



CIVITAS

*Welcome*

# Neighborhood Meeting Washington Pad

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November 07, 2022

# Agenda

## Washington Location



Introduction

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Site Plans and Schedule

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Project Mitigations and Best Management Practices

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Question and Answer

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# Civitas Resources: Who we are

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- *Civitas Resources, Inc. was formed in November 2021 with the merger of four Colorado operating companies.*
- *Extraction Oil & Gas is a wholly-owned subsidiary of Civitas Resources, Inc.*
- *Civitas is committed to the communities where we live and operate. We proudly demonstrate this commitment through leadership in Environmental, Social, and Governance (ESG) practices and we are the first Carbon Neutral oil and gas producer in Colorado.*
- *Civitas is utilizing best in class best management practices to protect public health, safety, welfare, and environment, including wildlife resources.*

# The Project Team: *Who we are*

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## *Today's Presenters:*

- *Ashley Campbell*  
*Manager, Community & Government Relations*
- *Chandler Newhall*  
*Manager, Asset Development*

## *6 Table Teams:*

- *Project Overview*
- *Community Relations*
- *Environmental, Health, Safety, & Regulatory*
- *Operational Phases*
  - *Drilling*
  - *Completion*
  - *Production*
- *Mineral & Surface Land*

# How site was identified

## Site Evaluations:

- Maximize distance from residential housing & schools
- Proximal to O&G infrastructure & other support
- Efficient traffic routing plans
- Environmental sensitivities
- Ability to secure viable surface location
  - *Preference to relocate to Area A, consistent with City feedback*

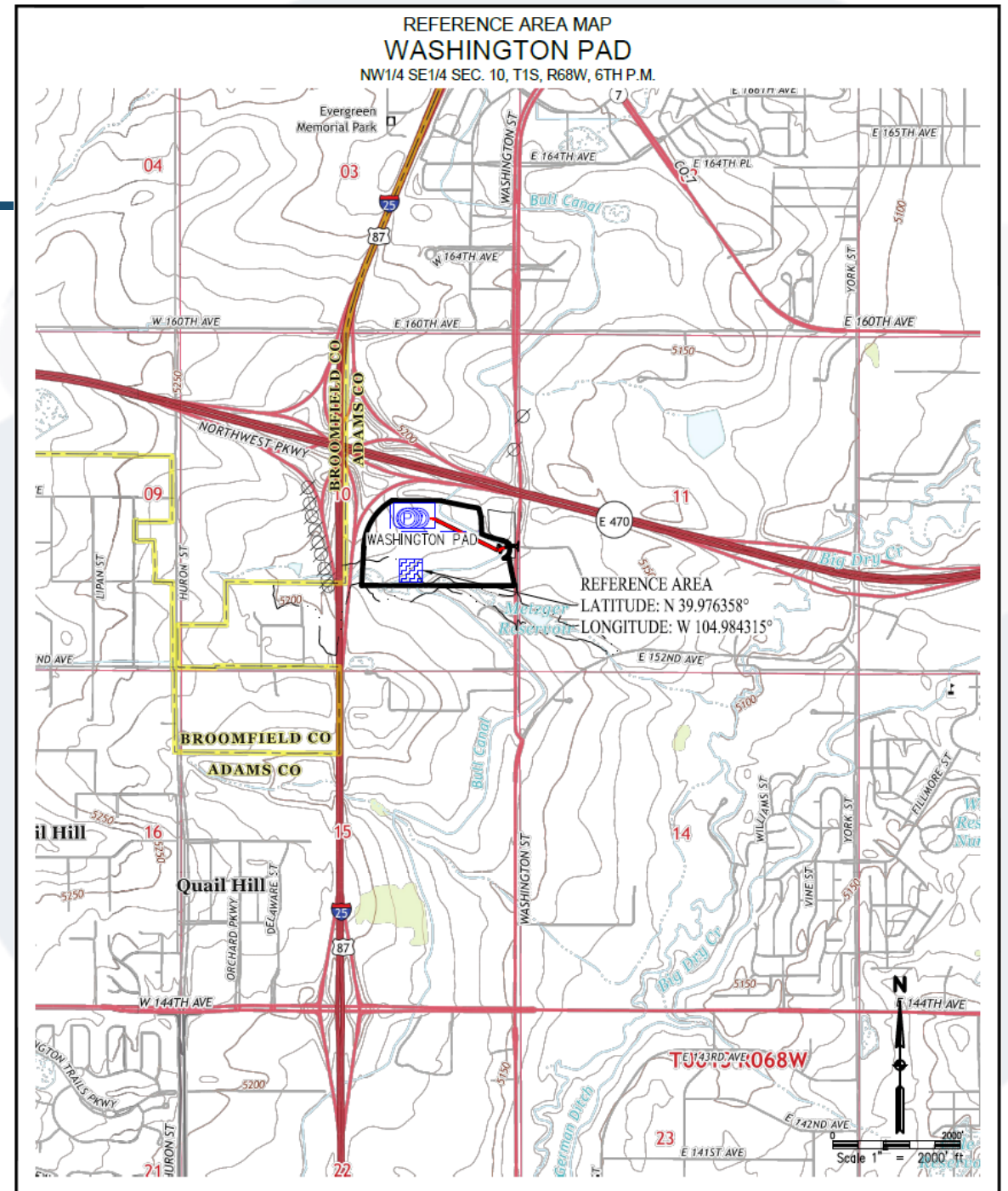
## Site location Goals:

