

# SITE-SPECIFIC QUALITY ASSURANCE & QUALITY CONTROL AUDIT



Permit Closure Type – Final

## PERMIT CLOSURE REPORT – DESIGNATION LAND USE CHANGE

Location ID: 320291

Location Name: BYDALEK-61S68W/11SESW

### Report Date

28 Feb 2024

Soil Sage has conducted a thorough data audit as part of our Quality Assurance and Quality Control (QA/QC) protocols. The audit revealed this site has gone through a land use change.

### Quality Assurance & Quality Control Audit

Auditor	Soil Sage
Audit Date	23 Feb 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
- ✓ Natural Resources Conservation Service (NRCS) Map Unit Description
- ✓ Hydrology Map

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

## Site Description

<b>Name</b>	BYDALEK-61S68W/11SESW		
<b>Location ID</b>	<a href="#">320291</a>		
<b>Operator / #</b>	EXTRACTION OIL & GAS INC / 10459		
<b>Field</b>	WATTENBERG / 90750		
<b>County, State</b>	ADAMS, CO		
<b>Lat/Long</b>	39.974100 / -104.973190		
	Planned Location	<b>X</b>	As Drilled
<b>Facility Status</b>	AC	<b>Location</b>	SESW 11 1S68W
<b>Facility Status Date</b>	05/26/2022	<b>Access Road</b>	Oil & Gas Access
<b>Facility Entities</b>	<b>X</b> Tank Battery	<b>X</b>	Pits
	<b>X</b> Wells	<b>X</b>	Off-Location Flowlines ( <b>Form 44</b> )
	Domestic Taps	<b>X</b>	On-Location Flowlines ( <b>Form 42</b> )
<b>Equipment Remaining on Site</b>	<b>X</b> None		Debris or Non-Oil & Gas
	List of Equipment:		
<b>Environment Incidents &amp; Remediation</b>	None	<b>X</b>	Spill or Release ( <b>Form 19</b> )
	<b>X</b> Remediation ( <b>Form 27/27A</b> )		
<b>Inspection Corrective Actions (CA)s</b>	No Corrective Actions (CA)s were detected during the QA & QC Audit.		
	Complete ECMC Inspection Search Results: <a href="#">Link</a>		
<b>Sundry Notice (Form 4)</b>	Form 4s were detected during the QA & QC Audit. See individual scout card data for details.		
<b>On Location Flowlines (Form 42)</b>	Form 42s were detected during the QA & QC Audit. See individual scout card data for details.		
<b>Off-Location Flowlines (Form 44)</b>	<p><b>Form 44 Doc # &amp; Date:</b> <a href="#">403003981</a> &amp; 05/26/2022</p> <ul style="list-style-type: none"> <li><b>Purpose:</b> Off-Location Flowline Abandonment Verification</li> <li><b>Abandonment Date:</b> 11/17/2021</li> <li><b>ECMC Approval Date &amp; Signee:</b> 05/26/2022 by Julie Murphy</li> <li><b>Operator Comments:</b> The flowline serving the Bydalek 2-11 well (<a href="#">05-001-08881</a>) was removed in its entirety. Approximately 105-ft of 3-in steel pipeline (buried +/- 4" deep) was removed. The excavation was backfilled, and the land surface was graded. The subject flowline was removed in its entirety. Details are as follows: 00108881FL - Previously serviced the Bydalek 2-11 well (<a href="#">05-001-08881</a>) - Updated</li> </ul>		

