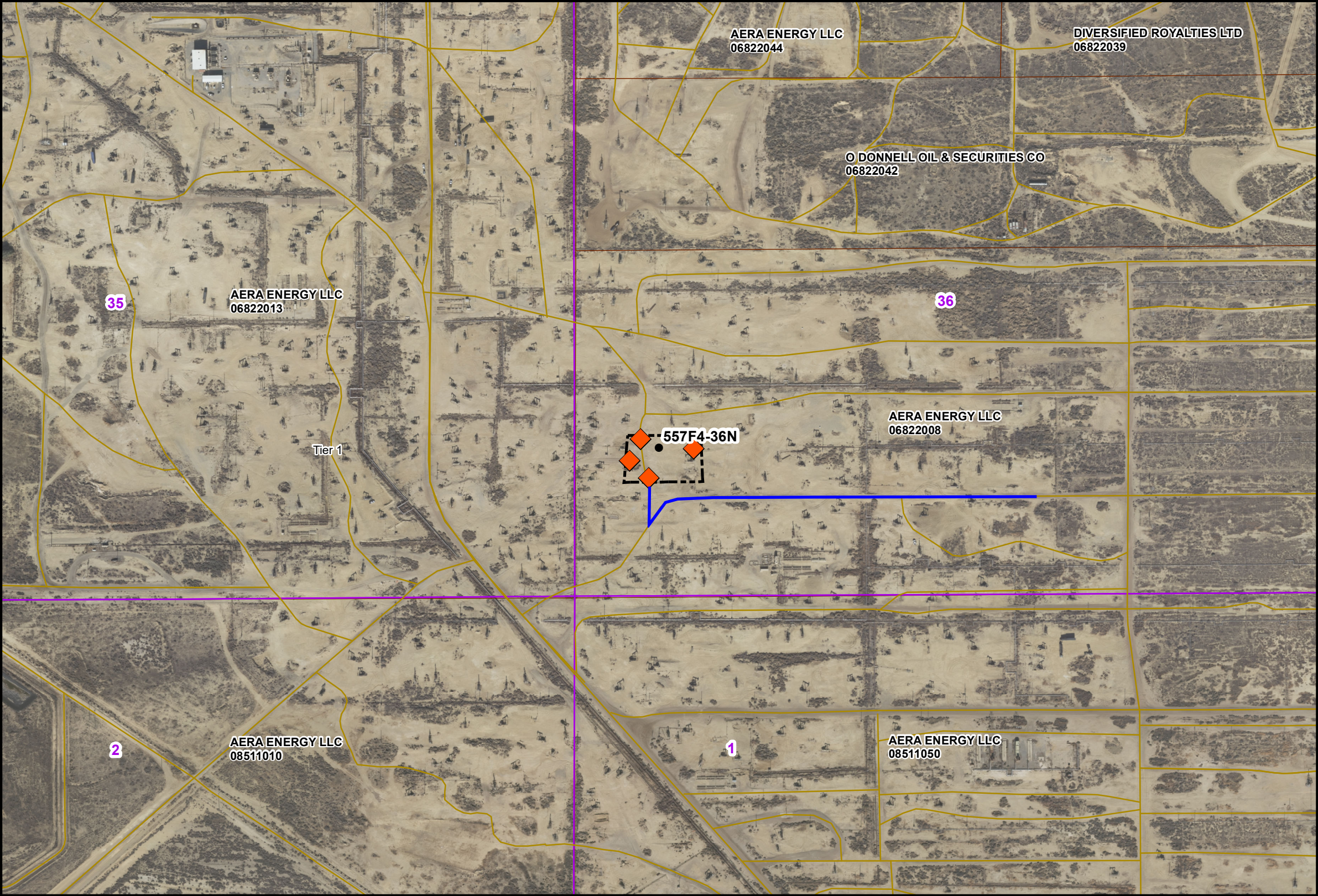


Well Name	Ground Elev.	Total Measured Depth	Planned Ground Disturbance Acreage	Project Acreage	Latitude	Longitude	Distance to Nearest Section Line	
557F4-36N	603.72	1577	0	0.96	35.5296059	-119.7781235	563.0 S	264.0 W

Site Notes:
Job Scope:
See attached site plan compliance notes.





