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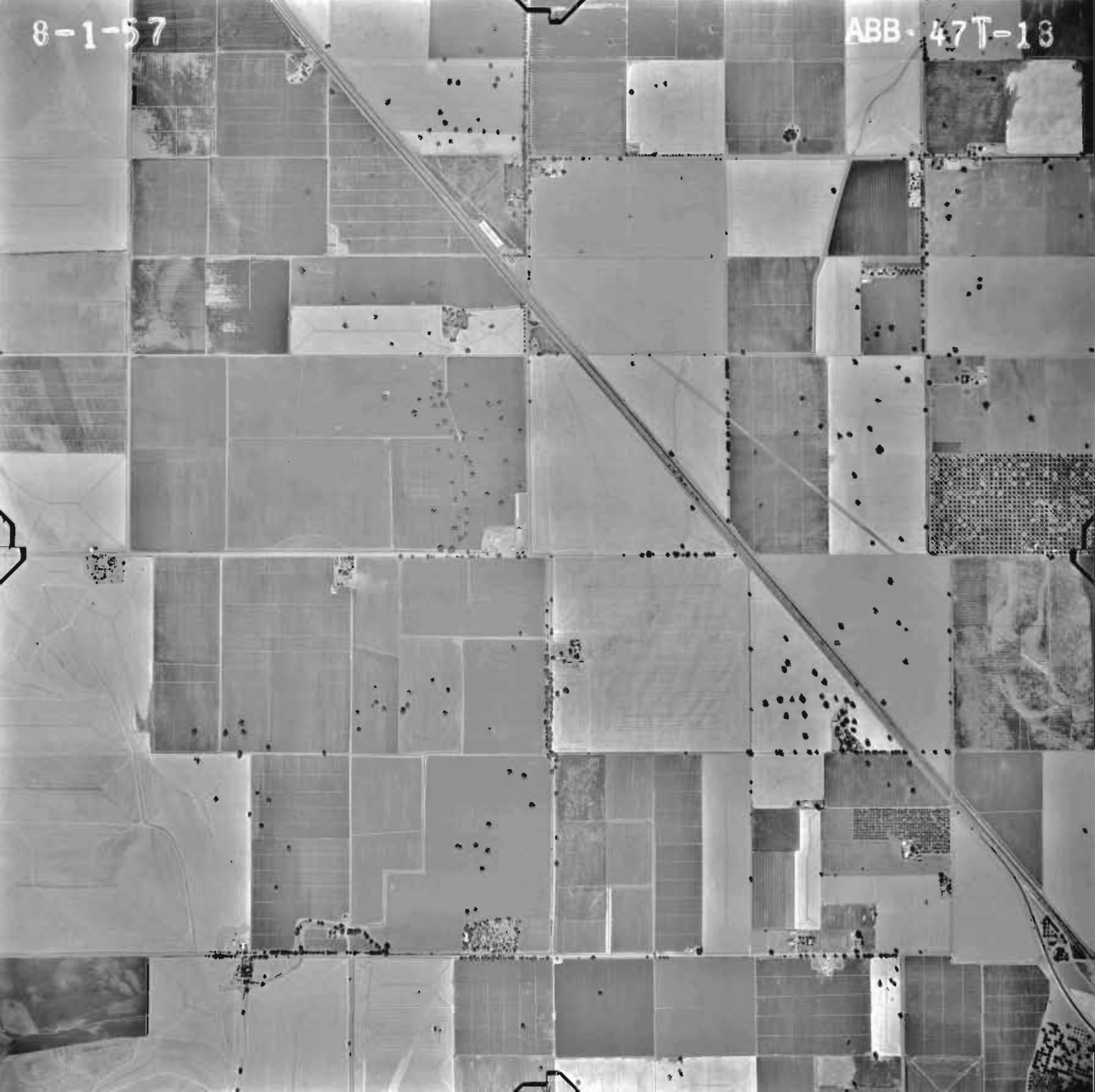
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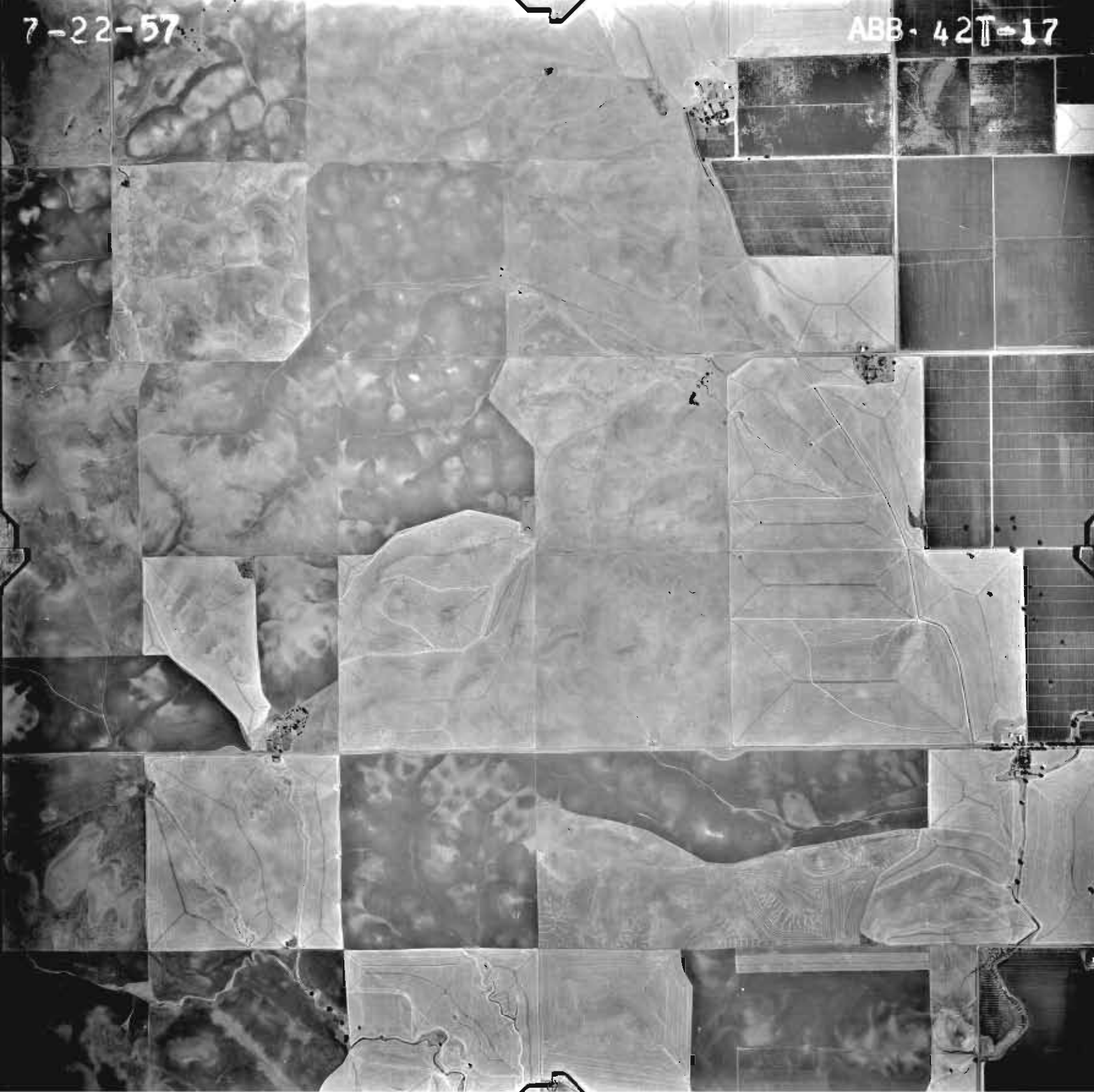
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