	<p>GIS SHAPEFILE is attached.</p> <p><b>Flowline Facility Information</b></p> <ul style="list-style-type: none"> <li>○ <b>ECMC Flowline ID:</b> <a href="#">466860</a></li> <li>○ <b>Operator Flowline ID:</b> 00108881FL</li> <li>○ <b>Status &amp; Date:</b> AC &amp; 05/26/2022</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="#">320291</a></li> <li>○ <b>Start Point Riser Lat/Long:</b> 39.974071 / -104.973173 (Bydalek 2-11 well)</li> <li>○ <b>Equipment at Start Point:</b> Well</li> <li>○ <b>End Point Location ID:</b> <a href="#">320291</a></li> <li>○ <b>End Point Riser Lat/Long:</b> 39.974277 / -104.973466 (Bydalek Production Facilities)</li> <li>○ <b>Equipment at End Point Riser:</b> Separator</li> </ul>
<p><b>Site Investigation and Remediation Workplan (Form 27/27A)</b></p>	<p><b>Remediation Project #:</b> <a href="#">20670</a></p> <p><b>Form 27A Supplemental Docs # &amp; Date:</b> <a href="#">402935287</a> &amp; 02/16/2022</p> <ul style="list-style-type: none"> <li>○ <b>Purpose:</b> Buried or partially buried vessel closure, which will be by removal, Remediation of Spill and Releases pursuant to Rule 912, Decommissioning of Oil and Gas Facilities, and wellhead, flowlines, and tank battery decommissioning at NFA request.</li> <li>○ <b>Lat/Long of Remediation:</b> 39.974336 / -104.973815</li> <li>○ <b>Closure Request Approved:</b> 02/16/2022 by Chris Canfield</li> <li>○ <b>Final Resolution:</b> <b>Case Resolved on 02/16/2022</b></li> <li>○ <b>Attachments:</b> Closure Documentation Doc #<a href="#">402936982</a> and OTHER Arsenic Concentrations Doc #<a href="#">402936847</a></li> </ul> <p><b>Form 27 Initial Doc# &amp; Date:</b> <a href="#">402833339</a> &amp; 11/05/2021</p> <ul style="list-style-type: none"> <li>○ <b>Purpose:</b> Buried or partially buried vessel closure, which will be by removal and decommissioning of Oil and Gas Facilities</li> <li>○ <b>Operator Comments:</b> This Form 27 (Site Investigation and Remediation Workplan) was prepared for the purpose of notifying the State of the closure of the production equipment associated with the location in accordance with COGCC Rule 911 and Rule 915. A Form 44 (Document #<a href="#">402837280</a>) has been submitted prior to starting flowline abandonment. Abandonment will occur per the requirements of Rule 1105. During flowline abandonment, any</li> </ul>

	<p>liquids evacuated from the flowline will be contained and disposed of per the requirements of Rule 905. Should soil or groundwater impacts be identified during removal of the produced-water vessel, or while decommissioning other related production equipment at this location, required notifications will be completed for each discovery, including preparation of a Form 19.</p>
<b>Spill or Release (Form 19)</b>	<p><b>Spill or Release FACILITY ID:</b> <a href="#">481168</a></p> <ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> CL &amp; 11/17/2021</li> <li>○ <b>Lat/Long of Spill/Release:</b> 39.974271 / -104.973489</li> </ul> <p><b>Form 19 Initial/Supplemental Doc # &amp; Date:</b> <a href="#">402873260</a> &amp; 11/29/2021</p> <ul style="list-style-type: none"> <li>○ <b>Date Closed:</b> 11/17/2021</li> <li>○ <b>Request for Closure:</b> Work proceeding under and approved Form 27</li> <li>○ <b>Remediation Project #:</b> <a href="#">20670</a></li> <li>○ <b>Date of Discovery:</b> 11/16/2021</li> <li>○ <b>Spill Type:</b> Historical Release</li> <li>○ <b>Reference Location Facility ID &amp; Type:</b> <a href="#">320291</a> TANK BATTERY Bydalek #2-11</li> <li>○ <b>Operator:</b> EXTRACTION OIL &amp; GAS INC</li> <li>○ <b>Operator Comments:</b> While removing flowline at the Bydalek #2-11 (Location ID: <a href="#">320291</a>), historical suspected soil impacts were observed at the separator end flowline riser. Vertical and horizontal definition is being pursued with conventional excavation, and clearance samples will be collected from the base and sidewalls of the excavation. In accordance with the approved Form 27 initial, and COGCC assigned remediation project number <a href="#">20670</a>, collected samples were field-screened and submitted for laboratory analysis. Please refer to the Form 27 submitted prior to excavation, COGCC Document #: <a href="#">402833339</a>, for further details.</li> <li>○ <b>Attachments:</b> Site Map Doc #<a href="#">402873789</a>, Photo Documentation Doc #<a href="#">402873790</a> and Topographic Map Doc #<a href="#">402873788</a>.</li> </ul>
<b>Field Inspection Form (Form INSP)</b>	<p><b>Form INSP Doc # &amp; Date:</b> <a href="#">690100019</a> &amp; 11/19/2021</p> <ul style="list-style-type: none"> <li>○ <b>Status Summary:</b> None Checked</li> <li>○ <b>Inspected Facilities:</b> Bydalek 2-11 well</li> <li>○ <b>Inspection Status:</b> EG</li> <li>○ <b>Inspection Date &amp; Inspector:</b> 11/18/2021 by Joe Maclaren</li> <li>○ <b>Comments:</b> COGCC Inspector met with EOG contract personnel</li> </ul>

