

# SITE-SPECIFIC QUALITY ASSURANCE & QUALITY CONTROL AUDIT

## Permit Closure Type – Final



## PERMIT CLOSURE REPORT – DESIGNATION LAND USE CHANGE

Location ID - 320768

Location Name – UPRC-64S64W 21NENW

### Report Date

7 Nov 2022

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.

### Initial Job Assignment

Client	CIVITAS Resources
Work Assignment	179 Site Permit Closures
Date	July 20, 2022

### Quality Assurance & Quality Control Audit

Auditor	Soil Sage
Audit Date	11/03/2022

### Audit Methodology

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

- ✓ Original List (spreadsheet) of proposed 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>	UPRC-64S64W 21NENW		
<b>Location ID</b>	320768		
<b>Operator / #</b>	AXIS EXPLORATION LLC / 10646		
<b>Field</b>	CHALICE 10775		
<b>County / State</b>	ARAPAHOE / CO	<b>Lat/Long</b>	39.69320594 / -104.558134
<b>Facility Status</b>	AC	<b>Location</b>	NENW 21 4S64W
<b>Facility Status Date</b>	02/27/2019	<b>Access Road</b>	Oil & Gas access road
<b>Facility Entities</b>	<input checked="" type="checkbox"/> Tank Battery	<input type="checkbox"/> Pits	
	<input checked="" type="checkbox"/> Wells	<input checked="" type="checkbox"/> Off-Location Flowlines	
	<input type="checkbox"/> Domestic Taps	<input checked="" type="checkbox"/> Flowlines	
<b>Environment Incidents &amp; Remediation</b>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Spill or Release ( <b>Form 19</b> )	
	<input type="checkbox"/> Remediation ( <b>Form 27</b> )		
<b>Sundry Notice (Form 4)</b>	<b>Form 4s exist for Related Facilities.</b> See individual scout card data for report details.		
<b>On-Location Flowlines (Form 42)</b>	<b>Form 42s exist for Site Related Facilities.</b> See individual scout card data below for report details.		
<b>Off-Location Flowlines (Form 44)</b>	<p><b>Form 44 Doc # &amp; Date</b> – 401938575 – 02/13/2019</p> <ul style="list-style-type: none"> <li>○ <b>Purpose / Action Type</b> – Abandonment</li> <li>○ <b>Abandonment Date</b> – 07/30/2018</li> <li>○ <b>Description of Abandonment</b> – The entire 2" Steel and 1" Poly line were removed.</li> <li>○ <b>Status</b> – Documents only submitted to COGCC. No official Approval of receipt of these documents found in COGIS.</li> </ul> <p><b>Flowline Facility Information</b></p> <ul style="list-style-type: none"> <li>○ <b>COGCC Flowline ID</b> – 459569</li> <li>○ <b>Operator Flowline ID</b> – 00506964FL</li> <li>○ <b>Status &amp; Date</b> – AC – 02/27/2019</li> <li>○ <b>Type of Fluids Transported</b> – Multiphase</li> <li>○ <b>Start Point Location ID</b> – 320768 – Well Site/Production Facilities</li> <li>○ <b>Start Point Riser Lat/Long</b> – 39.693191 / -104.558126</li> </ul>		

