

Site Specific Final Reclamation Completion Notice – Cropland Drone Imagery

Permit Closure Report – Cropland

Location ID: 333044

Location Name: Hankins #44-17U

Report Date:

12/13/2024

HWA Wildlife Consulting has reviewed the data provided in this report. This report was developed in accordance with the *ECMC Operator Guidance - operator supplied cropland drone imagery and information for submitting a final reclamation complete notice.*

Crop Type 2023-Unmanaged

Crop Type 2024-Wheat

Quality Assurance & Quality Control Audit

Performed by	HWA Wildlife Consulting, LLC
Audit Date	July 2 2024



Prepared by:

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Location Checklist:

Operator/#	PDC Energy INC #69175			
Location ID & Name	333044 & HANKINS-65N67W/17SESE			
County	Weld County, CO			
Well Information	Well Name: Hankins #44-17U			
	Well API#: 05-123-25215			
	Lat/Long as Drilled: 40.394530/-104.909190			
	Plug Date & Form 6S Doc #: 8/23/2018 & 401770405			
Facility Entities	X	Tank Battery		Pits
	X	Well	X	On-location Flowlines Form 42 Doc #: 401771416
		Domestic Taps	X	Off-location Flowlines Form 44 Doc #: 403906086
Equipment On-site	X	None		Debris
		Pit mouse/rat holes, cellars backfilled		
Access Road	X	Regraded	X	Contoured
	NA	Culvert removed	X	Gravel removed
		Pre-Existing: must provide supporting documentation		
Reclamation Status	X	Location and associated disturbances reclaimed		
		Subsidence		
Spills or Releases (Form 19)	X	No		Yes
Site Investigation and Remediation Workplan (Form 27/27A)		No	X	Yes
On-Location Flowlines		No	X	Yes
Off-Location Flowlines		No	X	Yes
Inspection Corrective Actions	X	No		Yes
Sundry Notice	Form 4 Doc # & Date:		403203970 & 10/20/2022	
	Purpose		RULE 502 Variance	
	Comments:		"At the request of the surface owner, PDC filed an application for a variance from the final reclamation requirements of Rule 1004.a, to retain the access point and road at Location ID 333044. PDC has completed all other reclamation	

		requirements at the location, including plugging and abandoning wells, removing production equipment, and reclaiming the land. The Commission approved the variance application on July 27, 2022 and published a Corrected Order on October 10, 2022.”
Drone Information	Make and Model	DJI Phantom 4 Pro & WM331S
	Image Processing Software	Drone Deploy
	Pilot Name & FAA Certification #	Emily Schmidt & 5021087
	Date of FAA Certificate Issuance	24 June 2024

Location Summary:

Name	HANKINS-65N67W/17SESE		
Location ID	333044		
Operator/#	PDC ENERGY INC/69175		
Field	Wattenberg/90750		
County, State	Weld, CO		
Lat/Long	40.394500/-104.909190		
	X	Planned location	As Drilled
Facility Status	AC	Location	SESE 17 5N67W
Facility Status Date	3/12/2019		
Facility Entities	X	Tank Battery (Off-Site)	Pits
	X	Wells	X On-Location Flowlines
		Domestic Taps	X Off-Location Flowlines
		Electric Utilities	
Equipment of Site	X	No	Yes
		Pre-existing: must provide supporting documentation	
Access Road	X	Regraded	X Contoured
	NA	Culvert removed	X Gravel Removed
		Pre-existing: must provide supporting documentations	
Environmental Incident and Remediations		None	Spill or Release (Form 19)
	X	Remediation (Form 27/27A)	
Variance Requests	At the request of the surface owner, PDC filed an application for a variance from the final reclamation requirements of Rule 1004.a, to retain the access point and road at Location ID 333044. PDC has completed all other reclamation requirements at the location, including plugging and abandoning wells, removing production equipment, and reclaiming the land. The Commission approved the variance		