	<p>(Moon) on location. Well (Bydalek 2- 11) has been plugged and abandoned; cut and cap work is completed. COGCC form 42 notice of start of plugging operations doc #<a href="#">402838917</a> received 10/12/2021. All on location flowlines (wellhead, dump, process) have been removed; No flowline risers were observed at the (PA) wellhead or facility areas during this field inspection. The facility/ battery has been decommissioned; associated tanks and equipment removed. Excavation/ remediation work in response to the historical release is in progress. Note: Out of service gas gathering riser (XTR Midstream) on location.</p> <ul style="list-style-type: none"> <li>○ <b>Attachments:</b> Inspection Photos of Signage Doc #<a href="#">690100020</a> and Inspection Photos of excavation at separator area and OOS gathering riser Doc #<a href="#">690100021</a>.</li> </ul> <p><b>Form INSP Doc # &amp; Date:</b> <a href="#">693505662</a> &amp; 10/22/2021</p> <ul style="list-style-type: none"> <li>○ <b>Status Summary:</b> No Follow Up Inspection Required</li> <li>○ <b>Inspected Facilities:</b> Bydalek 2-11 well</li> <li>○ <b>Inspection Status:</b> PA</li> <li>○ <b>Inspection Date &amp; Inspector:</b> 10/21/2021 by Randy Silver</li> <li>○ <b>Comments:</b> P&amp;A well is in the P&amp;A process forms on file with the COGCC. Rig performing P&amp;A. At time of inspection crew had just arrived on location. No pressure on well. Inspection due to form 42 notice.</li> <li>○ <b>Attachments:</b> Inspection Location Photos Doc #<a href="#">693505663</a></li> </ul> <p><b>Form INSP Doc # &amp; Date:</b> <a href="#">693504606</a> &amp; 02/26/2021</p> <ul style="list-style-type: none"> <li>○ <b>Status Summary:</b> No Follow Up Inspection Required</li> <li>○ <b>Inspected Facilities:</b> Bydalek 2-11 well</li> <li>○ <b>Inspection Status:</b> SI</li> <li>○ <b>Inspection Date &amp; Inspector:</b> 02/26/2021 by Randy Silver</li> <li>○ <b>Comments:</b> Routine inspection</li> <li>○ <b>Attachments:</b> Inspection Location Photos Doc #<a href="#">693504607</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 Production Facility for this Location is referenced in Form 44 Document #<a href="#">403003981</a> as the end point location for the Off-Location Flowline servicing well Bydalek 2-11.</p>
<b>COGIS Pit Information (Scout Card)</b>	<p><b>Pit Name:</b> Bydalek 2-11</p> <p><b>FACILITY ID:</b> <a href="#">114114</a></p>

	<ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> CL &amp; 09/23/1999</li> <li>○ <b>Lat/Long:</b> 39.974341 / -104.973796</li> <li>○ <b>ECMC Comment:</b> Based on records review there is no evidence that there was a pit on location; inspections and pit inventory report document a concrete water vault on location. Pit status has been changed to Closed. Corrected township location. Moved lat/long to TB and updated related facilities. See Pit Status Evaluation Form, Doc #<a href="#">1561357</a>. KO 1/6/2020</li> <li>○ <b>Pit Status Evaluation Form Doc # &amp; Date:</b> <a href="#">1561357</a> &amp; 01/06/2020  <b>Current Status:</b> Unknown  <b>Related Facilities:</b> BYDALEK #2-11 (<a href="#">05-001-08881</a>, Facility ID 203372, Loc ID <a href="#">320291</a>)  <b>Update Pit Status:</b> Closed 09/23/1999  <b>Timing of Pit Closure:</b> No evidence of a pit on location  <b>Pit Status Review Summary:</b> Based on records review there is no evidence that there was a pit on location; inspections and pit inventory report document a concrete water vault on location. Pit status has been changed to Closed.</li> </ul>
<b>COGIS Well Information (Scout Card)</b>	<p><b>Well Name:</b> Bydalek #2-11</p> <p><b>API#:</b> <a href="#">05-001-08881</a></p> <p><b>FACILITY ID:</b> 203372</p> <ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> PA &amp; 10/29/2021</li> <li>○ <b>Lat/Long as Drilled:</b> 39.974100 / -104.973190</li> <li>○ <b>Form 6 Doc # &amp; Date:</b> <a href="#">402875446</a> &amp; 05/25/2022</li> <li>○ <b>Form 42 Doc # &amp; Date:</b> <a href="#">402838917</a> &amp; 10/12/2021  <b>Purpose:</b> Start of Plugging Operations – 48-hour notice required  <b>Comments:</b> Duration of plugging operations is estimated to be 2-3 weeks from anticipated start date</li> <li>○ <b>Form 4 Doc # &amp; Date:</b> <a href="#">400949975</a> &amp; 02/16/2016  <b>Purpose:</b> Interim reclamation complete, site ready for inspection.  <b>Attachments:</b> Location Pictures Doc #<a href="#">400949977</a></li> </ul>

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> DRCOG 2020	<b>Remotely Sensed Imagery:</b> 23 Feb 2024
<b>Designation:</b> Oil & Gas Facility	<b>Designation:</b> Commercial Warehousing

### 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

## Closure Information

Bydalek #2-11 well (API #[05-001-08881](#)) is located in Adams County, Colorado near the intersection of Washington Street and E-470. There is an Off-Location Flowline between this well and the production facilities located on-site. This Location has undergone a Land Use Change from Oil & Gas to commercial warehousing. At the time of this report, there is a large warehouse being constructed and Oil & Gas disturbance is not apparent.

