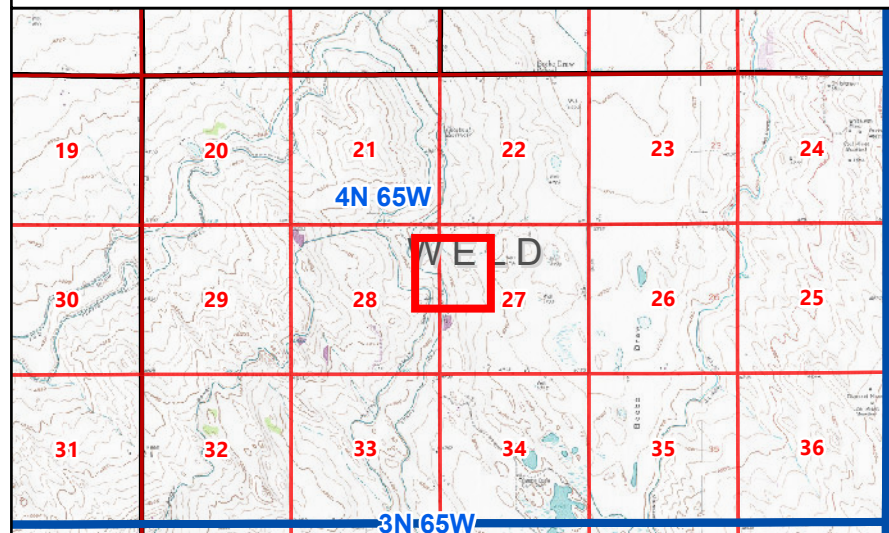
Prepared by:  
Scale: 1:3,000  
Date: 10/24/2025

Editor: CDenison

File: PDC\_PrePlugging\_v1

- ⊕ Well Head
- - - Flowline - Abandoned
- ▭ Reclaimed Tank Battery
- ▭ Reclaimed Well Pad
- County/Local Road

## NAIP 2013 Imagery

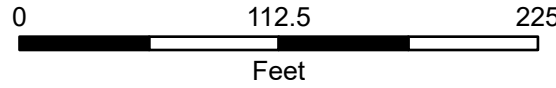
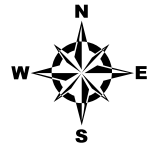


## Post-Plugging and Abandonment Location Overview



# PDC Energy Form 4 Final Reclamation - Post Plugging Overview

ANDERSON-64N65W/27SWNW

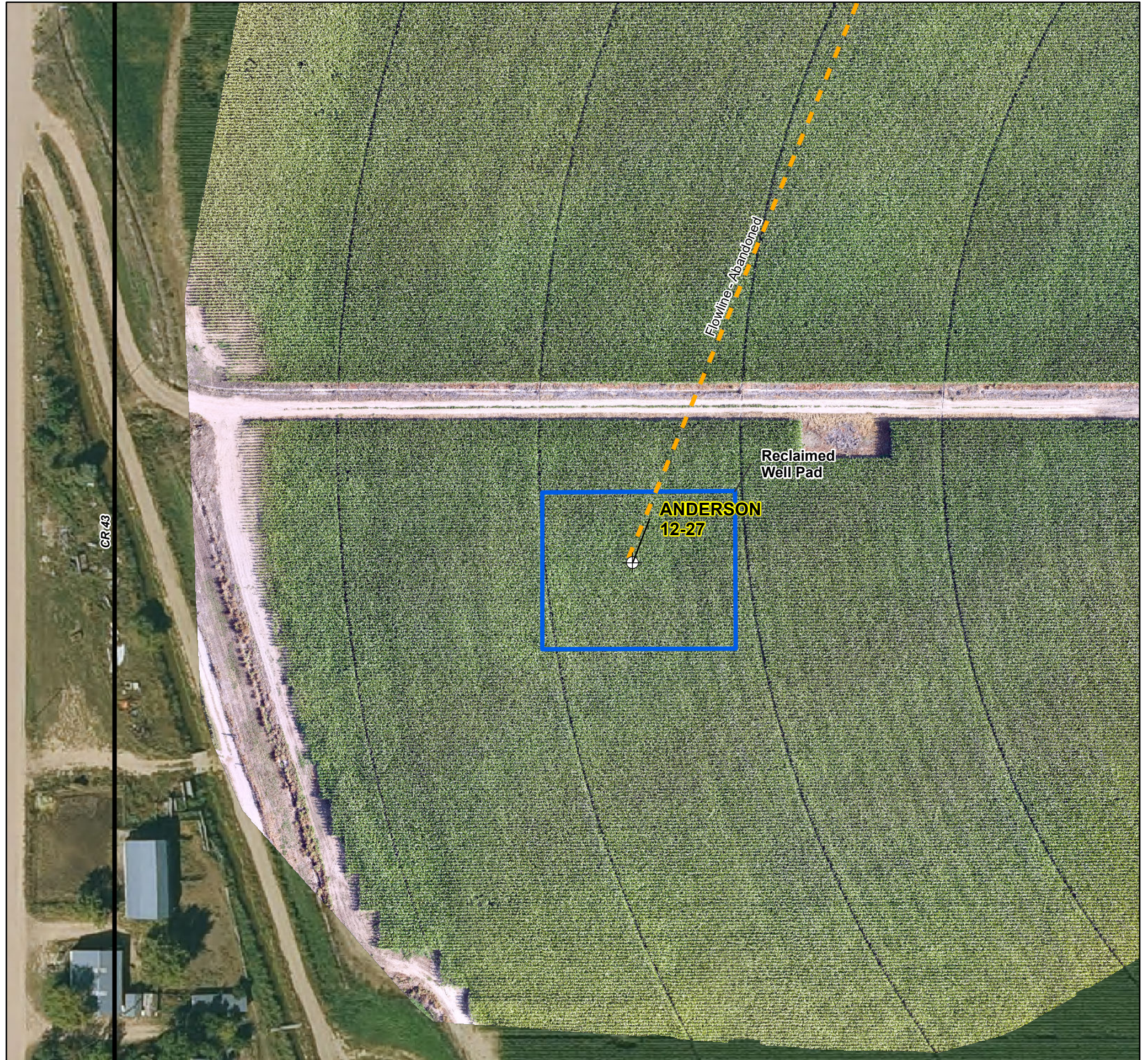
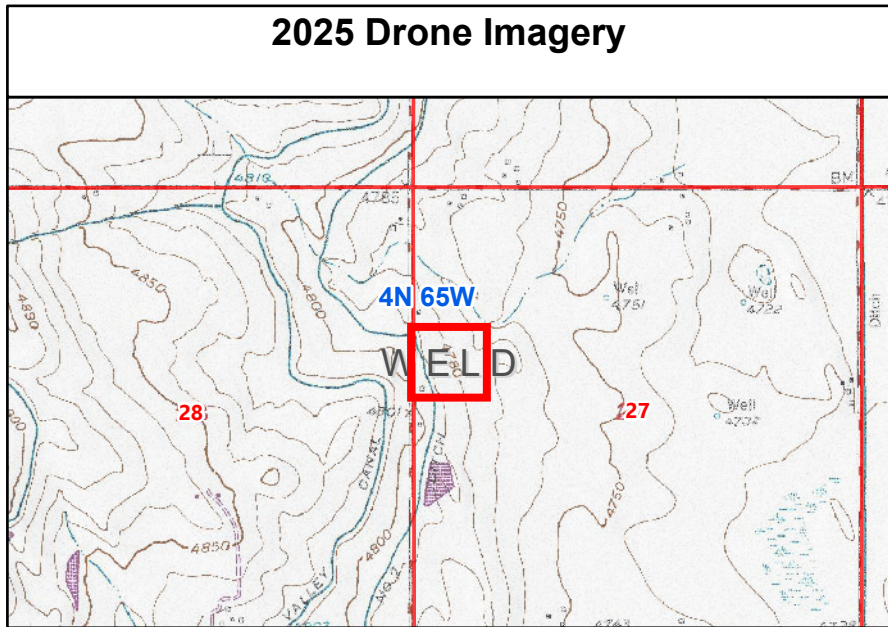