- Maximize distance from receptors
- Minimize cumulative impacts
- Ensure infrastructure alignment



# Washington Pad Location Overview

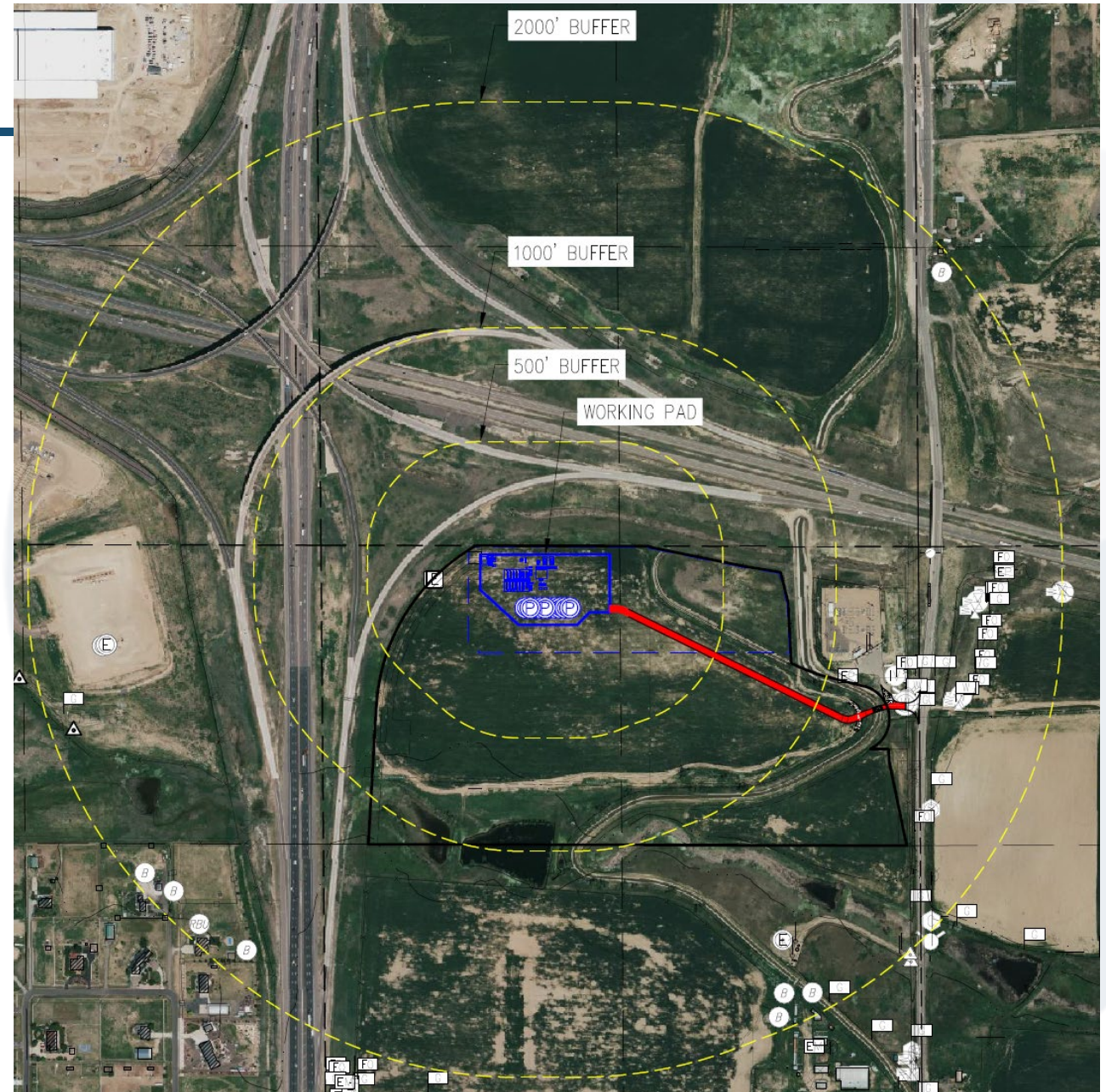
- NW¼ SE¼ of Section 10, Township 1 South, Range 68 West, 6th P.M., Adams County
- Nearby crossroads: I-25 and E-470
- RLG: City of Thornton
- ~1,600-Acres OGD (includes surface location)
- 10 new wells from Washington Pad
- No RBU within 2,000' of wells or facilities
- Surface Use Agreement



