

Location Checklist



Operator / #	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
Location ID & Name	330775 BOULDER BANK-61N66W/7SWSE		
County	WELD, CO		
Well Information	Well Name:	BOULDER BANK #34-7	
	Well API #:	05-123-19601	
	Lat/Long as Drilled:	40.060778 / -104.817535	
	Plug Date & Form 6s Doc #:	07/12/2018, 401707118	
Facility Entities	<input checked="" type="checkbox"/> Tank Battery (Off-Site)	<input type="checkbox"/>	Pits
	<input checked="" type="checkbox"/> Wells	<input checked="" type="checkbox"/>	On-Location Flowlines (Form 42) Doc #: 401693223
	<input type="checkbox"/> Domestic Taps	<input checked="" type="checkbox"/>	Off-Location Flowlines (Form 44) Doc #: 401902791
Equipment On-Site	<input checked="" type="checkbox"/> None	<input type="checkbox"/>	Debris
	Pit mouse/rat holes, cellars backfilled		
Access Road	<input checked="" type="checkbox"/> Regraded	<input checked="" type="checkbox"/>	Contoured
	<input type="checkbox"/> Culverts removed	<input checked="" type="checkbox"/>	Gravel removed
	Pre-Existing (Must provide supporting documentation)		
Reclamation Status	<input checked="" type="checkbox"/> Location and associated disturbances reclaimed		
	<input type="checkbox"/> Subsidence		
Spills or Releases (Form 19)	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	Yes
Remediation (Form 27/27A)	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	Yes
On-Location Flowlines	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	Yes
Off-Location Flowlines	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	Yes
Inspection Corrective Actions	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	Yes
Sundry Notice	Form 4 Doc # & Date:	402506011 & 10/12/2020	
	Purpose:	Final Reclamation Complete, Site Ready for Inspection	
	Comments:	This form was prepared to document successful completion of final reclamation efforts. The primary access road north of the well is a pre-existing crop perimeter road. This remains for its historical use as field access. The secondary access road to the well has been fully reclaimed and returned to cropland. The associated centralized battery is permitted with Location ID 336420 . Please see the attached report (link below) for reclamation activities, details on the completed vegetation assessment, and photo documentation.	
	Attachments:	ECMC Vegetation Assessment Report Doc # 402506029 on 10/08/2020	
Drone Information	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	04/22/2021 (renewal, original 03/24/2018)	

**SITE-SPECIFIC QUALITY ASSURANCE
& QUALITY CONTROL AUDIT**



Final Reclamation Complete Notice – Cropland Drone Imagery

PERMIT CLOSURE REPORT – CROPLAND

Location ID 330775

Location Name BOULDER BANK-61N66W/7SWSE

Report Date

18 Dec 2023

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 2023 – Cabbage

Crop 2022 – Corn

Quality Assurance & Quality Control Audit

Auditor	Soil Sage
Audit Date	31 Oct 2023

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

Name	BOULDER BANK-61N66W/7SWSE		
Location ID	330775		
Operator / #	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
Field	WATTENBERG		
County, State	WELD, CO		
Lat/Long	40.060688 / -104.817630		
	<input checked="" type="checkbox"/>	Planned Location	As Drilled
Facility Status	CL	Location	SWSE 7 1N66W
Facility Status Date	07/12/2018		
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)
		Electric Utilities	
Equipment on Site	<input checked="" type="checkbox"/>	No	Yes
		If yes, list:	
		Pit mouse/rat holes, cellars backfilled	
Access Road	<input checked="" type="checkbox"/>	Regraded	<input checked="" type="checkbox"/> Contoured
		Culverts Removed	<input checked="" type="checkbox"/> Gravel Removed
		Pre-Existing: must provide supporting documentation	
Environment Incidents & Remediation	<input checked="" type="checkbox"/>	None	Spill or Release (Form 19)
		Remediation (Form 27/27A)	
Variance Requests	No Variance Requests were detected during this QA & QC Audit.		
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)	<p>Form 4 Doc # & Date: 402506011 & 10/12/2020</p> <ul style="list-style-type: none"> ○ Purpose: Final Reclamation Complete, Site Ready for Inspection ○ ECMC Approval Signee: Chris Binschus ○ Comments: This form was prepared to document successful completion of final reclamation efforts. The primary access road north of the well is a pre-existing crop perimeter road. This remains for its historical use as field access. The secondary access road to the well has been fully reclaimed and returned to cropland. The 		

	<p>associated centralized battery is permitted with Location ID 336420. Please see the attached report (link below) for reclamation activities, details on the completed vegetation assessment, and photo documentation</p> <ul style="list-style-type: none"> ○ Attachment: ECMC Vegetation Assessment Report Doc #402506029 on 10/08/2020
<p>On Location Flowlines (Form 42)</p>	<p>Form 42s were detected during the QA & QC Audit. See individual scout card data for details.</p>
<p>Off-Location Flowlines (Form 44)</p>	<p>Form 44 Doc # & Date: 401902791 & 01/11/2019</p> <ul style="list-style-type: none"> ○ Purpose: Flowline Abandonment ○ Abandonment Date: 12/28/2018 ○ ECMC Approval Date & Signee: None at time of audit – form only submitted. ○ Operator Comments: Flowline was disconnected from separator and wellhead. Both ends plugged below ground. <p>Flowline Facility Information</p> <ul style="list-style-type: none"> ○ ECMC Flowline ID: 459786 ○ Operator Flowline ID: 110720184 ○ Status & Date: AC & 02/12/2019 ○ Flowline Type: Wellhead Line ○ Type of Fluids Transported: Multiphase ○ Start Point Location ID: 330775 ○ Start Point Riser Lat/Long: 40.060783 / -104.817488 (BOULDER BANK #34-7) ○ Equipment at Start Point: Well ○ End Point Location ID: 336420 ○ End Point Riser Lat/Long: 40.062567 / -104.815232 (BOULDER BANK-N66W/7NESE) ○ Equipment at End Point: Separator
<p>Certification of Clearance and/or Change of Operator (Form 10)</p>	<p>Form 10 Doc # & Date: 400953950 & 10/04/2016</p> <ul style="list-style-type: none"> ○ Purpose: Notify COGCC of a Change of Operator for 239 Locations including this Location: 330775 ○ Sale Date: 07/29/2016 ○ Seller: ENCANA OIL & GAS (USA) INC ○ Buyer: CRESTONE PEAK RESOURCES OPERATING LLC ○ ECMC Approval Signee: Matthew Lee