APPROVED

FOR ZONE REQUIREMENTS ONLY

Kern County Planning & Natural Resources

FOR: OGCR BY: JACOB RATHBUN

DATE: 8/13/2021 ZONE: A

Well:	557F4-36N	
Area View - Tier 1 Minor Activity Review Well Abandonment Belridge Field Sec. 36 T27S, R20E		
Date Prepared:	Jul 16, 2021	
 Aera Energy LLC 10000 Ming Ave. P.O. Box 11164 Bakersfield, CA 93389-1164		
Company Contact:	Lindsey Meacham: (661) 665-5436	
Operator Signature:		PG. 1/2

●

Wells

Project Boundary

Construction Sign

Arterials - Major & Minor Field Roads

Land Surface Parcels

Kern Oil Gas Tiers

Access Road

0

375

750

1,500

Feet

N

W

E

S

Site Notes:
Job Scope:
See attached site plan compliance notes.

APPROVED



FOR ZONE REQUIREMENTS ONLY

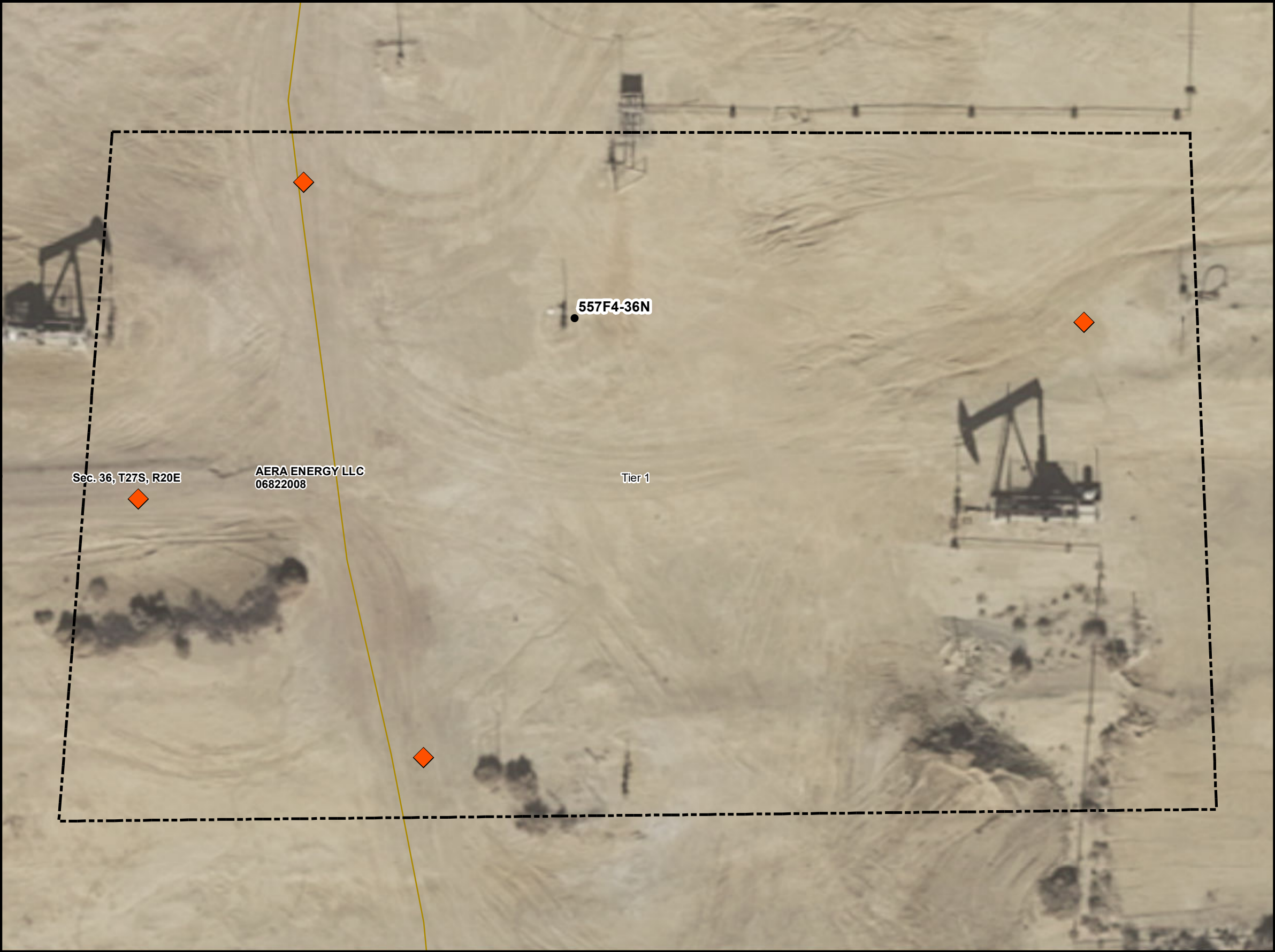
Kern County Planning & Natural Resources