# Washington Pad

## Receptors Within 2,000'

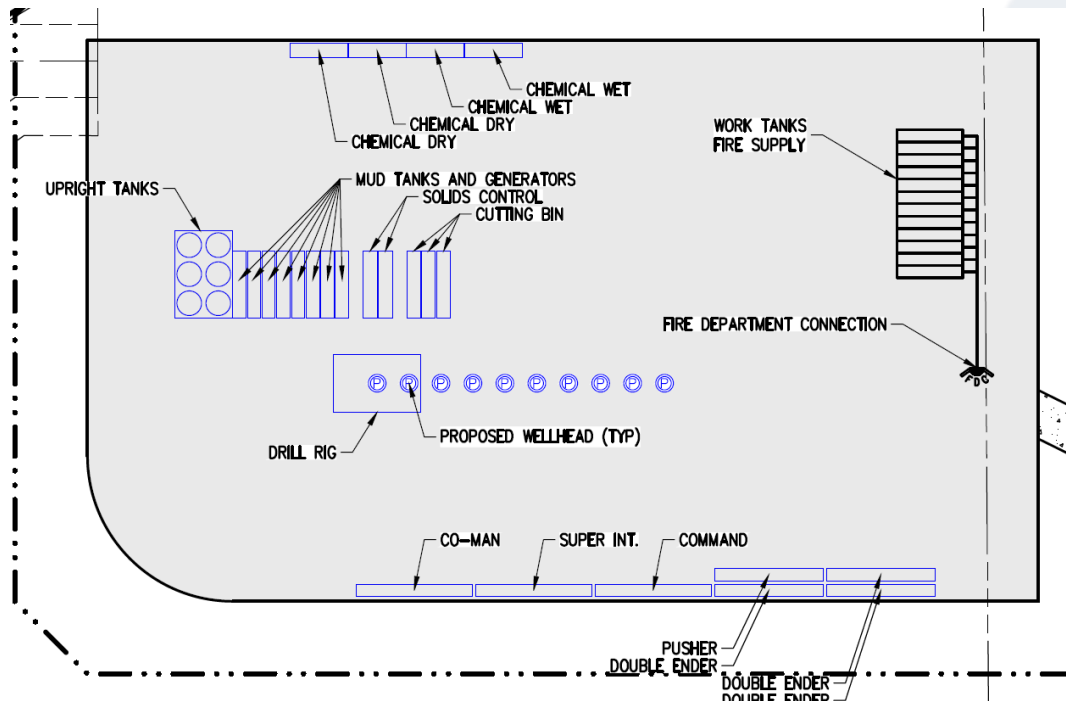
- No RBU within 2,000' of Wells or Facilities
  - 1 RBU within 2,000' of WPS
- Surface Use Agreement
- No schools
- No childcare centers
- No HOBUs
- No DOAAs
- No public water systems
- No riparian corridors
- No disproportionately impacted communities
- No high priority habitat



# Washington Pad: Site Details

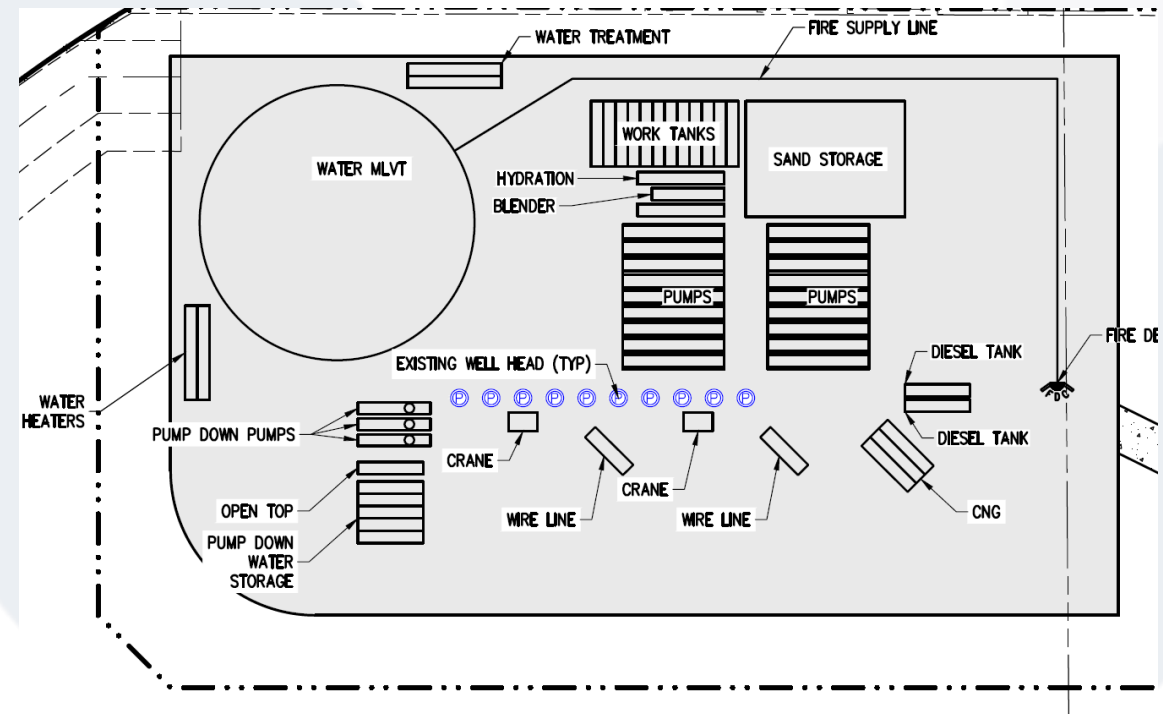
## Drilling Phase:

- Working Pad Surface ~5.75-Ac
- Electric Rig
- Closed Loop & Group III Drilling Fluid



## Completion Phase:

- Quiet, Tier IV Fleet
- Equipment layout
- Safety Focus





# Washington Pad: Conceptual Site Plans

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# Elevation Drawing: From Washington Street

KEY MAP



DRILLING PHASE



EXISTING CONDITIONS



RECLAMATION PHASE



# Elevation Drawing: West of I-25

KEY MAP



DRILLING PHASE



EXISTING CONDITIONS



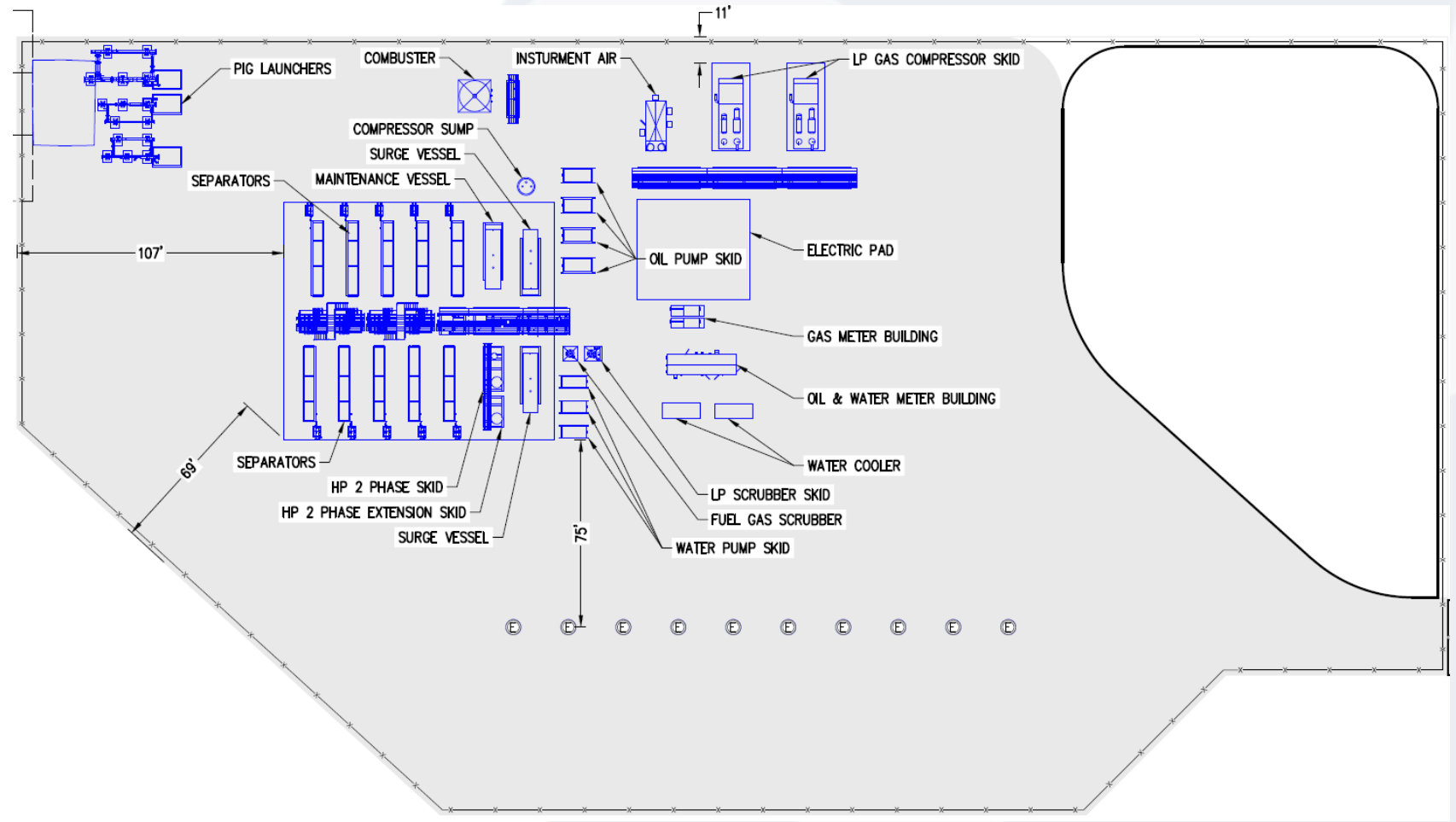
RECLAMATION PHASE



# Washington Pad: Facility Site Plan

## Site Details:

- 10 well site accessing  
~1,600-ac mineral acres
- Minimized surface disturbance ~ 3-ac during production phase
- Tankless facility design (oil, gas & water pipelines)
- Maintenance vessel with ECD
- Electric facility equipment
- Security fencing