	<ul style="list-style-type: none"> <li>○ <b>Equipment at Start Point – Well</b></li> <li>○ <b>End Point Location ID – 320768 – Well Site/Production Facilities</b></li> <li>○ <b>End Point Riser Lat/Long – 39.693528 / -104.558132</b></li> <li>○ <b>Equipment at End Point – Separator</b></li> </ul>
	<p><b>Form 44 Doc # &amp; Date – 401827845 – 11/09/2018</b></p> <ul style="list-style-type: none"> <li>○ <b>Purpose – Registration</b></li> <li>○ <b>Note – This is the corresponding registration form to Doc # 401938575.</b></li> </ul>
<b>COGIS Well Information (Scout Card)</b>	<p><b>Well – UPRC #21X-21 FACILITY ID 204879</b></p> <ul style="list-style-type: none"> <li>○ <b>Well Status &amp; Date – PA – 06/28/2018</b></li> <li>○ <b>Form 6 Subsequent – Doc # &amp; Date – 4017212691 – Approved on 12/26/2018 by Eric Jacobson.</b></li> <li>○ <b>Form 42 – Doc # &amp; Date – 401742256 submitted on 08/23/2018 Purpose – Flowlines Abandoned. Completed on 07/30/2018.</b></li> <li>○ <b>Form 42 – Doc # &amp; Date – 401681263 on 06/21/2018 Purpose – Start of Plugging Operations 48 Hours notice.</b></li> <li>○ <b>Form 4 – Doc # – 401445467 Purpose – Digital well log upload. Operator – Bayswater Exploration &amp; Production LLC. Approved – 11/15/2017 by Andrew Stone</b></li> <li>○ <b>Form 4 – Doc # – 401272699 Purpose – Interim Reclamation Complete. Site ready for Inspection. Approved – 07/03/2017 by Chris Binschus</b></li> </ul>

## Audit Key Findings - Designation Land Use Change Observations

PREVIOUS LAND USE	CURRENT LAND USE
Reference Imagery for Infrastructure – DRCOG 2014	Remotely Sense Imagery – 09/24/2022
Designation – Well Pad	Designation – Homestead

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

EarthExplorer, DRCOG 2010 - 2014, NAIP Imagery 2011, 2013, 2015, 2017, 2019, 2021, ESRI Maxar and Remotely Sensed Imagery Sep 2022

## Closure Information

Tank battery was on-site, no related documents were found within the database.



# ATTACHMENTS

## Maps and Figures

### *Area Maps*

Previous Infrastructure Overview

Current Site 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

# Soil Properties

## USDA Soil Description

**Location ID / Name**

320768 - UPRC-64S64W  
21NENW

### Reference Soil Information

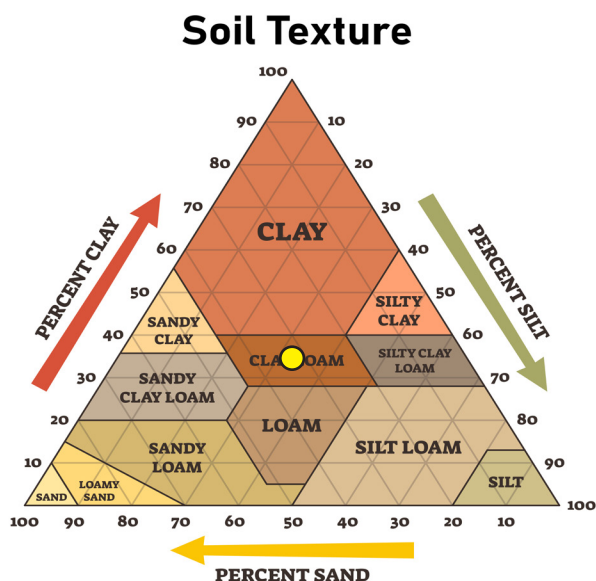
The location of the site is contained within one soil type, Renohill-Buick loams.

### Map Unit RhD Reference Soil information - Renohill-Buick loams

This soil is formed from loam silty and clayey alluvium, alluvium and/or eolian deposits. Landform is drainageways, ridges, with the Loamy Plains Ecological Site. Soils are well drained with a low to high water holding capacity, and slope 3-9 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Partial Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-10	Loam	1.3	31-33-36	7.2	0.0	0.0	1.05
10-20	Clay, Clay Loam	1.29	28-30-42	7.3	0.2	0.0	0.70
20-30	Clay Loam, Sandy Clay Loam	1.33	37-36-27	7.9	1.0	0.0	0.50
30-40	Unweathered Bedrock, Sandy Clay Loam						
40-50	Sandy Clay Loam						
50 +	Sandy Clay Loam						