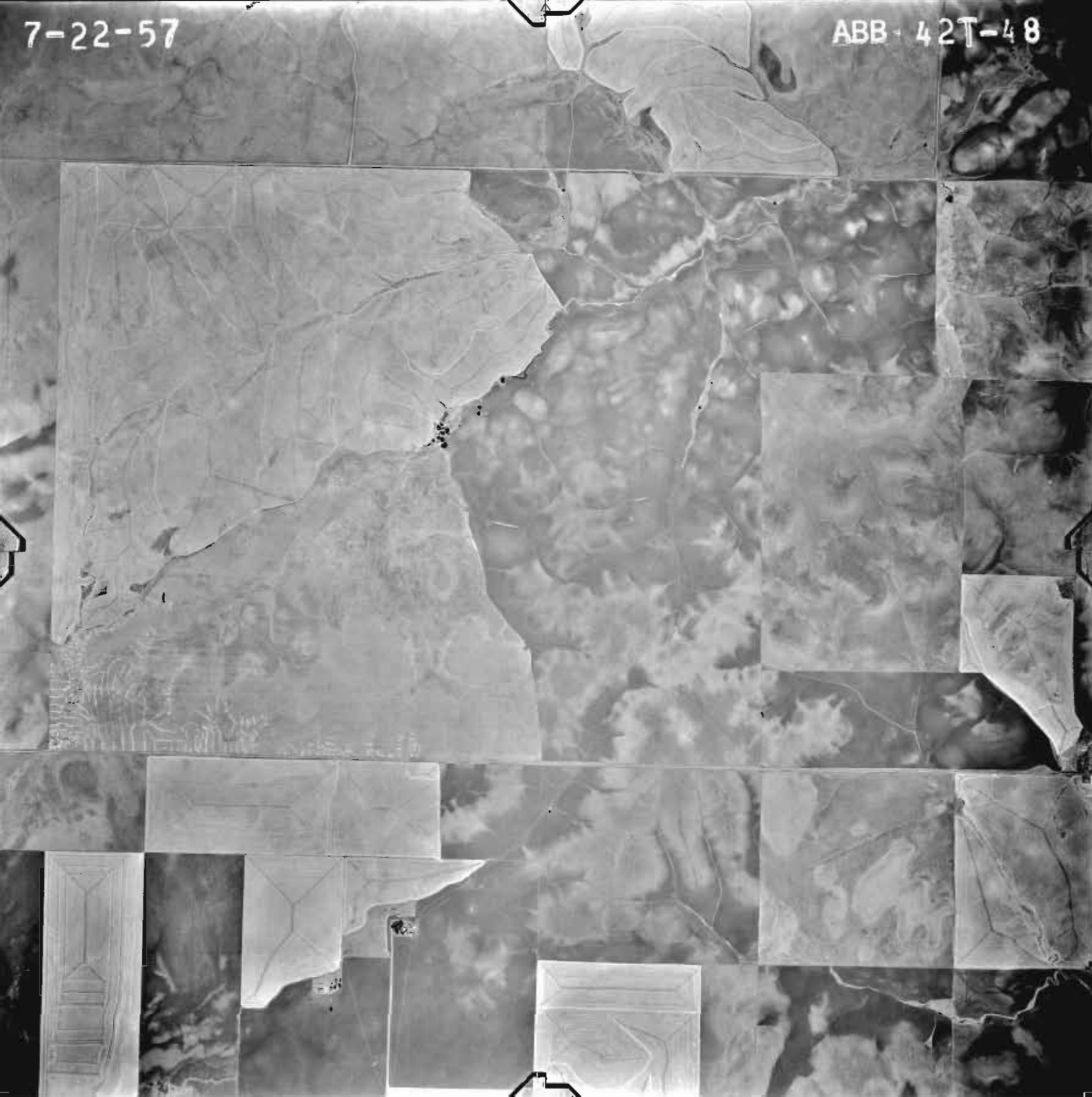
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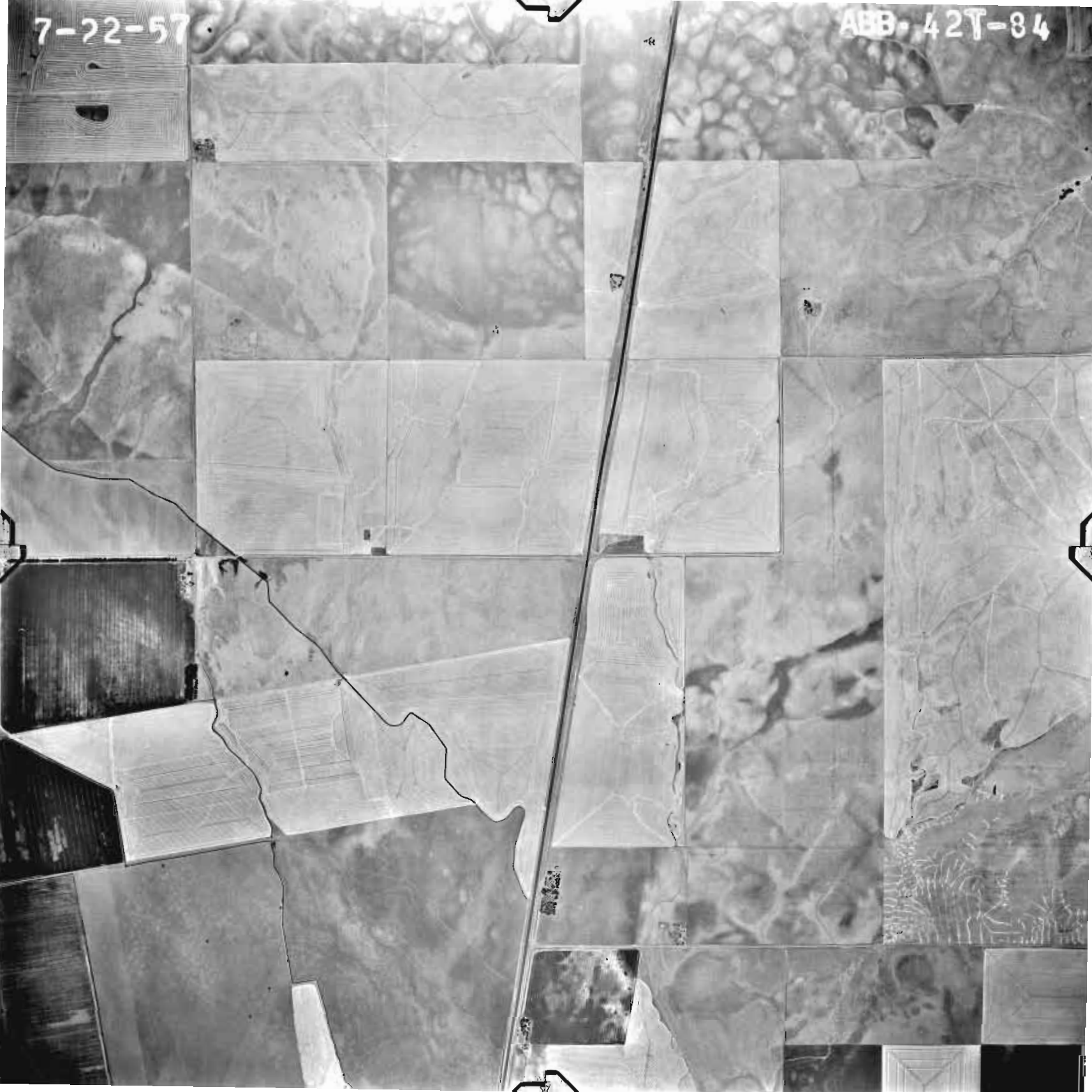
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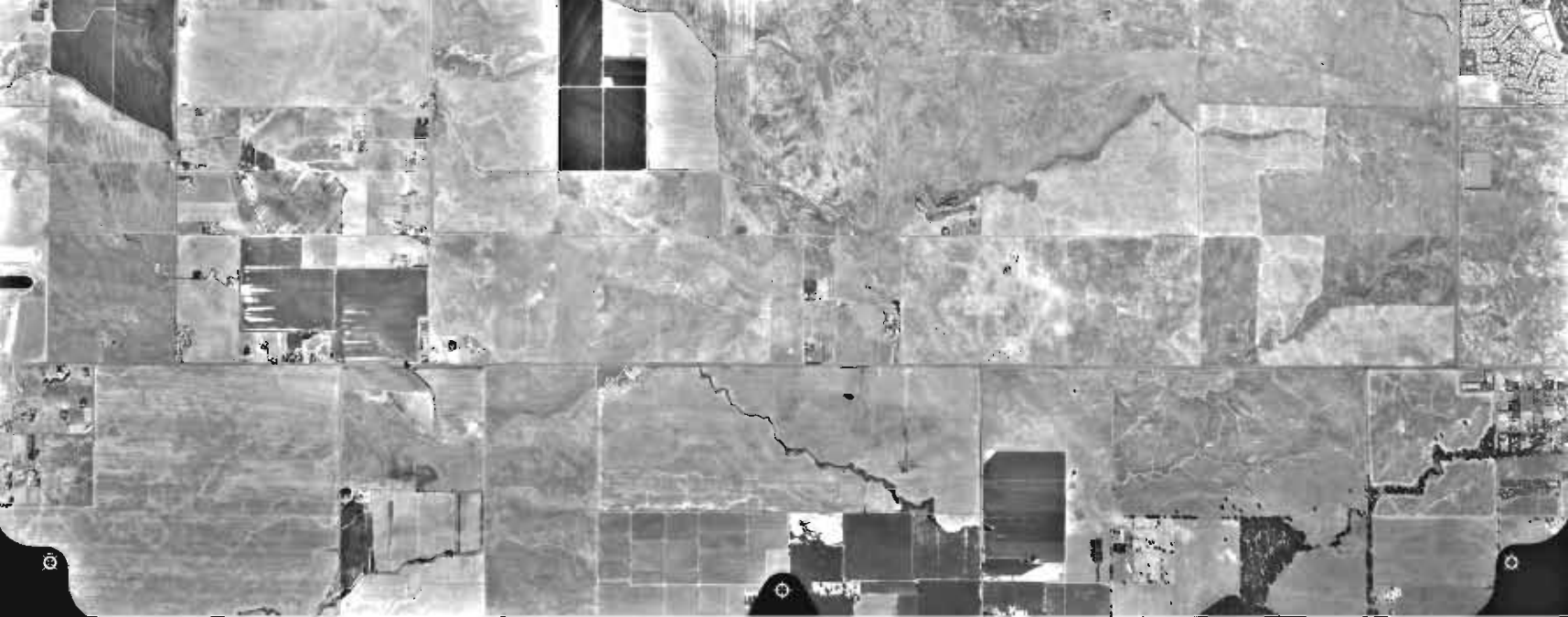


