

# Location Checklist



<b>Operator / #</b>	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
<b>Location ID &amp; Name</b>	<a href="#">306439</a> REGNIER FARMS-62N68W/19NWNE		
<b>County</b>	Weld, CO		
<b>Well Information</b>	Well Name:	REGNIER FARMS #31-19	
	Well API #:	<a href="#">05-123-24655</a>	
	Lat/Long as Drilled:	40.129260 / -105.044480	
	Plug Date & Form 6s Doc #:	05/02/2019 & <a href="#">402057348</a>	
<b>Facility Entities</b>	X	Tank Battery (Off-Site)	Pits
	X	Wells	X On-Location Flowlines (Form 42) Doc #: <a href="#">401967001</a>
		Domestic Taps	X Off-Location Flowlines (Form 44) Doc #: <a href="#">402138444</a>
<b>Equipment On-Site</b>	X	None	Debris
		Pit mouse/rat holes, cellars backfilled	
<b>Access Road</b>	X	Regraded	X Contoured
		Culverts 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>Remediation (Form 27/27A)</b>	X	No	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 – Resolved 2019
<b>Sundry Notice</b>	Form 4 Doc # & Date:	<a href="#">400844193</a> & 05/27/2015	
	Purpose:	DIGITAL WELL LOG UPLOAD	
	Comments:	None	
	Attachments:	Gyro Survey Doc # <a href="#">400844194</a>	
<b>Drone Information</b>	Make & Model	DJI M300/DJI Mavic 3 Multispectral	
	Image Processing Software	Pix4dfields – RGB/Multispectral Imagery & Pix4dmatic – RGB Imagery	
	Pilot Name & FAA Certificate #	Sam Streeter, #4100157	
	Date of FAA Certificate Issuance	23 Dec 2023	

# SITE-SPECIFIC QUALITY ASSURANCE & QUALITY CONTROL AUDIT



## Final Reclamation Complete Notice – Cropland Drone Imagery

### PERMIT CLOSURE REPORT – CROPLAND

**Location ID** 306439

**Location Name** REGNIER FARMS-62N68W/19NWNE

### Report Date

25 Oct 2024

Soil Sage has conducted a thorough data audit as part of our Quality Assurance and Quality Control (QA/QC) protocols. 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 2024 – Alfalfa

### Quality Assurance & Quality Control Audit

<b>Auditor</b>	Soil Sage
<b>Audit Date</b>	25 Mar 2024

### Audit Methodology

The following source materials were consulted during the QA and QC audit process:

- ✓ Site Permit Closures provided by CIVITAS Resources
- ✓ Colorado Oil & Gas Information System – COGIS Database
- ✓ On-site Evaluation and Proprietary Soil Sage Drone Imagery data collection
- ✓ Review of legacy imagery for site location and facility parameters

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

## Site Description

<b>Name</b>	REGNIER FARMS-62N68W/19NWN		
<b>Location ID</b>	<a href="#">306439</a>		
<b>Operator / #</b>	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
<b>Field</b>	WATTENBERG / 90750		
<b>County, State</b>	Weld, CO		
<b>Lat/Long</b>	40.129260 / -105.044480		
	Planned Location	<input checked="" type="checkbox"/>	As Drilled
<b>Facility Status</b>	CL	<b>Location</b>	NWNE 19 2N68W
<b>Facility Status Date</b>	05/02/2019		
<b>Facility Entities</b>	<input checked="" type="checkbox"/> Tank Battery (Off-Site)		Pits
	<input checked="" type="checkbox"/> Wells	<input checked="" type="checkbox"/>	Off-Location Flowlines ( <b>Form 44</b> )
	Domestic Taps	<input checked="" type="checkbox"/>	On-Location Flowlines ( <b>Form 42</b> )
	Electric Utilities		
<b>Equipment on Site</b>	<input checked="" type="checkbox"/> No		Yes
	If yes, list:		
	Pit mouse/rat holes, cellars backfilled		
<b>Access Road</b>	<input checked="" type="checkbox"/> Regraded	<input checked="" type="checkbox"/>	Contoured
	Culverts Removed	<input checked="" type="checkbox"/>	Gravel Removed
	Pre-Existing: must provide supporting documentation		
<b>Environment Incidents &amp; Remediation</b>	<input checked="" type="checkbox"/> None		Spill or Release ( <b>Form 19</b> )
	Remediation ( <b>Form 27/27A</b> )		
<b>Variance Requests</b>	No Variance Requests were detected during this QA & QC Audit.		
<b>Inspection Corrective Actions (CA)s</b>	<p><b>Corrective Actions (CA)s were detected during the QA &amp; QC Audit.</b></p> <p><b>CA Overall Status:</b> Overall Good</p> <p><b>CA-Approving Inspection Doc # &amp; Date:</b> <a href="#">685100650</a> &amp; 03/19/2019</p> <ul style="list-style-type: none"> <li><b>Inspector:</b> Justin Medina</li> </ul> <p><b>Originating Field Inspection Report (FIR) Doc # &amp; Date:</b></p> <p><a href="#">674200416</a> &amp; 01/25/2018</p> <ul style="list-style-type: none"> <li><b>Corrective Action:</b> Weeds around wellhead. Comply with Rule 603.f .</li> </ul> <p><b>Date Completed:</b> 01/29/2018</p>		
	Complete ECMC Inspection Search Results: <a href="#">Link</a>		

