

SITE-SPECIFIC QUALITY ASSURANCE & QUALITY CONTROL AUDIT



Permit Closure Type – Final

PERMIT CLOSURE REPORT – DESIGNATION LAND USE CHANGE

Location ID: 320428

Location Name: HSR-VAN SCHAACK-62S66W/10NWSE

Report Date

20 Aug 2025

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	12 Aug 2025

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

Name	HSR-VAN SCHAACK-62S66W/10NWSE		
Location ID	320428		
Well API #(s)	05-001-09301		
Operator / #	EXTRACTION OIL & GAS INC / 10459		
Field	BANNER / 5190		
County, State	ADAMS, CO		
Lat/Long	39.890469 / -104.759042		
	Planned Location	<input checked="" type="checkbox"/>	As Drilled
Facility Status	CL	Location	NWSE 10 2S66W
Facility Status Date	05/15/2020	Access Road	Oil and Gas Access
Facility Entities	<input checked="" type="checkbox"/>	Tank Battery (Off-Site)	Pits
	<input checked="" type="checkbox"/>	Wells	<input checked="" type="checkbox"/> Off-Location Flowlines (Form 44)
		Domestic Taps	<input checked="" type="checkbox"/> On-Location Flowlines (Form 42)
Equipment Remaining on Site	<input checked="" type="checkbox"/>	None	Debris or Non-Oil & Gas
		List of Equipment:	
Environment Incidents & Remediation	<input checked="" type="checkbox"/>	None	Spill or Release (Form 19)
		Remediation (Form 27/27A)	
Inspection Corrective Actions (CA)s	No Corrective Actions (CA)s were detected during the QA & QC Audit.		
	Complete ECMC Inspection Search Results: Link		
Sundry Notice (Form 4)	Form 4s were detected during the QA & QC Audit. See individual scout card data for details.		
On Location Flowlines (Form 42)	Form 42s were detected during the QA & QC Audit. See individual scout card data for details.		

**Off-Location Flowlines
(Form 44)**

Form 44 Doc # & Date: [402444753](#) & 08/20/2020

- **Purpose:** Abandonment Verification
- **Abandonment Date:** 06/29/2020
- **ECMC Approval Date & Signee:** 08/20/2020 by Jeff Robbins
- **Operator Comments:** The Form 44 is being filed for a flowline abandonment. The subject flowline was removed in its entirety. Attachments are:
 - Updated GIS shapefiles w/ attributed detailing the entire line was removed during abandonment.
 - Most recent pressure test for subject flowline.

Flowline Facility Information

- **ECMC Flowline ID:** [465192](#)
- **Operator Flowline ID:** 00109301FL
- **Status & Date:** CL & 06/29/2020
- **Flowline Type:** Wellhead Line
- **Type of Fluids Transported:** Multiphase
- **Start Point Location ID:** [320428](#)
- **Start Point Riser Lat/Long:** 39.890469 / -104.759042 (HSR-VAN SCHAACK #10-10 Well)
- **Equipment at Start Point:** Separator
- **End Point Location ID:** [452734](#)
- **End Point Riser Lat/Long:** 39.892553 / -104.759272 (HSR Van Schaack 10-10 Tank Battery)
- **Equipment at End Point Riser:** Separator

<p>Field Inspection Form (Form INSP)</p>	<p>Form INSP Doc # & Date: 687400274 & 10/12/2017</p> <ul style="list-style-type: none"> ○ Status Summary: NO FOLLOW UP INSPECTION REQUIRED ○ Inspected Facilities: HSR-VAN SCHAACK 10-10 Well ○ Inspection Status: PR ○ Inspection Date & Inspector: 10/11/2017 by Adam Kraich ○ Comments: Within 1000' flowline NTO buffer. ○ Attachments: Inspection Photos Doc #687400275 <p>Form INSP Doc # & Date: 674104072 & 06/16/2017</p> <ul style="list-style-type: none"> ○ Status Summary: NO FOLLOW UP INSPECTION REQUIRED ○ Inspected Facilities: HSR-VAN SCHAACK 10-10 Well ○ Inspection Status: EG ○ Inspection Date & Inspector: 05/25/2017 by Stephen Wolfe ○ Comments: 2017 Flowline NTO Inspection. Flow Line: IN USE: WELLHEAD- 2-2" steel risers, 1 well site and 1 bradenhead to surface, 1-1" steel riser, connected to wellhead. SEPARATOR- 4-2" steel risers, 2-1" steel riser, 1 connected to the well and 1 to the ECD. Flow Line: NOT IN USE: SEPARATOR- 2-2" steel risers, plugged and marked for abandonment. 5/6/17 Flowline from wellhead to separator tested with wellhead fluids to 100 psi for 30 mins by ZD with HRM. 5/6/17 Sales line from separator to gas sales meter tested with wellhead fluids to 100 psi for 30 mins by ZD with HRM. 5/6/17 1" supply line from separator to wellhead tested with wellhead fluids to 60psi for 30 mins by ZD with HRM. ○ Attachments: Wellhead Doc #674104190, Separator Doc #674104191 and Pressure test report Doc #674104192.
<p>COGIS Tank Facilities Information (Scout Card)</p>	<p>Tank Battery Name: HSR Van Schaack 10-10/Tank Battery</p> <p>FACILITY ID: 452733</p> <ul style="list-style-type: none"> ○ Status & Date: AC & 10/23/2017 ○ Lat/Long: 39.892553 / -104.759272 ○ Notes: This Tank Battery is at Location ID 452734.