# Washington Pad: Conceptual Site Plan - Production Phase



# Project Schedule: Single Pad with 10 Wells

*~6 Months Cycle Time from Drilling to Production*

Sound Mitigation Walls ~ 7 Months



# Washington Pad: Mitigations for Air Emissions

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## Operation Mitigations

- Drilling: Electric Drilling Rig, Closed Loop with Group III Fluid
- Completions: Tier IV Fleet, Dust Control
- Production: Pipeline gathering, Tankless, Maintenance Vessel for routine maintenance
- Removal of 5 legacy wells and related facilities and infrastructure
- Leak Detection and Repair Plan
- Ambient Air Quality Plan will be filed with the Colorado Department of Public Health and Environment
- Program will be enhanced by Continuous Optical Gas Imaging which:

Provides  
Continuous  
Leak Detection

Informs  
Investigations  
from fence line  
monitors

Uses AI learning  
to measure  
emissions

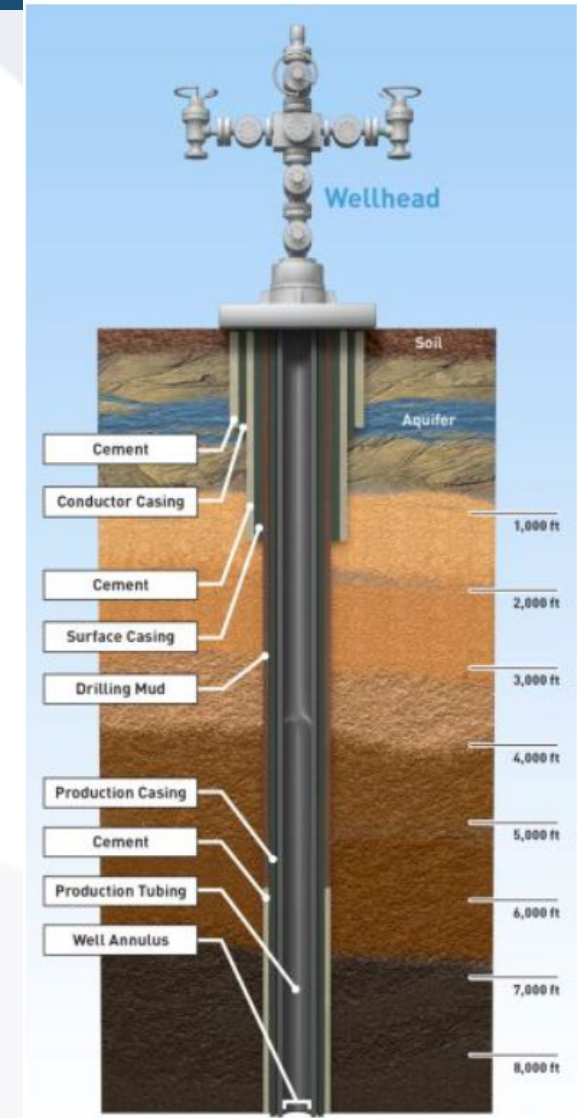
# Washington Pad: Mitigations for Protection of Water

## Surface Water Protections:

- Water Quality Impact Assessment and Monitoring Plan
- Spill Prevention, Control and Countermeasures Plan