Prepared by:  
Scale: 1:1,000  
Date: 11/11/2025

Editor: EJanak  
File: PDC\_PostPlugging\_v1

- Well Head
- Flowline - Abandoned
- Reclaimed Well Pad
- Weld Local

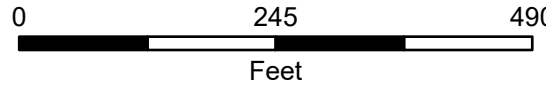
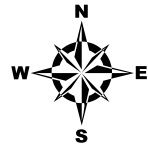
## 2025 Drone Imagery





# PDC Energy Form 4 Final Reclamation - Post Plugging Overview

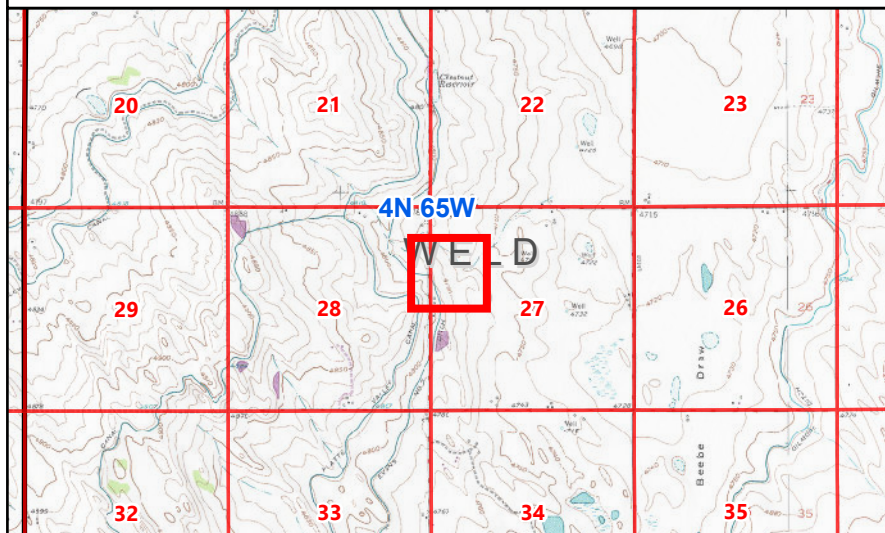
ANDERSON-64N65W/27SWNW



Prepared by:  
Scale: 1:2,200  
Date: 11/11/2025

- Editor: EJanak
- File: PDC\_PostPlugging\_v1
- ⊕ Well Head
- - - Flowline - Abandoned
- ▭ Reclaimed Tank Battery
- ▭ Reclaimed Well Pad
- County/Local Road
- Weld Local

## 2025 Drone Imagery



# Cardinal Direction Drone Photos

Photo Dates:

9/2/2025

Drone Photo Height:

85'

North of Disturbance Facing South  
Lat/Long: 40.28582742 / -104.65721914



South of Disturbance Facing North  
Lat/Long: 40.28400811 / -104.65717394



West of Disturbance Facing East  
Lat/Long: 40.28495050 / -104.65831939



East of Disturbance Facing West  
Lat/Long: 40.28490833 / -104.65593247



## Reference Photo for Crop Growth Stage

Cropland Reference Photo (Corn)  
Lat/Long: 40.28490833/ -104.65593247