<b>Sundry Notice (Form 4)</b>	<b>Form 4s were detected during the QA &amp; QC Audit.</b> See individual scout card data for details.
<b>On Location Flowlines (Form 42)</b>	<b>Form 42s were detected during the QA &amp; QC Audit.</b> See individual scout card data for details.
<b>Off-Location Flowlines (Form 44)</b>	<p><b>Form 44 Doc # &amp; Date:</b> <a href="#">402138444</a> &amp; 08/13/2019</p> <ul style="list-style-type: none"> <li>○ <b>Purpose:</b> Abandonment</li> <li>○ <b>Abandonment Date:</b> 06/20/2019</li> <li>○ <b>ECMC Approval Date &amp; Signee:</b> 08/13/2019 by Jeff Robbins</li> <li>○ <b>Operator Comments:</b> Flowline Facility ID: <a href="#">463615</a> Operator Flowline ID: 328201904 Regnier Farms 31-19 Flowline Abandonment. Flowline Facility ID: <a href="#">463616</a> Operator Flowline ID: 328201905 Regnier Farms 32-19 Flowline Abandonment. Flowline Facility ID: <a href="#">463617</a> Operator Flowline ID: 328201906 Regnier Farms 42-19 Flowline Abandonment.</li> <li>○ <b>Notes:</b> This Form 44 includes data for three Off-Location Flowlines: <a href="#">463615</a>, <a href="#">463616</a>, and <a href="#">463617</a>. This Location is connected to <a href="#">463615</a> below.</li> </ul> <p><b>Flowline Facility Information</b></p> <ul style="list-style-type: none"> <li>○ <b>ECMC Flowline ID:</b> <a href="#">463615</a></li> <li>○ <b>Operator Flowline ID:</b> 328201904</li> <li>○ <b>Status &amp; Date:</b> AC &amp; 08/13/2019</li> <li>○ <b>Flowline Type:</b> Wellhead Line</li> <li>○ <b>Type of Fluids Transported:</b> Multiphase</li> <li>○ <b>Start Point Location ID:</b> <a href="#">306439</a></li> <li>○ <b>Start Point Riser Lat/Long:</b> 40.129252 / -105.044468 (REGNIER FARMS #31-19 Well)</li> <li>○ <b>Equipment at Start Point:</b> Well</li> <li>○ <b>End Point Location ID:</b> <a href="#">319613</a></li> <li>○ <b>End Point Riser Lat/Long:</b> 40.128453 / -105.040234 (Production Facilities)</li> <li>○ <b>Equipment at End Point Riser:</b> Separator</li> </ul>
<b>Field Inspection Form (Form INSP)</b>	<p><b>Form INSP Doc # &amp; Date:</b> <a href="#">685100650</a> &amp; 03/19/2019</p> <ul style="list-style-type: none"> <li>○ <b>Status Summary:</b> THIS IS A FOLLOW UP INSPECTION</li> <li>○ <b>Inspected Facilities:</b> REGNIER FARMS 31-19 Well</li> <li>○ <b>Inspection Status:</b> SI</li> <li>○ <b>Inspection Date &amp; Inspector:</b> 03/18/2019 by Justin Medina</li> </ul>



	<ul style="list-style-type: none"> <li>○ <b>Comments:</b> Red Fencing around wellhead. Well appears to be shut in. Appears to be prepped for P&amp;A. Arrived on location at approx. 1230. Location appears to be in compliance with COGCC rules. CA from previous inspecting from inspection # <a href="#">674200416</a> appears to be corrected.</li> <li>○ <b>Attachments:</b> Inspection Photos Doc # <a href="#">685100651</a></li> </ul> <p><b>Form INSP Doc # &amp; Date:</b> <a href="#">674200416</a> &amp; 01/25/2018</p> <ul style="list-style-type: none"> <li>○ <b>Status Summary:</b> None Checked</li> <li>○ <b>Inspected Facilities:</b> REGNIER FARMS 31-19 Well</li> <li>○ <b>Inspection Status:</b> PR</li> <li>○ <b>Inspection Date &amp; Inspector:</b> 01/17/2018 by Jason Gomez</li> <li>○ <b>Comments:</b> Weeds around wellhead. AG panel. Centralized Battery <a href="#">05-123-11570</a>. Plumbed to surface.</li> <li>○ <b>Attachments:</b> Inspection Photos Doc # <a href="#">674200417</a></li> </ul>
<b>COGIS Tank Facilities Information (Scout Card)</b>	<p><b>No Tank Battery documents were detected during this QA/QC Audit.</b> However, the Tank Battery is referenced in Field Inspection Doc # <a href="#">674200416</a> and is at Location ID <a href="#">319613</a>. The Production Facilities at Location ID <a href="#">319613</a> are shared with wells at three other Location IDs, <a href="#">305839</a>, <a href="#">332133</a> and <a href="#">319613</a>.</p>
<b>COGIS Well Information (Scout Card)</b>	<p><b>Well Name:</b> REGNIER FARMS #31-19</p> <p><b>API#:</b> <a href="#">05-123-24655</a></p> <p><b>FACILITY ID:</b> 288768</p> <ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> PA &amp; 05/02/2019</li> <li>○ <b>Lat/Long as Drilled:</b> 40.129260 / -105.044480</li> <li>○ <b>Form 6 Doc # &amp; Date:</b> <a href="#">402057348</a> &amp; 09/10/2019</li> <li>○ <b>Form 42 Doc # &amp; Date:</b> <a href="#">401967001</a> &amp; 03/11/2019</li> </ul> <p><b>Purpose:</b> START OF PLUGGING OPERATIONS - 48-hour notice required. Date: 03/13/2019.</p> <ul style="list-style-type: none"> <li>○ <b>Form 4 Doc # &amp; Date:</b> <a href="#">400844193</a> &amp; 05/27/2015</li> </ul> <p><b>Purpose:</b> DIGITAL WELL LOG UPLOAD</p> <p><b>Attachments:</b> Gyro Survey Doc # <a href="#">400844194</a></p>

ECMC Abbreviations: [Location & Facility Status Codes](#), [Inspection Types & Statuses](#) and [ECMC Help](#).