In 2021, a Form 27 Initial was submitted for buried or partially buried vessel closure, which will be by removal, remediation of Spill and Releases pursuant to Rule 912, decommissioning of Oil and Gas Facilities, and wellhead, flowlines and tank battery decommissioning at NFA request, under Remediation Project #[20670](#). Remediation Project #[20670](#) was closed in a Form 27 Supplemental on February 16<sup>th</sup>, 2022.

Bydalek #2-11 well (API #[05-001-08881](#)) was plugged and abandoned on October 29<sup>th</sup>, 2021. The on-site production facility was also closed and reclaimed at this time.

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	1.54
Access Road	0.87
Flowline	Included
Tank Battery	Included
Well Pad	0.67



## Cardinal Photos

### *Site Investigation and Photos Date*

23 Feb 2024

Cardinal directional photos of the site. Cardinal photos were taken at 300 feet to avoid contact with construction cranes.



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

**NORTH** – 39.972908 / -104.973504





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

**NORTHWEST – 39.973398 / -104.972730**



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

**EAST – 39.974298 / -104.975159**





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

**SOUTHEAST – 39.977959 / -104.978643**



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

**SOUTH – 39.975867 / -104.973636**





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

**WEST – 39.974235 / -104.971594**



**In View – Close-up of construction**

**EAST – 39.975532 / -104.977058**





## Ground Photos

### *Site Investigation and Photos Date*

23 Feb 2024

Handheld photos taken from E 152<sup>nd</sup> Parkway, south of the location. Construction contractors refused ground access to the site, as such the ground photos were taken from the road.

	
Facing Northwest looking at construction from south of wellhead – 39.973314 / -104.972219	Facing Northwest looking at construction from south of wellhead – 39.973314 / -104.972219

	
<p>Facing Northwest looking at construction from south of wellhead – 39.973314 / -104.972219</p>	

# ATTACHMENTS

## Maps and Figures

### *Area Maps*

Post-Plugging Overview

Post-Plugging Road Overview

Pre-Plugging Overview

Pre-Plugging Road Overview

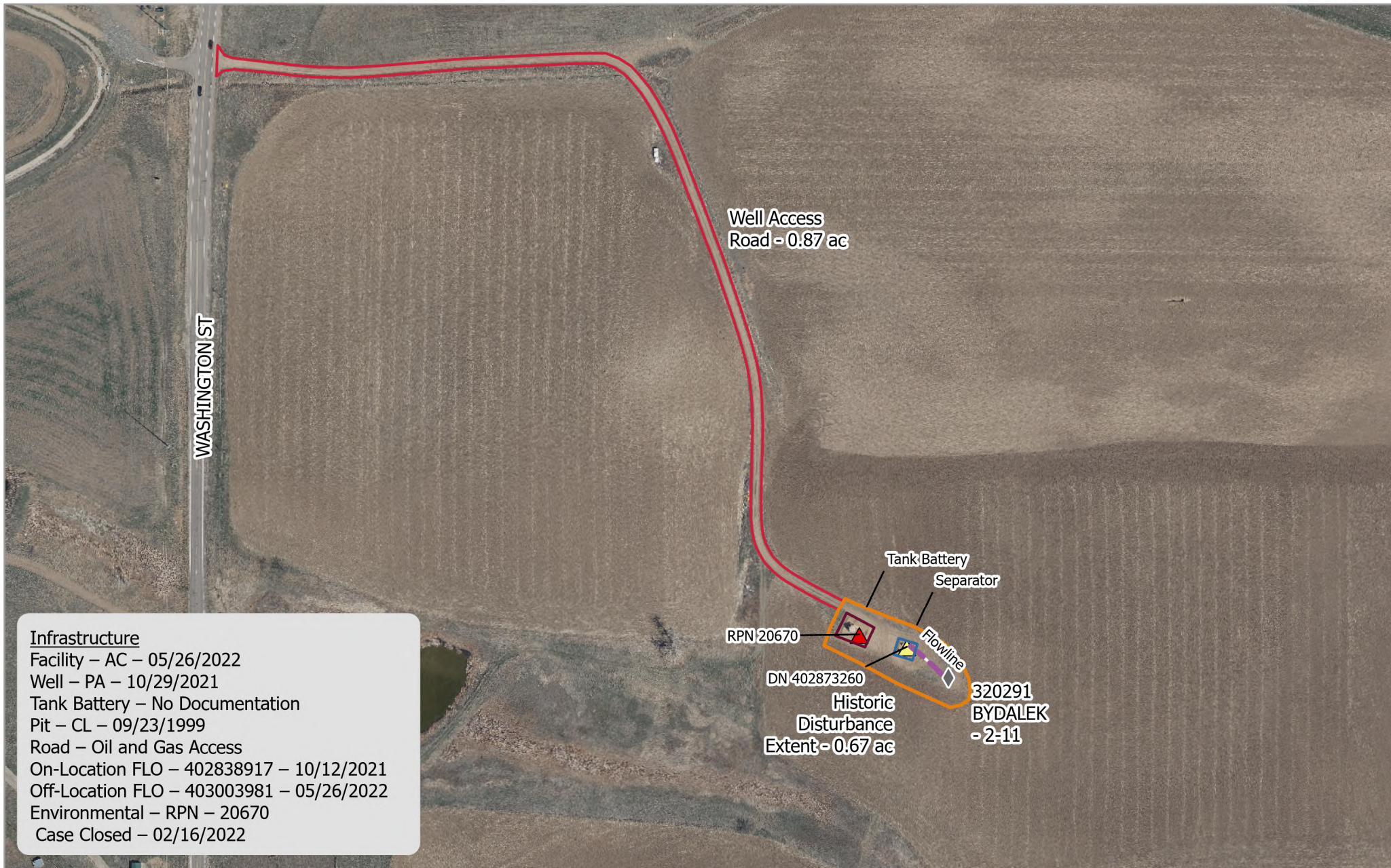
Hydrology – (2 CCR 404-1 – 303.b.3.G pg.34)