<p>Field Inspection Form (Form INSP)</p>	<p>Form INSP Doc # & Date: 688402128 & 05/08/2019</p> <ul style="list-style-type: none"> ○ Status Summary: No Follow Up Inspection Required ○ Inspected Facilities: Well BOULDER BANK #34-7 ○ Inspection Status: PA ○ Inspection Date: 05/08/2019 ○ Inspector: Randy Silver ○ Comments: P&A well. At time of inspection Well site appears to be plowed over by farmer. Forms 42 and 6 are on file with the ECMC. <p>Form INSP Doc # & Date: 681900762 & 04/06/2016</p> <ul style="list-style-type: none"> ○ Status Summary: No Follow Up Inspection Required ○ Inspected Facilities: Well BOULDER BANK #34-7 ○ Inspection Status: PR ○ Inspection Date: 04/06/2016 ○ Inspector: Gary Helgeland ○ Note: Interim Reclamation Inspection In Process
<p>COGIS Tank Facilities Information (Scout Card)</p>	<p>No Tank Battery forms were detected during this QA & QC Audit. However, information regarding the associated centralized tank battery is referenced in Form 4 Doc # 402506011. The tank battery is associated with Location ID 336420 BOULDER BANK-61N66W/7NESE which is also the End Point Location of the Off-Location Wellhead Flowline ID 459786 that starts at Well BOULDER BANK #34-7 (see Form 44 Doc # 401902791).</p>
<p>COGIS Well Information (Scout Card)</p>	<p>Well Name: BOULDER BANK #34-7 API#: 05-123-19601 FACILITY ID: 251797</p> <ul style="list-style-type: none"> ○ Status & Date: PA & 07/12/2018 ○ Lat/Long As Drilled: 40.060778 / -104.817535 ○ Form 6 Subsequent Doc # & Date: 401707118 & 05/14/2019 Purpose: Subsequent Report of Abandonment ECMC Approval Signee: Nick McFarland Note: Flowline/Pipeline not abandoned. ○ Form 42 Doc # & Date: 401693223 & 07/03/2018 Purpose: Start of Plugging Operations

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
Reference Imagery for Infrastructure: DRCOG 2014	Remotely Sensed Imagery: 13 Apr 2023; 10 Oct 2023
Designation: Oil & Gas Facility	Designation: 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

The Off-Location Flowline for this location followed the farm road, that existed prior to oil and gas activity as a farm access road. The tank battery and separator fall outside the crop area along the west side of farm/ditch road. Vegetation in this area has recovered to similar or better than surrounding non-crop farm areas. Within the recovery there are native grasses and low weed concentrations.

Note – When viewing drone cardinals reference included map to show the patch of weeds visible is south of the disturbance extent, not inside the disturbance extent.

Closure Information

BOULDER BANK #34-7 well (API #[05-123-19601](#)) is located in Weld County, Colorado off of Highway 85 south of Fort Lupton. There is an Off-Location Flowline between this well and the production facility at Location ID [336420](#) BOULDER BANK-61N66W /7NESE.

BOULDER BANK #34-7 well (API #[05-123-19601](#)) was plugged and abandoned on 07/12/2018. The access road was reclaimed at this time. The related facility, where the production facility was located, [336420](#) BOULDER BANK-61N66W /7NESE, was closed and reclaimed in 2019. The access road for this location was a short well access road leading to a pre-existing farm and residential access road. The well access road was reclaimed and the pre-existing farm access road is still in use.

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	0.11
Access Road	0.08
Flowline	Not Included
Tank Battery	Off-Site (Loc ID 336420)
Well Pad	0.03

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	04/22/2021 (renewal, original 03/24/2018)

Pre-Infrastructure Overview



Infrastructure
 Facility – CL – 07/12/2018
 Well – PA – 07/12/2018
 Tank Battery – see report for 336420
 Pit – NA
 Road – Oil and Gas Access
 On-Location FLO – 401693223 – 07/03/2018
 Off-Location FLO – 401902791 – 01/11/2019
 Environmental – NA

CIV - 330775- BOULDER BANK
Map Extent - Pre-Existing
Infrastructure Overview

Imagery: USGS
 Imagery Date: 5 Jul 1978
 Map Date: 14 Dec 2023
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

- ◆ Wells
- ▭ Road

0 60 120 Meters

Scale: 1:2,000

Pad Location:
 40.062588
 -104.814760



Service Credits - Maxar, Microsoft

Pre-Plugging Active Operations Location Overview



RPN - 13332

Tank Battery

Separator

Flowline (Inferred)

Farm Road

Well Access Road - 0.08 ac

Historic Disturbance Extent - 0.03 ac

Infrastructure
 Facility - CL - 07/12/2018
 Well - PA - 07/12/2018
 Tank Battery - see report for 336420
 Pit - NA
 Road - Oil and Gas Access
 On-Location FLO - 401693223 - 07/03/2018
 Off-Location FLO - 401902791 - 01/11/2019
 Environmental - NA

**CIV - 330775- BOULDER BANK
 Map Extent - Pre-Plugging Overview**

Imagery: DRCOG
 Imagery Date: 2014
 Map Date: 14 Dec 2023
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