## Audit Key Findings – Designation Land Use Observations

PREVIOUS LAND USE	CURRENT LAND USE
<b>Reference Imagery for Infrastructure:</b> Maxar 2007	<b>Remotely Sensed Imagery:</b> 26 Jun 2024; 23 Sep 2024
<b>Designation:</b> Oil & Gas Facility	<b>Designation:</b> Cropland

### The following imagery sources were reviewed during this audit:

EarthExplorer, DRCOG 2002 - 2014, NAIP Imagery 2011, 2013, 2015, 2017, 2019, 2021, ESRI Maxar and Remotely Sensed Imagery Sep 2022

## Site Observation Notes

No additional information.

In accordance with ECMC guidance, this cropland evaluation has demonstrated that this location has been returned to its original condition and crops are reflective of the cropland reference areas.

## Closure Information

Location ID [306439](#) REGNIER FARMS-62N68W/19NWNE is in Weld County, Colorado near the intersection of County Road 20 ½ and East County Line Road. There is one plugged and abandoned well (Regnier Farms #31-19 API # [05-123-24655](#)). There is an Off-Location Flowline between this well and the production facility at Location ID [319613](#).

There was a Corrective Action at this location on January 17<sup>th</sup>, 2018, due to weeds growing around the wellhead, comply with Rule 603.f. This was resolved on January 29<sup>th</sup>, 2018, and an ECMC inspection approved the CA in March 2019.

Regnier Farms #31-19 well (API # [05-123-24655](#)) was plugged and abandoned on May 2<sup>nd</sup>, 2019. The access road was reclaimed at this time. The related production facility, Location ID [319613](#), was closed and reclaimed in 2019.

Soil Sage 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	2.63
Access Road	Included
Flowline	Not Included
Tank Battery	Off-Site (Loc ID <a href="#">319613</a> )
Well Pad	2.63

## Drone Information

Make	DJI
Model	M300/Mavic 3 Multispectral
Image Processing Software	Pix4dfields – RGB/Multispectral Imagery & Pix4dmatic – RGB Imagery
Pilot Name	Sam Streeter
Pilot FAA Certificate Number	4100157
Date of FAA Certificate Issuance	23 Dec 2023



**CIV - 306439- REGNIER FARMS 31-19**  
**Map Extent - Pre-Plugging Overview**

Imagery: Maxar  
Imagery Date: 2 Apr 2007  
Map Date: 09 Oct 2024  
Datum: WGS 1984 UTM Zone 13N  
POC: Soil Sage

- ◆ Wells
- Flowline
- Historic Disturbance Extent
- Tank Battery
- Separator
- Farm Road

0 30 60 120 Meters

Total Disturbance:  
2.63 Acres  
Scale: 1:2,000

Pad Location:  
40.129260  
-105.044480



Service Credits - Maxar, Microsoft







## CIV - 306439- REGNIER FARMS 31-19 Map Extent - Post-Plugging Overview

Imagery: RS Orthomosaic  
 Imagery Date: 23 September 2024  
 Map Date: 09 Oct 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage



Total Disturbance:  
 2.63 Acres  
 Scale: 1:2,000

Pad Location:  
 40.129260  
 -105.044480



Service Credits - Maxar, Microsoft





## Cardinal Directional Drone Photos & Reference Area Photos

### *Site Investigation and Photos Date*

23 Sep 2024

### *Drone Photo Height*

100 feet

Cardinal directional photos of the site. Reference overview map.



**In View** – Well, Access Road, Flowline

**NORTH** – 40.128798 / -105.044509

\*Active Location ID [451044](#) in background not associated with Location ID [306439](#)





**In View – Well, Tank Battery, Access Road, Flowline**

**NORTHEAST – 40.127309 / -105.045568**



**In View – Well, Access Road, Flowline**

**EAST – 40.129372 / -105.044920**





**In View** – Well, Tank Battery, Access Road, Flowline

**EAST** – 40.129238 / -105.044921



**In View** – Well, Access Road, Flowline

**SOUTH** – 40.129738 / -105.044412

\*Active Location ID [451039](#) in background not associated with Location ID [306439](#)





**In View** – Well, Tank Battery, Access Road, Flowline

**SOUTHWEST** – 40.130520 / -105.040206

\*Active Location ID [451039](#) in background not associated with Location ID [306439](#)



