

# Site Specific Final Reclamation Completion Notice – Land Use Change Drone Imagery

Permit Closure Report – Designation Land Use Change - Industrial/Commercial

**Location ID:** 323063

**Location Name:** Parish #32-2

**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.*

**Land Use:**

**2023-**Industrial/Commercial

**2024-**Industrial/Commercial

## Quality Assurance & Quality Control Audit

<b>Performed by</b>	HWA Wildlife Consulting, LLC
<b>Audit Date</b>	9 July 2024



Prepared by:

*HWA Wildlife Consulting, LLC  
2308 South 8<sup>th</sup> Street  
Laramie, WY 82070  
www.hwa-wildlife.com  
(307) 742-5440*

**Location Checklist:**

<b>Operator #</b>	PDC Energy INC #69175		
<b>Location ID &amp; name</b>	323063 & PARISH-65N67W/32SWSW		
<b>County</b>	Weld County, CO		
<b>Well Information</b>	Well Name: Parish #32-2		
	Well API #: 05-123-12508		
	Lat/Long as Drilled: 40.350830/-104.923640		
	Plug Date & Form 6S Doc #: 3/07/2017 & 401269428		
<b>Facility Entities</b>	X	Tank Battery	Pits
	X	Well	X On-location Flowlines Form 42 Doc #: 401244605
		Domestic Taps	Off-location Flowlines Form 44 Doc #: NA
<b>Equipment On-site</b>	X	None	Debris
		Pit mouse/rat holes, cellars backfilled	
<b>Access Road</b>	X	Regraded	X Contoured
	NA	Culvert removed	X 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>Site Investigation and Remediation Workplan (Form 27/27A)</b>		No	X Yes
<b>On-Location Flowlines</b>		No	X Yes
<b>Off-Location Flowlines</b>		No	X Yes
<b>Inspection Corrective Actions</b>		No	X Yes
<b>Sundry Notice</b>	Form 4 Doc # & Date:	402425376 & 6/18/2020	
	Purpose	Final reclamation complete, site ready for inspection. Field inspection will be conducted to document Rule 1004.c. compliance.	
	Comment	This plugged well's former disturbance area is currently owned by Shawn Greathouse with a Commercial land use classification	

		(account type) and there is a boat & RV storage lot where the well used to be.
<b>Drone Information</b>	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:**

<b>Name</b>	PARISH-65N67W/32SWSW		
<b>Location ID</b>	323063		
<b>Operator/#</b>	PDC ENERGY INC/69175		
<b>Field</b>	Wattenberg/90750		
<b>County, State</b>	Weld, CO		
<b>Lat/Long</b>	40.350854/-104.924296		
	X	Planned Location	As Drilled
<b>Facility Status</b>	CL	<b>Location</b>	SWSW 32 5N67W
<b>Facility Status Date</b>	3/07/2017		
<b>Facility Entities</b>	X	Tank Battery (Off-Site)	Pits
	X	Wells	X On-Location Flowlines
		Domestic Taps	X Off-Location Flowlines
		Electric Utilities	
<b>Equipment On-site</b>	X	No	Yes
		Pit mouse/rat holes, cellars backfilled	
<b>Access Road</b>	X	Regraded	X Contoured
	NA	Culvert removed	X Gravel Removed
		Pre-existing: must provide supporting documentations	
<b>Environmental Incident and Remediations</b>		None	Spill or Release (Form 19)
	X	Remediation (Form 27/27A)	
<b>Variance Requests</b>	No variance requests were identified		
<b>Inspection Corrective Actions (CA)s</b>	Corrective Actions (CA)s were identified		
<b>Sundry Notice (Form 4)</b>	Form 4 Doc # & Date: 06/18/2020 & 402425376 <ul style="list-style-type: none"> <li>○ Purpose Final reclamation complete, site ready for inspection. Field inspection will be conducted to document Rule 1004.c. compliance.</li> <li>○ Comments: This plugged well's former disturbance area is currently owned by Shawn Greathouse with a Commercial land use classification (account type) and there is a boat &amp; RV storage lot where the well used to be.</li> </ul>		