## Aquifer Protections:

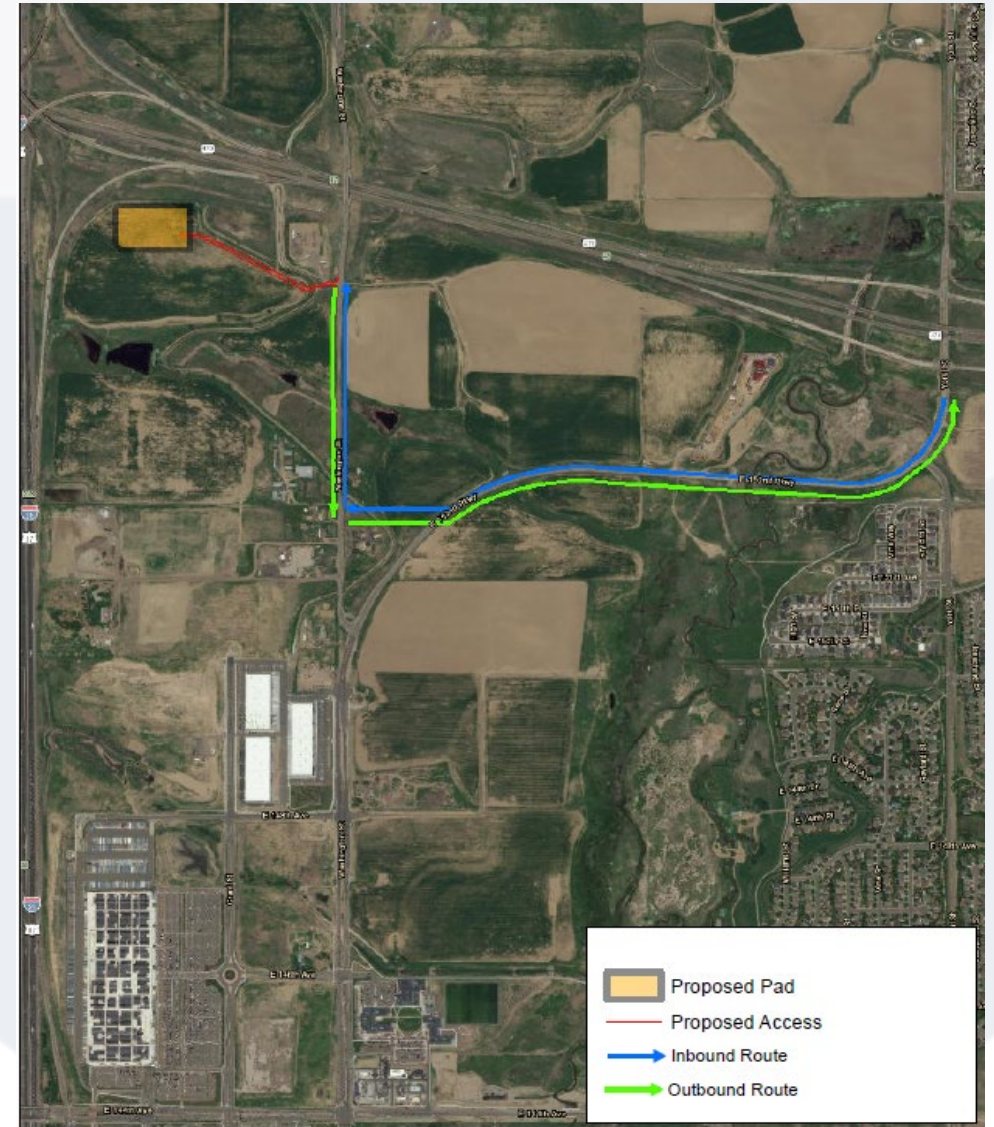
- Surface Casing depths
  - Water based drilling fluid
  - Cement protection back to surface
- Production Casing
  - Cement protection back to surface casing





# Washington Pad: Mitigations for Traffic

- Transportation Plan
  - 6 Traffic Routes evaluated
  - Avoid traffic periods
    - 7:00 a.m. – 9:00 a.m.
    - 3:00 p.m. – 6:00 p.m.
- Dust Control Plan
- Balanced Pad
- Minimal truck traffic:
  - No fuel trucks for drilling rig
  - No water trucks for completions
  - No oil or water trucks for production



# Washington Pad: Mitigations of Impacts Pre-Production Phase BMPs

Best Management Practices: Pre-Production			
	Avoid	Minimize	Mitigate
<b>Noise</b>	- Unnecessary engine idling during the overnight hours	- Electrified Drilling Rig - Quiet Completions Fleet	- Utilization of "full wrap" 32-ft tall soundwalls
<b>Light</b>	- No exterior lighting will be used during operations	- Lighting will be directed inward and downward - Free-standing light towers will be 25-ft tall	- Lighting will be affixed to interior of soundwalls
<b>Odor</b>	- IOGP Group III drilling fluid - Drilling rig run off grid power	- Drill cuttings management - Tier IV (or better) engines during hydraulic fracturing operations	- Wiping drill pipe as it is extracted from the wellbore
<b>Dust</b>	- Use of sealed containers to store proppant during Completions operations	- Application of dust suppressant (freshwater) during construction - Stabilize soil stockpiles through use of proper machinery, contouring, and seeding	- Regular access road maintenance - Removal of dirt and debris from access roads
<b>Leak Detection</b>	- No open pits	- Twice-daily equipment inspections during D&C operations - Frequent pressure testing of equipment during D&C operations	- Operational safety systems designed to mitigate operational abnormalities if necessary - Use of rig matting, location liners, and other containment devices - Implement a Pre Production ambient air monitoring program