COGIS Well Information (Scout Card)	<p>Well Name: HSR-VAN SCHAACK #10-10</p> <p>API#: 05-001-09301</p> <p>FACILITY ID: 203741</p> <p>Complete ECMC Inspection Search Results for Well: Link</p> <ul style="list-style-type: none"> ○ Status & Date: PA & 05/15/2020 ○ Lat/Long as Drilled: 39.890469 / -104.759042 ○ Form 4 Doc # & Date: 402110385 & 11/19/2021 Purpose: NOTICE OF INTENT, Request to Vent or Flare, Approximate Start Date 07/16/2019 ○ Form 4 Doc # & Date: 402557913 & 12/21/2020 Purpose: Final Reclamation will commence approximately 12/14/2020. Comments: Seeded location on 12/14/2020. ○ Form 6 Doc # & Date: 402419119 & 08/13/2020 ○ Form 42 Doc # & Date: 402381102 & 04/27/2020 Purpose: START OF PLUGGING OPERATIONS - 48-hour notice required. Date: 04/29/2020 Time: 12:00 ○ Form 42 Doc # & Date: 401340267 & 07/13/2017 Purpose: FLOWLINES ABANDONED - per RULE 1103. Date completed: 06/30/2017.
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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
<p>Reference Imagery for Infrastructure: Microsoft 15 Mar 2012</p>	<p>Remotely Sensed Imagery: 04 Aug 2025</p>
<p>Designation: Oil & Gas Facility</p>	<p>Designation: Third Creek Community</p>

The following imagery sources were reviewed during this Audit: EarthExplorer, DRCOG, USDA NAIP, ESRI, Google Earth and Soil Sage Remotely Sensed Imagery.

Closure Information

HSR-Van Schaack #10-10 well (API #[05-001-09301](#)) is in Adams County, Colorado near the intersection of East 106th Place and Ensenada Court. There is an Off-Location Flowline between this well and the Off-Site Production Facilities at Location ID [452734](#). This Location has undergone a Land Use Change from Oil and Gas to the [Third Creek Community](#).

HSR-Van Schaack #10-10 well (API #[05-001-09301](#)) was plugged and abandoned on May 15th, 2020. The access road was reclaimed at this time. The related production facility at Location ID [452734](#), was closed and reclaimed at the same 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	1.51
Access Road	0.56
Flowline	Not Included
Tank Battery	Off-Site (Loc ID 452734)
Well Pad	0.95

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

Cardinal Photos

Site Investigation and Photos Date

04 Aug 2025

Cardinal directional photos of the site.



In View – Well, Tank Battery (Loc ID [452734](#)), Access Road, Flowline **NORTH** – 39.889731 / -104.758947



In View – Well, Access Road, Flowline

EAST – 39.890555 / -104.759858



In View – Well, Access Road, Flowline

SOUTH – 39.891066 / -104.759027



In View – Well, Access Road, Flowline

WEST – 39.890499 / -104.758195



In View – Well, Tank Battery (Loc ID [452734](#)), Access Road, Flowline

NORTHWEST – 39.890351 / -104.758002



In View – Tank Battery (Loc ID [452734](#)), Access Road, Flowline

NORTH – 39.891403 / -104.759340



In View – Tank Battery (Loc ID [452734](#)), Access Road, Flowline

EAST – 39.892607 / -104.760217



In View – Well, Tank Battery (Loc ID [452734](#)), Access Road, Flowline **SOUTH** – 39.892960 / -104.759024