<b>On-Location Flowlines (Form 42)</b>	Flowlines were abandoned on 3/21/2017. Abandonment notice was given under Form 42 (401244605)
<b>Off-Location Flowlines (Form 44)</b>	The well was plugged and abandoned on 3/07/2017. The associated flowline was abandoned on 3/07/2017. 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. In accordance with the record keeping requirements within Rule 206.F.1, PDC does not have flowline abandonment notice records to include with this sundry.
<b>Site Investigation and Remediation Workplan (Form 27/27A)</b>	Remediation Project #: 10123 Form 27 & Date: 4401250328 & 04/04/2017 <ul style="list-style-type: none"> <li>○ Purpose: 909.c.(1), Rule 905: Pit or PW vessel closure</li> <li>○ Lat/Long of Remediation: 40.536544/ -104.552716</li> <li>○ Closure Request Approved: 4/06/2017 by Rick Allison</li> <li>○ Final Resolution: Case Resolved 4/06/2017</li> <li>○ Note: As required by COGCC Rule 905.B, a soil sample was collected when buried or partially buried produced water vessels was removed from service. Following excavation activities, the location was backfilled, compacted, and re-contoured to match pre-existing conditions.</li> </ul>
<b>Spill or Release (Form 19)</b>	No Form 19 was identified
<b>Field Inspection Form (Form INSP)</b>	Form Inspection Doc # & Date: 701900966 & 7/18/2023 <ul style="list-style-type: none"> <li>○ Status Summary: corrective action response requested</li> <li>○ Inspection facilities: PARISH #32-2</li> <li>○ Inspection Status: RI</li> <li>○ Inspection Date and Inspector 7/3/2023 &amp; McDonough, Corey</li> <li>○ Notes: The well location appears to meet final reclamation regulations and standards. Unable to find evidence of oil and gas activities and/or disturbances. The tank battery location does not comply with Rule 1004. Reclamation rules require reclamation activities to be conducted within twelve months of plugging on non-cropland. Well was plugged on 3/07/2017. Weedy, annual vegetation was observed which includes but not limited to cheatgrass.</li> </ul>
<b>COGIS Tank Facilities Information (Scout Card)</b>	Location Name: Parish/32-2 Facility ID: 449915 Status and Date: CL & 4/6/2017 Lat/Long: 40.349155/-104.92183

<b>COGIS Well Facilities Information (Scout Card)</b>	Well Name: PARISH #32-2 Facility ID: 244713 Status and Date: PA & 3/7/2017 Lat/Long as Drilled: 40.350830/-104.923640
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**Site Description:**

**Audit Key Findings – Designation Land Use Observations**

PREVIOUS LAND USE	CURRENT LAND USE
Reference imagery for infrastructure: NAIP 2006	Remote sensed Imagery: 7/9/2024
Designation: Oil and Gas Facility	Designation: Industrial/Commercial

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

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

## Closure Information

The Parish #32-2 well (05-123-12508) is in Weld County, Colorado near the intersection of County RD 50 and County Road 15 ½. The well was plugged and abandoned on March 7<sup>th</sup>, 2017. The associated on-location flowline was abandoned on March 21<sup>st</sup>, 2017. The associated off-location flowline was abandoned on March 7<sup>th</sup>, 2017.

The Parish #32-2 well was serviced by the Parish #32-2 tank battery, which is permitted separately (Facility ID 44991), but will pass with this report. Formerly located within cropland, the well and TB areas have undergone a land use change. Shawn Greathouse currently owns the land and there is a boat & RV storage lot where the well and TB used to be located. The well is located within the fenced in storage lot. The TB is located along the perimeter of the lot where the area has been converted into rangeland and a parking area.

There were no documented spills or releases in COGIS related to the Parish #32-2 well or the associated tank battery. A blanket site investigation and remediation work plan was submitted for the closure of the Parish #32-3 site. Following excavation activities, the site was backfilled, compacted, and re-contoured to restore it to pre-existing conditions. The case was closed on April 6<sup>th</sup>, 2017.

An inspection report from 2023 (Doc #701900966) notes that the tank battery location does not comply with Rule 1004, citing the presence of weedy, annual vegetation, including cheatgrass. However, drone and ground imagery from 2024 indicates that the tank battery footprint is no longer weedy and now matches the reference area (see Figures 11 and 17).

The drone images confirm that no equipment remains on site following reclamation activities. The imagery shows no disturbances or stunted vegetation growth resulting from the well, access roads, or tank battery.