- ◆ Wells
- ▲ Remediation
- Flowline
- ▭ Historic Disturbance Extent
- ▭ Road
- ▭ Separator

0 40 80 Meters

Scale: 1:1,500

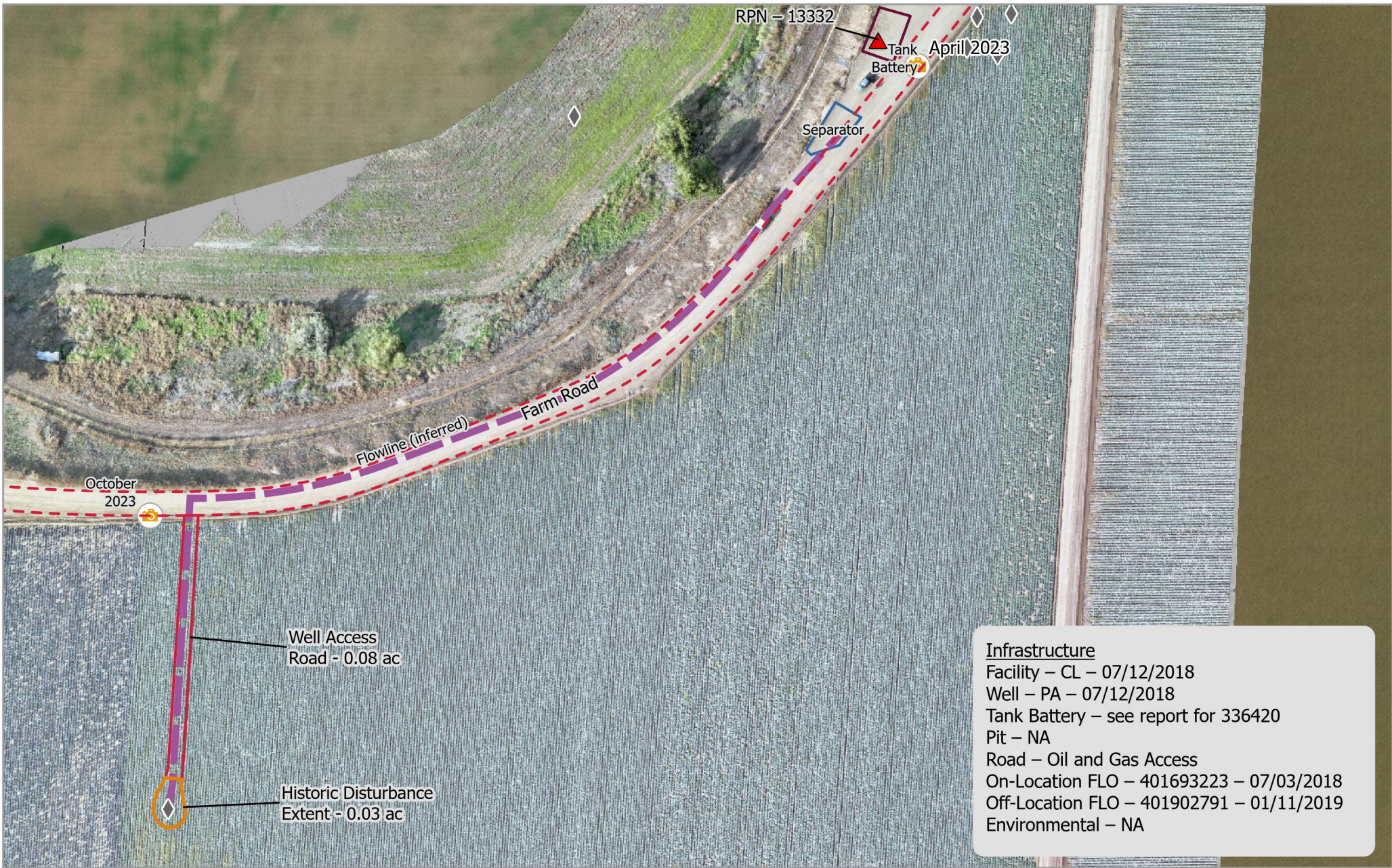
Pad Location:
 40.060688
 -104.817630

N



Service Credits - Maxar, Microsoft

Post-Plugging and Abandonment Location Overview



RPN - 13332

April 2023

October 2023

Well Access Road - 0.08 ac

Historic Disturbance Extent - 0.03 ac

Infrastructure
 Facility - CL - 07/12/2018
 Well - PA - 07/12/2018
 Tank Battery - see report for 336420
 Pit - NA
 Road - Oil and Gas Access
 On-Location FLO - 401693223 - 07/03/2018
 Off-Location FLO - 401902791 - 01/11/2019
 Environmental - NA

CIV - 330775- BOULDER BANK
Map Extent - Post-Plugging Flowline
Overview

Imagery: RS Orthomosaic & DSM
 Imagery Date: 10 Oct 2023
 Map Date: 14 Dec 2023
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

- ◆ Wells
- ▲ Remediation
- 📷 Photo Points
- Flowline
- Historic Disturbance Extent
- ▭ Road
- ▭ Separator
- ▭ Tank Battery