FOR: OGCR BY: JACOB RATHBUN

DATE: 8/13/2021 ZONE: A

Well:	557F4-36N		
<div>Site Plan - Tier 1</div> <div>Minor Activity Review</div> <div>Well Abandonment</div> <div>Belridge Field</div> <div>Sec. 36 T27S, R20E</div>			
Date Prepared:	Jul 16, 2021		
<div></div> <div>Aera Energy LLC</div> <div>10000 Ming Ave. P.O. Box 11164 Bakersfield, CA 93389-1164</div>			
Company Contact:	Lindsey Meacham: (661) 665-5436		
Operator Signature:			PG. 2/2



● Wells

 Project Boundary

 Construction Sign

 Arterials - Major & Minor Field Roads

 Sections

 Land Surface Parcels

 Kern Oil Gas Tiers

0204080

Feet

W

N

E

S

Kern County Oil and Gas Permitting

Site Plan Compliance with Mitigation Measures – MAR Abandonments

- MM 4.1-2:** All temporary equipment used to drill, repair, clean out, deepen, or redrill wells shall be removed from the project site within 90 days of project completion. Project site shall be returned to grade and working state within 90 days of project completion.
- MM 4.1-5:** New signage is not applicable to the proposed project, a well abandonment. Temporary, portable project signage (i.e., sandwich board) will be used to manage site access and safety.
- MM 4.1-6:** The proposed project is a well abandonment and will not include new, permanent lighting. Abandonment activities are conducted during daylight hours and will not require temporary lighting.
- MM 4.2-1:** Aera does not operate on land designated Prime, Farmland of Statewide Importance, or Unique Farmland.
- MM 4.2-2:** Condition is not applicable to this project. The proposed project is in Tier 1, in an established oilfield. There are no active agricultural lands within or adjacent to the proposed project area.
- MM 4.3-1:** Not applicable - proposed project is for well abandonment activity which does not require an ATC or PTO.
- MM 4.3-2:** Fugitive Dust Control Plan is on file with KCPNRD and available upon request from the Environmental Specialist.
- MM 4.3-3:** Aera does not operate off-road construction diesel engines with a rating of 50 horsepower or more which are not registered under California Air Resources Board’s Statewide Portable Equipment Registration Program. Aera's contractors or vendors administer their own compliance programs, as applicable.
- MM 4.3-4:** All diesel haul vehicles comply with the requirements, specifications, and standards stipulated in MM4.3-4.
- MM 4.3-5:** Not applicable. Proposed project is a Minor Activity Review for well abandonment. Proposed project does not include a new well or other ancillary facility or equipment.
- MM 4.3-7:** Aera will comply with the Odor Complaint Management Plan submitted to KCPDNR annually.
- MM 4.4-1:** Not applicable. Abandonment activities do not require agency survey approval. Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey.
- MM 4.4-2:** Incidental take of any species listed as threatened or endangered under the federal Endangered Species Act, threatened, or endangered under the California Endangered Species Act, rare or endangered in the California Native Plant Protection Act, or designated as fully protected in the California Fish and Game Code (Protected Species) is not anticipated. If take occurs (incidental or otherwise), Aera shall report to the USFWS, CDFW or BLM.
- MM 4.4-3:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities to identify the need for avoidance and minimization measures.
- MM 4.4-4:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities.
- MM 4.4-5:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities.
- MM 4.4-6:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities. If an active den is observed Aera shall implement buffers or avoidance measures.
- MM 4.4-7:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey shall occur prior to initiating work activities. If an active den is observed Aera shall implement buffers or avoidance measures.
- MM 4.4-8:** Not applicable. Aera's operations do not occur at or near the 2,000 ft elevation.
- MM 4.4-9:** Not applicable. Aera's operations do not occur at or near the 2,000 ft elevation.
- MM 4.4-10:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify active bird nests and the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities. If an active nest is observed Aera shall implement buffers, monitoring and/or avoidance measures.
- MM 4.4-11:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities. If BNLL is observed Aera shall implement buffers, monitoring and/or avoidance measures.
- MM 4.4-12:** Proposed project site is 100% previously disturbed and does not require a biological reconnaissance survey. A pre-disturbance survey to identify sensitive species plant populations and the need for avoidance or minimization measures shall occur after permitting, prior to initiating work activities. If a sensitive species plant population is observed Aera shall implement buffers, monitoring and/or avoidance measures.
- MM 4.4-15** Not applicable. Proposed project site is 100% previously disturbed and does not require compensation. Proposed project is located in Tier 1.
- MM 4.4-16:** Not applicable to proposed project. Sensitive Natural Communities or waters, wetlands and other riparian habitats are not present within proposed project.