# Washington Pad: Mitigations of Impacts Production Phase BMPs

Best Management Practices: Production			
	Avoid	Minimize	Mitigate
<b>Emissions</b>	<ul style="list-style-type: none"> <li>- Tankless location</li> <li>- Produced water and oil pipelines</li> <li>- Use of electrified production facilities</li> <li>- Instrument air pneumatics</li> </ul>	<ul style="list-style-type: none"> <li>- Use of efficient enclosed combustion devices</li> <li>- Use of LACT</li> <li>- Use of VRUs</li> </ul>	<ul style="list-style-type: none"> <li>- Adhere to Ozone Action Day protocols</li> <li>- Implement an early production ambient air monitoring program</li> </ul>
<b>Light</b>	<ul style="list-style-type: none"> <li>- No permanent lighting on location</li> </ul>		
<b>Odor</b>	<ul style="list-style-type: none"> <li>- Use of oil and produced water pipelines</li> </ul>	<ul style="list-style-type: none"> <li>- Use of oil and produced water pipelines</li> </ul>	
<b>Noise</b>	<ul style="list-style-type: none"> <li>- No truck loadout traffic due to produced water and oil pipelines</li> </ul>	<ul style="list-style-type: none"> <li>- Use of electrified production facilities</li> </ul>	
<b>Leak Detection</b>	<ul style="list-style-type: none"> <li>- Tankless facility</li> </ul>	<ul style="list-style-type: none"> <li>- Comprehensive Leak Detection and Repair program</li> </ul>	<ul style="list-style-type: none"> <li>- Fully automated facilities with remote shut-down capabilities</li> </ul>

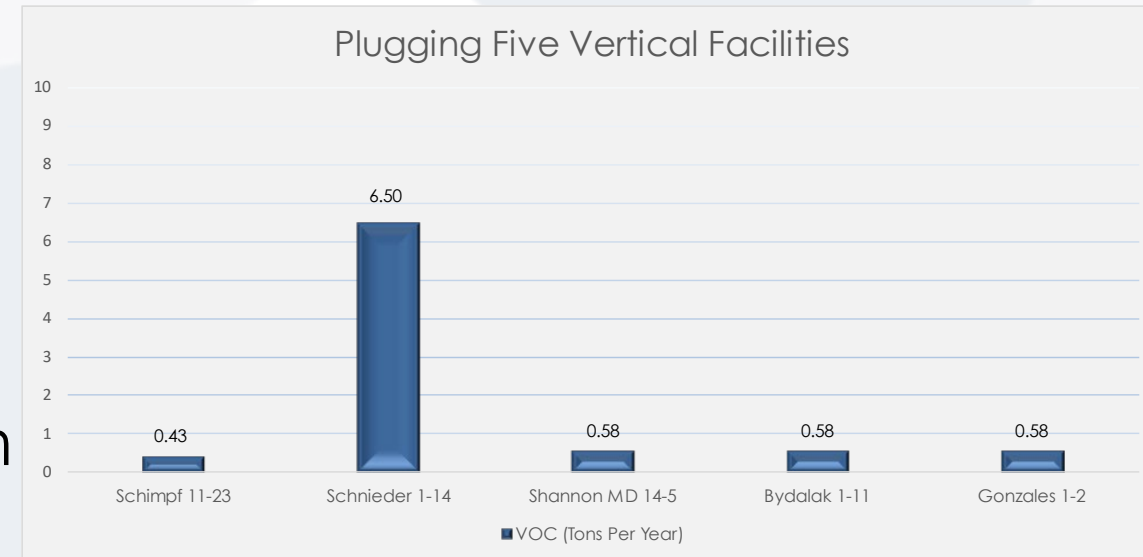
# Washington Pad: Additional Information Provided

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- Operator Agreement Application
- Surface Use Agreement
- COGCC Forms
- List of Permits
- Cumulative Impacts Plan (Pending)
- Air Quality Assessment and Mitigation Plan
- Photometric Lighting Study
- Noise Mitigation Plan
- Stormwater Mitigation Plan
- Flowline Management Plan
- Gathering Pipeline Integrity Management Plan
- Water Availability Plan
- Water Quality Impact Assessment and Monitoring Plan
- Wildlife and Habitat Assessment Mitigation Plan
- Landscaping and Reclamation Plan
- Grading, Drainage, and Erosion Control Plan
- Geological Assessment Report
- Vicinity Maps
- Facilities Plan
- Emergency Preparedness and Response Plan
- Transportation Plan
- Chemicals and Hydraulic Fracturing Fluids Disposal and Reporting Plan
- Spill Prevention, Control and Countermeasures Plan
- Leak Detection and Repair Plan
- Operating Plan
- Recreation Impact Assessment Plan
- Public Facilities and Services Plan
- Dust Mitigation Plan
- Odor Mitigation Plan
- Waste Management Plan
- Operations Safety Management Plan

# Washington Pad: Project Benefits

- Only O&G activities planned in Thornton
- Estimated \$5-10MM in local taxes generated to municipal, county and school district in first 5 years
- Removal of 5 Producing Wells & Facilities
  - 10 Total Tanks
- Eliminates over 8 tons per year VOC from tanks and pneumatics.
- Midstream Infrastructure retirement
- Unencumbering land



# Question and Answers

Comment Sheet		
Name	Mailing Address	Comment



CIVITAS

Specific Comments and Questions  
Please email:  
[Washington@civiresources.com](mailto:Washington@civiresources.com)

# Table Teams

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## *Table Teams:*

- *Project Overview*
- *Community Relations*
- *Environmental, Health, Safety, & Regulatory*
- *Operational Phases*
  - *Drilling*
  - *Completion*
  - *Production*
- *Mineral & Surface Land*