**In View** – Well, Access Road, Flowline

**WEST** – 40.129357 / -105.043935

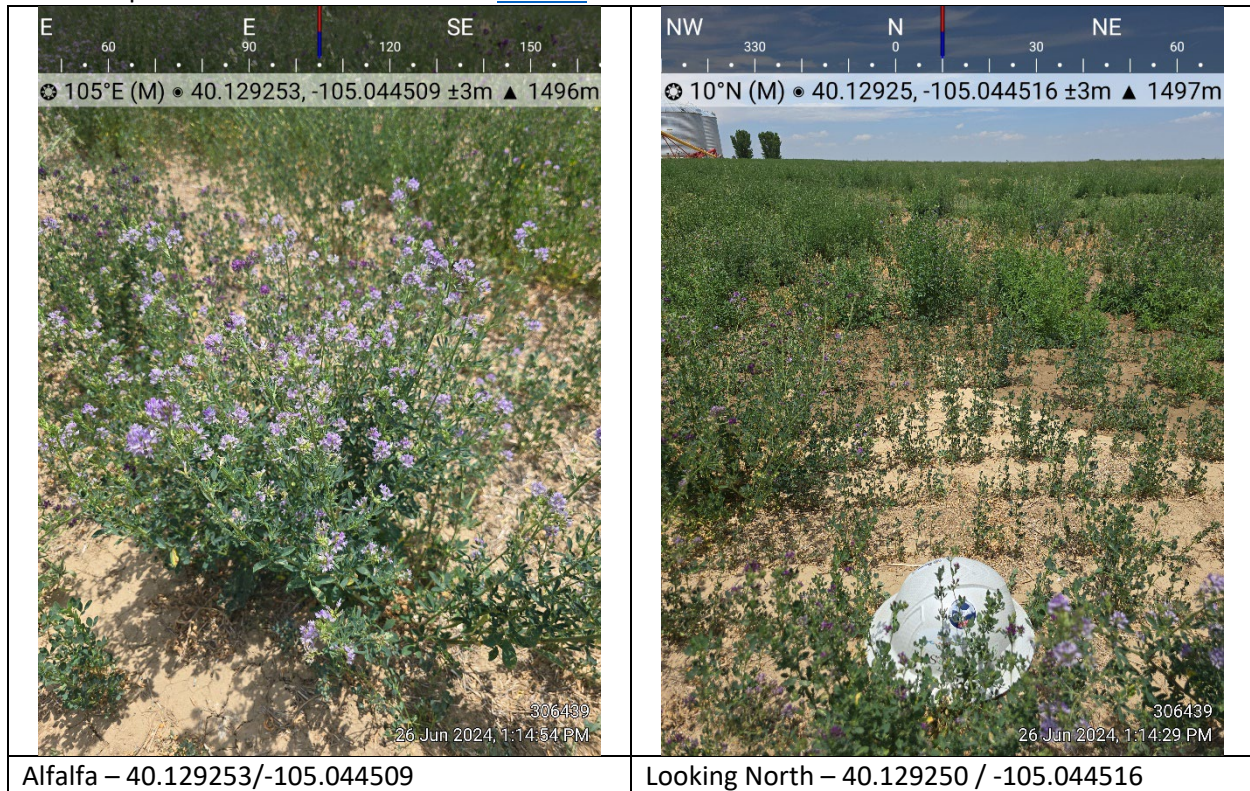


## Well – Handheld Photographic Evidence

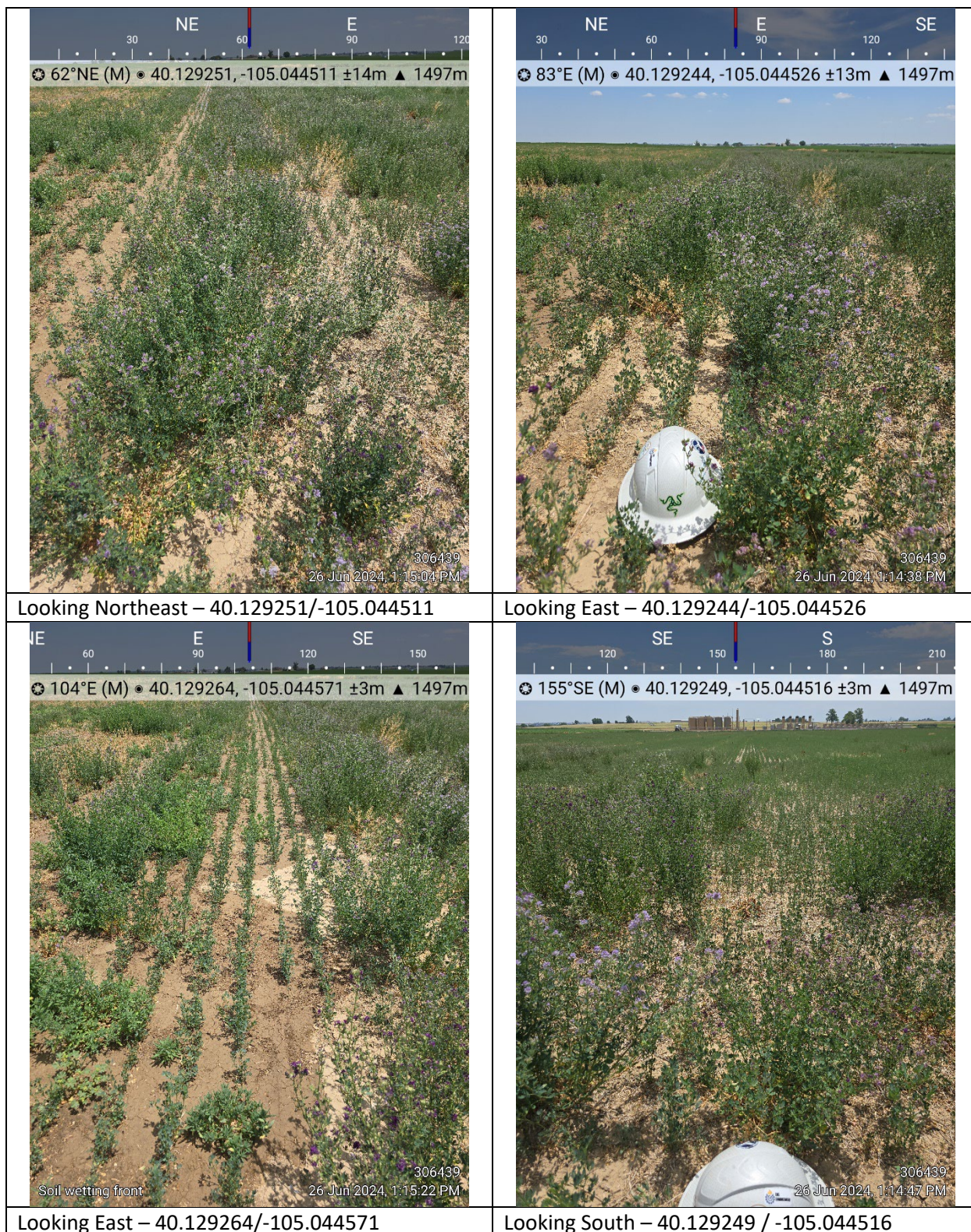
### *Site Investigation and Photos Date*