	application on July 27, 2022 and published a Corrected Order on October 10, 2022.
Inspection Corrective Actions (CA)s	No Corrective Actions (CA)s were identified
Sundry Notice (Form 4)	Form 4 Doc # & Date: 403203970 & 10/20/2022 <ul style="list-style-type: none"> ○ Purpose: RULE 502 VARIANCE ○ Comment: At the request of the surface owner, PDC filed an application for a variance from the final reclamation requirements of Rule 1004.a, to retain the access point and road at Location ID 333044. PDC has completed all other reclamation requirements at the location, including plugging and abandoning wells, removing production equipment, and reclaiming the land. The Commission approved the variance application on July 27, 2022 and published a Corrected Order on October 10, 2022.”
On-Location Flowlines (Form 42)	Flowlines abandoned 8/30/2018. Abandonment notice given under Form 42 (401771416).
Off-Location Flowlines (Form 44)	Abandonment Doc #403906086 It is PDC’s belief that this flowline was properly abandoned according to the regulations in effect at the time of the abandonment. PDC has diligently searched their records in order to provide all documentation that is available.
Site Investigation and Remediation Workplan (Form 27/27A)	Remediation Project #: 11784 Form 27 Initial Doc # & Date: 401758714 & 9/11/2018 <ul style="list-style-type: none"> ○ Purpose: 909.c.(1), Rule 905: Pit or PW vessel closure ○ Comments: The confirmation soil samples collected from the final extent of the excavation indicated that hydrocarbon impacts were not encountered during the removal of the produced water vessel Form 27A Supplemental Doc # & Date: 401769069 & 9/20/2018 <ul style="list-style-type: none"> ○ Purpose: 909.c.(1), Rule 905: Pit or PW vessel closure ○ Lat/Long of Remediation: 40.393742/-104.907630 ○ Closure Request Approved: 9/21/2018 by Nikki Graber ○ Final Resolution: Case Resolved on 9/21/2018 ○ Note: As previously described, the confirmation soil samples collected from the final extent of the excavation indicated that hydrocarbon impacts were not encountered during the removal of the produced water vessel
Spill or Release (Form 19)	No Form 19 was identified

Field Inspection Form (Form INSP)	There are no field inspection forms with unresolved corrective actions.
COGIS Tank Facilities Information (Scout Card)	No tank battery scout card was detected. The tank battery serviced the Hankins #44-17U and the Hankins #33-17U well. The tank battery is referenced in Remediation Project #11784.
COGIS Well Facilities Information (Scout Card)	Well Name: HANKINS #44-17U Facility ID: 290755 Status and Date: PA & 8/23/2018 Lat/Long as Drilled: 40.394530/-104.909190

Site Description:

Audit Key Findings – Designation Land Use Observations

PREVIOUS LAND USE	CURRENT LAND USE
Reference imagery for infrastructure: NAIP 2009	Remote sensed Imagery: 7/2/2024
Designation: Oil and Gas Facility	Designation: Cropland

The following imagery sources were reviewed during this investigation:

NAIP Imagery 2005, 2006, 2009, 2011, 2013, 2017, 2019, and 2023.

Closure Information

The location ID (333044) includes the Hankins #44-17U well (API # 05-123-25215) and the Hankins #17Y-DU well (API # 05-123-29201). According to Sundry Notice #64757 (received on September 11th, 2011), the Hankins 17Y-DU well was never built. However, the Hankins 44-17W well was built within 20 meters of the planned Hankins 17-Y-DU well location so this report could apply to both well locations.

This site is located in Weld County, Colorado, near the intersection of County Rd 17 and County Road 56. The Hankins 44-17W well was plugged and abandoned on August 23rd, 2018. The associated on-location flowline was abandoned on August 30th, 2018. The associated off-location flowline was abandoned on August 27th, 2018. The Hankins #33/44-17U TB serviced the Hankins #44-17U and the Hankins #33-17U wells. The associated tank battery will be passed in this report.

Gravel remains within portions of the tank battery; however, the tank battery can pass as the variance has been approved for this gravel/road area (#22020025). The Commission approved the variance application on July 27th, 2022, and published a Corrected Order on October 10th, 2022.

A Site Investigation and Remediation work plan was carried out for the removal of the water vessels. Soil samples taken from the final excavation extent showed no hydrocarbon impacts during the removal of the produced water vessel. The case was closed on September 21st, 2018. There were no documented spill or releases in COGIS related to the Hankins #44-17U well or associated tank battery. Drone imagery confirms that no equipment remains following reclamation activities. There is no sign of disturbance or stunted crop within the well, access road, flowlines, or TB (not associated within the approved variance).