# Contact Information



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Website: [www.civitasresources.com](http://www.civitasresources.com) &  
[www.civitascommunityrelations.com](http://www.civitascommunityrelations.com)



Specific Comments and Questions  
[Washington@civiresources.com](mailto:Washington@civiresources.com)



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Thank You

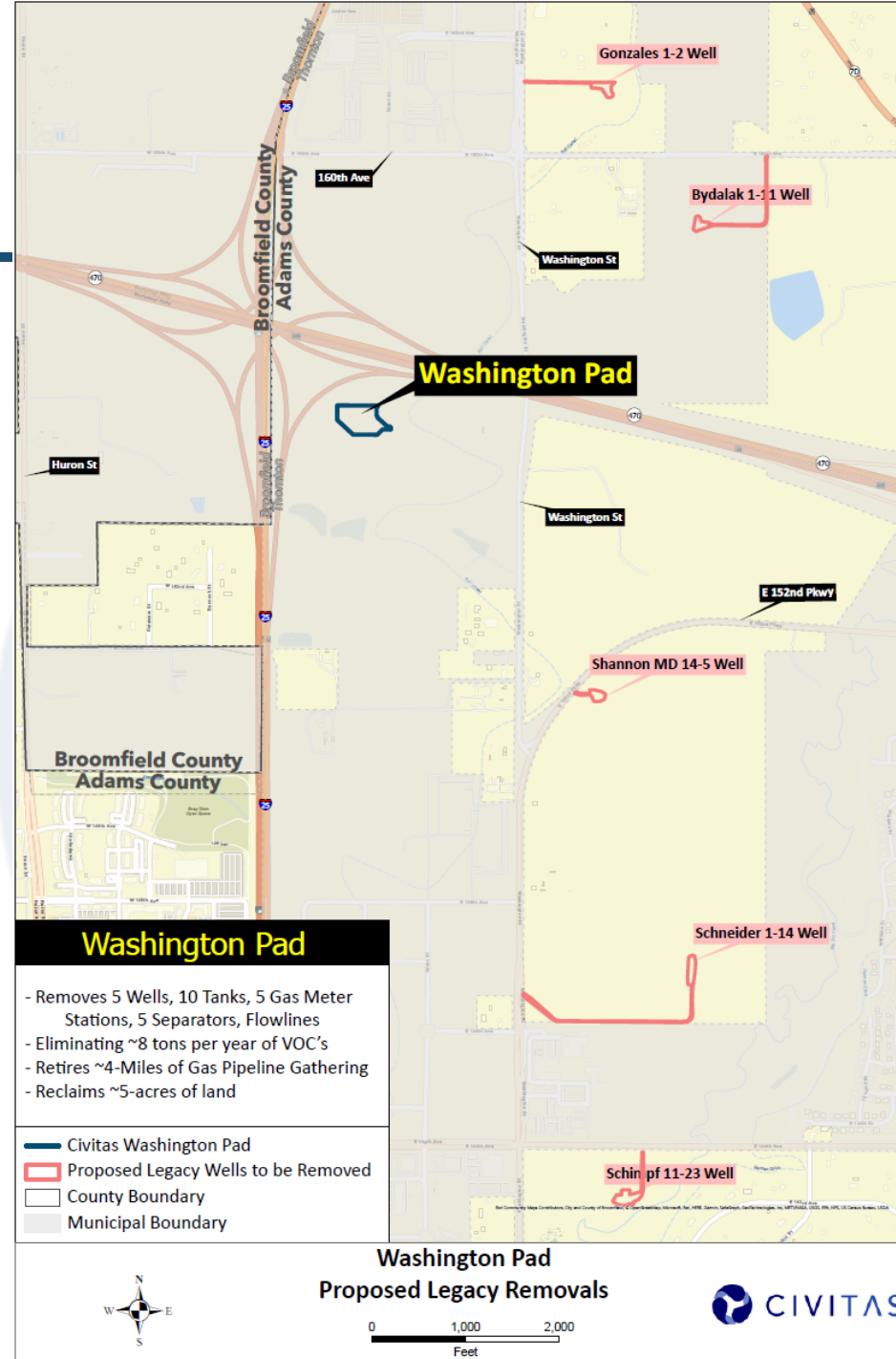
# Neighborhood Meeting Follow-Up Illustrations

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- Map 1: Illustration of Proposed Legacy Removals
- Map 2: Illustration of New Horizontal Wells

# Map 1:

- Proposed Legacy Removals Well List:
  - Schimpf 11-23
  - Schnieder 1-14
  - Shannon MD14-5
  - Bydalak 1-11
  - Gonzales 1-2
- Removes 5 Wells, 10 Tanks, 5 Gas Meter Stations, 5 Separators & Flowlines
- Eliminating ~8 tons per year of VOC's
- Retires ~4-miles of Gas Pipeline Gathering
- Reclaims ~5-acres of land



# Map 2

- 10 New Horizontal Wells