### 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.





Infrastructure  
 Facility – AC – 2/27/2019  
 Well – PA – 6/28/2018  
 Tank Battery – Present – No Docs  
 Pit - NA  
 Road – Oil and Gas Access  
 On-Location FLO – 401742256 7/30/2018  
 Off-Location FLO – 401938575– 7/30/2018  
 Environmental – NA

Service Credits - Maxar, Microsoft

## CIV - 320768- UPRC Map Extent - DRCOG 2014

Imagery: DRCOG  
 Imagery Date: 2014  
 Map Date: 10 Nov 2022  
 Datum: NAD\_1983\_UTM\_Zone\_13N  
 POC: Soil Sage

## Legend

- ◆ Wells
- ▭ Disturbance Extent
- ▭ Road
- ▭ Tank Battery
- ▭ Separator

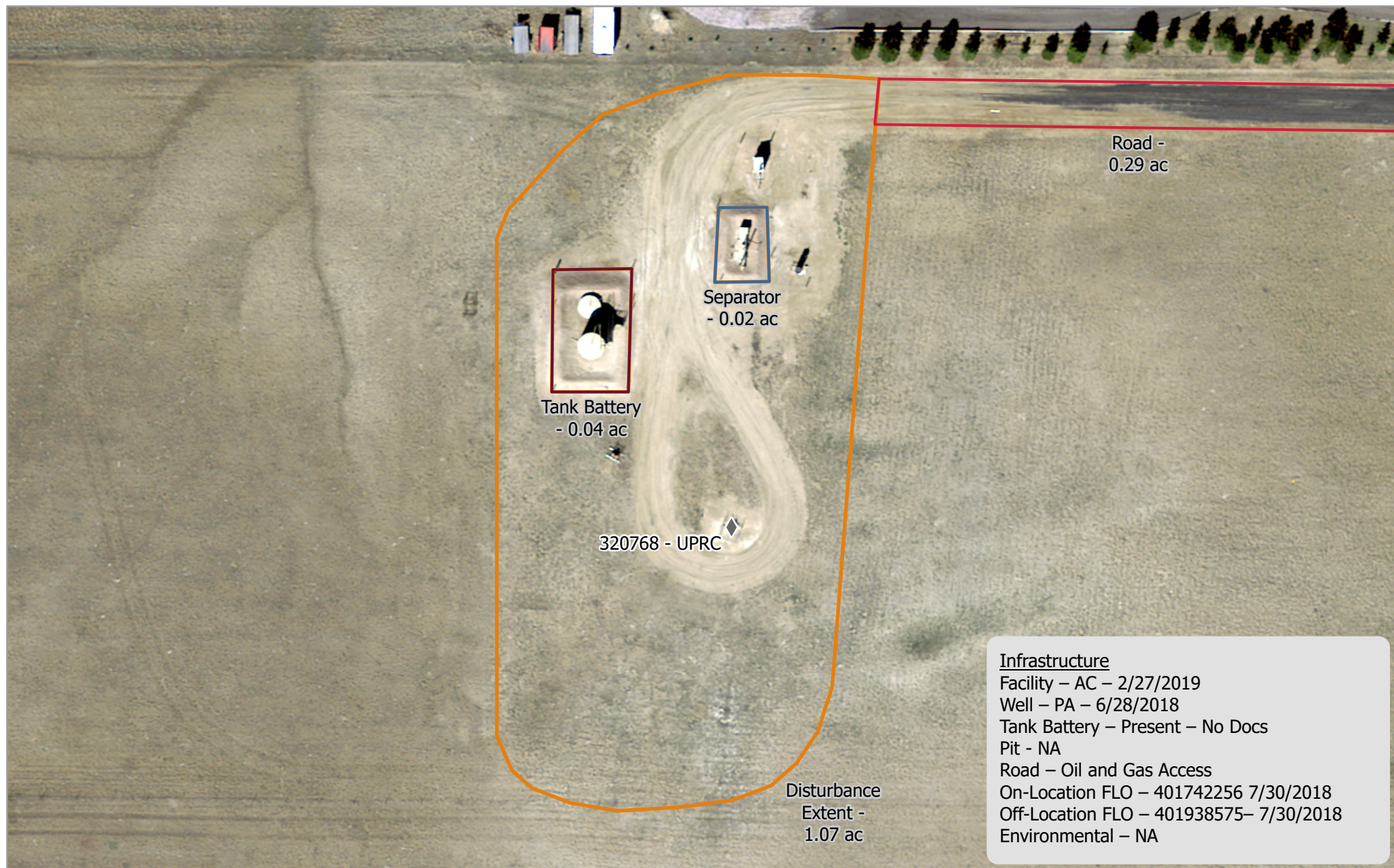
0 0.01 0.01 0.03 Miles

Overall Disturbance:  
 1.42 Acres  
 Scale: 1:1,000

Pad Location:  
 39.69320594  
 -104.558134







Service Credits - Maxar, Microsoft

## CIV - 320768- UPRC Map Extent - DRCOG 2014

Imagery: DRCOG  
 Imagery Date: 2014  
 Map Date: 10 Nov 2022  
 Datum: NAD\_1983\_UTM\_Zone\_13N  
 POC: Soil Sage

### Legend

- ◆ Wells
- ▭ Disturbance Extent
- ▭ Road
- ▭ Tank Battery
- ▭ Separator

0 0.01 0.01 0.02 Miles

Overall Disturbance:  
 1.42 Acres  
 Scale: 1:700

Pad Location:  
 39.69320594  
 -104.558134







#### Infrastructure

Facility – AC – 2/27/2019

Well – PA – 6/28/2018

Tank Battery – Present – No Docs

Pit - NA

Road – Oil and Gas Access

On-Location FLO – 401742256 7/30/2018

Off-Location FLO – 401938575– 7/30/2018

Environmental – NA

Service Credits - Maxar, Microsoft

## CIV - 320768- UPRC Map Extent - Overview

Imagery: RS Orthomosaic & DSM

Imagery Date: 24 Sep 2022

Map Date: 10 Nov 2022

Datum: NAD\_1983\_UTM\_Zone\_13N

POC: Soil Sage

## Legend

◆ Wells

Disturbance Extent

Road

Tank Battery

Separator

0 0.01 0.01 0.03 Miles

Overall Disturbance:

1.42 Acres

Scale: 1:1,000

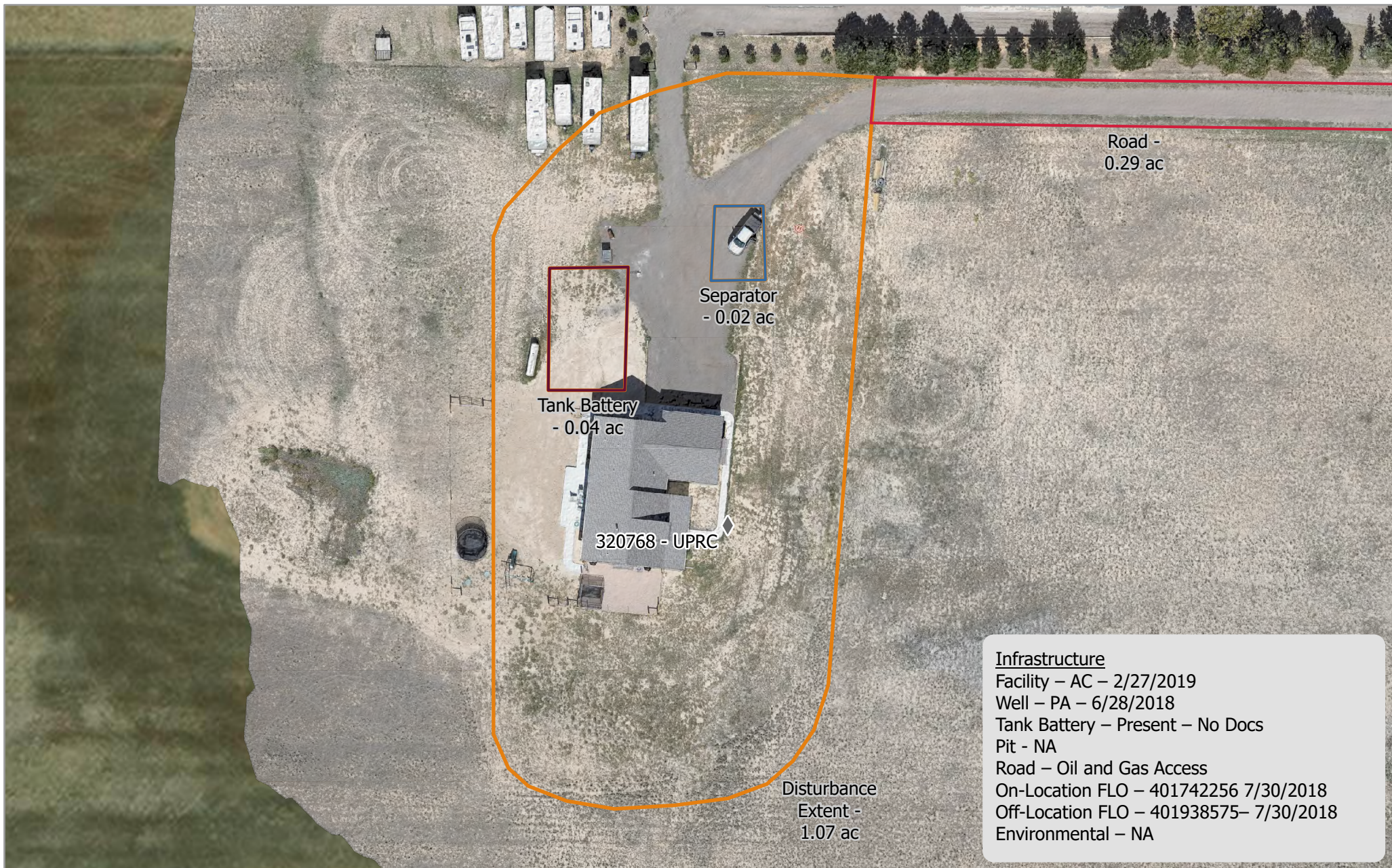
Pad Location:

39.69320594

-104.558134







## CIV - 320768- UPRC Map Extent - Overview

Imagery: RS Orthomosaic & DSM  
 Imagery Date: 24 Sep 2022  
 Map Date: 10 Nov 2022  
 Datum: NAD\_1983\_UTM\_Zone\_13N  
 POC: Soil Sage