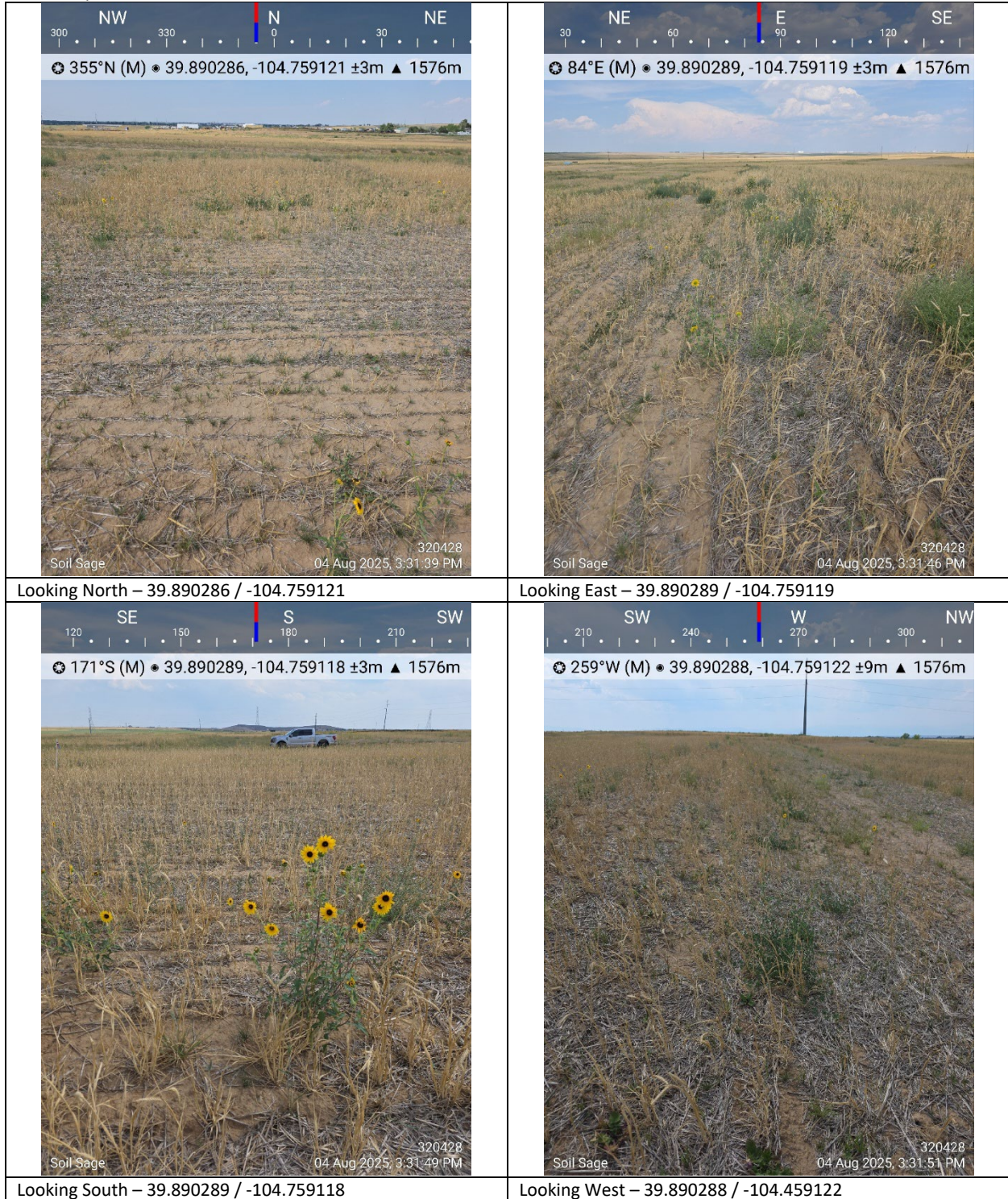
In View – Well, Tank Battery (Loc ID [452734](#)), Access Road, Flowline **WEST** – 39.892573 / -104.758298

Well – Ground Photos

Site Investigation and Photos Date

04 Aug 2025

Handheld photos taken from HSR-Van Schaack #10-10 wellhead.



Tank Battery – Ground Photos

Site Investigation and Photos Date

04 Aug 2025

Handheld photos taken at Location ID [452734](#) Production Facilities.



