

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

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

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

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
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Reference Soil Information

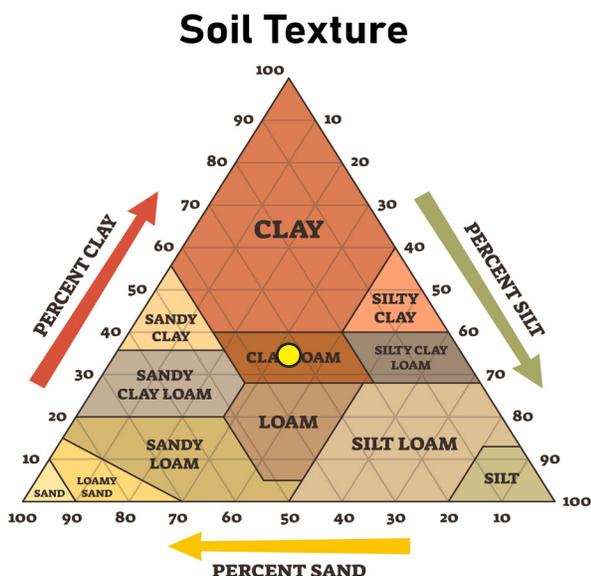
The location of the site is contained within one soil type, Renohill-Buick loams.

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	Partical 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

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

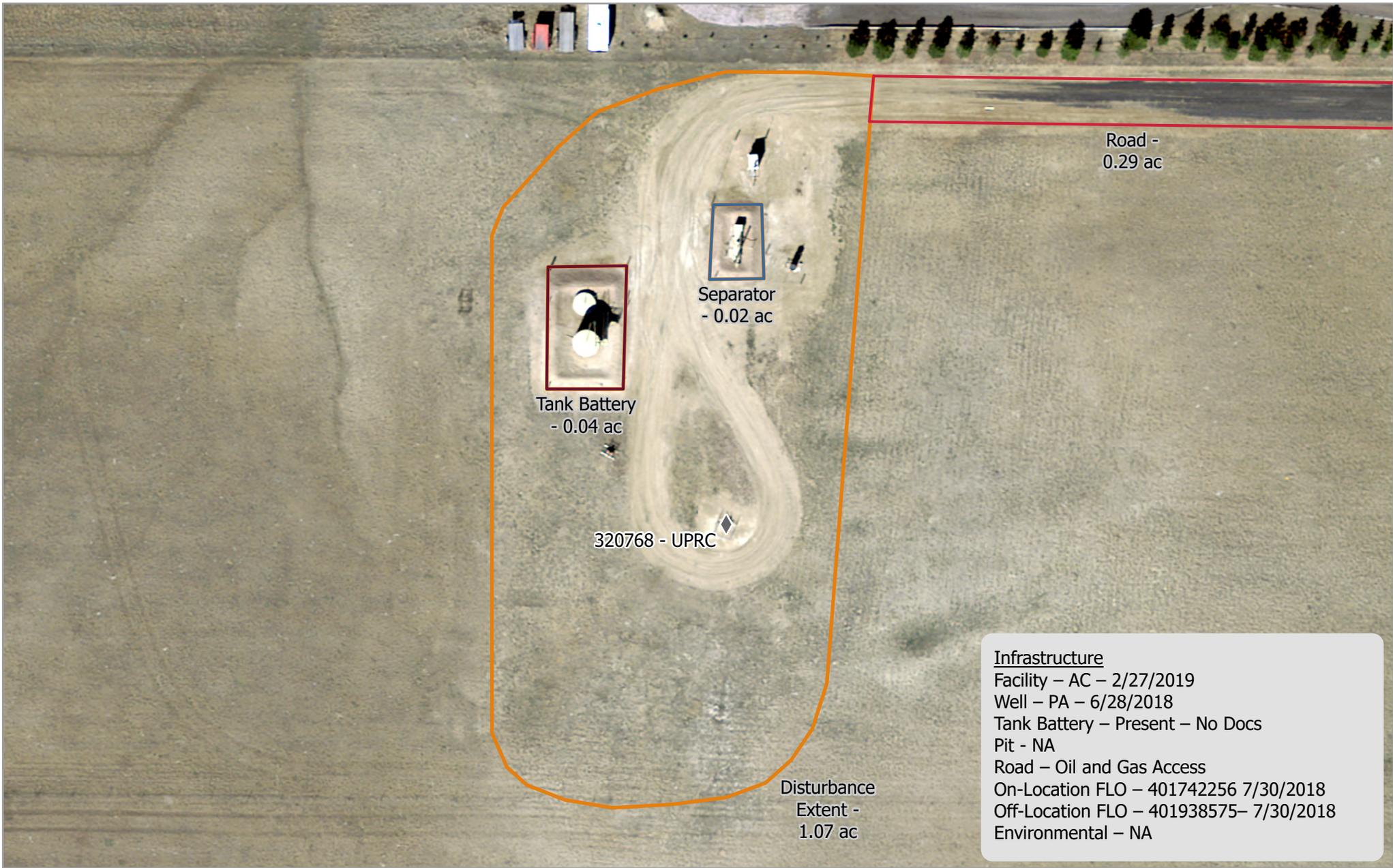
0 0.01 0.01 0.03 Miles

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

Pad Location: 39.69320594
 -104.558134



Service Credits - Maxar, Microsoft



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 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