### Legend

- ◆ Wells
- ▭ Tank Battery
- ▭ Disturbance Extent
- ▭ Separator
- ▭ Road

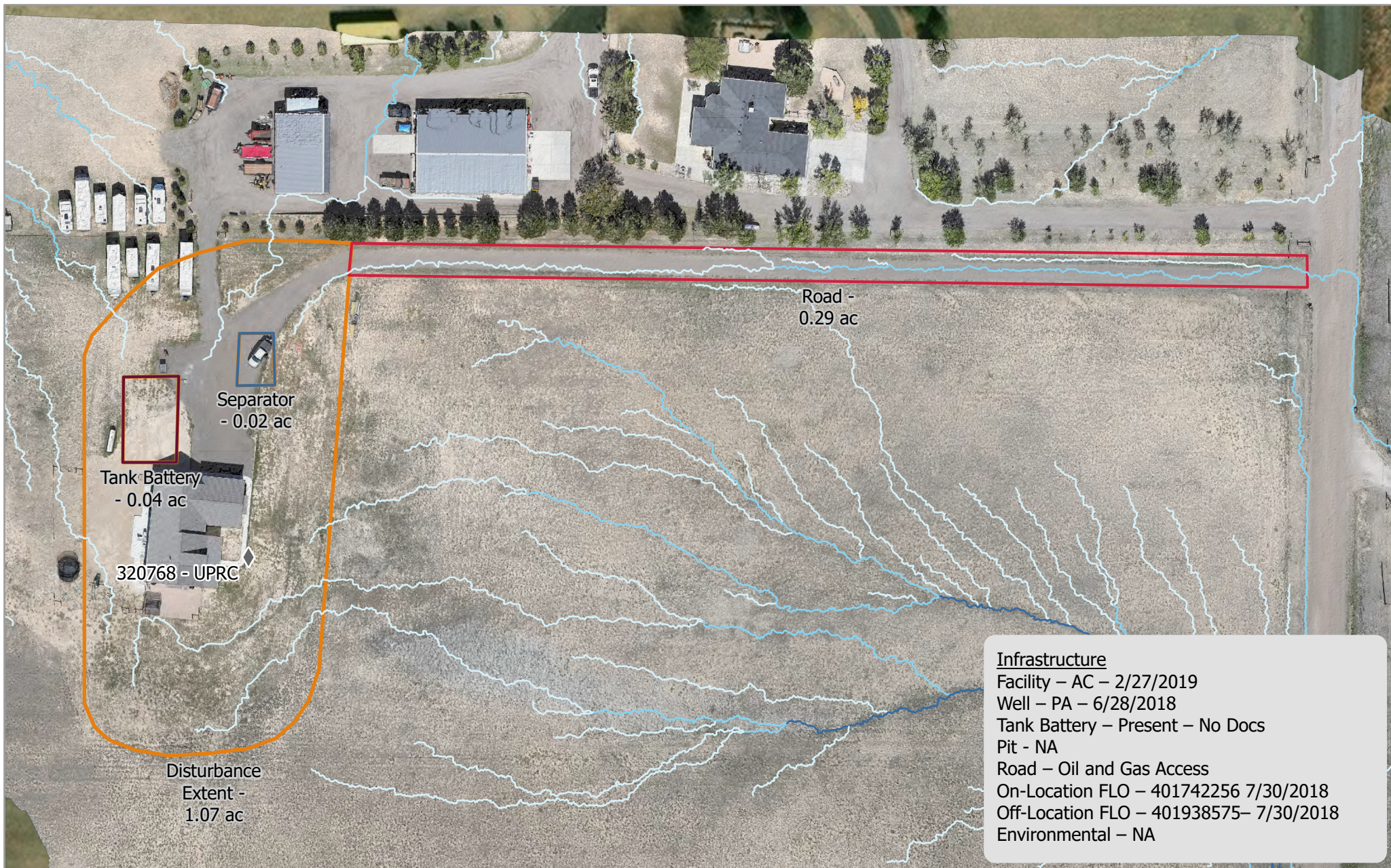
0 0.01 0.01 0.02 Miles

Overall Disturbance:  
 1.42 Acres  
 Scale: 1:700

Pad Location:  
 39.69320594  
 -104.558134

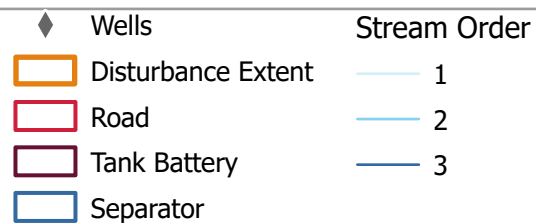






## CIV - 320768- UPRC Map Extent - Hydrology

Imagery: RS Orthomosaic & DSM  
 Imagery Date: 24 Sep 2022  
 Map Date: 10 Nov 2022  
 Datum: NAD\_1983\_UTM\_Zone\_13N  
 POC: Soil Sage



0 0.01 0.01 0.03 Miles

Overall Disturbance:  
1.42 Acres  
Scale: 1:1,000

Pad Location:  
39.69320594  
-104.558134



Service Credits - Maxar, Microsoft