ATTACHMENTS

Maps and Figures

Area Maps

Pre-Plugging Overview

Post-Plugging Overview

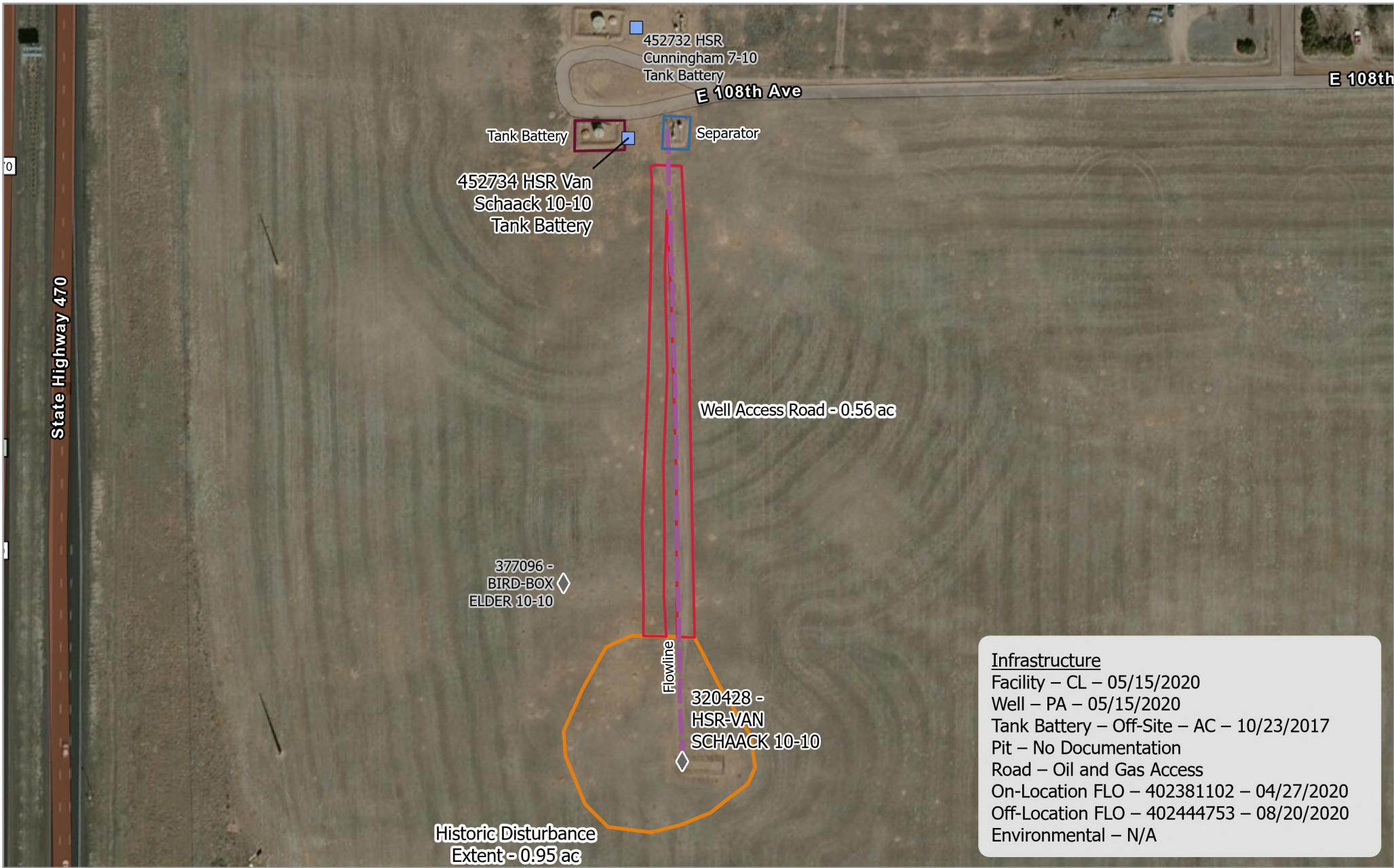
Hydrology – (2 CCR 404-1 – 303.b.3.G pg.34)

Development Plan

Background Information

Natural Resources Conservation Service (NRCS) Map Unit Description

Reference Soil Document



E 108th

State Highway 470

452732 HSR
Cunningham 7-10
Tank Battery

Tank Battery

Separator

452734 HSR Van
Schaack 10-10
Tank Battery

Well Access Road - 0.56 ac

377096 -
BIRD-BOX
ELDER 10-10

Flowline

320428 -
HSR-VAN
SCHAACK 10-10

Historic Disturbance
Extent - 0.95 ac

Infrastructure	
Facility	CL - 05/15/2020
Well	PA - 05/15/2020
Tank Battery	Off-Site - AC - 10/23/2017
Pit	No Documentation
Road	Oil and Gas Access
On-Location FLO	402381102 - 04/27/2020
Off-Location FLO	402444753 - 08/20/2020
Environmental	N/A