## Background Information

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

Reference Soil Document





#### Infrastructure

Facility – AC – 05/26/2022

Well – PA – 10/29/2021

Tank Battery – No Documentation

Pit – CL – 09/23/1999

Road – Oil and Gas Access

On-Location FLO – 402838917 – 10/12/2021

Off-Location FLO – 403003981 – 05/26/2022

Environmental – RPN – 20670

Case Closed – 02/16/2022

#### CIV - 320291 - Bydalek #2-11 Map Extent - Pre-Plugging Road Overview

Imagery: DRCOG

Imagery Date: 03 May 2020

Map Date: 26 Feb 2024

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage

#### Legend

- |                    |                             |
|--------------------|-----------------------------|
| ◆ Wells            | Historic Disturbance Extent |
| ▲ Remediation      | Tank Battery                |
| ▲ Spill or Release | Separator                   |
| — Flowline         | Well Access Road            |

0 75 150 Meters

Total Disturbance:

1.54 Acres

Scale: 1:3,000

Pad Location:

39.974100

-104.973190



Service Credits - Mapbox, Microsoft







## CIV - 320291 - Bydalek #2-11 Map Extent - Pre-Plugging Overview

Imagery: DRCOG  
 Imagery Date: 03 May 2020  
 Map Date: 26 Feb 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage

### Legend

- |                    |                             |
|--------------------|-----------------------------|
| ◆ Wells            | Historic Disturbance Extent |
| ▲ Remediation      | Tank Battery                |
| ▲ Spill or Release | Separator                   |
| — Flowline         | Well Access Road            |