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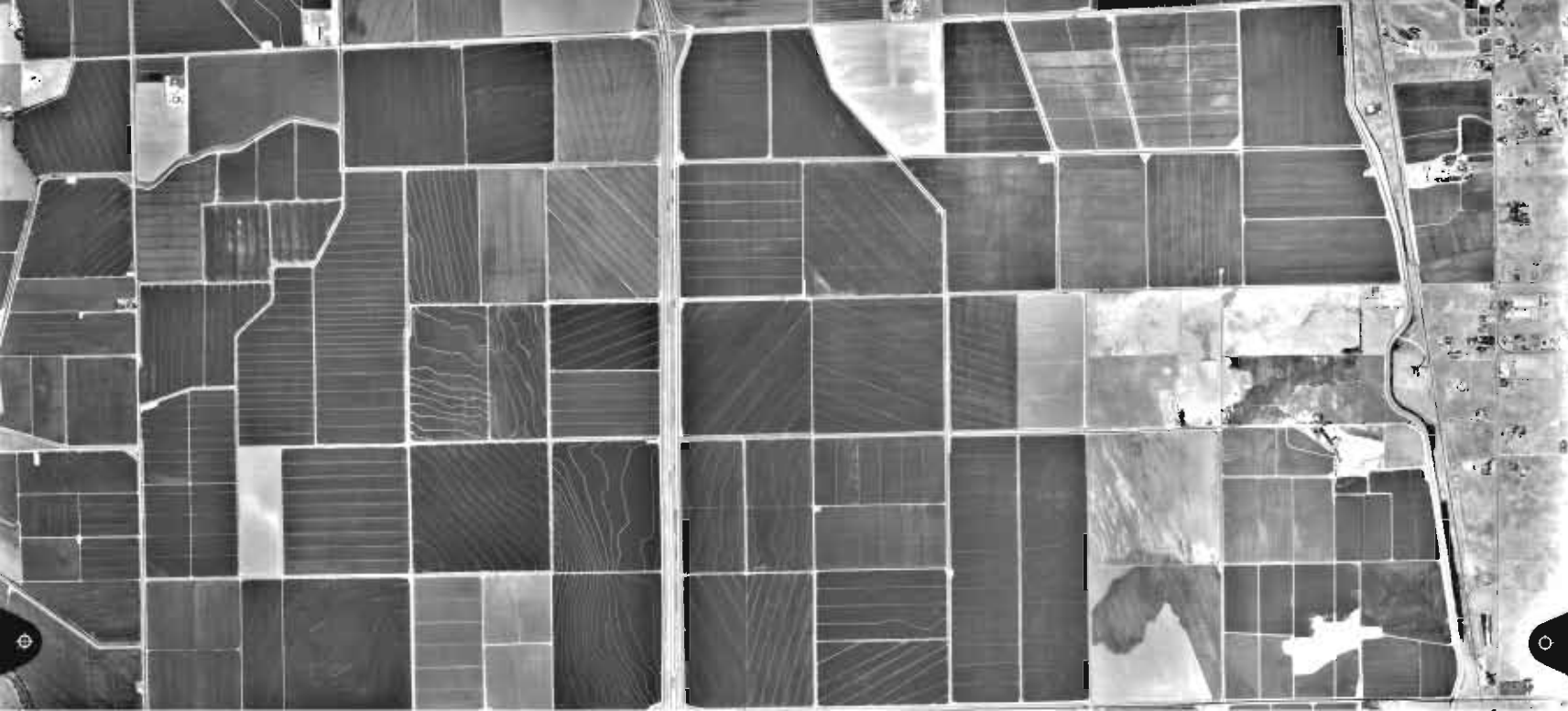


