

St. Croix Operating, Inc.
Vaquero #1
NENW Section 11, T3S R50W
Washington County, Colorado

EMERGENCY RESPONSE PLAN

St. Croix Operating, Inc. (St. Croix) proposes to operate one new location in Washington County, Colorado. The location, the Vaquero #1, is a new proposed well pad with one new well. It will connect to the existing Young SWD 31-11350 via off-location flowline.

This plan has been drafted to comply with COGCC Rules 304.c.(8) and Rule 602.j.

1. Local Responder Coordinating Agency and Contact Information

This location is located in Washington County, Colorado, in the Southwest Washington County Fire District.

The plan was reviewed and received concurrence from Washington County on August 23, 2021. Please see the attached email correspondence.

Washington County Emergency Manager

100% Full-time

Contact: Bryant McCall
(970) 630-8662
150 Ash Avenue
Akron, CO 80720

Cope Rural Fire Protection District

100% Volunteer

Contact: (970) 357-4300
6884 Monroe Ave.
Cope, CO 80812

Yuma District Hospital

100% Full-time

Contact: (970) 848-5405
1000 W. 8th Ave.
Yuma, CO 80759

2. Operator Emergency Contact Number

Contact: Paul Melnychenko
St. Croix Operating, Inc.
P.O. Box 13799
Denver, CO 80201
(303) 489-9298

3. Local Responder Mutual Aid Agencies

Southwest Washing County Fire District	100% Volunteer
Otis Fire Department	100% Volunteer
Joes Fire Department	100% Volunteer

4. Potential Impacts to the Environment and Nearby Population

This location is located approximately 1.75 miles from the nearest building. It is approximately a quarter mile from a public road. In the event of an emergency, there should be minimal impacts to nearby populations. There are no immediate potential environmental impacts to waterways or water bodies.

5. Health and Safety Action Levels

a. Decontamination

- i. St. Croix will have eyewash stations and freshwater available onsite if there are chemicals in use on location that could be hazardous on skin contact.

b. Staging Areas

- i. Should an emergency occur that warrants leaving the location, staging areas and muster points will occur at the intersection of the access road and County Road 17 or at the Young SWD 31-11350 location to the north of the proposed Vaquero location along County Road 17.

6. Site Specific Information

Location Information	
Location Name	Vaquero #1
COGCC Location ID	Pending
Location Legal Description	NENW Section 11, T3S R50W
Location Latitude and Longitude	39.81255 -102.94672
Directions to location from Cope, Colorado	Head northwest on US-36 W toward Anton for 6.9 miles. Turn right onto County Road RR. Go north on County Road RR for 9 miles.

	<p>Turn right onto County Road 17. Head east on County Road 17 for approximately 1.3 miles.</p> <p>The access road will be on the south side of the road.</p> <p>Turn right on the access road and head to the well location, approximately 733 feet to the south of the county road.</p>
Description of Site Setting	The site is located in irrigated cropland, near non-irrigated rangeland. There are no immediate potential impacts to waterways or water bodies.
Description of Location Equipment, Fluids, and Potential Hazards	<p>This location will contain a wellhead and an off-location flowline that heads northeast from the wellhead.</p> <p>Potential hazards would be a leak from the flowline.</p>
Description of Mitigation Measures for Potential Impacts to the Environment and Nearby Population	The off-location flowline undergoes Audio-Visual-Olfactory inspections monthly and annual pressure testing to insure integrity of the line.
Response Equipment Staged on Location	None
Safety Action Levels, Decontamination, and Staging Areas	Should an emergency occur that warrants leaving the location, staging areas and muster points will occur at the intersection of the access road and County Road 17 or at the Young SWD 31-11350 location to the north of the proposed Vaquero location along County Road 17.