0 25 50 Meters

Total Disturbance:  
1.54 Acres  
Scale: 1:1,000

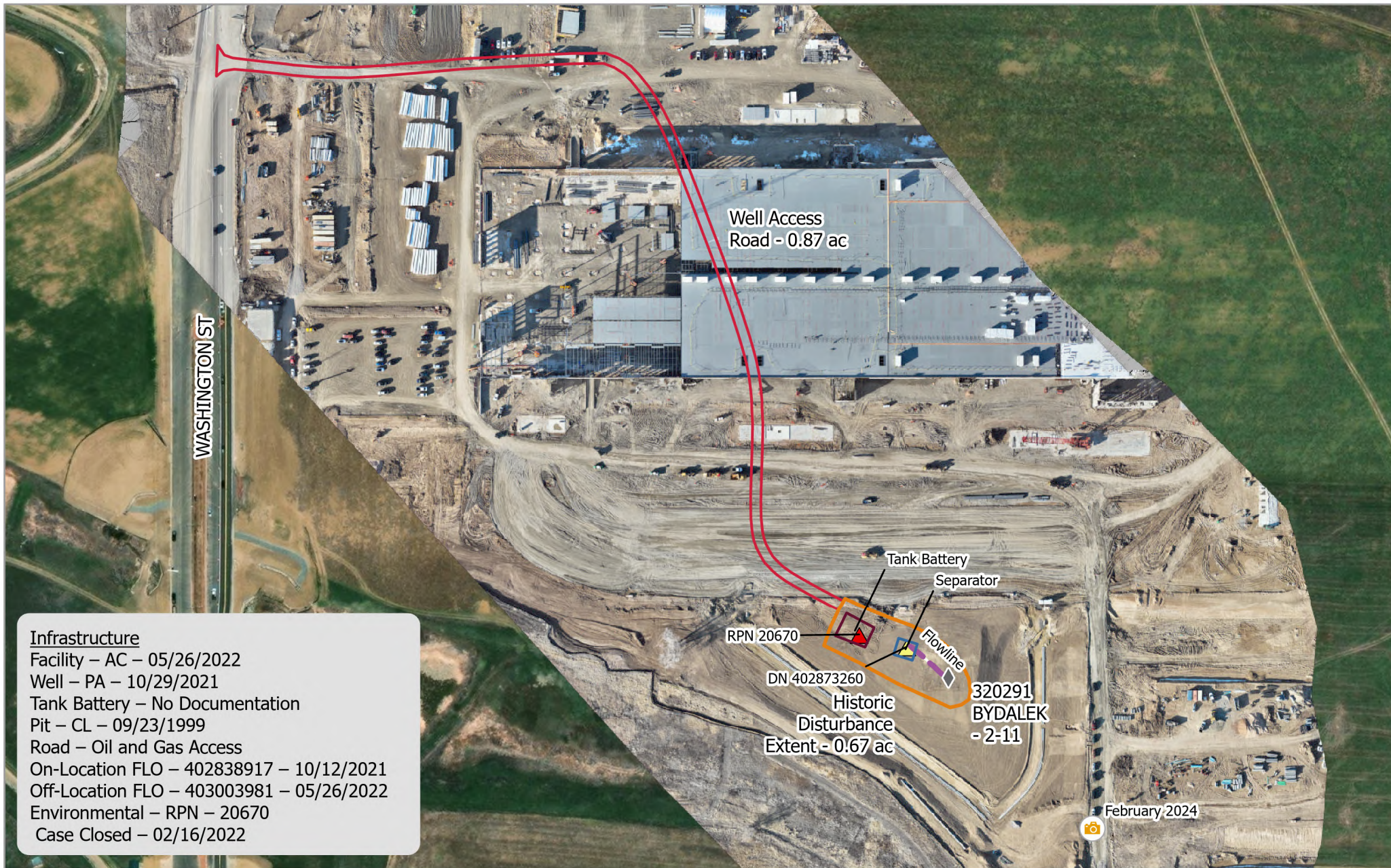
Pad Location:  
39.974100  
-104.973190



Service Credits - Mapbox, Microsoft







## CIV - 320291 - Bydalek #2-11 Map Extent - Post-Plugging Road Overview

Imagery: RS Orthomosaic & DSM  
 Imagery Date: 23 Feb 2024  
 Map Date: 26 Feb 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage

### Legend

- |                    |                               |
|--------------------|-------------------------------|
| ◆ Wells            | — Flowline                    |
| ▲ Remediation      | ▭ Historic Disturbance Extent |
| ▲ Spill or Release | ▭ Tank Battery                |
| 📷 Photo Points     | ▭ Separator                   |
|                    | ▭ Well Access Road            |