- MM 4.4-17:** Not applicable to proposed project. Sensitive Natural Communities or waters, wetlands and other riparian habitats are not present within proposed project.
- MM 4.4-18:** Not applicable. The proposed project does not occur at a site within an oak woodland area.
- MM 4.5-1:** Proposed project site is 100% previously disturbed. Cultural resources are not present on site. WEAP training includes management of suspected of cultural resources.
- MM 4.6-2:** Proposed project is for well abandonment and does not include construction/building intended for human occupancy.
- MM 4.6-3:** Proposed project does not include work on slopes greater than 30%.
- MM 4.6-5:** Not applicable. Proposed project does not involve new disturbance or building infrastructure on expansive soils.
- MM 4.7-1:** Proposed project is a well abandonment and does not include stationary sources subject to Cap and Trade Program.
- MM 4.7-2:** Aera is subject to the Cap-and-Trade Program and shall comply with the Cap-and-Trade regulations.
- MM 4.7-3:** Aera shall implement methods to recover for reuse, or destroy methane existing in associated gas and casinghead gas, (SJVAPCD Rule 4401 and 4409) and comply with the CARB Methane regulations.
- MM 4.7.4:** Aera's emissions are covered by the Cap-and-Trade Program. Emissions resulting from suppliers to the job site are covered by the suppliers own Cap-and-Trade mitigations. Emissions from portable combustion equipment (as opposed to mobile equipment) used by contractors at our sites are part of Aera’s Cap & Trade if they are greater than 130 hp.
- MM 4.8-2:** Aera shall arrange for transportation, storage, and disposal of all hazardous materials in compliance with the Hazardous Materials Transportation Act. Drivers transporting hazardous materials or wastes shall follow the measures recommended by the Federal Motor Carrier Safety Administration for avoiding roll-over accidents, including items a-e of MM 4.8-2.
- MM 4.8-3:** Aera shall implement the best practices cited in MM 4.8-3, items a-l based on practices and standards established by OSHA, safety standards as amended or modified by DOSH – Cal/OSHA and the Kern County Fire Department.
- MM 4.8-4:** Not applicable - proposed project is a well abandonment. All associated lines have been previously disconnected.
- MM 4.8-5:** If contaminated soil is observed or suspected, Aera will assert Stop Work Authority. The identified area will be delimited, sampled, and analyzed to determine extent of potential contamination. If contamination is found to be above regulatory levels, Kern County Public Health Services Department will be notified for further guidance.
- MM 4.8.6:** Aera has implemented the measures in MM 4.8-4 and 4.8-5 to prevent, repair, and remediate accidental leaks and spills from oil and gas operations.
- MM 4.8-7:** Not applicable to proposed project. Proposed project is a well abandonment and does not include exploration, well development or well stimulation.
- MM 4.8-14:** Aera shall report contamination in the time and manner as specified in MM 4.8-14. Proposed project is in Tier 1.