### Drone information:

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

Location Overview:

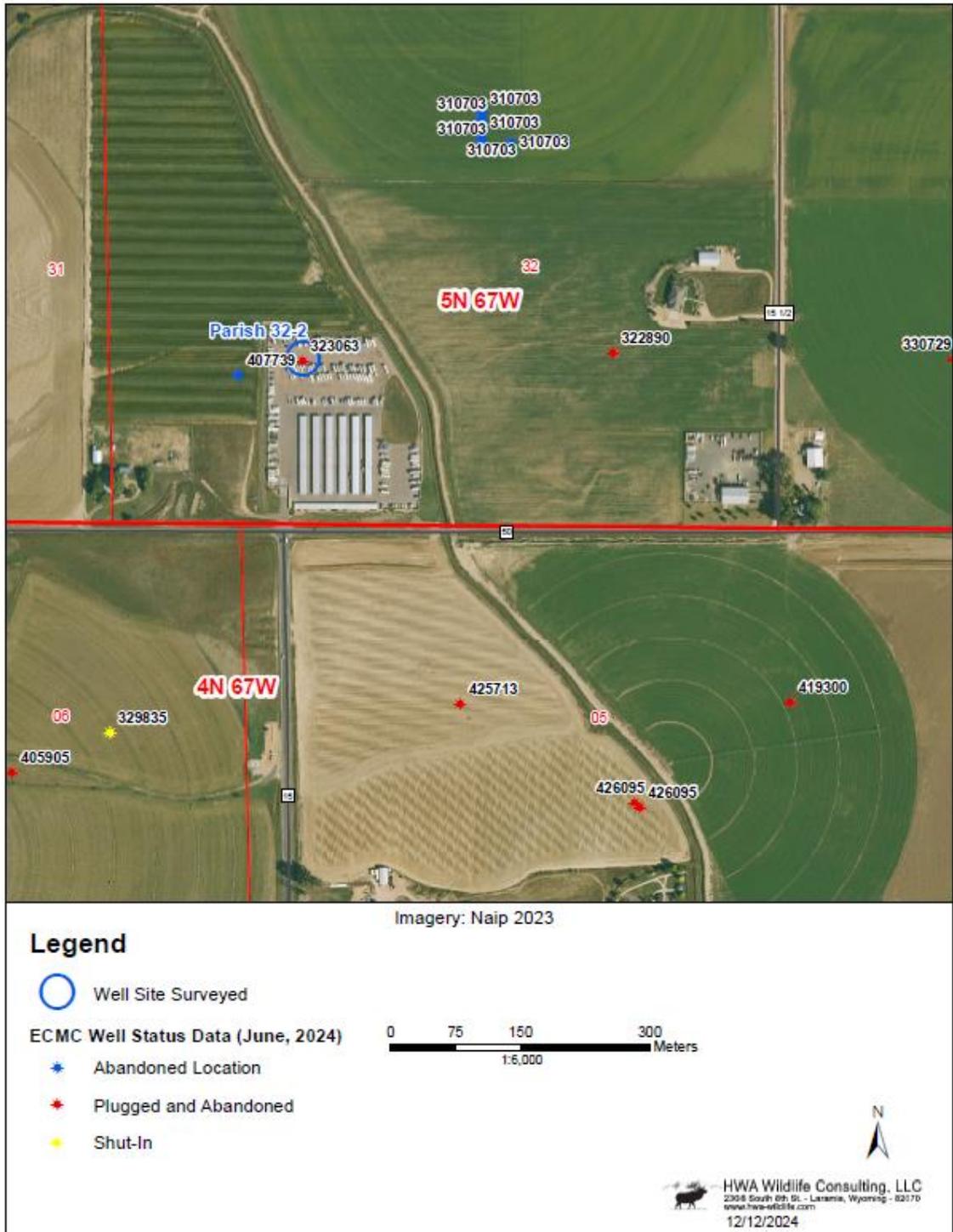


Figure 1. Overview of the reclaimed well site surveyed during 2024.