**CIV - 320428 -
HSR-VAN SCHAACK-62S66W/10NWS
Map Extent - Pre-Plugging Overview**

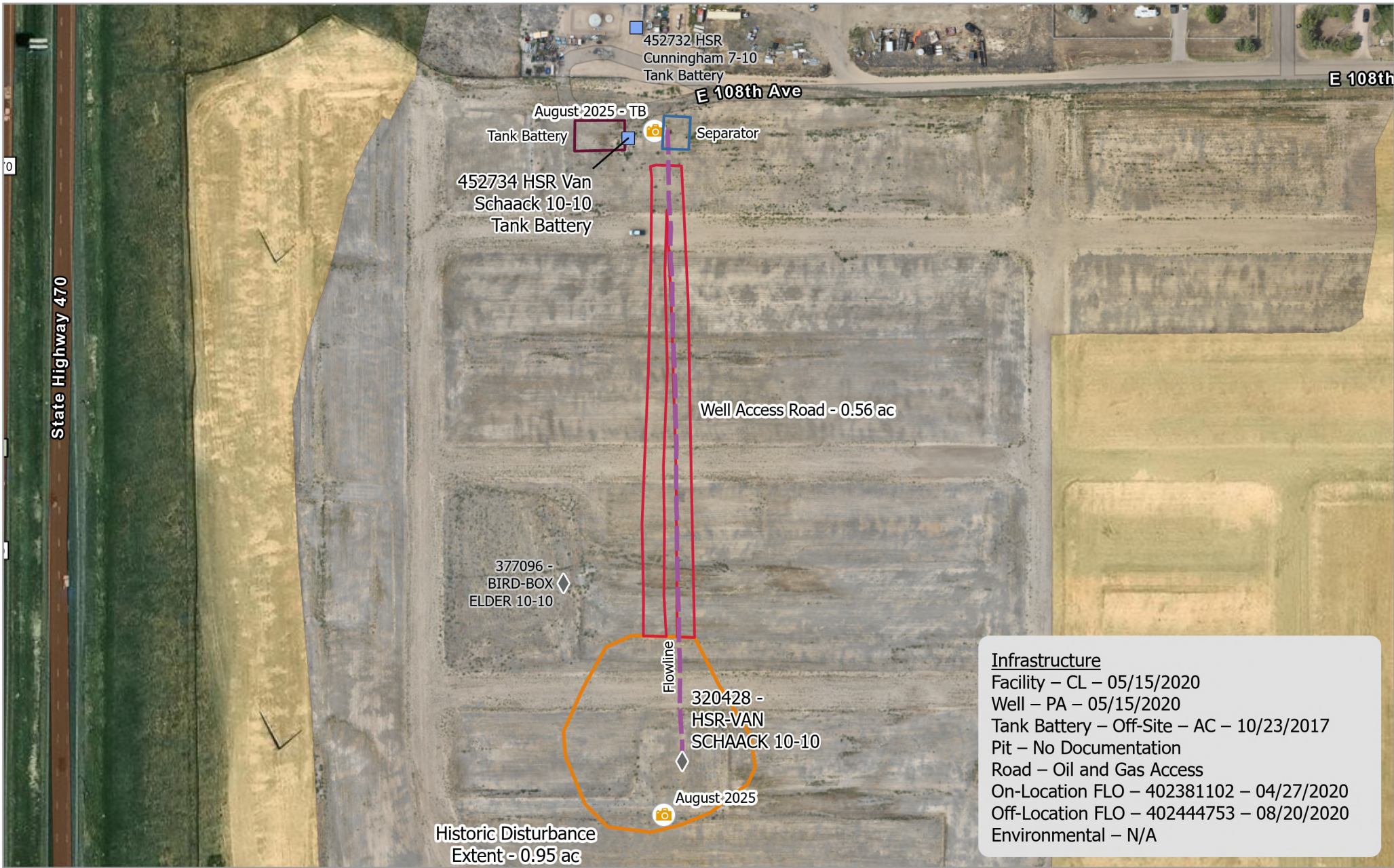
Imagery: Microsoft
Imagery Date: 15 Mar 2015
Map Date: 18 Aug 2025
Datum: WGS 1984 UTM Zone 13N
POC: Soil Sage

◆ Wells	□ Well Access Road
■ Oil and Gas Locations	□ Tank Battery
— Flowline	□ Separator
□ Historic Disturbance Extent	

0 25 50 100 Meters

Total Disturbance: 1.51 Acres
Scale: 1:1,900

Pad Location: 39.890469
-104.759042



E 108th

State Highway 470

452732 HSR
Cunningham 7-10
Tank Battery

August 2025 - TB

Tank Battery

Separator

452734 HSR Van
Schaack 10-10
Tank Battery

Well Access Road - 0.56 ac

377096 -
BIRD-BOX
ELDER 10-10

Flowline

320428 -
HSR-VAN
SCHAACK 10-10

August 2025

Historic Disturbance
Extent - 0.95 ac

Infrastructure

Facility – CL – 05/15/2020

Well – PA – 05/15/2020

Tank Battery – Off-Site – AC – 10/23/2017

Pit – No Documentation

Road – Oil and Gas Access

On-Location FLO – 402381102 – 04/27/2020

Off-Location FLO – 402444753 – 08/20/2020

Environmental – N/A

**CIV - 320428 -
HSR-VAN SCHAACK-62S66W/10NWSE
Map Extent - Post-Plugging Overview**

Imagery: RS Orthomosaic
Imagery Date: 04 Aug 2025
Map Date: 18 Aug 2025
Datum: WGS 1984 UTM Zone 13N
POC: Soil Sage

- ◆ Wells
- Oil and Gas Locations
- 📷 Observation Points
- Flowline
- ▭ Historic Disturbance Extent
- ▭ Well Access Road
- ▭ Tank Battery
- ▭ Separator