Location Information	
Location Name	Young SWD 31-11350
COGCC Location ID	317392
Location Legal Description	NWNE Section 11, Township 16 South, Range 53 West
Location Latitude and Longitude	39.813579 -102.941694

<p>Directions to location from Cope, Colorado</p>	<p>Head northwest on US-36 W toward Anton for 6.9 miles. Turn right onto County Road RR. Go north on County Road RR for 9 miles. Turn right onto County Road 17. Head east on County Road 17 for approximately 1.7 miles. The access road will be on the south side of the road. Turn right on the access road and head to the well location, approximately 595 feet to the south of the county road.</p>
<p>Description of Site Setting</p>	<p>The site is located in non-irrigated rangeland. There are no immediate potential impacts to waterways or water bodies.</p>
<p>Description of Location Equipment, Fluids, and Potential Hazards</p>	<p>This location currently contains a wellhead, on-location flowlines, 2-300 bbl tanks, and 1-400 bbl tank. Once the Vaquero is drilled and put on production, additional production equipment will be added including 1 heater-treater, 2-400 bbl oil tanks, and 2-400 produced water tanks.</p> <p>Potential hazards would be a leak from the flowline or the tanks. All tanks will be placed in lined steel bermed areas that are designed to contain 150% of the tank's volume.</p>
<p>Description of Mitigation Measures for Potential Impacts to the Environment and Nearby Population</p>	<p>The off-location flowline undergoes Audio-Visual-Olfactory inspections monthly and annual pressure testing to ensure integrity of the line.</p>
<p>Response Equipment Staged on Location</p>	<p>None</p>
<p>Safety Action Levels, Decontamination, and Staging Areas</p>	<p>Should an emergency occur that warrants leaving the location, staging areas and muster points will occur at the intersection of the access road and County Road 17.</p>

Attachments:

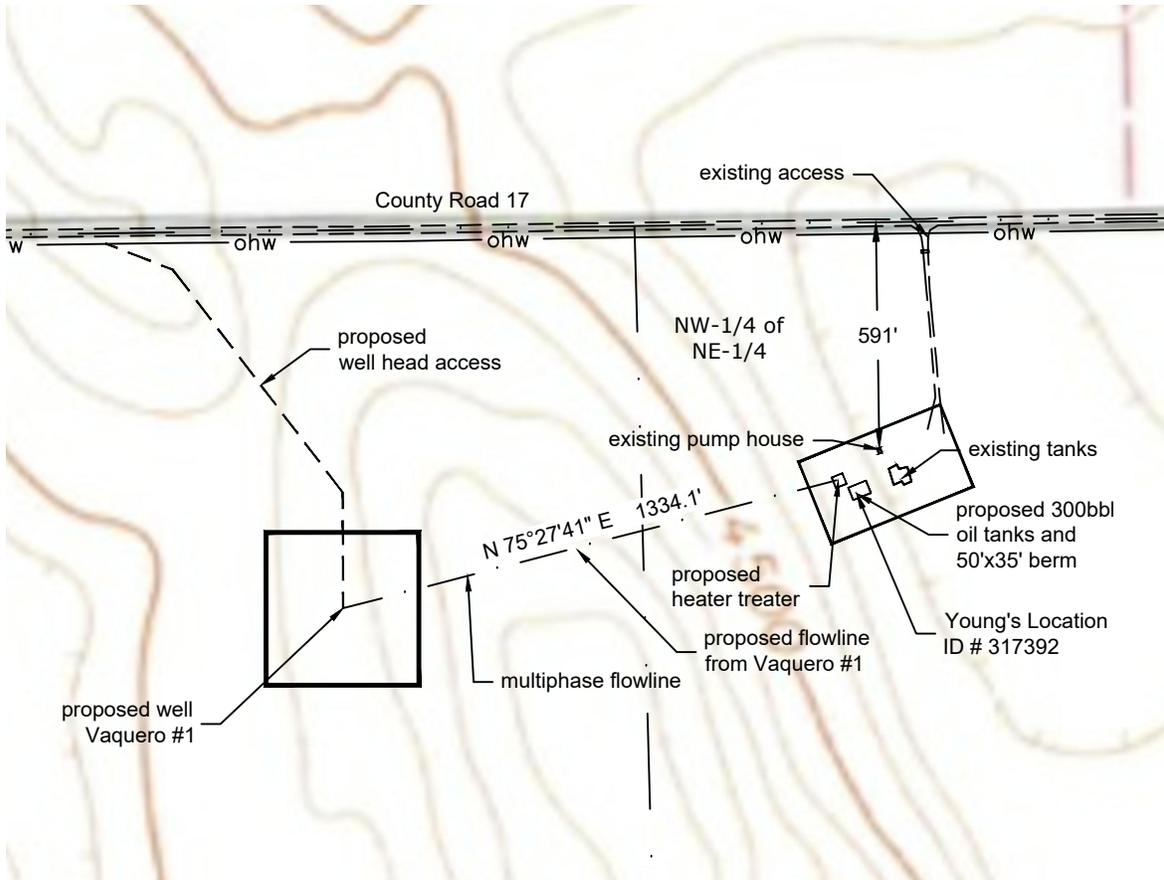
Oil and Gas Location Layout Drawings

Emergency Route Maps

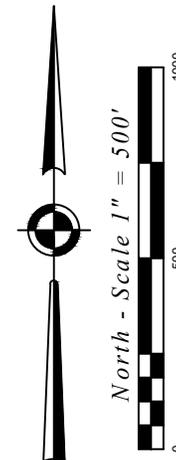
Access Road Maps

Washington County Emergency Manager Concurrence with Plan

Related Location and Flowline Drawing

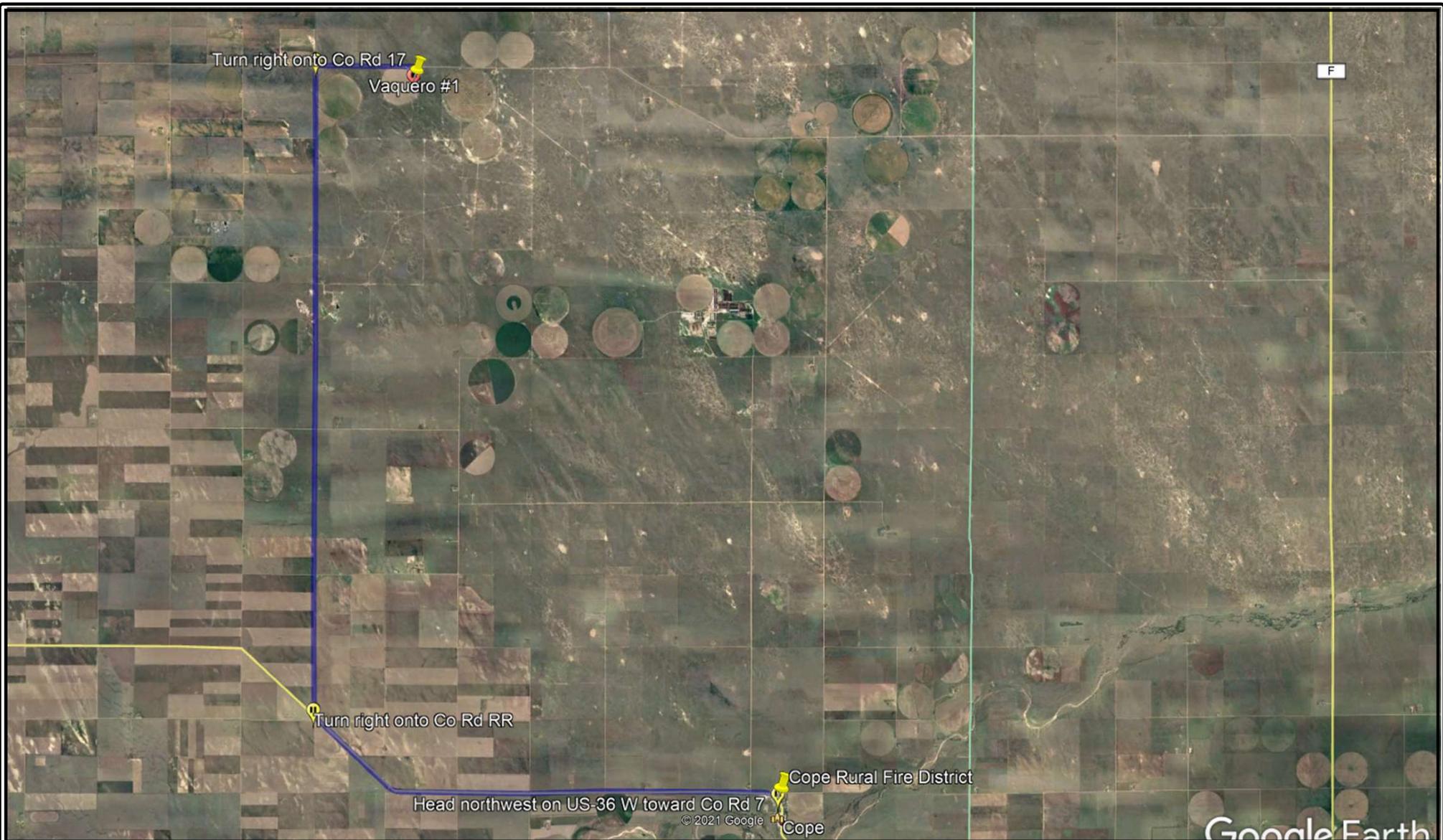


Size of disturbed area during construction in acres: 6.65 acres
 Size of location after interim reclamation in acres: 0.42 acres
 Estimated location ground elevation: 4523' [NAVD88]



C:\Users\plscg\OneDrive\for Brett\21012\dwg.new\dwg\21012_Lay_Facility.dwg July 27, 2021 - 1:08pm

Well Name: Vaquero #1	Field Date 06.29.2021	Prepared for: St Croix Operating, Inc.	Project#: 21012.001
S11-T03S-R50W-6 PM	Party Chief BAB	PLS Corporation 532 West 66th Street Loveland, Colorado 80538 970.669.2100 - info@plscorporation.com	
Washington County, CO	Survey Tech N/A		
	Proj. Manager BAB		



