

Site Specific Final Reclamation Completion Notice – Cropland Drone Imagery

Permit Closure Report – Cropland

Location ID: 332061

Location Name: Steinmetz #21-17

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 Year and Type:

Crop Type 2023-Corn

Crop Type 2024-Corn

Quality Assurance & Quality Control Audit

Performed by	HWA Wildlife Consulting, LLC
Audit Date	22 July 2024



Prepared by:

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Location Checklist:

Operator #	PDC Energy INC #69175		
Location ID & Name	332061 & STEINMETZ-65N64W/17NENW		
County	Weld County, CO		
Well Information	Well Name: Steinmetz #21-17		
	Well API#: 05-123-21779		
	Lat/Long as Drilled: 40.404444/-104.576111		
	Plug Date & Form 6S Doc #: 11/28/2018 & 401880822		
Facility Entities		Tank Battery	
	X	Well	X
		Domestic Taps	X
			Pits
			On-location Flowlines Form 42 Doc #: 401915009
			Off-location Flowlines Form 44 Doc #: 403906166
Equipment On-site	X	None	
			Debris
			Pit mouse/rat holes, cellars backfilled
Access Road	X	Regraded	X
	NA	Culvert removed	X
			Contoured
			Gravel removed
			Pre-existing: must provide supporting documentations
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)	X	No	Yes
On-Location Flowlines		No	X
Off-Location Flowlines		No	X
Inspection Corrective Actions		No	X
Sundry Notice	Form 4 Doc # & Date:	402675686 & 4/29/2021	
	Purpose	Final reclamation complete, site ready for inspection.	
	Comments:	The associated centralized facility is permitted separately (Location ID: 450387). The production facility has been reclaimed and a Form 4 will be submitted separately. The location was accessed via a crop divide road that branches west to the well site. This road	

		remains for its historical purpose of field access. A portion of the access road specific to the Steinmetz #21-17 well has been superseded by the M&M Excavation Yard. The remainder of the road has been fully reclaimed and returned to cropland.
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	STEINMETZ-65N64W/17NENW		
Location ID	332061		
Operator/#	PDC ENERGY INC/69175		
Field	Wattenberg/90750		
County, State	Weld, CO		
Lat/Long	40.400935/-104.576296		
	X	Planned location	As Drilled
Facility Status	CL	Location	NENW 17 5N64W
Facility Status Date	11/28/2018		
Facility Entities	X	Tank Battery (Off-Site)	Pits
	X	Wells	X On-Location Flowlines
		Domestic Taps	X Off-Location Flowlines
		Electric Utilities	
Equipment On-site	X	No	Yes
		Pit mouse/rat holes, cellars backfilled	
Access Road	X	Regraded	X Contoured
	NA	Culvert removed	X Gravel Removed
		Pre-existing: must provide supporting documentations	
Environmental Incident and Remediations	X	None	Spill or Release (Form 19)
		Remediation (Form 27/27A)	
Variance Requests	No variances were detected during the inspection		
Inspection Corrective Actions (CA)s	Corrective Actions (CA)s were detected during the inspection		
Sundry Notice (Form 4)	Form 4 Doc # & Date: 402675686 & 4/29/2021 <ul style="list-style-type: none"> ○ Purpose: Final reclamation complete, site ready for inspection. ○ Comments: The associated centralized facility is permitted separately (Location ID: 450387). The production facility 		