26 Jun 2024

Handheld photos taken from Location ID [306439](#) wellhead.









	
Looking Southwest – 40.129246/-105.044522	

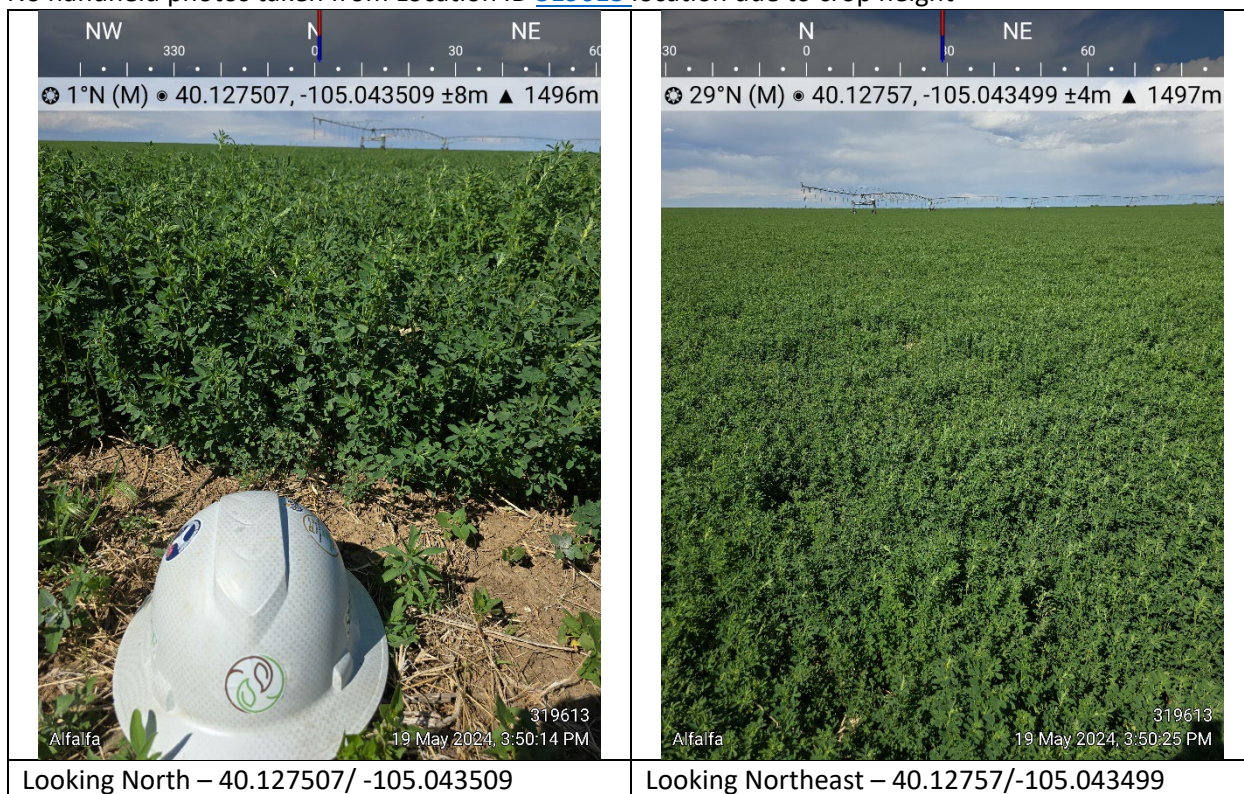
## Off-Location Tank Battery Within Cropland – Handheld Photographic Evidence

### *Site Investigation and Photos Date*

19 May 2024

Handheld photos taken from the access road to the west of Production Facility Location ID [319613](#).

No handheld photos taken from Location ID [319613](#) location due to crop height





*Cardinal Directional Drone Photos Showing No Equipment Remaining*

Site Investigation and Photos Date

26 Jun 2024

Drone Photo Height

110 feet

Cardinal directional photos of the site. Reference overview map.