N



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

0 0.01 0.01 0.03 Miles

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Legend

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

0 0.01 0.01 0.02 Miles

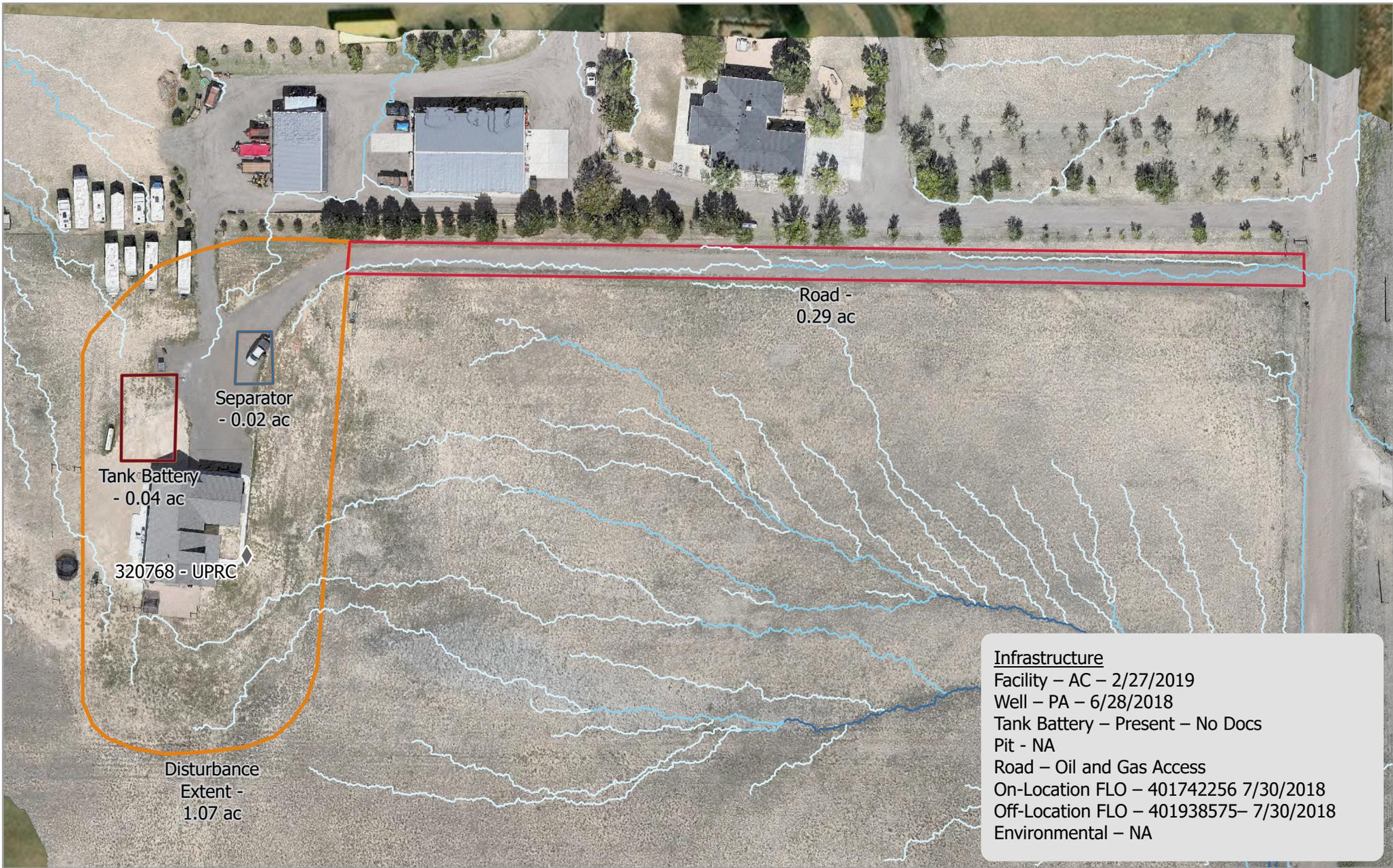
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 Off-Location FLO - 401938575- 7/30/2018
 Environmental - NA

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

◆ Wells	Stream Order
▭ Disturbance Extent	— 1
▭ Road	— 2
▭ Tank Battery	— 3
▭ Separator	

0 0.01 0.01 0.03 Miles

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

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 -104.558134



Service Credits - Maxar, Microsoft