0 40 80 Meters

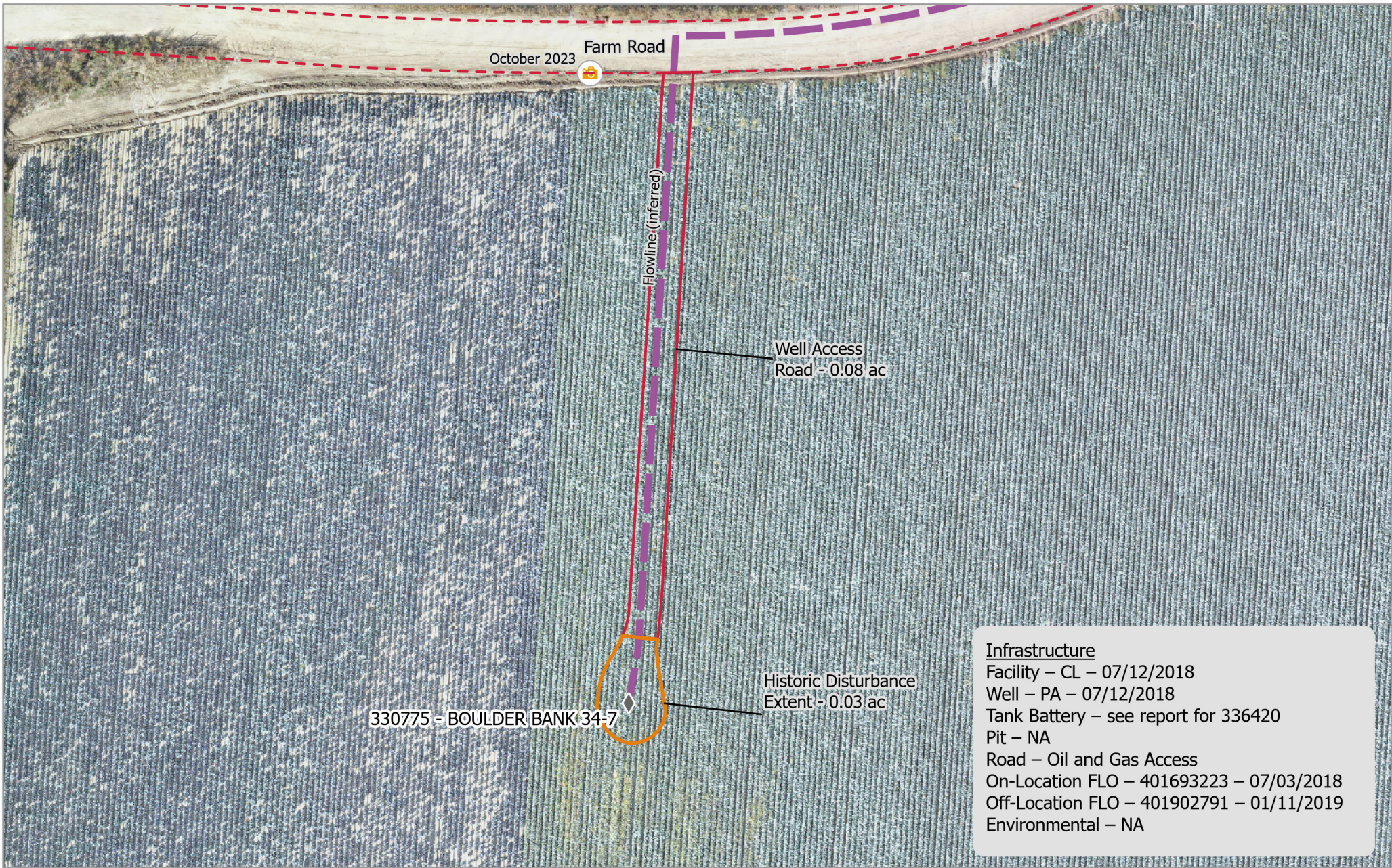
Total Disturbance:
0.11 Acres

Scale: 1:1,500

Pad Location:
40.060688
-104.817630



Service Credits - Maxar, Microsoft



Infrastructure
 Facility – CL – 07/12/2018
 Well – PA – 07/12/2018
 Tank Battery – see report for 336420
 Pit – NA
 Road – Oil and Gas Access
 On-Location FLO – 401693223 – 07/03/2018
 Off-Location FLO – 401902791 – 01/11/2019
 Environmental – NA

**CIV - 330775- BOULDER BANK
 Map Extent - Post-Plugging Overview**

Imagery: RS Orthomosaic & DSM
 Imagery Date: 10 Oct 2023
 Map Date: 14 Dec 2023
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

- Wells
- Photo Points
- Flowline
- Historic Disturbance Extent
- Road

0 20 40 Meters

Total Disturbance: 0.11 Acres
 Scale: 1:700

Pad Location: 40.060688
 -104.817630



Service Credits - Maxar, Microsoft

Cardinal Directional Drone Photos & Reference Area Photos

Site Investigation and Photos Date

10 Oct 2023

Drone Photo Height

105 feet

Cardinal directional photos of the site. Reference overview map.