Drone information:

Make	DJI Phantom Pro
Model	WM331S
Image Processing Software	Drone Deploy
Pilot Name	Emily Schmidt
Pilot Certification Number	5021087
Date of FAA Certification Issuance	24 June 2024

Location Overview:

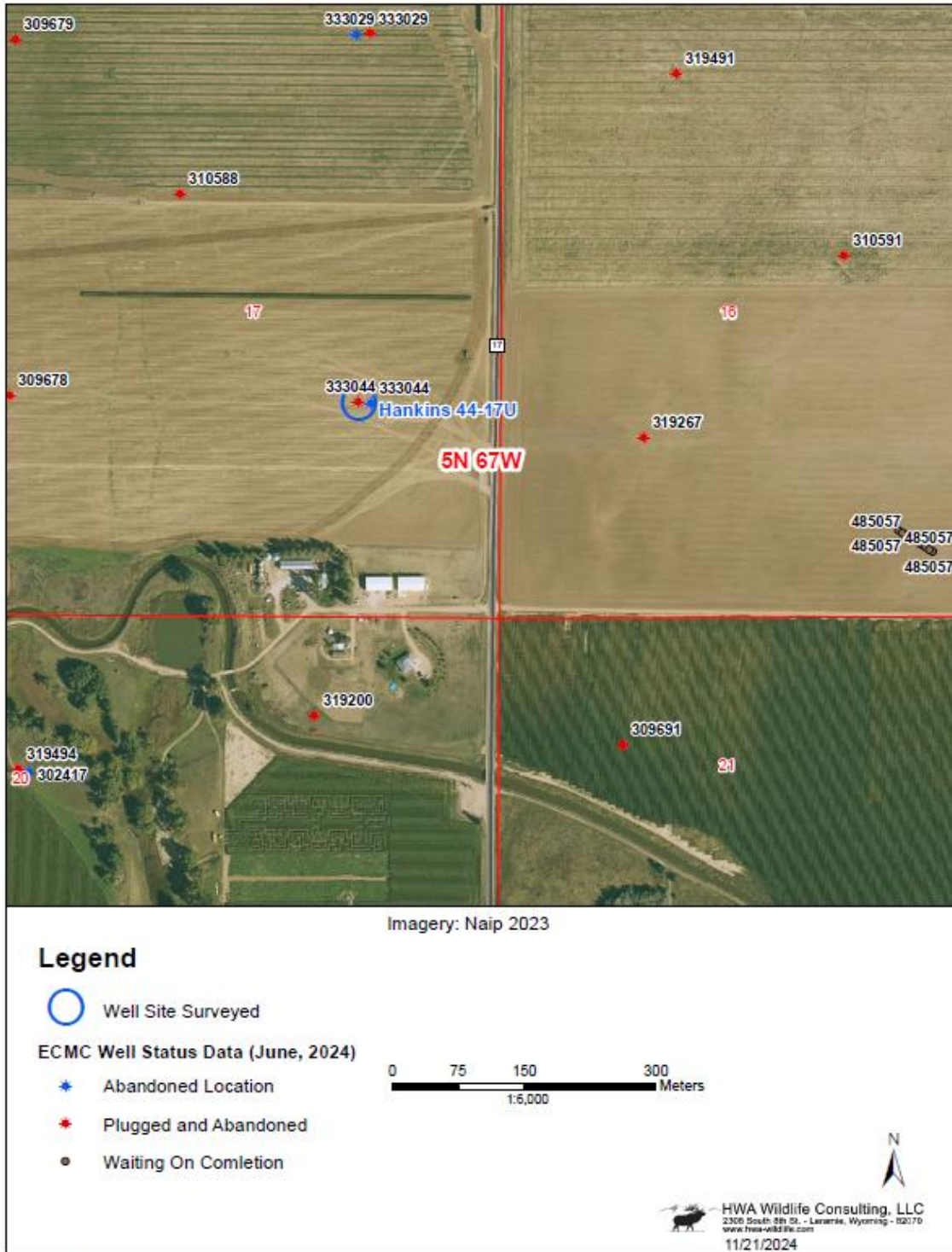


Figure 1. Overview of the reclaimed well site surveyed during 2024.