0 75 150 Meters

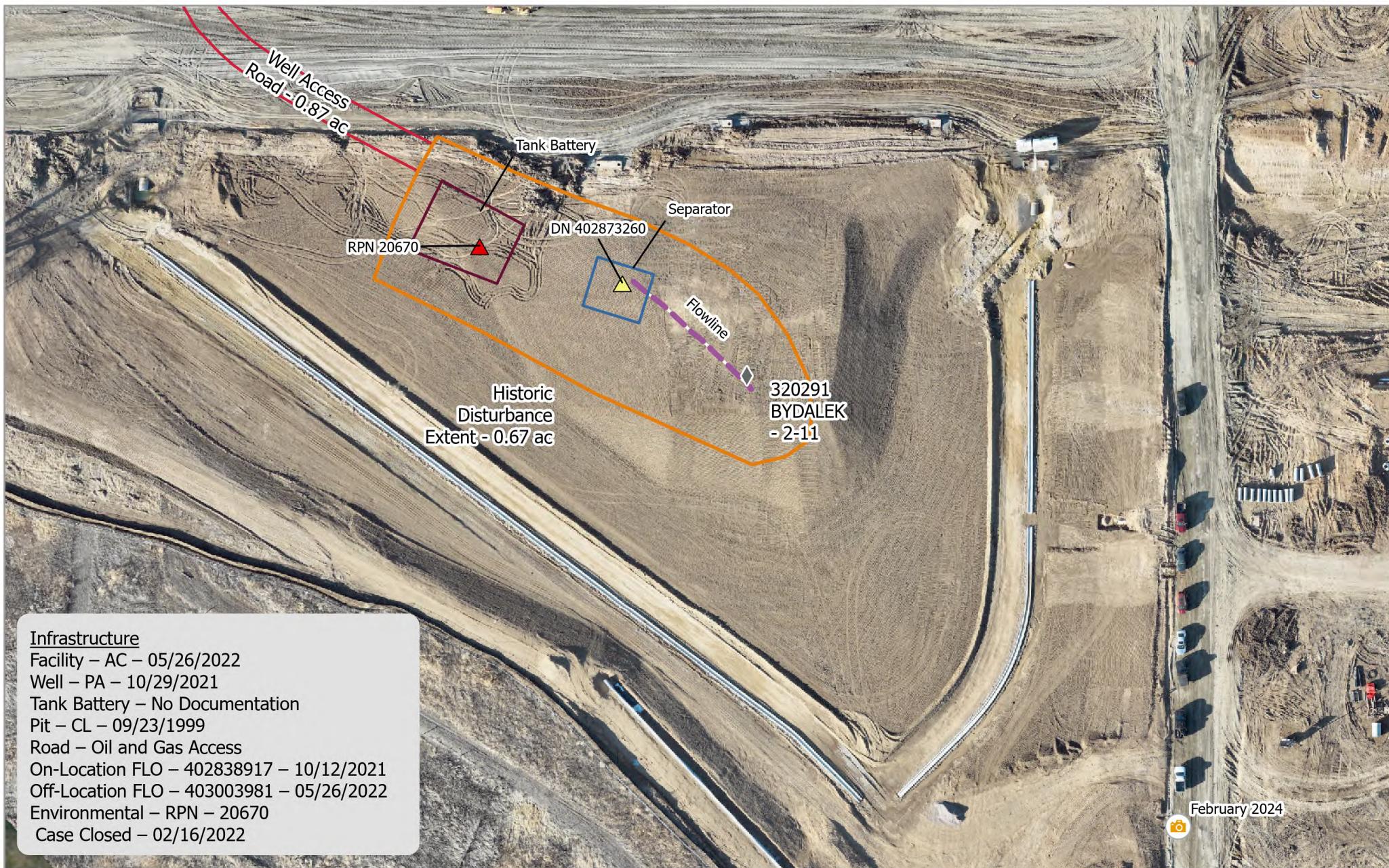
Total Disturbance:  
1.54 Acres  
Scale: 1:3,000

Pad Location:  
39.974100  
-104.973190



Service Credits - Maxar, Microsoft





#### Infrastructure

Facility – AC – 05/26/2022  
 Well – PA – 10/29/2021  
 Tank Battery – No Documentation  
 Pit – CL – 09/23/1999  
 Road – Oil and Gas Access  
 On-Location FLO – 402838917 – 10/12/2021  
 Off-Location FLO – 403003981 – 05/26/2022  
 Environmental – RPN – 20670  
 Case Closed – 02/16/2022

### CIV - 320291 - Bydalek #2-11 Map Extent - Post-Plugging Overview

Imagery: RS Orthomosaic & DSM  
 Imagery Date: 23 Feb 2024  
 Map Date: 26 Feb 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage

#### Legend

- |                    |                               |
|--------------------|-------------------------------|
| ◆ Wells            | — Flowline                    |
| ▲ Remediation      | — Historic Disturbance Extent |
| ▲ Spill or Release | — Tank Battery                |
| 📷 Photo Points     | — Separator                   |
|                    | — Well Access Road            |

0 25 50 Meters

Total Disturbance:  
 1.54 Acres  
 Scale: 1:1,000

Pad Location:  
 39.974100  
 -104.973190



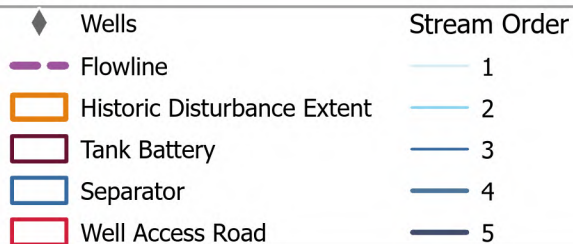
Service Credits - Mapbox, Microsoft





## CIV - 320291 - Bydalek #2-11 Map Extent - Hydrology

Imagery: RS Orthomosaic & DSM  
 Imagery Date: 23 Feb 2024  
 Map Date: 26 Feb 2024  
 Datum: WGS 1984 UTM Zone 13N  
 POC: Soil Sage