In View – Well, Access Road, Flowline

NORTH – 40.059979 / -104.817758



In View – Well, Access Road, Flowline

EAST – 40.060673 / -104.818644



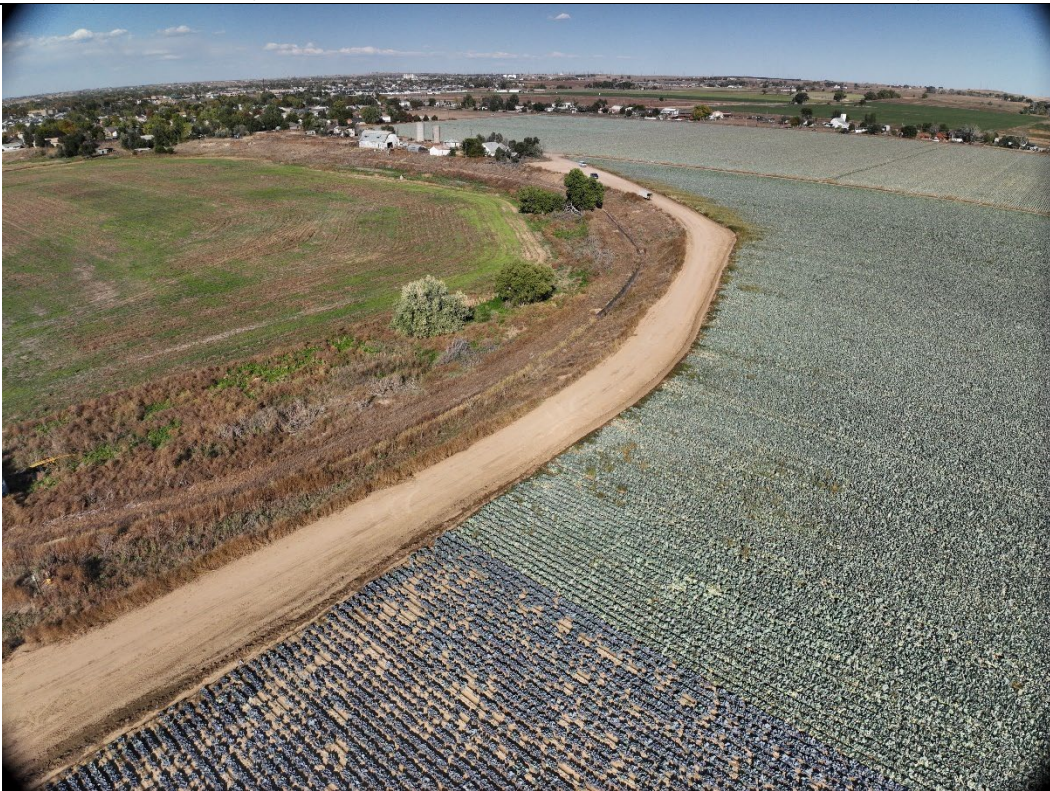
In View – Well, Access Road, Flowline

SOUTH – 40.061288 / -104.817546



In View – Well, Access Road, Flowline

WEST – 40.060640 / -104.816652



In View – Tank Battery, Flowline

NORTHEAST – 40.061171 / -104.818081



In View – Access Road, Flowline

NORTHWEST – 40.060867 / -104.817491



In View – Tank Battery, Flowline

NORTH – 40.062732 / -104.814750



In View – Tank Battery, Flowline

WEST – 40.062733 / -104.814752

Well – Handheld Photographic Evidence

Site Investigation and Photos Date

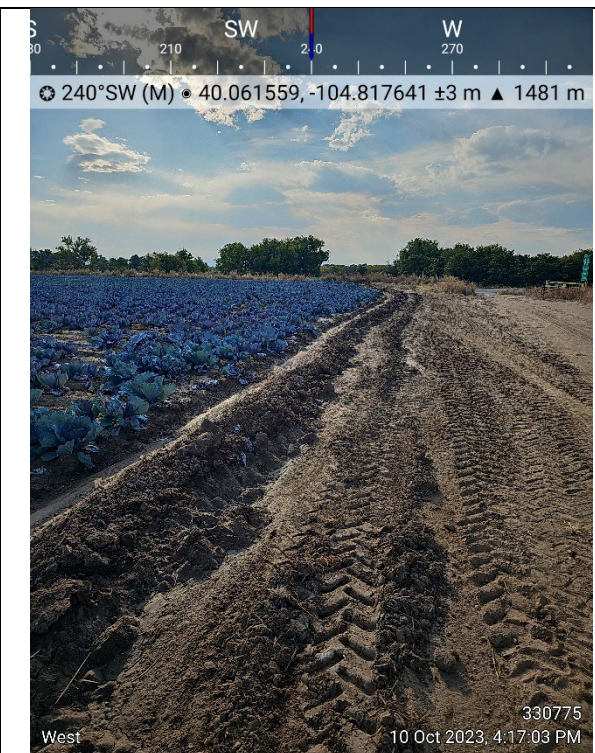
10 Oct 2023

Handheld photos taken from farm access road looking towards Boulder Bank 34-7 wellhead.
No handheld photos were taken from Boulder Bank 34-7 wellhead location due to crop height.