0 25 50 100 Meters

Total Disturbance:

1.51 Acres

Scale: 1:1,900

Pad Location:

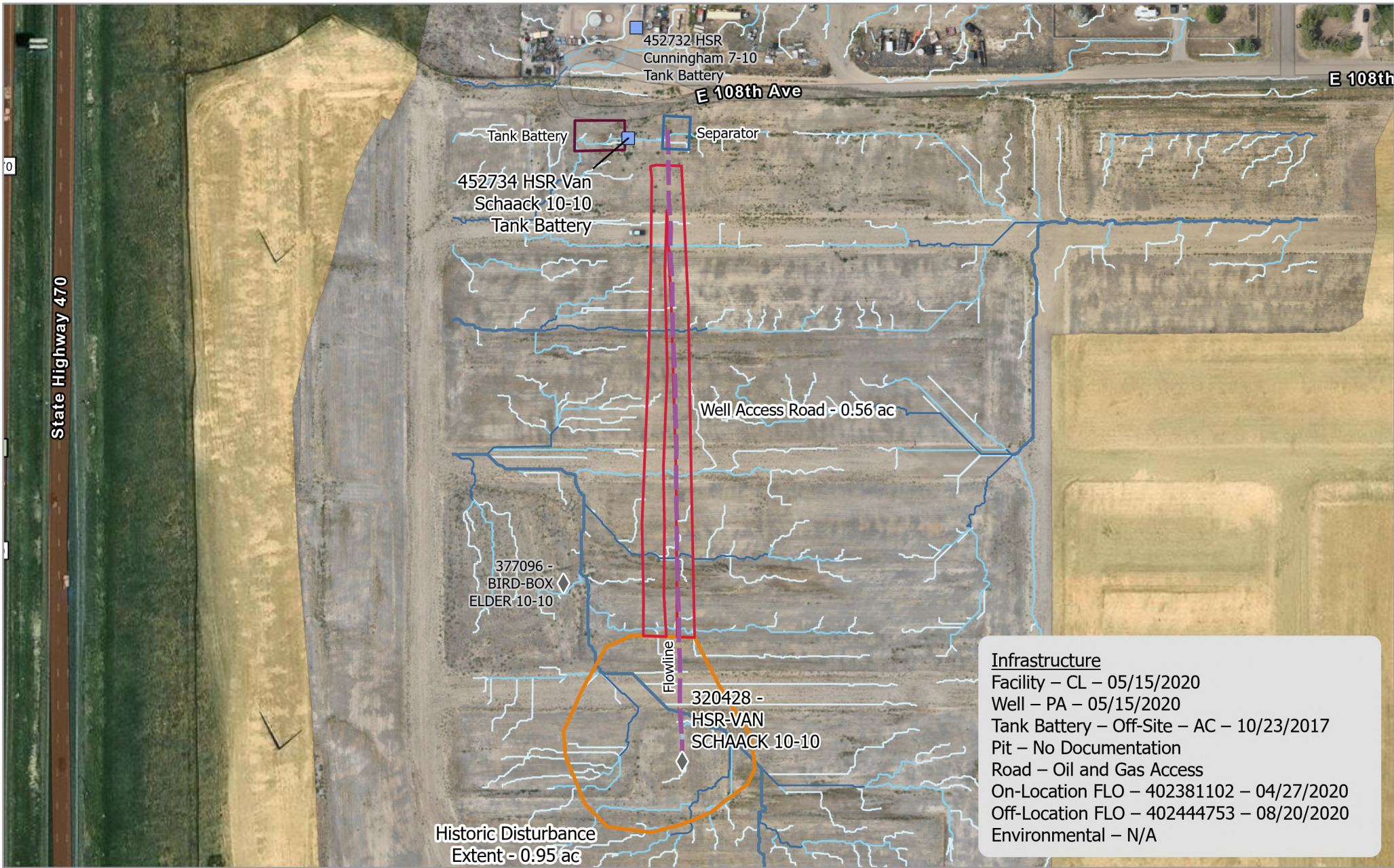
39.890469

-104.759042



Service Credits - Maxar, Microsoft, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community





Infrastructure	
Facility	CL - 05/15/2020
Well	PA - 05/15/2020
Tank Battery	Off-Site - AC - 10/23/2017
Pit	No Documentation
Road	Oil and Gas Access
On-Location FLO	402381102 - 04/27/2020
Off-Location FLO	402444753 - 08/20/2020
Environmental	N/A

**CIV - 320428 -
HSR-VAN SCHAACK-62S66W/10NWSE
Map Extent - Hydrology**

Imagery: RS Orthomosaic and DSM
 Imagery Date: 04 Aug 2025
 Map Date: 18 Aug 2025
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