- MM 4.8-15:** Not applicable - proposed project does not include use of acutely hazardous chemicals, including chemicals at or above the specified threshold quantities or a process which involves a Category 1 flammable gas or a flammable liquid with a flashpoint below 100 degrees Fahrenheit (37.8 degrees Celsius) on site in one location, in a quantity of 10,000 pounds (4535.9 kilograms) or more according to 8 California Code of Regulations Section 5189, Appendix A, within 0.25 mile from a school.
- MM 4.8-17:** Not applicable - the proposed project does not trigger FAA consultation.
- MM 4.8-18:** Aera has submitted the annual R-2508 waiver applicable to its Kern County Operations with the first application of the year.
- MM 4.8-20:** Aera shall comply with the Fire Codes as specified in MM 4.8-20, a-p.
- MM 4.8-22:** Aera shall ensure that trash is stored in closed containers and removed from the site at regular intervals.
- MM 4.9-4:** Not applicable - proposed project is for a well abandonment, not well stimulation.
- MM 4.9-5:** Not applicable - proposed project is for a well abandonment.
- MM 4.9-6:** Not applicable - proposed project is not located within a special flood hazard area.
- MM 4.12-2** Not applicable - proposed project is a Minor Activity Review for well abandonment (existing facility).
- MM 4.17-2:** Aera shall not store construction waste onsite for longer than the duration of the construction activity or transport any waste to unpermitted facilities.
- MM 4.17-3:** See Water Source Estimate



Created By: M. Graves, D. Chapin
 Edited By: D. Chapin

Date Created: 5/7/2021
 Last Updated: 6/3/2021
 Next Review Required: 12/15/2021

Details:

Estimate of produced and fresh water* used to drill or workover a well in response to MM 4.17-3.

Estimates are reported use and are re-evaluated annually.

Blue Cells represent calculated estimate of water type usage.

Grey cells represent conversion of estimate usage to acre ft on a per well or per acre basis.

*Aera does not use ground water

Drilling Data					
No. of Wells Drilled		Bbls of Fresh Well Water Used			
Heavy:	87	Heavy:	0	Ac ft per well Heavy	0
Light:	13	Light:	0	Ac ft per well Light	0

Workover Data									
No. of Wells reworked		Bbls of Fresh Water Used		Bbls of Produced Water Used		Fresh Water		Produced Water	
Heavy	244	Heavy	0	Heavy	32250	Ac ft per well Heavy	0	Ac ft per well Heavy	0.017036063
Light	507	Light	0	Light	19400	Ac ft per well Light	0	Ac ft per well Light	0.004932

WST Data			
bbls of Fresh Well Water used per Well	0	Ac ft per well	0

Well Abandonment Data			
Produced Water Used per Well Abandonment:	50 bbls	Ac ft prod water per Abdn:	0.00644465
Fresh Well Water Used per Well Abandonment	0 bbls	Ac ft Fresh Water per Abdn:	0

Dust Control for Surface Projects			
Acreage of project	9	Gallons per Acre	4045
Gallons Used	36405	Ac ft per acre of project disturbance	0.012413701

Note: Belridge field does not utilize well water. These volumes are for MWSS projects only.