0 70 140 Meters

Total Disturbance:  
1.54 Acres  
Scale: 1:2,800

Pad Location:  
39.974100  
-104.973190



Service Credits - Maxar, Microsoft



# Soil Properties

## USDA Soil Description

**Location ID / Name**

320291 - Bydalek #2-11

### Reference Soil Information

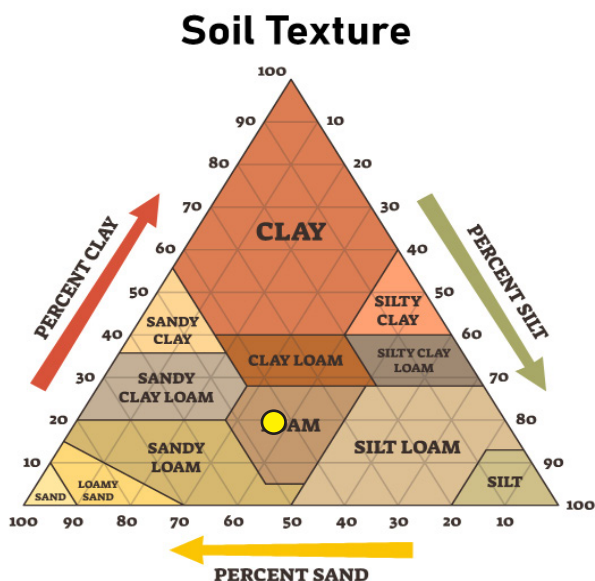
The location of the site is contained within two soil types, Platner loam and Ulm loam.

### Map Unit PIB Reference Soil information - Platner loam

This soil is formed from mixed eolian deposits over tertiary aged alluvium derived from igneous, metamorphic and sedimentary rock. Landform is interfluvies. Ecological Site Description is Loamy Plains. Soils are well-drained with a moderate water holding capacity, and slope 0 to 3 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Particle Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-6	Loam	1.41	43-38-19	7.2	0.5	0.0	1.50
6-11	Clay	1.36	30-30-40	7.6	0.5	0.0	1.50
11-20	Clay	1.36	30-30-40	7.6	0.5	0.0	1.50
20-27	Loam	1.56	37-37-27	8.2	0.5	0.0	0.75
27-37	Sandy Clay Loam	1.54	61-19-20	8.5	0.5	0.0	0.50
37-80	Sandy Clay Loam	1.58	61-19-20	8.5	0.5	0.0	0.50

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



### Erosion Potential (10 inches)

- K Factor, Whole soil - .43. 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 – 5. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.



# Soil Properties

## USDA Soil Description

**Location ID / Name**

320291 - Bydalek #2-11

### Reference Soil Information

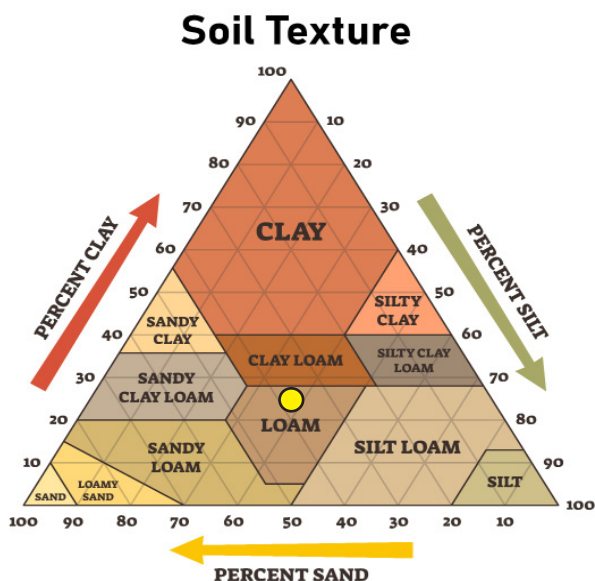
The location of the site is contained within two soil types, Platner loam and Ulm loam.

### Map Unit UIC Reference Soil information - Ulm loam

This soil is formed from residuum weathered from sandstone and shale. Landform is plains. Ecological Site Description is Loamy Plains. Soils are well-drained with a moderate water holding capacity, and slope 3 to 5 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Particle Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-7	Loam	1.33	39-37-24	7.6	0.0	0.0	0.75
7-13	Silty Clay	1.23	7-48-45	7.9	0.0	0.0	0.75
13-30	Clay	1.23	26-29-45	8.2	0.0	0.0	0.25
30-48	Clay Loam	1.33	34-32-34	8.2	1.0	0.0	0.25
48-52	Unweathered Bedrock	N/A	N/A	N/A	N/A	N/A	N/A

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



### Erosion Potential (10 inches)

- K Factor, Whole soil - .32. 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.