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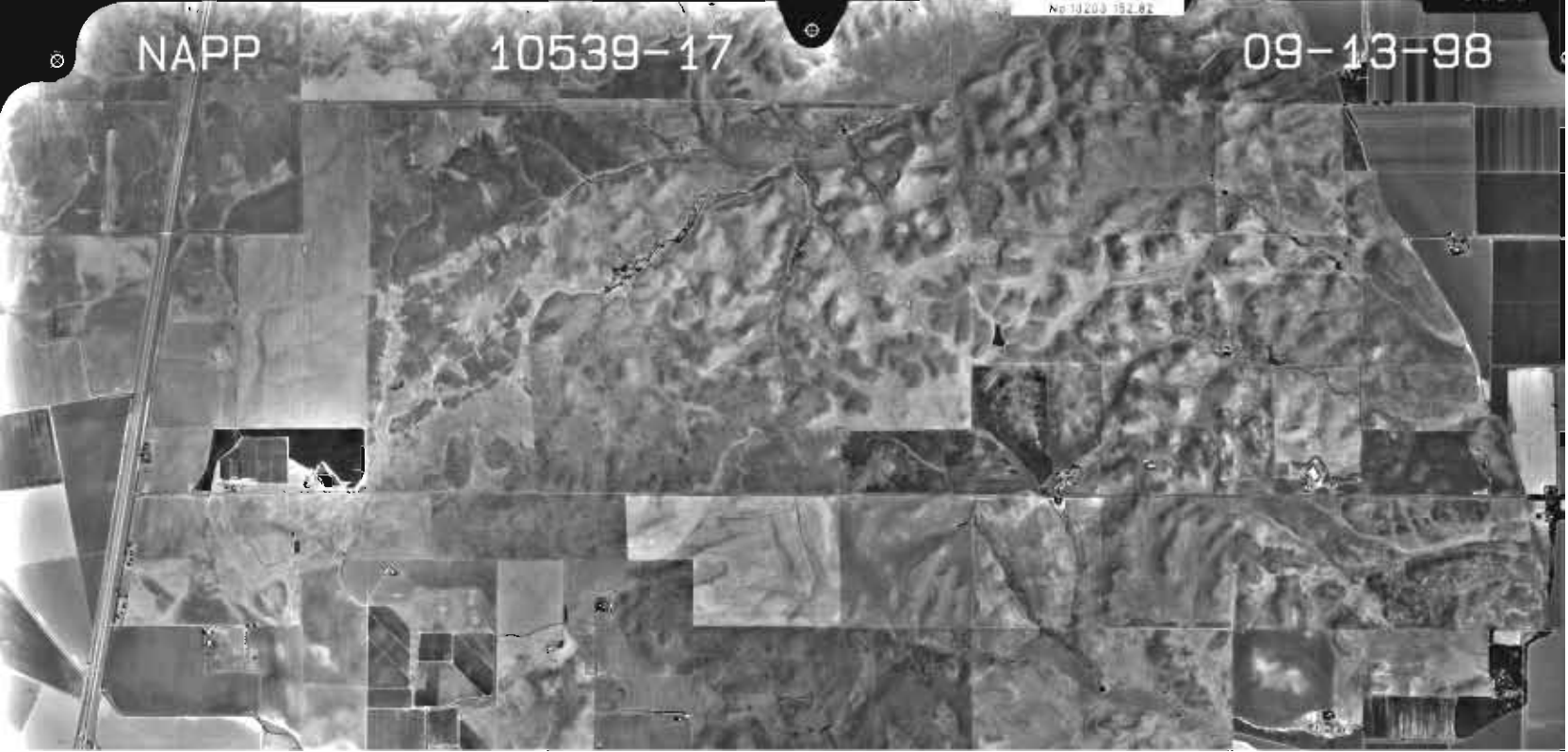
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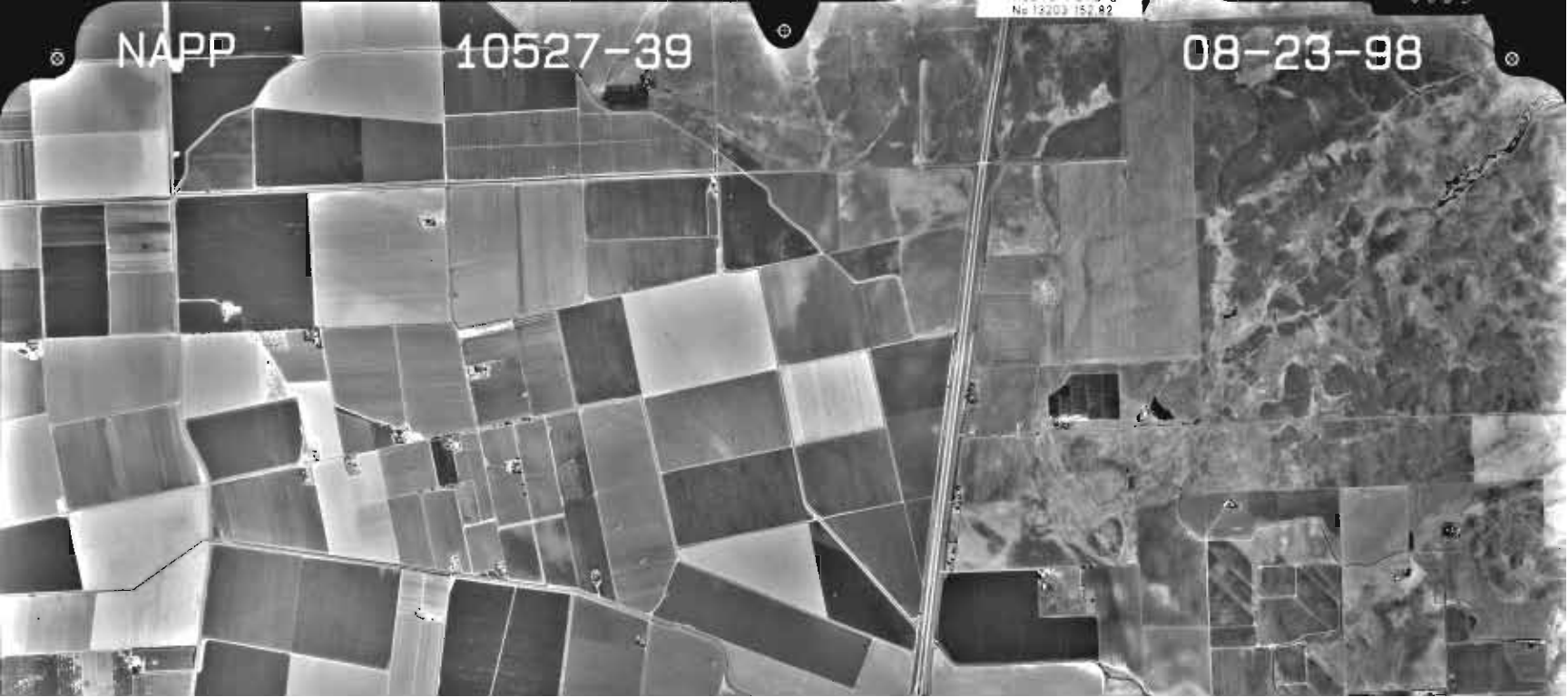
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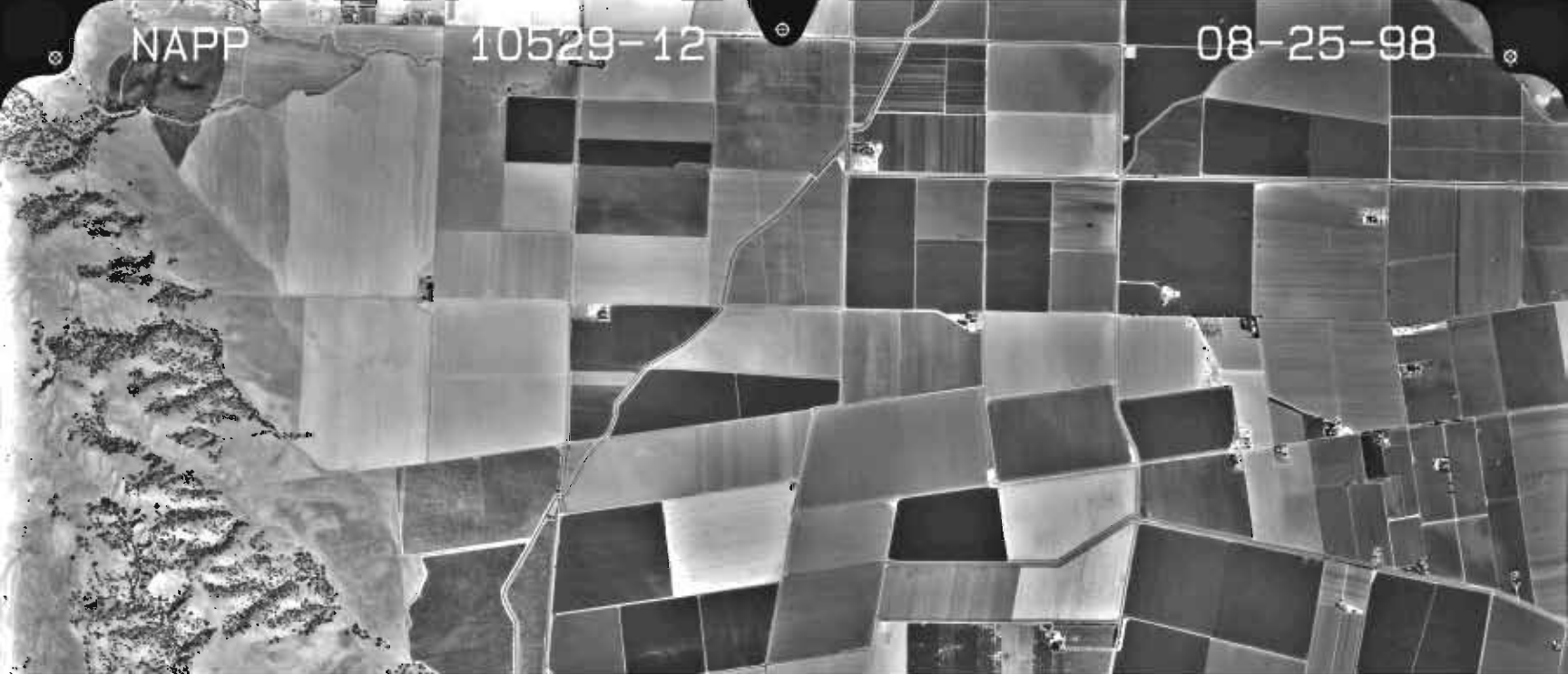
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# Appendix E: Qualifications