Pre-Plugging Active Operation Location Overview:

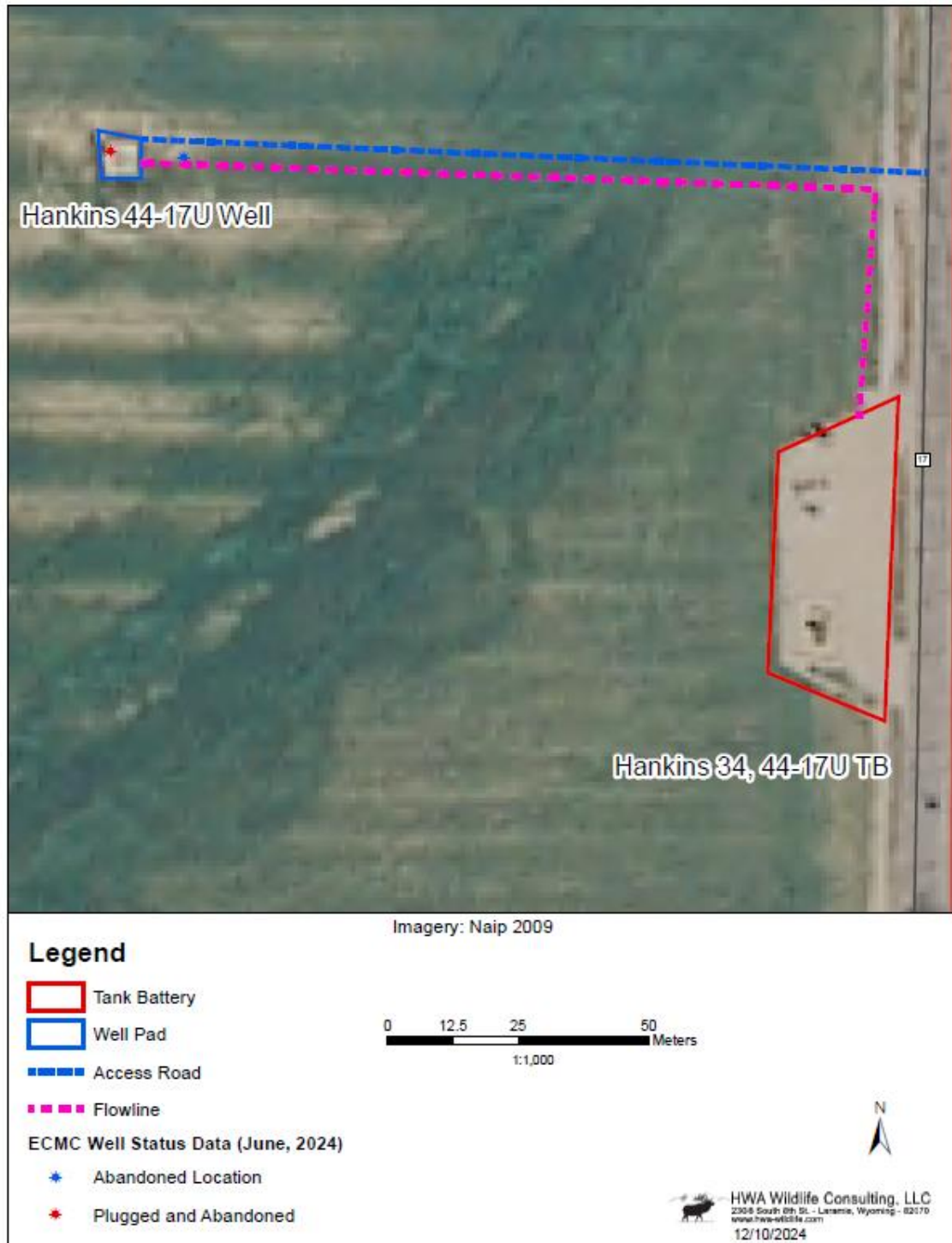


Figure 2. Pre-plugging overview of the reclaimed well site and the associated access road, tank battery, and flowline.