◆ Wells	□ Separator
■ Oil and Gas Locations	Stream Order
— Flowline	1
▭ Historic Disturbance Extent	2
▭ Well Access Road	3
▭ Tank Battery	4

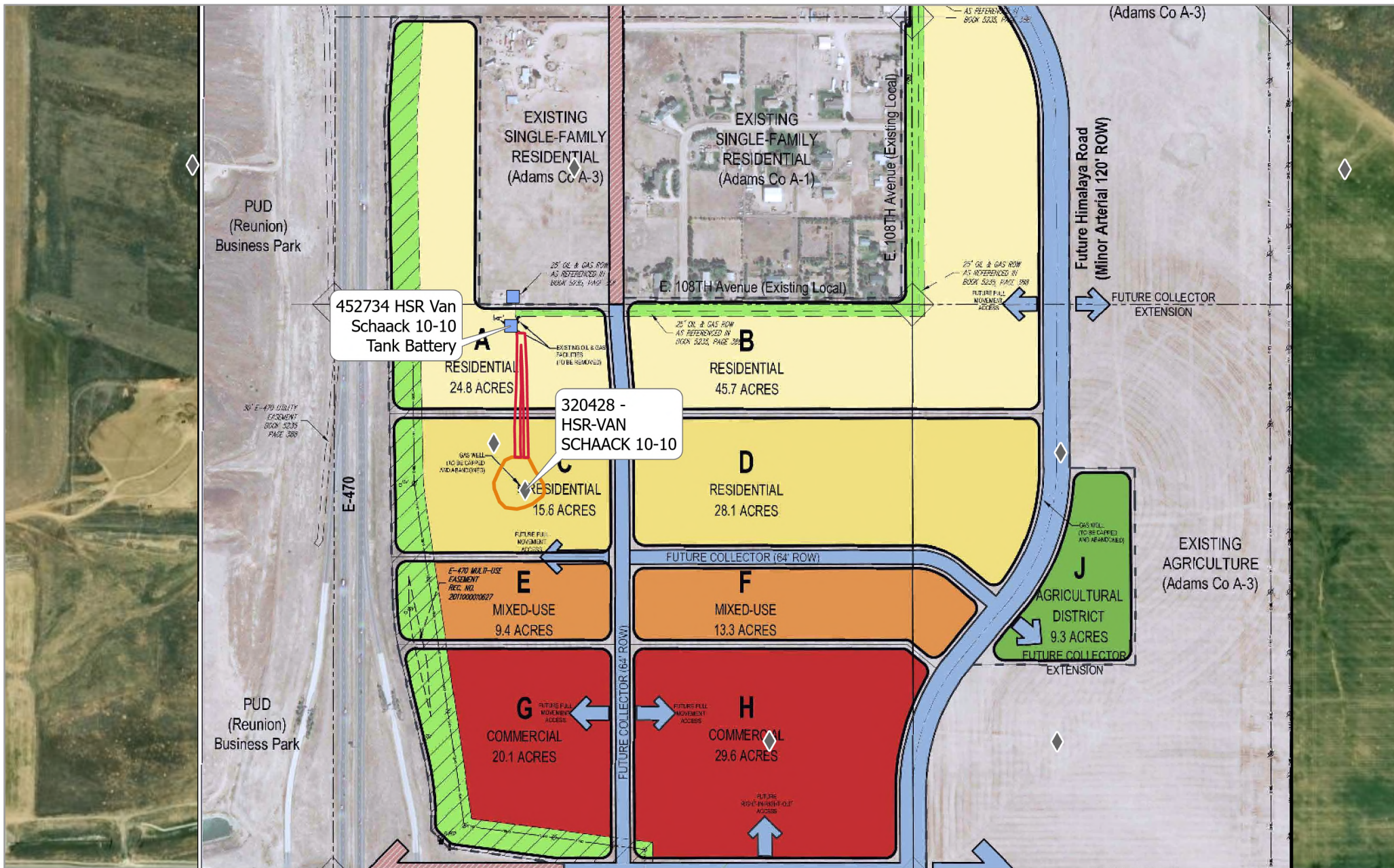
0 25 50 100 Meters

Total Disturbance: 1.51 Acres
 Scale: 1:1,900

Pad Location: 39.890469
 -104.759042

Service Credits - Maxar, Microsoft, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

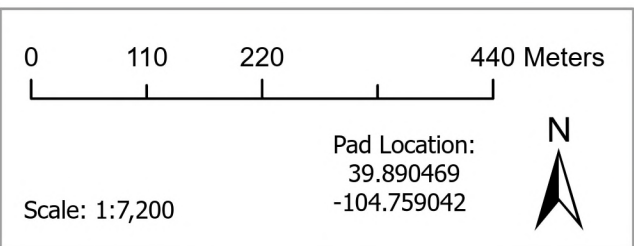




**CIV - 320428 -
HSR-VAN SCHAACK-62S66W/10NWSE
Map Extent - Development Plan**

Imagery: thirdcreekcc.com
 Imagery Date: Accessed 20 Aug 2025
 Map Date: 20 Aug 2025
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