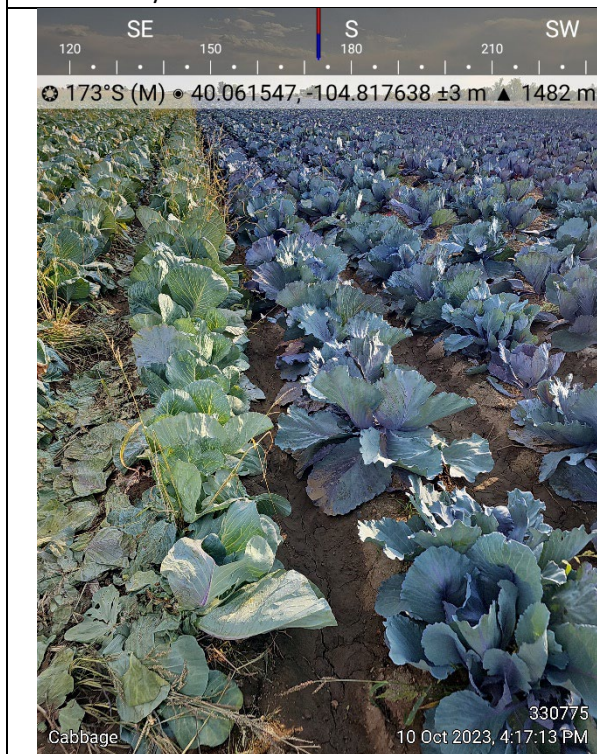




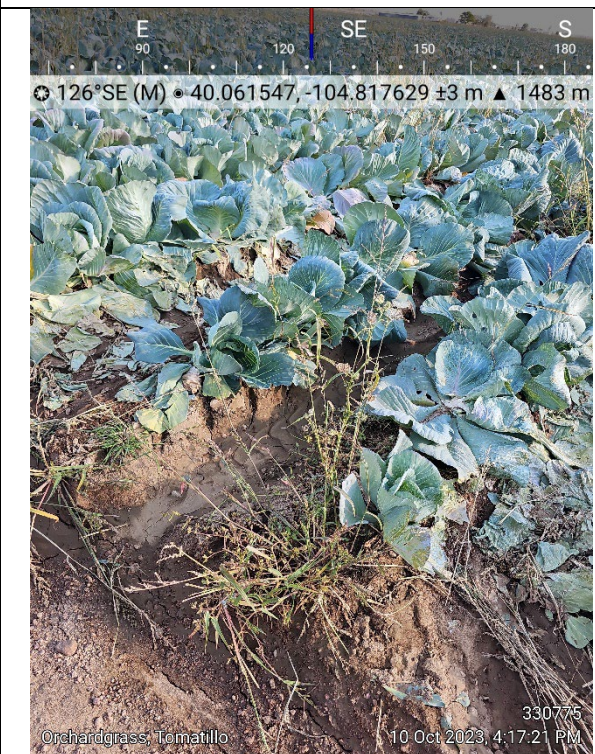
Looking south from farm access road towards wellhead, access road and flowline – 40.061561 / -104.817609



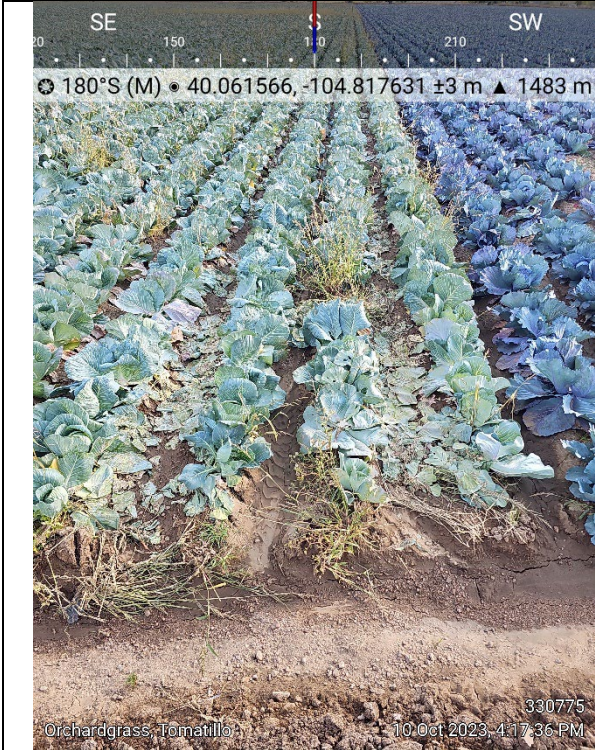
Looking west from farm access road north of wellhead – 40.061559 / -104.817641



Looking South into cabbage field towards wellhead from farm access road – 40.061547 / -104.817638



Orchardgrass – *Dactylis glomerata* and Tomatillo – *Physalis philadelphica* growing in cabbage field near wellhead – 40.061547 / -107817629





Orchardgrass – *Dactylis glomerata* and Tomatillo – *Physalis philadelphica* growing in cabbage field near wellhead – 40.061566 / -104.817631

Off-Location Tank Battery Outside Cropland – Handheld Photographic Evidence

Site Investigation and Photos Date

10 Oct 2023

Handheld photos taken from tank battery and separator location on farm access road.

	
<p>Looking North towards tank battery and separator location from farm access road – 40.062877 / -104.814963</p>	<p>Looking East at tank battery and separator location – 40.062921 / -104.814978</p>



Looking South looking at tank battery and separator location – 40.062912 / -104.814971



Looking West looking at tank battery and separator location – 40.062903 / -104.814972

Off-Location Tank Battery Outside Cropland – Handheld Photographic Evidence

Site Investigation and Photos Date

13 Apr 2023

Handheld photos taken from farm access road looking towards wellheads, tank battery and separator.

	
<p>Looking North from well pad towards tank battery and separator – 40.062740 / -104.814968</p>	<p>Looking East at well pad from farm access road – 40.062733 / -104.814963</p>



Looking South at well pads from tank battery and separator location – 40.062731 / -104.814968



Looking West from well pad towards tank battery and separator location – 40.062729 / -104.814965

Cardinal Directional Drone Photos Showing No Equipment Remaining

Site Investigation and Photos Date

13 Apr 2023

Drone Photo Height

350 feet

Cardinal directional photos of the site. Reference overview map.