Post-Plugging and Abandonment Location Overview:

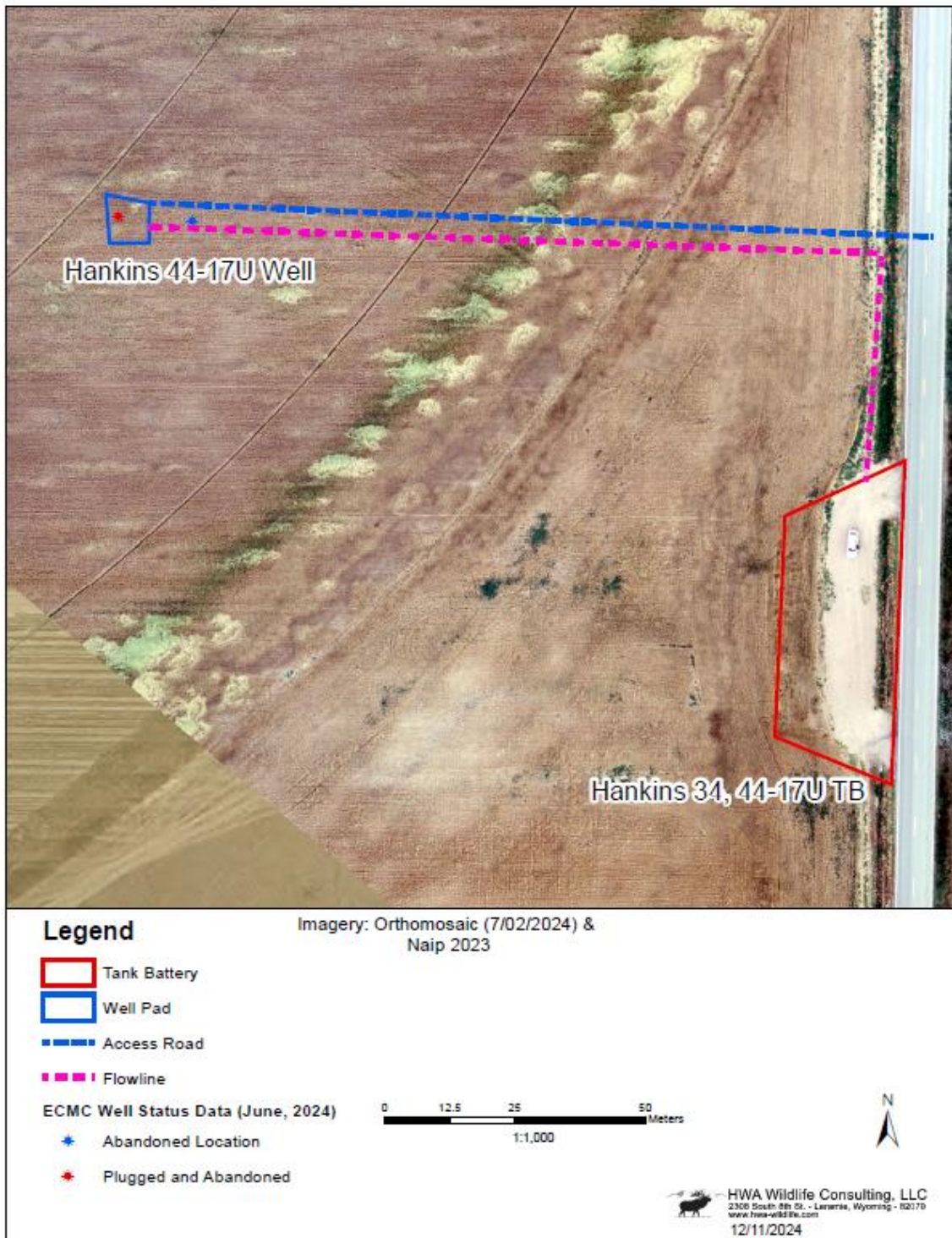


Figure 3. Post-plugging overview of the reclaimed well site and the associated access road, tank battery, and flowline.

Cardinal Directional Drone Photos and Reference Area Photos (7/02/2024):



Figure 4: Looking North towards well, 120 feet in height, Lat/Long: 40.393573/-104.908772.