# WILLIAM BONO, R.E.A.

## PRESIDENT AND CHIEF OPERATING OFFICER

### EDUCATION

- New York State University, Brockport, Liberal Arts program, 1970
- San Mateo College, A&P Certificate program, 1972
- UC Davis Extension, Site Assessment and Remediation Certificate Program
- Health and Safety Training for Hazardous Waste Sites, 40 hours
- OSHA Health and Safety Training Refresher Course, 8 hours

### PROFESSIONAL HISTORY

- Will Bono Construction, Marin Co., CA, President 1976-1993
- Will Bono Environmental Services, Chico, CA, 1993-1995
- Hanover Environmental Services, Inc., Chico, CA; President/CEO, 1995 to present

### PROFESSIONAL AFFILIATIONS

- California State Contractor License, #323819, Class A, Hazardous Substance Removal
- California State Contractor License, #323819, Class B
- California State Contractor License, #323819, Class C
- Registered Environmental Assessor, Class I REA #04233

### REPRESENTATIVE EXPERIENCE

As President and Chief Operating Officer of Hanover, Mr. Bono has managed numerous environmental projects ranging from site assessments to characterization, remediation, and closure. His project experience includes design and construction of commercial buildings, site remediation, commercial fueling system design and construction projects. Since 1976 Mr. Bono has conducted business continuously with annual sales reaching $1.24M in 2001. Currently as Chief Operating Officer of Hanover, Mr. Bono manages over 40 sites in northern California under the auspices of the Regional Water Quality Control Board, the Air Quality Management District, and local county and fire department leads. His duties include allocation of equipment and personnel, billing, collection, and account maintenance.