In View – Well, Access Road, Flowline

EAST – 40.060555 / -104.818037



In View – Well, Access Road, Flowline

SOUTH – 40.062615 / -104.817281



In View – Well, Access Road, Flowline

WEST – 40.060830 / -104.81518



In View – Tank Battery, Flowline

NORTH – 40.060827 / -104.814781



In View – Tank Battery, Flowline

EAST – 40.06251 / -104.816906



In View – Tank Battery, Flowline

SOUTH – 40.064362 / -104.814775



In View – Tank Battery, Flowline

WEST – 40.062838 / -104.812665

ATTACHMENTS

Maps and Figures

Area Maps

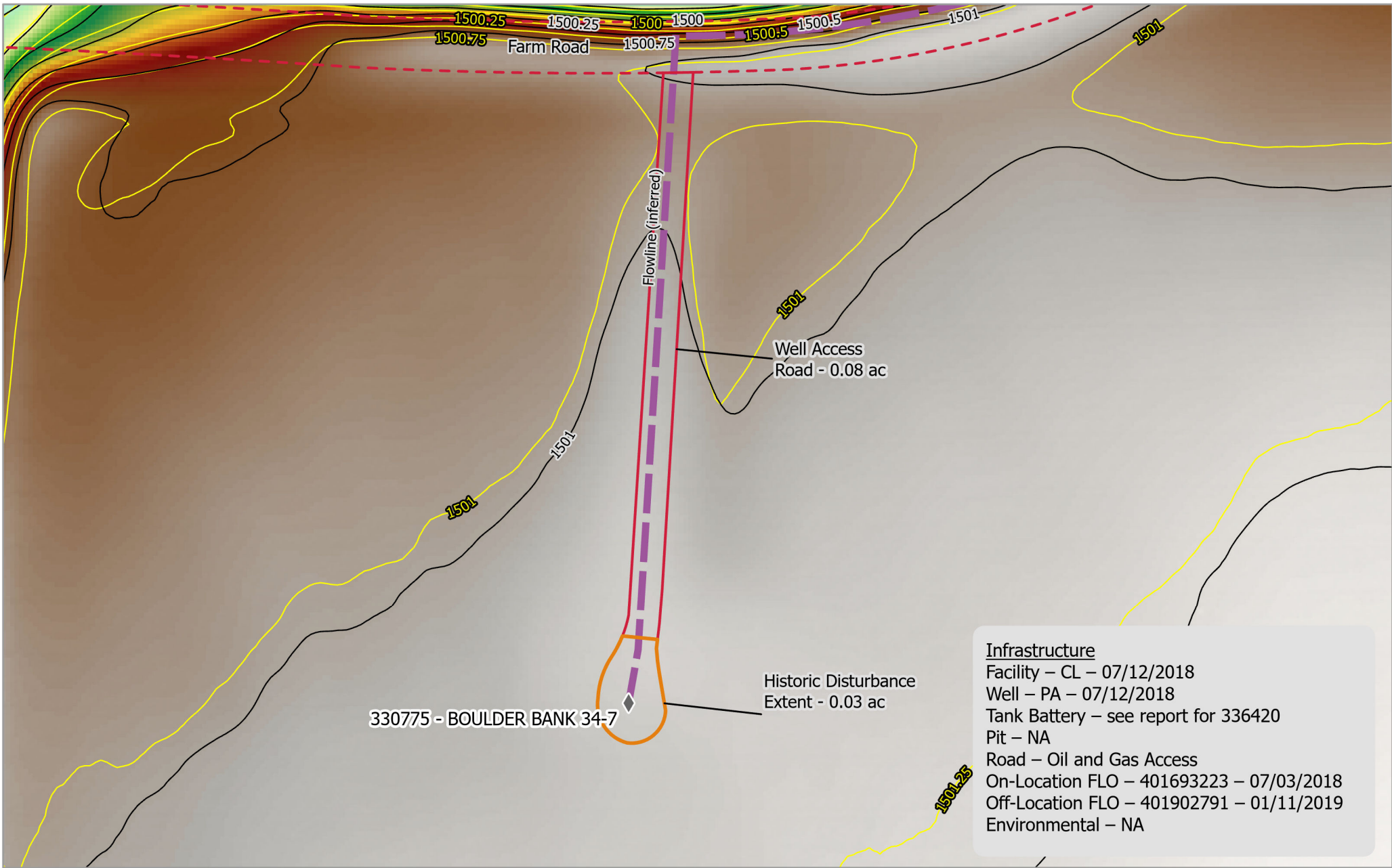
Elevation & Contours

Hydrology

Background Information

Natural Resources Conservation Service (NRCS) Map Unit Description

Reference Soil Document



Infrastructure
 Facility – CL – 07/12/2018
 Well – PA – 07/12/2018
 Tank Battery – see report for 336420
 Pit – NA
 Road – Oil and Gas Access
 On-Location FLO – 401693223 – 07/03/2018
 Off-Location FLO – 401902791 – 01/11/2019
 Environmental – NA

**CIV - 330775- BOULDER BANK
 Map Extent - Elevation & Contours**

Imagery: USGS, DRCOG Elevation
 Imagery Date: 2013, 2020
 Map Date: 14 Dec 2023
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

◆ Wells	Elevation
~ 0.25 Meter Contours (2020)	Meters
~ 0.25 Meter Contours (2013)	1504
— Flowline	1493
▭ Historic Disturbance Extent	
▭ Road	