**In View** – Well, Access Road, Flowline

**NORTH** – 40.128859 / -105.044438

\*Active Location ID [451044](#) in background not associated with Location ID [306439](#)





**In View** – Well, Tank Battery, Access Road, Flowline

**EAST** – 40.129323 / -105.045022



**In View** – Well, Access Road, Flowline

**SOUTH** – 40.129693 / -105.044481

\*Active Location ID [451039](#) in background not associated with Location ID [306439](#)





**In View** – Well, Access Road, Flowline

**WEST** – 40.129297 / -105.043940



# ATTACHMENTS

## Maps and Figures

### *Area Maps*

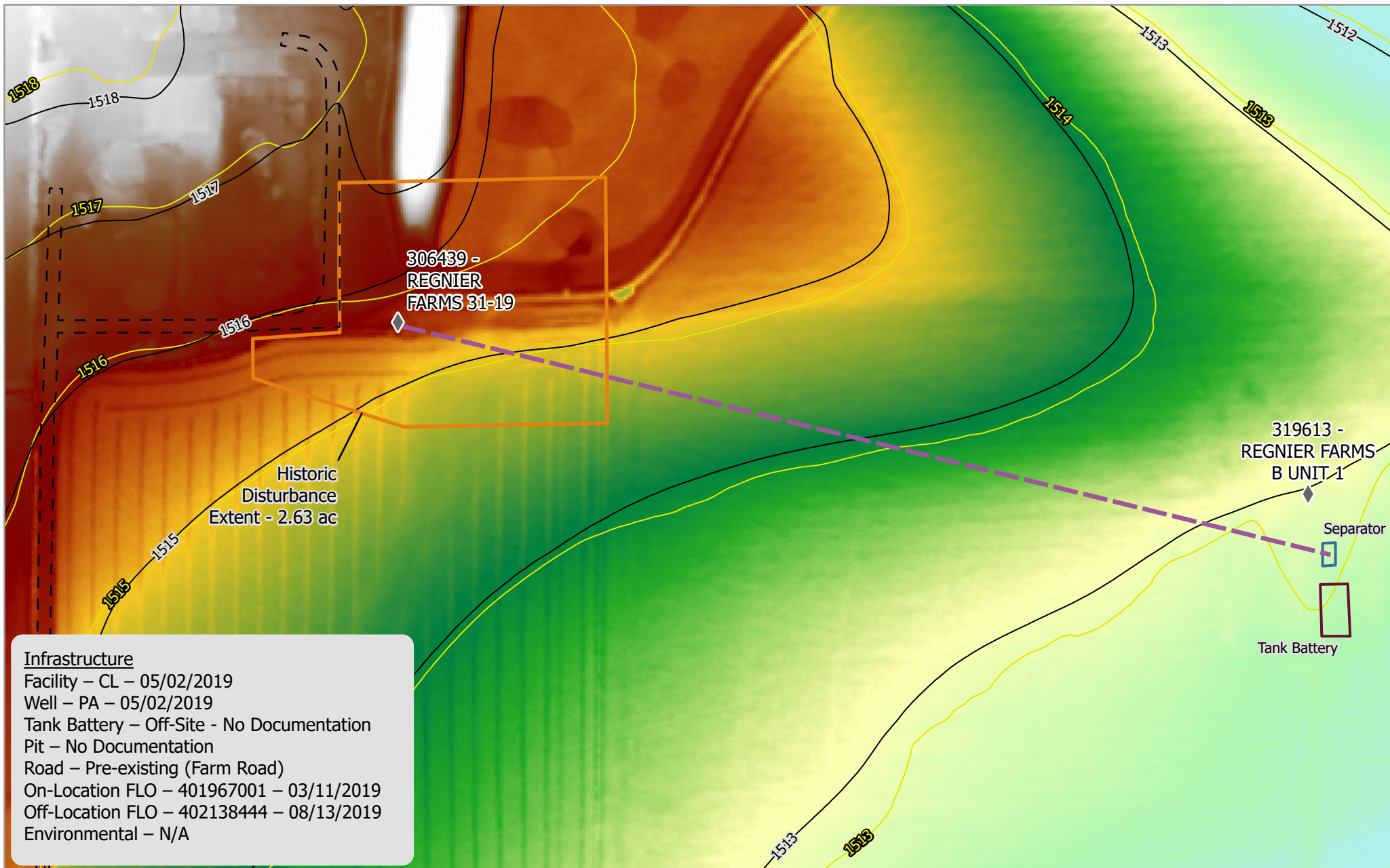
Elevation & Contours

Hydrology

## Background Information

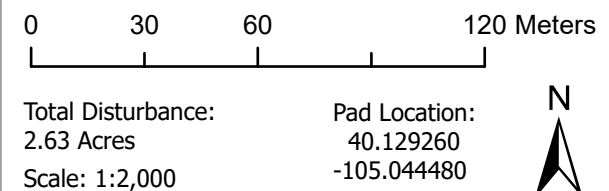
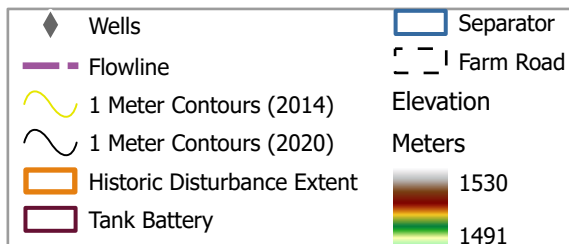
### *Natural Resources Conservation Service (NRCS) Map Unit Description*