# KAMIE N. LOESER, MRTP

**SENIOR PLANNER / PROJECT MANAGER**

## EDUCATION

- California State University Chico, MRTP., Master of Rural and Town Planning, 1997
- California State University Chico, BA., Geography and Planning, 1993

## CONTINUING EDUCATION

- Environmental Review of California Water Projects: Legal Requirements, Approaches and Techniques, UC Davis Extension, 2008

## PROFESSIONAL HISTORY

- Hanover Environmental Services, Inc., Chico, CA, Senior Planner, 2008-present
- California State University, Chico, CA, Department of Geography and Planning, Adjunct Faculty for Environmental Impact Analysis Class/GEOG 427, 2008-present
- Foothill Associates., Chico, CA, Senior Planner/Project Manager, 2006-2008
- Community Planning Solutions, Inc., Chico, CA, Principal Planner, 2001-2004
- Pacific Municipal Consultants, Chico, CA; Senior Planner, 1997-2001
- Northern California Planning and Research, Chico, CA, Municipal Planner, 1992-1997
- CSUC Research Foundation, Chico, CA, Planning Assistant and Project Coordinator, 1995-1997
- Wastewater Design Assessment District, Paradise, CA, Research Analyst, 1991-1993

## PROFESSIONAL AFFILIATIONS

- American Planning Association
- Association of Environmental Professionals

## REPRESENTATIVE EXPERIENCE

Ms. Loeser has over 15 years of experience in community and environmental planning and consulting both in the private and public sectors. Ms. Loeser is the Senior Planner/Project Manager for Environmental Planning and Land Management Services for Hanover and is responsible for overseeing and managing CEQA environmental projects and community planning projects for the company. Ms. Loeser has managed dozens of CEQA projects from Initial Studies/Environmental Checklists and Mitigated Negative Declarations to Environmental Impact Reports (EIRs) for planned developments and specific plans. In addition, she has worked on a variety of planning projects including general plan updates, specific plans, zoning ordinance amendments, recreation master plans, watershed management plans, visual resource assessments, community action plans, and economic development plans. Her educational background emphasizes community and rural development with particular focus on land use planning, community enhancement, visual design, natural resource management, recreation planning and environmental impact analysis. In addition, Ms. Loeser is the Instructor for the Environmental Impact Analysis course for the Department of Geography and Planning at California State University, Chico. Ms. Loeser has managed complex planning and environmental projects and values strong company and client relationships and is known for her organizational skills and personable project management style.

## REPRESENTATIVE LIST OF PROJECTS

***Community Planning Projects:***

- City of Colfax General Plan Update, 1997, City of Colfax
- City of Corning General Plan Update, 1994, City of Corning
- Community Action Plan for the Town of Washington, Nevada County
- Economic Development Plan for the Town of Washington, Nevada County
- Highway 99W Corridor Specific Plan, Initial Study/Mitigated Negative Declaration, and Zoning Ordinance Update for Mixed-Use Overlay Zone, City of Corning
- Indian Springs Vineyard Subdivision Pre-Application Submittal, Nevada County
- NWPs 12, 14, and 39 for DR Horton Home Builders, El Dorado County
- Sierra Buttes/Lakes Basin Recreation Master Plan, Sierra County
- Visual Design Guidelines for the Highway 99W Corridor, City of Corning

***Environmental Documentation:***

- Lake Front at Walker Ranch Administrative Draft EIR, Plumas County
- Cedar Grove Church Draft EIR, City of Livermore
- Daugherty Hill Wildlife Area Land Management Plan Initial Study/Mitigated Negative Declaration, Department of Fish and Game
- Garcia Ranch Single-Family Residential Unit Initial Study/Mitigated Negative Declaration, Department of Water Resources, State Reclamation Board
- Greenback Road Widening Project Draft EIR/EIS, City of Citrus Heights
- Manzanita Avenue Road Widening Project Administrative Draft EIR, City of Chico
- North Star Annexation Project Draft EIR, City of Grass Valley
- Northstar Village Draft EIR, Placer County
- Neal Road Landfill Expansion Draft EIR, Butte County
- New Westside Interceptor Eastside Road Alignment Initial Study/Mitigated Negative Declaration, City of Redding
- PG&E Hydrodivestiture EIR, California Public Utilities Commission
- Planned Community-2 (PC-2) Specific Plan EIR, Town of Truckee
- Pilot Hill Ranch Specific Plan Draft EIR, El Dorado County
- Presidio PUD and Community Park Draft EIR, City of Tracy
- Quail Lake Estates Draft EIR, Nevada County
- Rosamond Recreation Master Plan Initial Study/Mitigated Negative Declaration, City of Rosamond
- Roseburg Commerce Park Draft Development Plan and Draft EIR, City of Mount Shasta
- Salmon Falls Preserve Draft EIR, El Dorado County
- Shasta Valley Asphalt and Aggregate Project Draft EIR, City of Yreka
- Sierra Sky Ranch Subdivision and General Plan Amendment Draft EIR, Madera County
- Temple Beth El Draft EIR, City of Berkeley
- Village at Northstar Administrative Draft EIR, Northstar, California
- Wolf Creek Ranch Estates Draft EIR, Nevada County

# LUKE A. SMITH, B.S., CPESC

**ENVIRONMENTAL SCIENTIST**

## EDUCATION AND CERTIFICATIONS

- California State University, Chico, B.S., Agricultural Science, 2002
- Certified Professional in Erosion and Sediment Control, 2008

## SPECIALIZED TRAINING & REGISTRATIONS

- Health and Safety Training for Hazardous Waste Sites, 40 hours
- OSHA Health and Safety Training Refresher Course, 8 hours

## PROFESSIONAL HISTORY

- Hanover Environmental Services, Inc., Chico, CA; Environmental Scientist, 2004-present

## REPRESENTATIVE EXPERIENCE

Mr. Smith has a diversity of practical experience that allows him to engage in projects that deal with a variety of environmental situations. As Environmental Scientist for Hanover, Mr. Smith is responsible for the research, analysis and preparation of environmental science based projects including environmental permit facilitation, Spill Prevention Control and Countermeasure (SPCC) Plans, Phase I Environmental Site Assessments (ESA), Transactional Screen Assessments (TSA), Water Pollution Control Program (WPCP) Plans, and Storm Water Pollution Prevention Plans (SWPPP). Mr. Smith has completed SPCC(s), Phase I & II ESA(s), TSA(s), WPCP(s), and SWPPP(s) in their entirety.