0 20 40 Meters

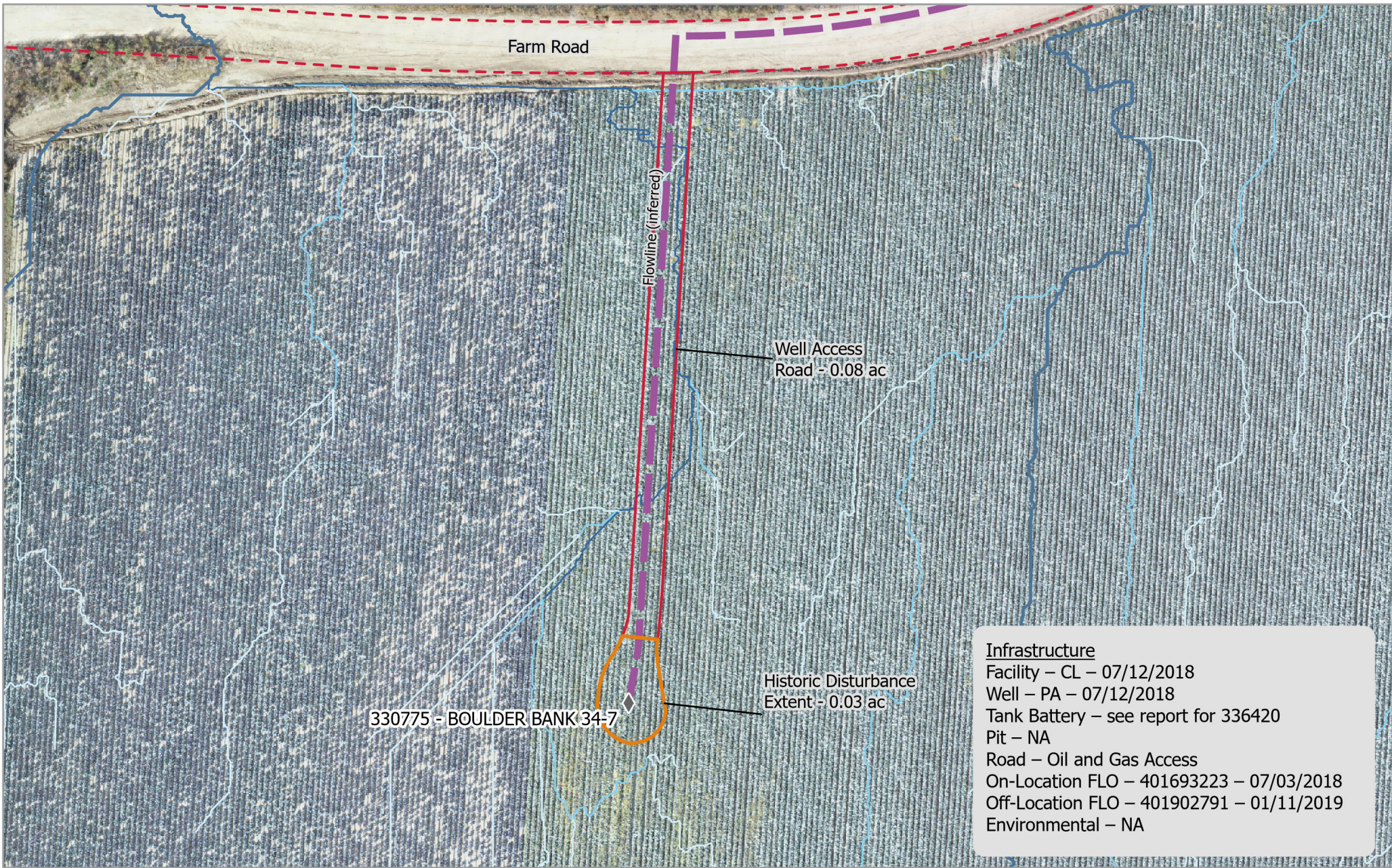
Scale: 1:700

Pad Location:
 40.060688
 -104.817630

N

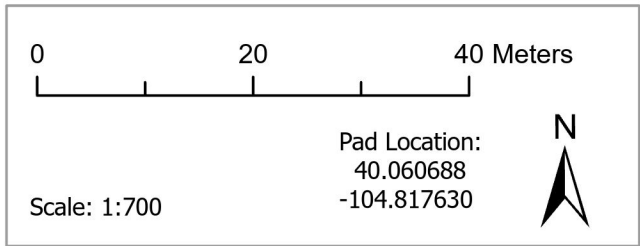
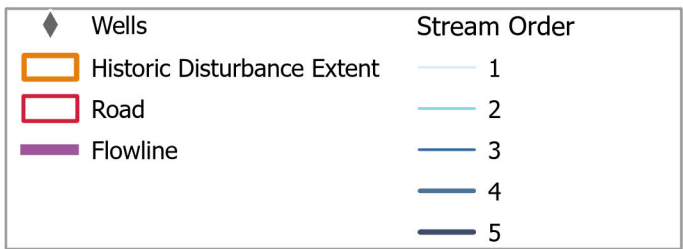


Service Credits - Maxar, Microsoft



**CIV - 330775- BOULDER BANK
 Map Extent - Hydrology**

Imagery: DRCOG Elevation, RS Orthomosaic
 Imagery Date: 2020, 10 Oct 2023
 Map Date: 14 Dec 2023
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage



Service Credits - Maxar, Microsoft

Soil Properties

USDA Soil Description

Location ID / Name	330775 - BOULDER BANK-61N66W/7SWSE
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Reference Soil Information

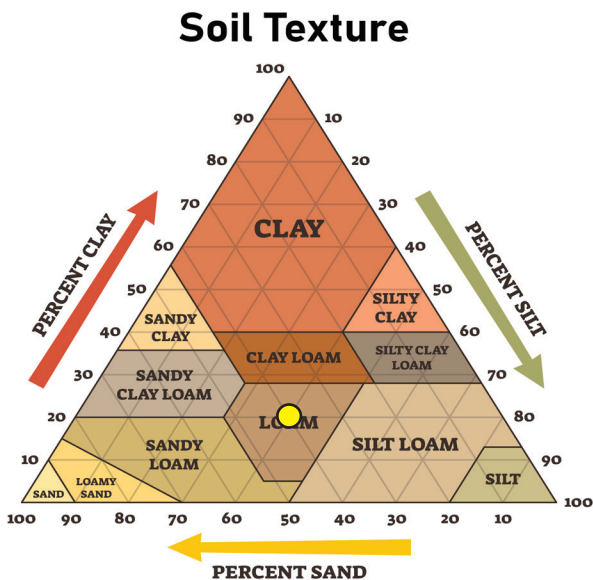
The location of the site is contained within one soil type, Altvan Loam

Map Unit VnD Reference Soil information - Altvan Loam

This soil is formed from Old alluvian. Landform is terraces. Ecological Site Description is Loamy Plains. Soils are well drained with a low water holding capacity, and slope 0 to 1 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Partical Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-10	Loam	1.33	42-38-20	7.2	0.0	0.0	1.50
10-20	Clay Loam	1.33	35-38-28	7.2	0.0	0.0	0.75
20-30	Clay Loam	1.43	64-20-16	7.5	0.0	0.0	0.51
30-40	Gravelly Sand	1.53	96-2-3	7.9	0.0	0.0	0.25
40-50	Gravelly Sand	1.53	96-2-3	7.9	0.0	0.0	0.25
50 +	Gravelly Sand	1.53	96-2-3	7.9	0.0	0.0	0.25

Soil Texture Triangle reflect the 0-10 in depth



Erosion Potential (10 inches)

- K Factor, Whole soil - .28. 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.