Reference Soil Document



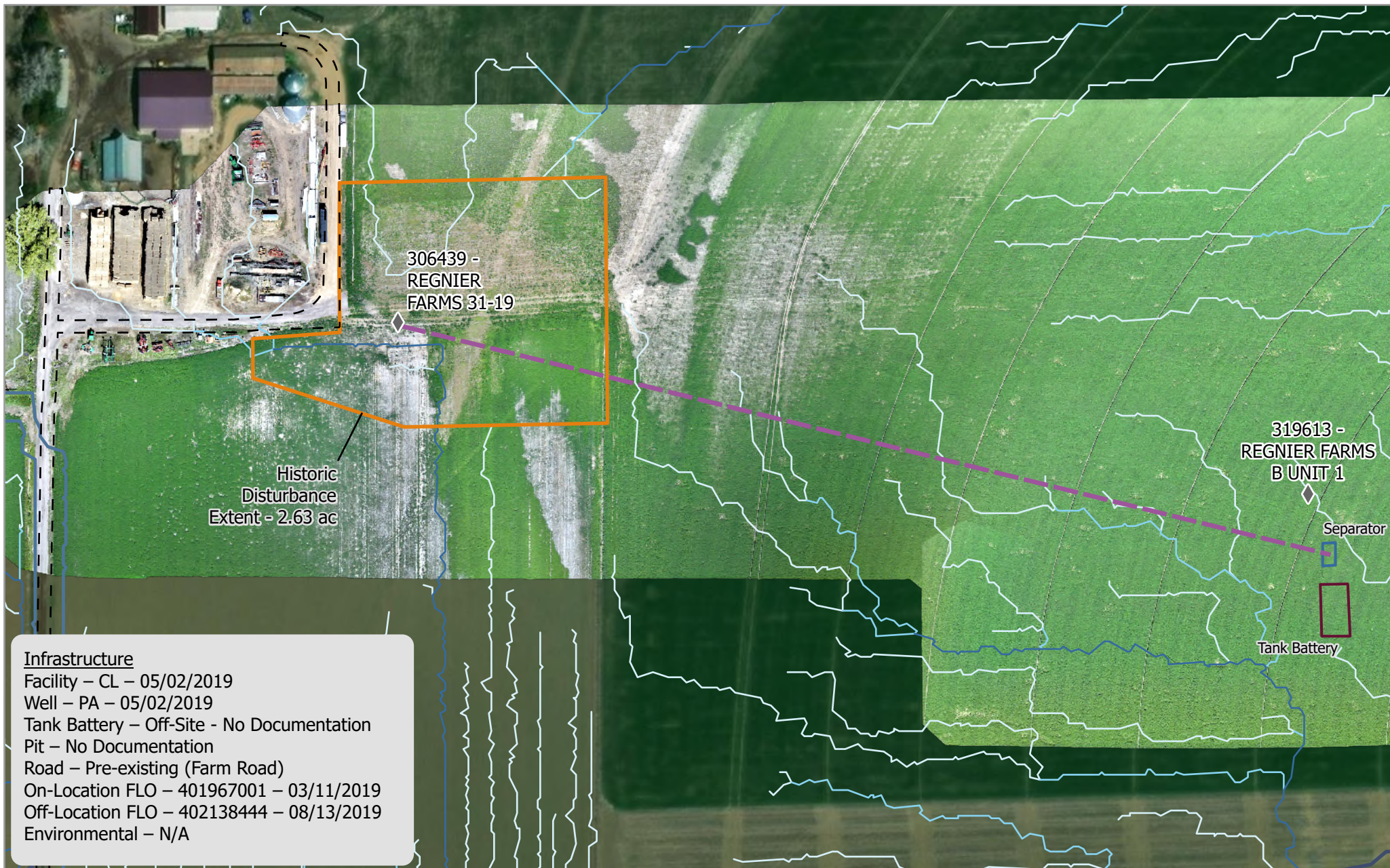
# **CIV - 306439- REGNIER FARMS 31-19** **Map Extent - Elevation & Contours**

Imagery: DRCOG, USGS  
 Imagery Date: 2020, 2014  
 Map Date: 09 Oct 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage



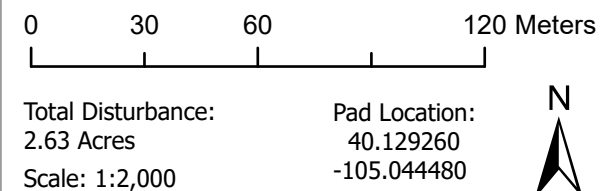
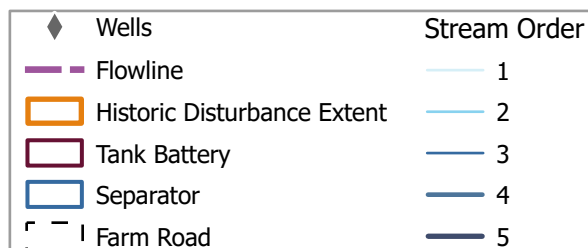
Service Credits - Maxar, Microsoft





# **CIV - 306439- REGNIER FARMS 31-19** **Map Extent - Hydrology**

Imagery: DRCOG DEM, RS Orthomosaic  
 Imagery Date: 2020, 2024  
 Map Date: 09 Oct 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage





# Soil Properties

## USDA Soil Description

### Reference Soil Information

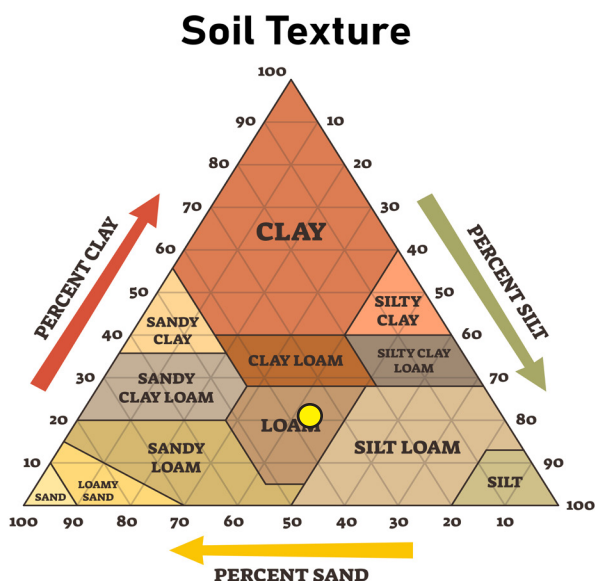
The location of the site is contained within one soil type, Colby Loam.