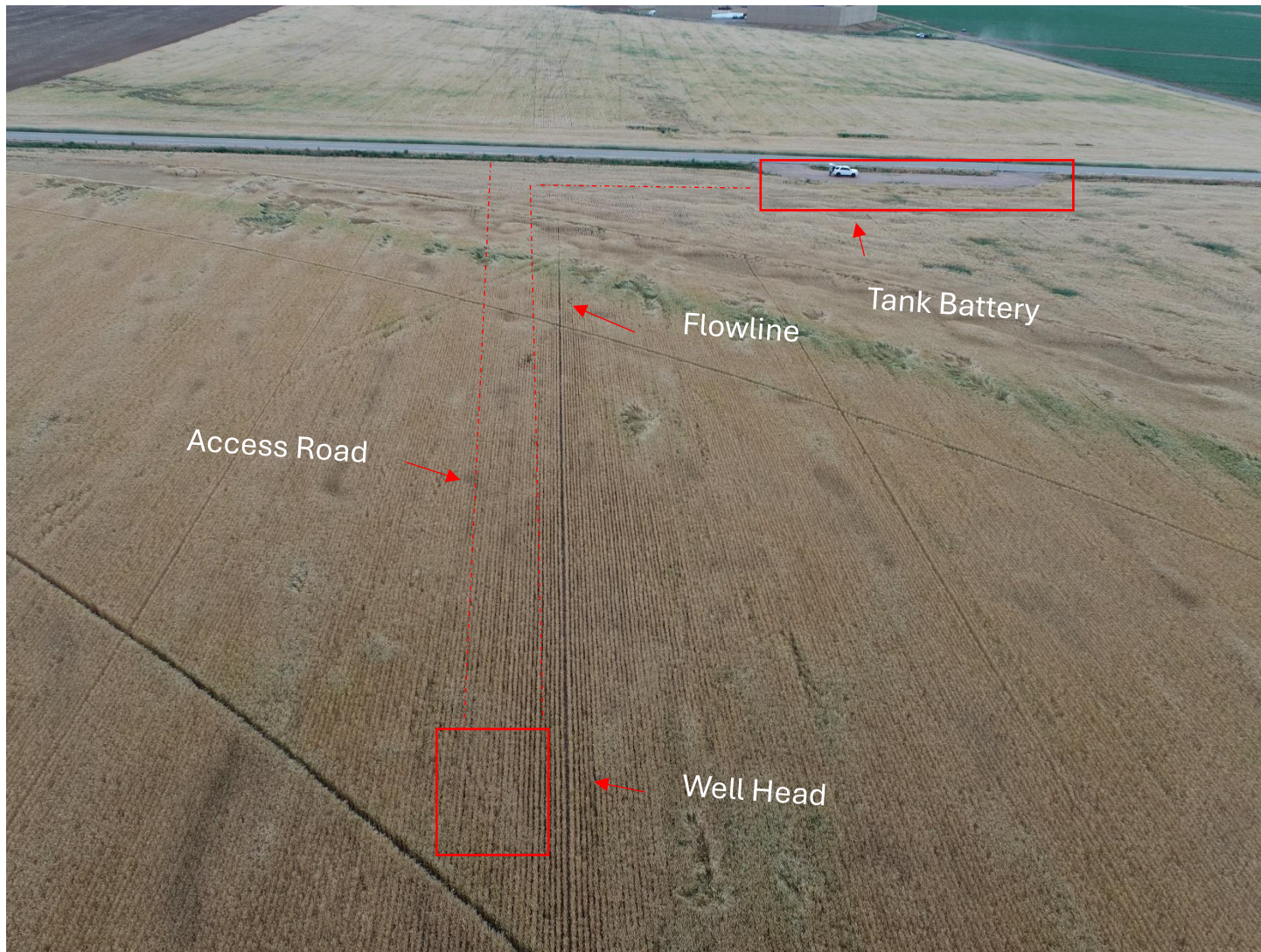


Figure 5: Looking East towards well, access road, and flowline, 120 feet in height: Lat/Long: 40.394487/-104.909653.



Figure 6: Looking West towards well and reference area, 120 feet in height, Lat/Long: 40.394598/-104.907416.



Figure 7: Looking South towards well, 120 feet in height, Lat/Long: 40.39503/-104.908755.



Figure 8: Looking North towards TB, 120 feet in height, Lat/Long: 40.393217/-104.907445.



Figure 9: Looking East towards TB, 100 feet in height, Lat/Long: 40.39387/-104.90817.