St. Croix Operating, Inc. - Vaquero #1
 NENW S11 T3S R50W
 Emergency Route Map

Legend

 Emergency Route

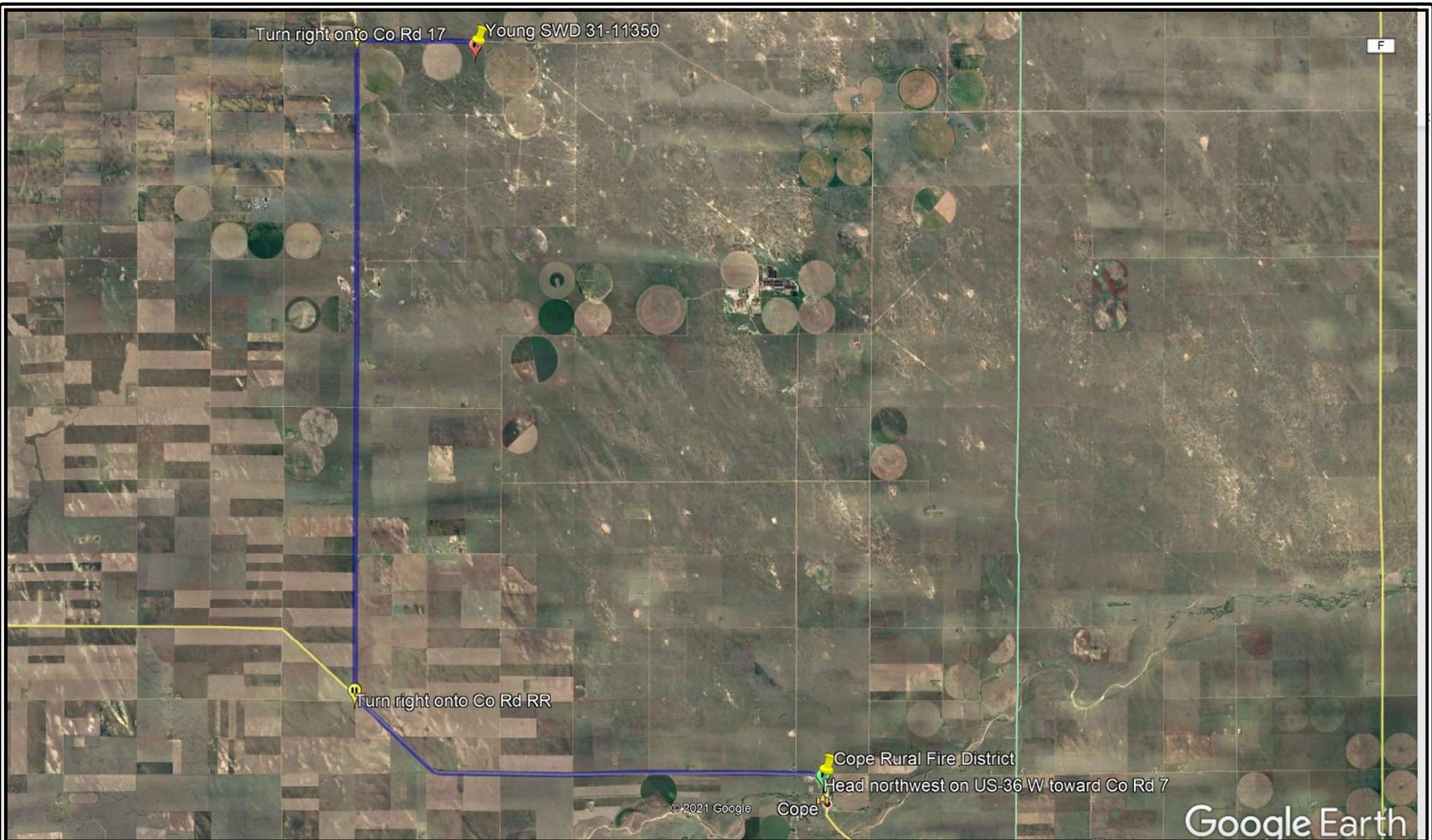


0 ft 0.75 Miles 1.5 Miles



Prepared By:
 Ardor Environmental LLC

August 19, 2021



St. Croix Operating, Inc. - Young SWD 13-11350
 NENW S11 T3S R50W
 Emergency Route Map

Legend



Emergency Route



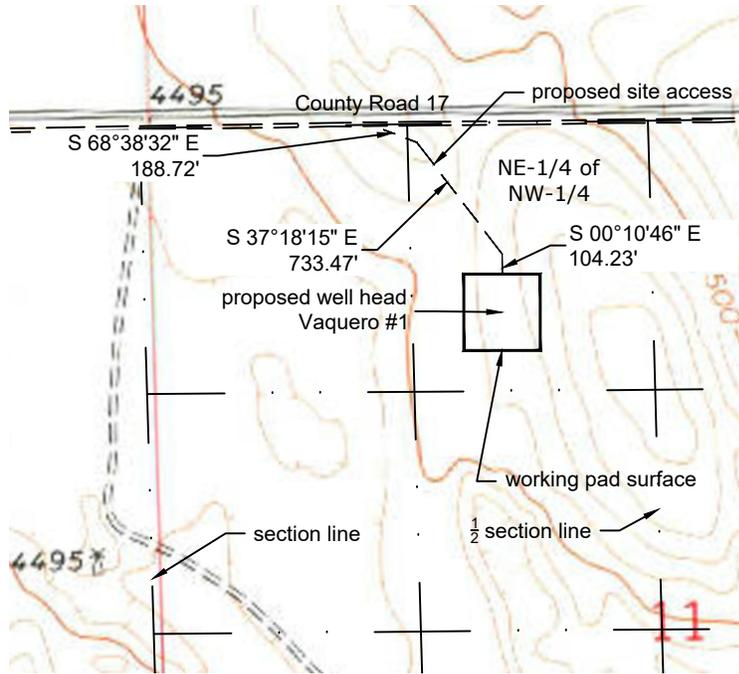
0 ft 0.75 Miles 1.5 Miles



Prepared By:
 Ardor Environmental LLC

August 19, 2021

Access Road Map



Distance from Proposed Well to nearest :