### Map Unit 15 Reference Soil information - Colby loam

This soil is formed from calcareous eolian deposits. Ecological Site Description is Loamy Plains. Soils are well-drained with a high water holding capacity, and slope 1 to 3 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Particle Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-7	Loam	1.33	37-42-21	7.9	0.0	0.0	1.25
7-60	Silt Loam	1.23	10-68-23	7.9	0.0	0.0	0.75

### Soil Texture Triangle reflect the 0-10 in depth



### Erosion Potential (10 inches)

- K Factor, Whole soil - .49. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.
- Wind Erodibility Group – 6. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.

## Soil Reference Information

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There is a general relationship of soil bulk density to root growth based on soil texture. Bulk densities ideal for root growth are less than 1.60 g/cc for sandy textures, less than 1.40 g/cc for loamy textures, and less than 1.10 g/cc for clayey textures. Bulk densities that restrict root growth are greater than 1.80 g/cc for sandy textures, 1.65 g/cc for loamy textures, and 1.47 g/cc for clayey textures.

# Vegetation

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## Reference vegetation – Loamy Plains Ecology

### Climate

Average Annual Precipitation 14 to 17 inches annually

Average Annual Air Temperature 50 degrees F

Drought conditions in effect

Long-term effects of these latest drought events have yet to be determined. Growth of native cool-season plants begin about April 1 and continue to mid-June. Native warm-season plants begin growth about May 1 and continue to about August 15. Regrowth of cool-season plants occur in September in most years, depending on moisture.

### Reference dynamics

The Reference State is characterized by co-dominant warm-season shortgrass (blue grama), and cool-season midgrass (western wheatgrass, green needlegrass). The Warm-Season Shortgrass State is characterized by a warm-season short bunchgrass (blue grama) and stoloniferous grass (buffalograss). The Increased Bare Ground State is characterized by early successional warm-season bunchgrass (Fendler threeawn), cool-season short bunchgrass (squirreltail), annual grasses, and annual forbs.

Drought has increased mortality of blue grama and buffalo grasses in some locations

The major grasses in the Reference Plant Community include western wheatgrass, green needlegrass, and blue grama. Western wheatgrass is a major cool-season grass in this plant community and is a valuable forage plant in late spring and/or early summer. Sub-dominant grasses include needle and thread, buffalograss, and sand dropseed. Major forbs include American vetch, upright prairie coneflower, scarlet globemallow, and dotted blazingstar (dotted gayfeather). A minor amount of shrubs such as fourwing saltbush and winterfat may also occur.

Well suited for carbon sequestration

# Vegetation

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## Reference Vegetation – Loamy Plains Ecology

### At Risk Plant Community

Key species from the Reference Plant Community, such as green needlegrass, western wheatgrass, American vetch, fourwing saltbush, and winterfat have been reduced in production. Blue grama and buffalograss have increased in abundance, are beginning to dominate the community, and will begin to exhibit a sod-bound appearance. Sand dropseed, red threeawn, sixweeks fescue, plains pricklypear, hairy false goldenaster, and bottlebrush squirreltail also have increased. This plant community is at risk of losing the cool-season grasses, key forbs such as American vetch and purple prairie clover, and key shrubs.

Total aboveground biomass has been reduced. Reduction of rhizomatous wheatgrass, nitrogen-fixing forbs, and the shrub component, and increased warm-season shortgrasses have begun to alter the biotic integrity of this community. Water and nutrient cycles may be impaired.

## Loamy Plains Ecosystem Vegetative Community Composition

Common Name	Scientific Name
Western Wheatgrass	<i>Pascopyrum smithii</i>
Green Needlegrass	<i>Nassella viridula</i>
Indian Ricegrass	<i>Achnatherum hymenoides</i>
Needle and Thread	<i>Hesperostipa comata</i>
Blue Grama	<i>Bouteloua gracilis</i>
Buffalograss	<i>Bouteloua dactyloides</i>
Sand Dropseed	<i>Sporobolus cryptandrus</i>
Sideoats Grama	<i>Bouteloua curtipendula</i>
Little Bluestem	<i>Schizachyrium scoparium</i>
Little Barley	<i>Hordeum pusillum</i>
Sixweeks Fescue	<i>Vulpia octoflora</i>
American Vetch	<i>Vicia americana</i>
Purple Prairie Clover	<i>Dalea purpurea</i> var. <i>purpurea</i>
White Locoweed	<i>Oxytropis sericea</i>
Slimflower Scurfpea	<i>Psoralidium tenuiflorum</i>
Scarlet Globemallow	<i>Sphaeralcea coccinea</i>
Broadbeard Beardtongue	<i>Penstemon angustifolius</i>
Lacy Tansyaster	<i>Machaeranthera pinnatifida</i> ssp. <i>pinnatifida</i> var. <i>pinnatifida</i>
Dotted Blazing Star	<i>Liatris punctata</i>
Upright Prairie Coneflower	<i>Rativida columnifera</i>
Rush Skeletonplant	<i>Lygodesmia juncea</i>