**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:**

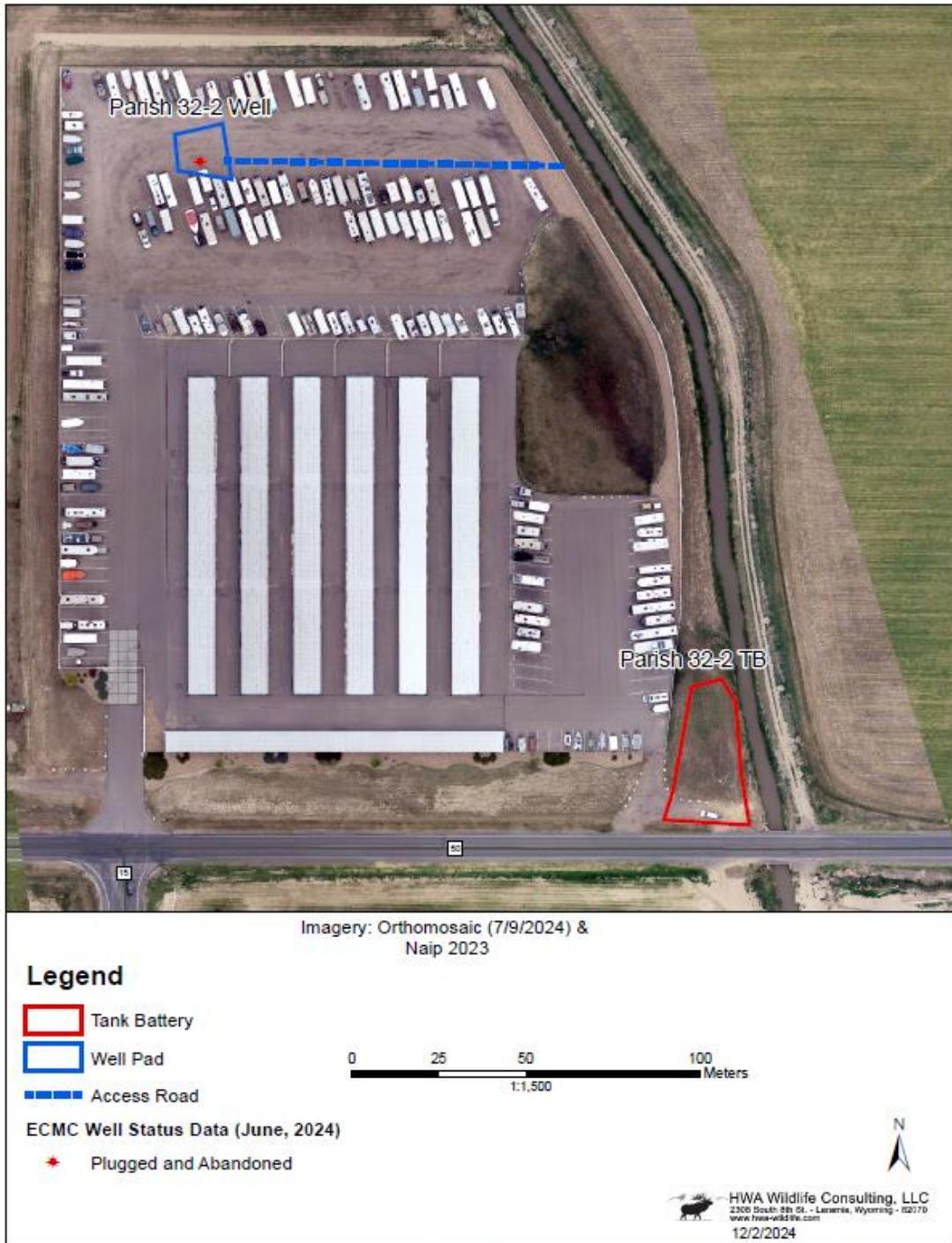


Figure 3. Post-plugging overview of the reclaimed well site and the associated access road, tank battery, and flowline.

**Cardinal Directional Drone Photos and Reference Area Photos (7/9/2024):**



*Figure 4: Looking North towards well, 100 feet in height, Lat/Long: 40.350057/-104.92313.*