- ◆ Wells
- Oil and Gas Locations
- ▭ Historic Disturbance Extent
- ▭ Well Access Road



Soil Properties

USDA Soil Description

Reference Soil Information

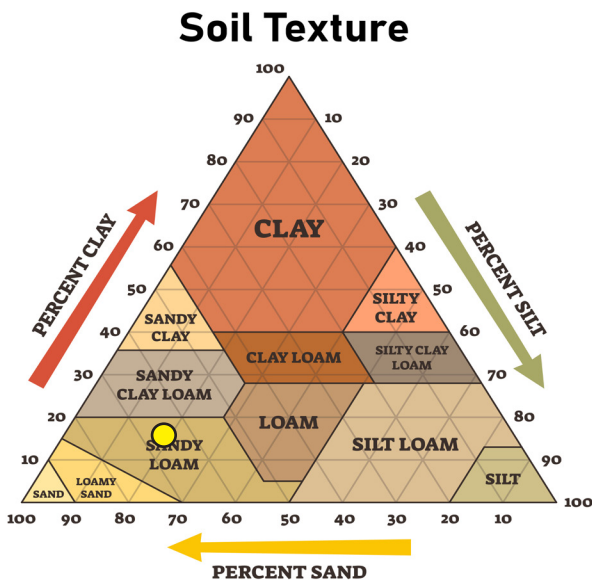
The location of the site is contained within two soil types, Ascalon-Vona Sandy Loams and Vona Loamy Sand.

Map Unit AvC Reference Soil information - Ascalon-Vona Sandy Loams

This soil is formed from wind-reworked alluvium and/or calcareous sandy eolian deposits. Landform is interfluves. Ecological Site Description is Sandy Plains. Soils are well drained with a moderate water holding capacity, and slope 1 to 5 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Particle Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-10	Sandy Loam	1.52	67-19-14	7.0	0.1	0.0	1.00
10-15	Sandy Clay Loam	1.56	57-18-25	7.2	0.1	0.0	0.60
15-21	Sandy Loam	1.57	62-20-18	8.2	0.1	0.0	0.48
21-35	Sandy Loam	1.56	65-21-14	8.2	0.1	0.0	0.10
35-80	Sandy Loam	1.64	75-11-14	8.2	0.1	0.0	0.10

Soil Texture Triangle reflect the 0-10 in depth



Erosion Potential (10 inches)

- K Factor, Whole soil - .24. 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 – 3. 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

Reference Soil Information

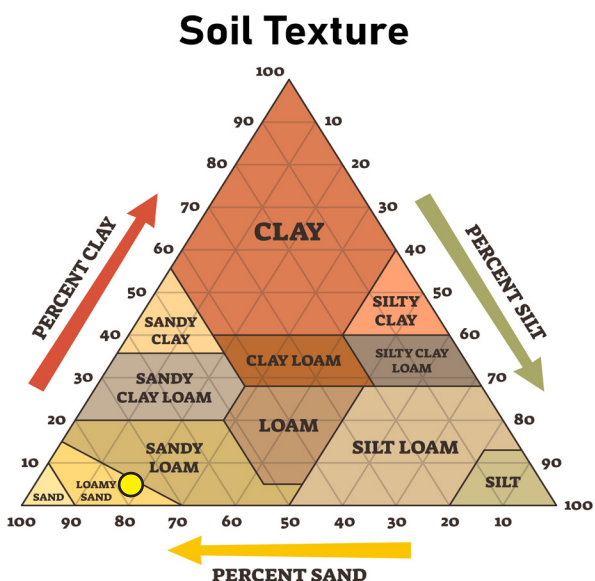
The location of the site is contained within two soil types, Ascalon-Vona Sandy Loams and Vona Loamy Sand.

Map Unit VnD Reference Soil information - Vona Loamy Sand

This soil is formed from eolian sands. Landform is hills and hillslopes. Ecological Site Description is Deep Sand. Soils are well drained with a moderate water holding capacity, and slope 3 to 9 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Particle Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-7	Loamy Sand	1.64	78-17-5	7.2	0.1	0.0	1.00
7-14	Sandy Loam	1.58	67-20-13	7.5	0.1	0.0	0.75
14-20	Sandy Loam	1.64	67-23-10	7.5	0.1	0.0	0.50
20-45	Sandy Loam	1.59	67-23-10	8.1	0.1	0.0	0.25
45-80	Loamy Sand	1.58	78-17-5	8.1	0.1	0.0	0.10

Soil Texture Triangle reflect the 0-10 in depth



Erosion Potential (10 inches)

- K Factor, Whole soil - .24. 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 – 2. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.