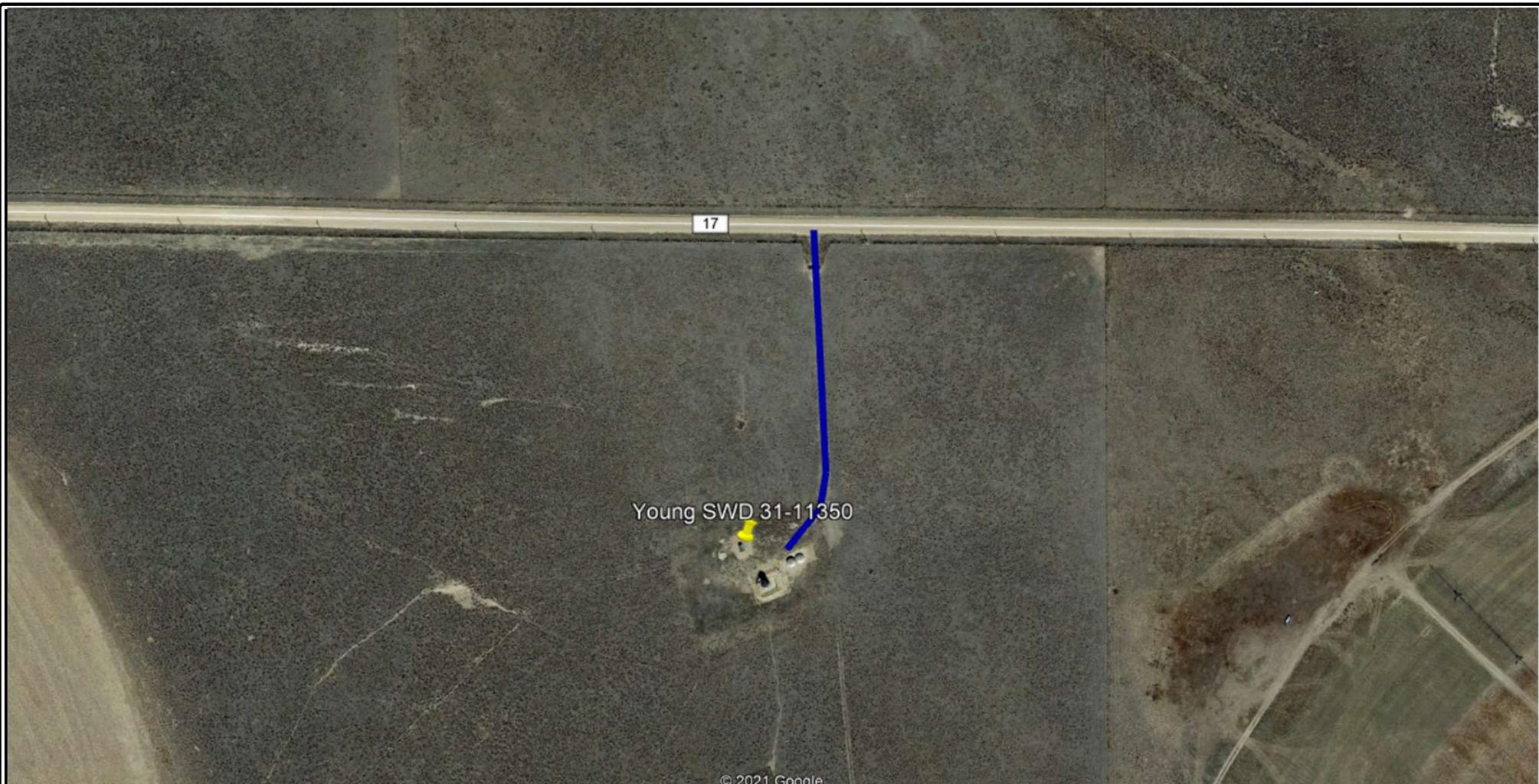
Building:	5280'
Residential Building Unit:	5280'
High Occupancy Building Unit:	5280'
Designated Outside Activity Area:	5280'
Public Road:	980'
Aboveground Utility:	960'
Railroad:	5280'
Property Line:	789'
School Facility:	5280'
Disproportionately Impacted Comm:	5280'
Child Care Center:	5280'
RBU or HOBV within DI Comm:	5280'