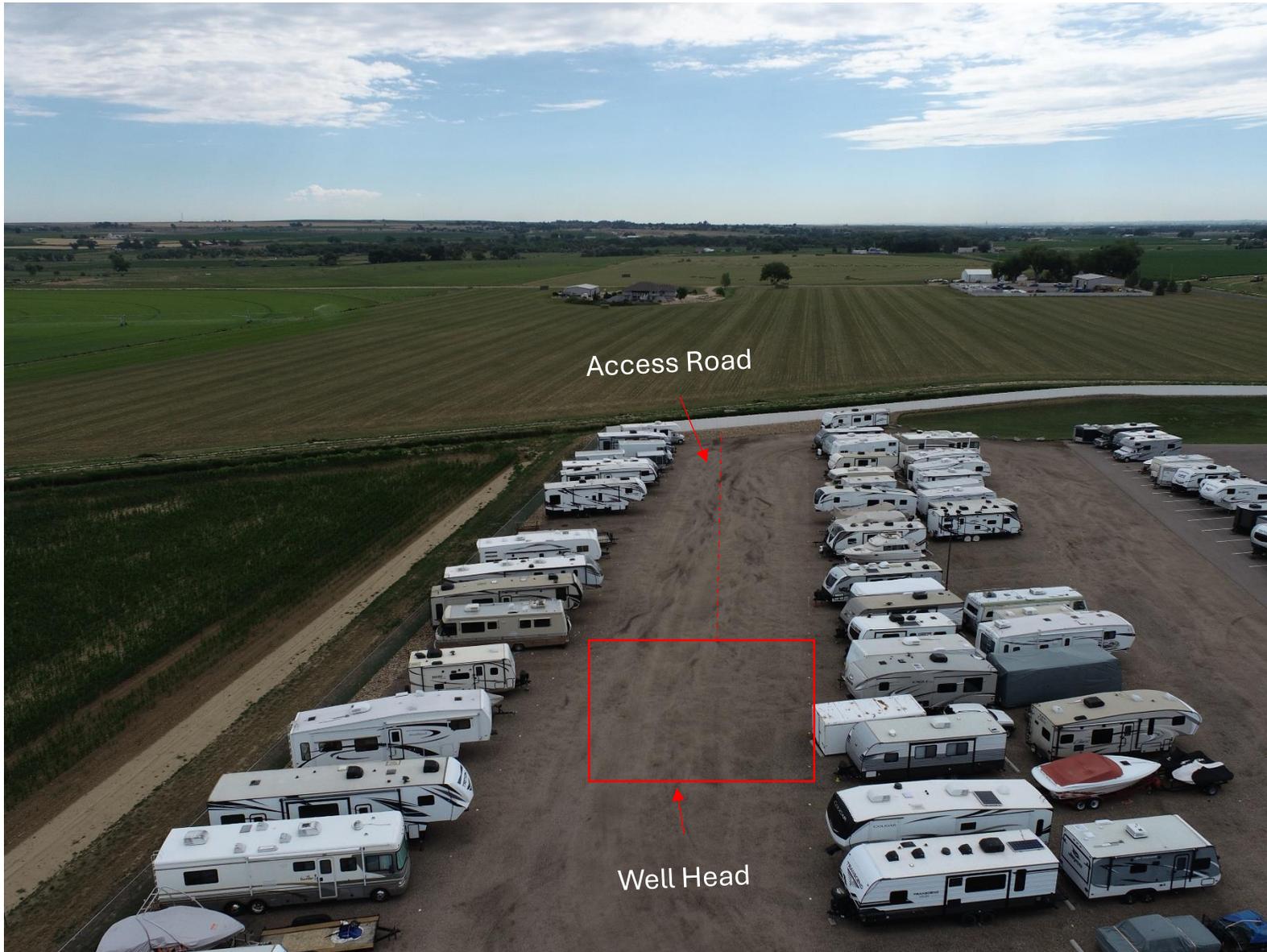


Figure 5: Looking East towards well and access road, 100 feet in height, Lat/Long: 40.35084/-104.924243.



Figure 6: Looking West towards well, 100 feet in height, Lat/Long: 40.350942/-104.922299.



Figure 7: Looking South towards well, 100 feet in height, Lat/Long: 40.35153/-104.923522.



Figure 8: Looking North towards TB, 100 feet in height, Lat/Long: 40.348682/-104.92185.



Figure 9: Looking East towards TB, 100 feet in height, Lat/Long: 40.349271/-104.922566.



Figure 10: Looking West towards TB, 100 feet in height, Lat/Long: 40.3493000/-104.921158.



Figure 11: Looking South towards TB and reference area, 100 feet in height, Lat/Long: 40.349989/-104.921976.



Figure 12: Looking Northwest towards flowline, 100 feet in height, Lat/Long: 40.348807/-104.921533.

**Ground Photos (7/09/2024):**



*Figure 13: South edge of TB, looking North.*



*Figure 14: West edge of TB, looking East.*



*Figure 15: East edge of TB, looking West.*



*Figure 16: North edge of TB, looking South.*



*Figure 17: Center of TB, looking North.*



*Figure 18: Center of TB, looking East.*



*Figure 19: Center of TB, looking South.*



*Figure 20: Center of TB, looking West.*