## REPRESENTATIVE LIST OF PROJECTS

***Phase I Environmental Site Assessments:***

- Battle Creek Conservation Easement (The Nature Conservancy), Battle Creek, Tehama County CA
- Smith Dairy Farm, Elk Grove, Sacramento County CA
- Mount Shasta Spring Water, Chico, Butte County CA
- Bidwell Ranch Project, Chico, Butte County CA
- City of Chico Sewer Extension, Chico, Butte County 95928
- Truckee River Canyon Property (The Nature Conservancy), Sierra and Nevada Counties
- Ishi Wilderness Augmentation Project, Mineral, Tehama County, CA 96063
- Paradise Irrigation District, Paradise, Butte County, CA
- Point Reyes Affordable Housing, Point Reyes Station, Marin County, CA
- Sloughhouse Westerberg Farms Conservation Easements (Sacramento Valley Conservancy), Elk Grove, Sacramento County, CA

***SWPPP - Stormwater Pollution Prevention Plans:***

- Centerville Road Estates, Chico, Butte County CA
- Linkside Subdivision, Oroville, Butte County CA

- Del Vista Oro Subdivision, Oroville, Butte County CA
- Calle Vista Subdivision, Oroville, Butte County CA

***SPCC - Spill Prevention Countermeasure and Control Plans:***

- Guy Rents, Chico, Butte County CA
- Chambers Oil, Chico, Butte County CA
- Feather River Hospital, Oroville, Butte County CA
- Northgate Petroleum, Chico, Butte County CA
- Warner Petroleum, Chico, Butte County
- Squaw Creek Inn, Stoneyford, Colusa County CA
- Youth With A Mission, Chico, Butte County CA

# MIKE ANDRES, B.S.

## SENIOR GIS ANALYST

### EDUCATION

- California State University, Chico, B.S. in Geological Sciences
- California State University, Chico, Certificate in Geographical Information Systems

### PROFESSIONAL HISTORY

- Hanover Environmental Services, Inc., Chico, CA; GIS Analyst, 2007-present
- Gallaway Consulting, Inc., Chico, CA; GIS Analyst, 2005-2007
- City of Pleasanton, Pleasanton, CA; GIS Internship, 2005
- Zone 7 Water Agency, Pleasanton, CA; Water Resources Internship, 2004-2005
- Alameda County Public Works, Hayward, CA; Planning Internship, 2000-2004

### REPRESENTATIVE EXPERIENCE

As the Senior GIS Analyst for Hanover, Mr. Andres' responsibilities include GIS support for Hanover's Planners, Biologists, and Geologists. Specifically, Mr. Andres conducts the following tasks: cartographic design, spatial analysis, geostatistical analysis, digitizing, biological and environmental base map production, site assessments using remote sensing and sub-meter GPS data, vegetation and habitat mapping, historical photo site assessment, impact analysis, aerial and satellite image acquisition, geodatabase design and management, surface and subsurface 3D modeling, sub meter GPS surveys, watershed modeling, AutoCAD manipulation, digital printing of large format high resolution wall maps and CAD/GIS drawings, and web based internet mapping systems (IMS). Mr. Andres uses both integrated field data from a survey grade GPS unit as well as acquired data from various planning agencies. Mr. Andres utilizes multiple GIS, statistical, and graphics programs to produce a high quality product.

# H-2: Supplemental Environmental Site Assessment

# SUPPLEMENTAL
# SCREENING LEVEL
# ENVIRONMENTAL SITE ASSESSMENT

California State Lands Commission, PG&E Line Alternative Routes A – H
Yolo and Placer Counties

Project Number: MBA101-1A

Prepared for:

Michael Brandman Associates (MBA)
Attn: Ms. Chelsea Ayala
Bishop Ranch 3
2633 Camino Ramon, Suite 460
San Ramon, CA 94583

Prepared by:

HANOVER ENVIRONMENTAL SERVICES, INC.
1072 Marauder St., Suite 220
Chico, CA 95973

28 August 2008

# Table of Contents

# 1 Summary

Hanover Environmental Services, Inc. (Hanover) has performed a supplemental "screening level" Environmental Site Assessment (ESA) for the Pacific Gas & Electric Company's (PG&E) Natural Gas Pipelines 406 and 407 alternatives analysis, which is being prepared pursuant to the California Environmental Quality Act (CEQA). Specifically, this assessment examines the potential for recognized environmental conditions that may occur along the proposed alternative pipeline routes, identified as Options A through H. This analysis follows the format outline of the Environmental Protection Agency's (EPA) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and American Society for Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments E 1527-05. All exceptions to, or deletions from standard practices are described in Section 2.4 of this report.

While no environmental site assessment can fully eliminate the uncertainty regarding the potential for recognized environmental conditions, the ASTM standard does cite the balance between appropriate levels of inquiry and the cost of such exhaustive investigations. The information contained in this report would lead one to the opinion that the probability of recognized environmental conditions in association with the proposed alternative routes *is not s*ignificant enough to warrant further investigation at this time.

# 2 Introduction

## 2.1 Purpose

Hanover has prepared this supplemental "screening level" ESA under the direction of a State of California Registered Environmental Assessor. Per CEQA Guidelines standards of significance, this document serves to identify recognized environmental conditions that may create a significant hazard to the public or the environment through the reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment in association with the construction of the proposed project along the alternative routes.

The term recognized environmental conditions means the presence or the likely presence of any hazardous substances or petroleum products on a subject property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous material or petroleum product into structures on a subject property or into the ground, groundwater, or surface water of a subject property. The term includes hazardous substances or petroleum products even under conditions in compliance with existing laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. This report has been prepared in an objective and unbiased manner and, where practicable, in accordance with EPA AAI 40 CFR Part 312 and ASTM Practice E 1527-05 with all limitations and exceptions described in Section 2.4 of this report.

The proposed project's alternative pipeline alignments, identified as Options A through H, are alternative locations to the proposed PG&E Pipelines 406 and 407. This document has been prepared to assist in the preparation of the alternatives analysis for the Environmental Impact Report (EIR) being prepared pursuant to CEQA (Guidelines Section 15126.6). This document is for the use of Michael Brandman Associates (MBA/Client) and their assignees.

## 2.2 Detailed Scope-of-Services

This "screening level" assessment generally follows the format of the EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and ASTM Standard Practice for Environmental Site Assessments E 1527-05. The use of standard practices assists in providing an "all appropriate inquiry" into the previous uses of a property. However, all exceptions to, or deletions from standard practices are described in Section 2.4 of this report. This assessment included a review and analysis of available data pertaining to the alternative route Options. All data was provided by MBA. A site reconnaissance of the alternative route Options was performed to determine the potential existence or non-existence of recognized environmental conditions, now and in the past, and any potential contamination arising therefrom.

### *2.3 Significant Assumptions*

Hanover believes the results, specifications, conclusions and professional opinions to be accurate and relevant but cannot accept responsibility for the accuracy or completeness of public documentation or accuracy, completeness, or possible withholding of information by interviewees or other private parties. We make no other warranty, either expressed or implied.