Distance from Proposed drill pad to nearest :

Building:	5280'
Residential Building Unit:	5280'
High Occupancy Building Unit:	5280'
Designated Outside Activity Area:	5280'
Public Road:	783'
Aboveground Utility:	763'
Railroad:	5280'
Property Line:	585'
School Facility:	5280'
Disproportionately Impacted Comm:	5280'
Child Care Center:	5280'
RBU or HOBV within DI Comm:	5280'

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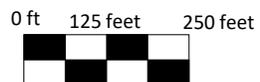
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	Party Chief BAB		PLS Corporation 532 West 66th Street Loveland, Colorado 80538 970.669.2100 - info@plscorporation.com
S11-T03S-R50W-6 PM	Survey Tech N/A		
Washington County, CO	Proj. Manager BAB		



Young SWD 13-11350
St. Croix Operating, Inc.
NENW S11 T3S R50W
Access Road Map

Legend

 Existing Access Road



Prepared By:
Ardor Environmental LLC

August 19, 2021

From: [Bryant McCall](#)
To: jdonahue@ardorenvironmental.com
Subject: Re: Emergency Plan Review
Date: Monday, August 23, 2021 2:16:52 PM
Attachments: [image001.png](#)

Jessica,

I have reviewed the plan and the information contained within is correct.

On Mon, Aug 23, 2021 at 2:10 PM <jdonahue@ardorenvironmental.com> wrote:

Hi Bryant,

Thank you for that information. I have made the corrections to the plan. Please see the updated attachment.

If everything looks good to you, can you please reply to this email and let me know? COGCC requires that we have written confirmation that the emergency planner has concurred with the information in our plan.

Let me know if you have any questions.

Thank you!

Jessica

Jessica Donahue

Compliance Specialist

(303) 888-4862



From: Bryant McCall <oem@co.washington.co.us>
Sent: Monday, August 23, 2021 12:21 PM
To: jdonahue@ardorenvironmental.com
Subject: Re: Emergency Plan Review

Jessica,

I have been reviewing your emergency response plan and I have some suggestions/corrections for you. These sites are far enough east of Anton that they are no longer in Southwest Washington County Fire's district. These sites sit in Cope Fire Department's district and they would be the first to respond. Other fire departments would be Southwest Washington County and Otis Fire, and possibly Joes Fire out of Yuma County. If there were a medical emergency the responding ambulance would be South WY Ambulance out of Joes and Washington County Ambulance out of the Otis station. Both of them would transport any patients to Yuma District Hospital in Yuma, CO. All those fire departments are 100% volunteer as well.

County Road RR out of Otis is a paved county road and that is a major North/South transport road for the area. It is used by all sorts of oil/gas, dairy and cattle trucks as well as a travel route for the locals.

If you need any more information please let me know.

On Fri, Aug 20, 2021 at 1:57 PM <jdonahue@ardorenvironmental.com> wrote:

Hi Bryant,

I just wanted to follow up on our call last month; I have finished the draft emergency

response plan for St. Croix Operating's proposed Vaquero #1 location. Would you please take a look at it and see if I am missing any pertinent information.

Thank you,

Jessica

Jessica Donahue

Compliance Specialist

(303) 888-4862



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Bryant McCall

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