	has been reclaimed and a Form 4 will be submitted separately. The location was accessed via a crop divide road that branches west to the well site. This road remains for its historical purpose of field access. A portion of the access road specific to the Steinmetz #21-17 well has been superseded by the M&M Excavation Yard. The remainder of the road has been fully reclaimed and returned to cropland.
On-Location Flowlines (Form 42)	Flowlines abandoned 12/5/2018. Abandonment notice is given under Form 42 (401915009)
Off-Location Flowlines (Form 44)	Flowlines abandoned on 11/28/2018. Abandonment Doc #403906166. 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)	No Form 27 was identified
Spill or Release (Form 19)	No Form 19 was identified
Field Inspection Form (Form INSP)	Form Inspection Doc # & Date 701100056 & 2/25/2020 <ul style="list-style-type: none"> ○ Status Summary: corrective action response requested ○ Inspection facilities: STEINMETZ 21-17 well & STEINMETZ 1; 21-17 tank battery ○ Inspection Date and Inspector: 9/6/2022 & Corey McDonough ○ Notes: The tank battery does not comply with Rule 1004. Western portion of the tank battery shows stunted growth and does not reflect the reference areas. Site investigation into why the crops are stunted is required
COGIS Tank Facilities Information (Scout Card)	Location name: Steinmetz 1, 21-17 Facility ID: 436627 Status & Date: AC & 4/3/2014 Lat/Long: 40.402488/-104.574344
COGIS Tank Facilities Information (Scout Card)	Well Name: STEINMETZ #21-17 Facility ID: 269940 Status and Date: PA & 11/28/2018 Lat/Long as Drilled: 40.404444/-104.576111

Site Description:

Audit Key Findings – Designation Land Use Observations

PREVIOUS LAND USE	CURRENT LAND USE
Reference imagery for infrastructure: NAIP 2005	Remote sensed Imagery: 7/22/2024
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 Steinmetz #21-17 well (API # 05-123-21779) is located in Weld County, Colorado near the intersection of County Road 58 and County Road 51. The well was plugged and abandoned on November 28th, 2018. The associated on-location flowline was abandoned on December 5th, 2018. The associated off-location flowline was abandoned on November 28th, 2018.

The Steinmetz #1, 2#1-17 tank battery serviced the Steinmetz #1 and Steinmetz #21-17 well. The associated centralized facility is permitted separately (Facility ID: 436627) but will be tied to the Steinmetz #1 well (location ID 323082, Figure 1). See Steinmetz #1 report for tank battery details. The tank battery will not be associated with this report.

There were no documented spills/releases or remediation projects, in COGIS related to the Steinmetz #21-17 well. There is a corrective action associated with the Steinmetz #1, 21-17 tank battery. However as mentioned above, the tank battery is not tied to this report.

The Steinmetz #21-17 well is associated with the Goza Beneficial Reuse Area (Facility ID 443741), which is operated by Grizzly Operations, LLC. The Operator has demonstrated that the facility meets the environmental closure requirements; however, the facility will remain with an "Active" status until a final reclamation review has been performed.

Drone imagery confirms that no equipment remains after reclamation activities. The imagery also shows no disturbances or stunted crop growth resulting from the well, flowlines, or access road.

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:

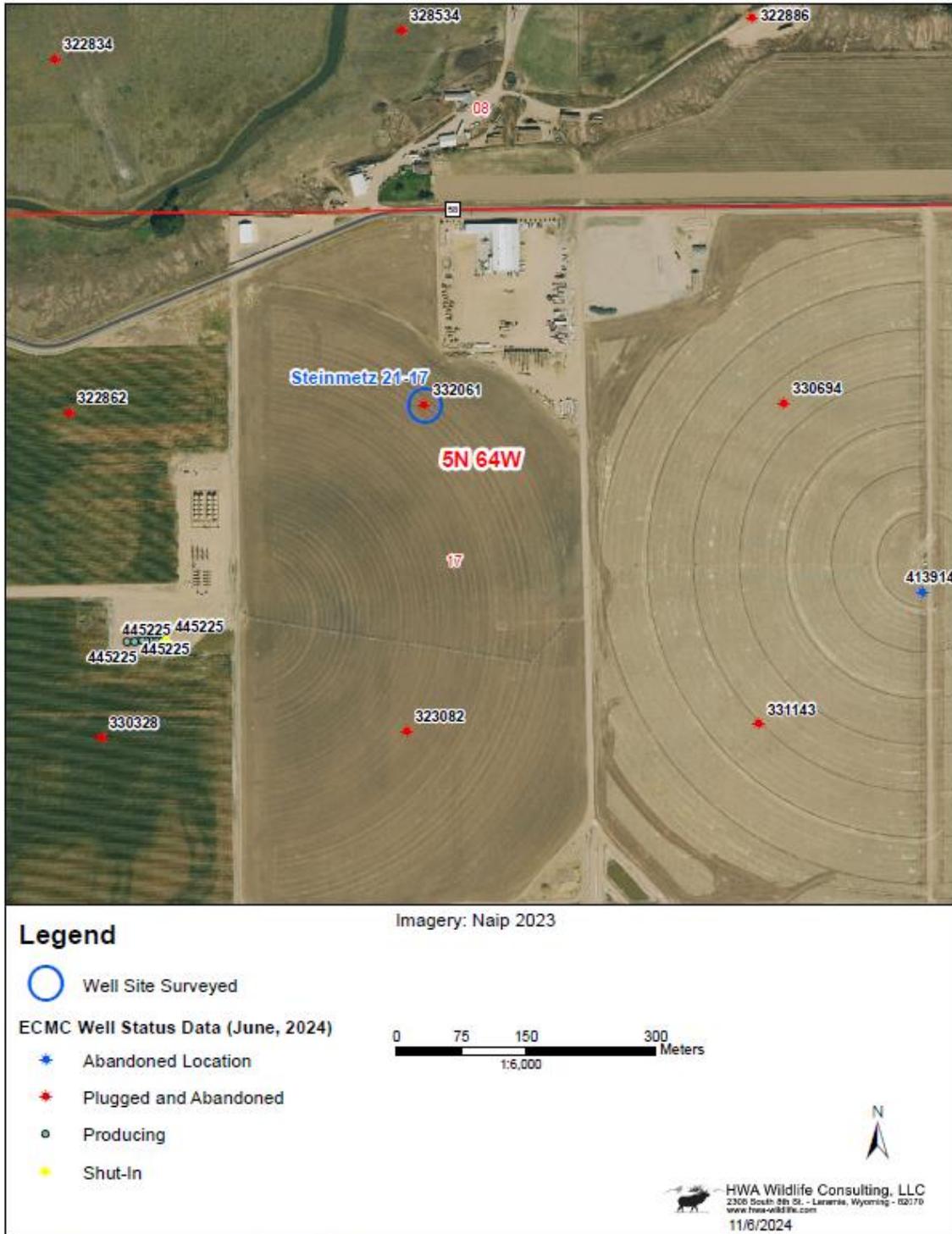


Figure 1. Overview of the reclaimed well site surveyed during 2024.

Pre-Plugging Active Operation Location Overview:

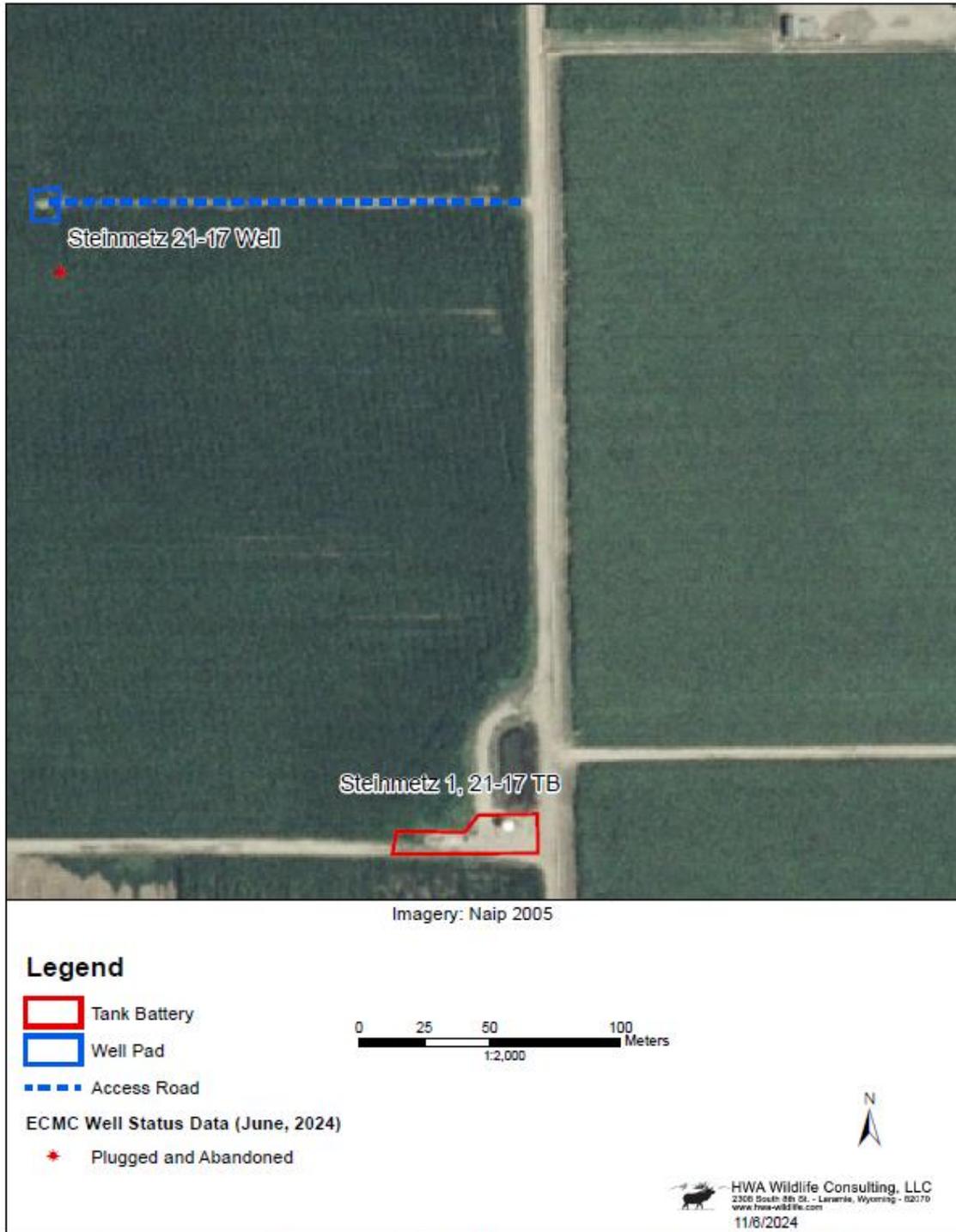


Figure 2. Pre-plugging overview of the reclaimed well site and the associated access road, tank battery, and flowline.

Post-Plugging and Abandonment Location Overview:

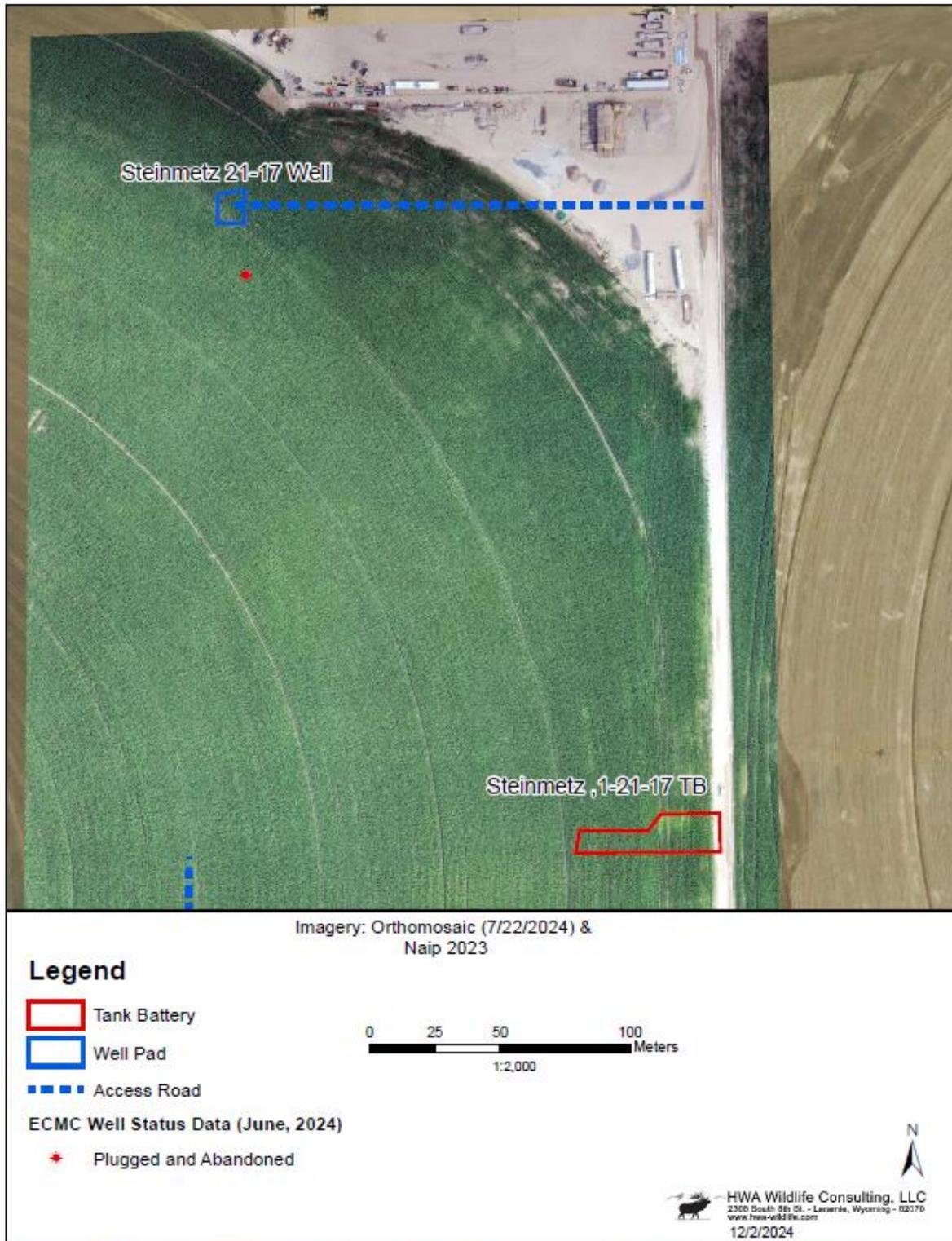


Figure 3. Post-plugging overview of the reclaimed well site and the associated access road, tank battery, and flowline.

Cardinal Directional Drone Photos and Reference Area Photos (7/22/2024):



Figure 4: Looking North towards well, 100 feet in height, Lat/Long: 40.403624/-104.576352.



Figure 5: Looking West towards well, 100 feet in height, Lat/Long: 40.404517/-104.575117.



Figure 6: Looking South towards well, 100 feet in height, Lat/Long: 40.405277/-104.57593.



Figure 7: Looking East towards well, access road, and reference area, 100 feet in height, Lat /Long: 40.404775/-104.577376.



Figure 8: Looking Southeast towards flowline, 100 feet in height, Lat/Long: 40.405483/-104.577233.

Ground Photo (7/22/2024):



Figure 9: Cropland Reference Photo showing corn in the appropriate reproductive growth stage.