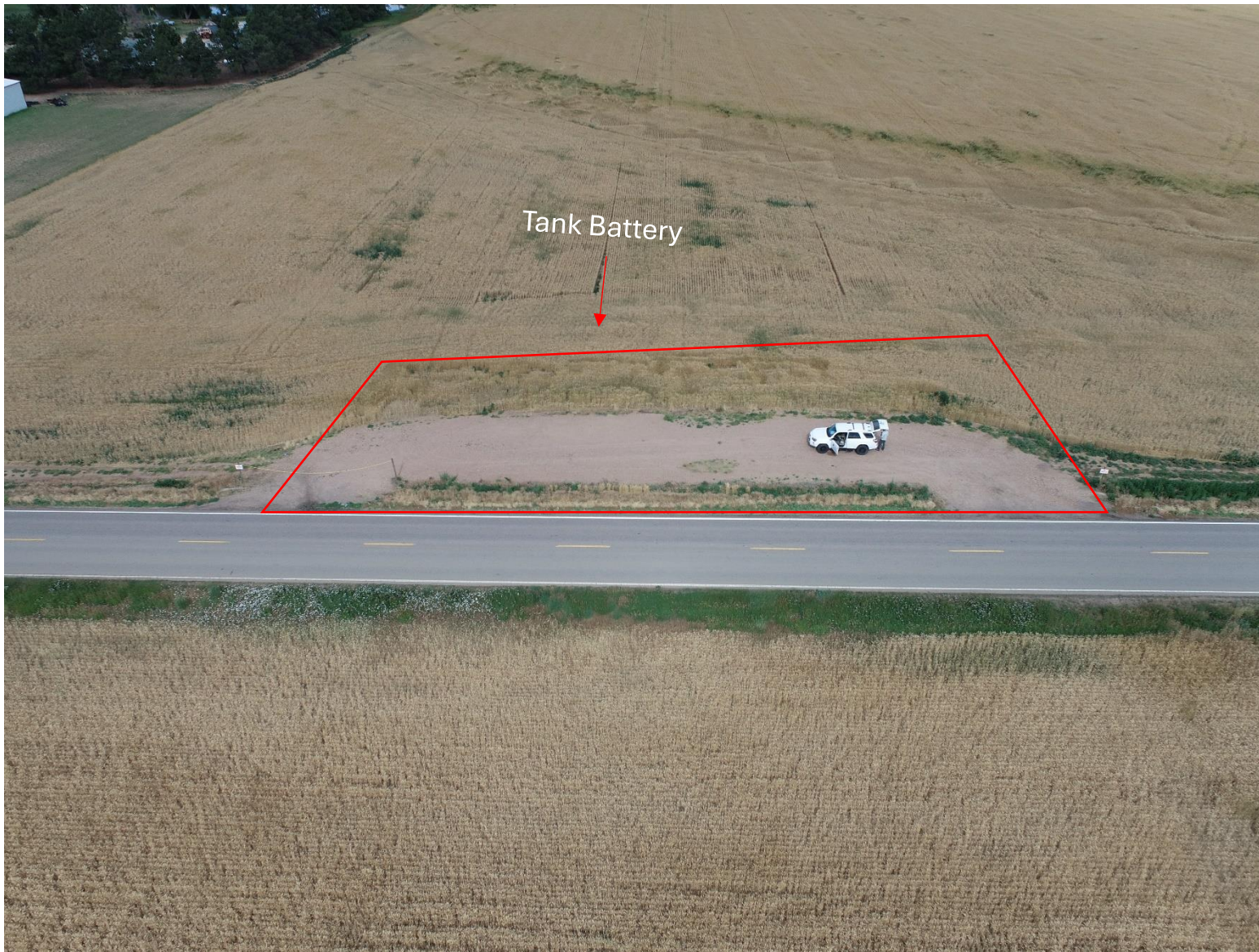


Figure 10: Looking West towards TB, 100 feet in height, Lat/Long: 40.393857/-104.906805.



Figure 11: Looking South towards TB, 120 feet in height, Lat/Long: 40.394441/-104.907464.

Ground Photos: (7/2/2024):



Figure 12: North edge of TB looking South.



Figure 13: East edge of TB looking West.



Figure 14: South edge of TB looking North.



Figure 15: West edge of TB looking East.

Gound Photo 7/2/2024:



Figure 16: Looking west towards the well access road take off.



Figure 17: Cropland Reference Photo showing wheat in appropriate reproductive growth stage.