### *2.4 Limitations, Exceptions, and Data Gaps*

The scope of services performed to complete this "screening level" ESA is limited in nature. Site conditions can change over time, and this assessment is not intended to predict future site conditions. Because of the limited scope and nature of this assessment, site history was developed based on information obtained during the site reconnaissance of the proposed alternative alignments as well as information provided by MBA, including aerial photos detailing the location of proposed alternative alignments. The site reconnaissance conducted for this assessment was limited to publicly accessible areas and roadways. Reconnaissance of the portions of the proposed alternative alignments that are located on private property was not conducted.

This report does not include a complete determination of the extent of, nor the environmental or public health impact of, known or suspected hazardous materials or wastes.

This "screening level" assessment did not include air, soil or water sampling, or laboratory analysis. Therefore, the results of this investigation do not preclude the possibility of hazardous substances being present on the subject properties, currently or in the future. This report does not purport to address all safety problems, if any, associated with the subject properties and alternative alignments.

In addition, this "screening level" assessment did not include a local government records research (including Title Reports and Historic Use Information obtained from, although not limited to, the following: Assessor's Office, Building Department, Environmental Health Department, Agricultural Department, Water Districts or Associations, Fire Department).

Interviews with property owners, occupants, local government officials, and others were not conducted as part of this assessment.

The following are several non-scope considerations that persons may want to assess in connection with commercial real estate. No implication is intended as to the relative importance of inquiry into such non-scope considerations, and this list is not intended to be all-inclusive:

Asbestos
Radon
Lead-based paint
Lead in drinking water
Wetlands
Regulatory compliance
Cultural and historic resources
Health and safety
Ecological resources
Endangered species
Air quality
Water quality

While the Hanover representative collected reasonably ascertainable historical information, gaps in evidence of historic and some existing property uses exist.

Despite these limitations it is the opinion of Will Bono, Registered Environmental Assessor #04233, that this "screening level" assessment provides an appropriate degree of inquiry to determine if potential recognized environmental conditions exist along the proposed alternative alignment Options consistent with the thresholds of significance identified by CEQA as they pertain to the "reasonably foreseeable upset…involving the release

of hazardous materials…" as well as for the evaluation of project alternatives, per CEQA Guidelines Section 15126.6, which requires that an EIR include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the proposed project.

However, given the limited access to the alternative alignments and the limitations and exceptions to this assessment described above, a site specific evaluation and complete Phase 1 Environmental Site Assessment that meets the requirements of applicable standards and practices should be conducted once a final alignment has been identified and prior to construction activities; thereby providing an "all appropriate inquiry" into the previous uses of applicable properties and the potential for risk of upset to hazardous materials.

### *2.5 Environmental Personnel*

This assessment was conducted under the supervision of Will Bono, Registered Environmental Assessor #04233. The following Hanover Environmental Services, Inc. personnel contributed to the assessment:

- Will Bono, REA#04233, provided supervision, review, and opinions/conclusions.
- Kamie Loeser, Senior Planner, provided review, and opinions/conclusions.
- Luke Smith, Environmental Scientist, reviewed existing and available data, performed site reconnaissance and prepared the report.

## *3 Site Description*

The Hanover representative performed a site reconnaissance of the proposed alternative alignments on August 19th and 21st 2008.

### *3.1 Location and Legal Description*

Alternative routes A, B, C, D, E, F, G, H (no physical address recorded). Refer to the Appendix A Project Alternatives Map.

### *3.2 Site and Vicinity Characteristics*

The alternative pipeline routes, designated A through H, are located in the Sacramento Valley that extends from Esparta in Yolo County to Roseville in Placer County. The Sacramento Valley encompasses the northern one-third of the Central Valley of California, which extends approximately 400 miles from the Tehachapi Mountains in the south to the Klamath-Siskiyou Mountains in the north. The Sacramento Valley trough is strongly asymmetric with the deepest part of the trough west of the apparent surface axis of the valley. The valley is bordered to the east by the Sierra Nevada, to the north by the Cascade Range, and to the west by the Coast Ranges. The Sacramento River is the north-south drainage that extends from the northern portion of the Central Valley south to the Sacramento-San Joaquin Delta.

The project area varies in elevation. Topography of the corridor is relatively flat, sloping in a various directions. Regional topography in the vicinity slopes toward the Sacramento River, which the project corridor crosses over.

### *3.3 Current Land Uses*

At the time of the August 19 and 21, 2008 site inspections the project area was structurally undeveloped. Land uses within the project area consist of undeveloped natural land associated with drainages and waterways as well as agricultural uses and associated facilities and residences.

### *3.4 Descriptions of Structures, Roads, Other Improvements Within the Project Area*

Portions of the alternative routes follow existing utility right-of-ways that cross agricultural fields, streets, highways and waterways. Sections parallel roads and overhead power lines with pole-mounted transformers. During the site reconnaissance the Hanover representative inspected transformers for any visual signs of leaks. For areas that could be accessed, there were no structural developments observed within the subject corridors at the time of inspection.

### *3.5 Current Uses of the Adjoining Properties*

Properties adjacent to the alternative routes were used for agricultural and residential purposes.

### *3.6 Summary of Historical Use of the Subject Property*

The project corridor is primarily undeveloped. Historical uses of the alternative alignments include public utilities with surrounding properties used for agriculture.

## *4 User Provided Information*

Provided below is a discussion of information provided by Michael Brandman Associates (MBA/client).

### *4.1 Title Records*

A Preliminary Title Report was not supplied by MBA. Title Reports would allow for the determination if environmental liens or activity and use limitations exist on subject properties.

### *4.2 Environmental Liens or Activity and Use Limitations*

MBA did not report environmental liens or activity and use limitations due to hazardous material issues on the subject properties.

### *4.3 Specialized Knowledge*

There was no specialized knowledge of any recognized environmental conditions recorded, reported or discussed on the subject or surrounding properties.

### *4.4 Commonly Known or Reasonably Ascertainable Information*

There was no commonly known or reasonably ascertainable information on the subject properties pertaining to any recognized environmental conditions recorded, reported or discussed on the subject or surrounding properties.

### *4.5 Valuation Reduction for Environmental Issues*

MBA did not indicate as to whether or not there is a known valuation reduction for the subject properties due to environmental issues.

### *4.6 Owner, Property Manager, and Occupant Information*

| | |
|---|---|
| Property Owners: | Not applicable |
| Property Occupant: | Not applicable |
| Key Site/EIR Project Manager: | Ms. Chelsea Ayala, Michael Brandman Associates (MBA), was identified as the CEQA Project Manager |

### *4.7 Reason for Performing Screening Level Environmental Analysis*

PG&E plans to install an underground natural gas pipeline from Esparta in Yolo County to Roseville in Placer County. These pipelines are identified as Line 406 and Line 407. The purpose of this supplemental "screening level" ESA is to assist in identifying any potential hazardous materials that could exist within the proposed project's alternative alignments, as part of the EIR's Alternatives Analysis, and the risk of upset of hazardous materials that could occur during implementation and construction of the project (per CEQA significance criteria).

### *4.8 Other*

Ms. Chelsea Ayala, MBA affiliate, supplied Hanover with supplemental information regarding the alternative alignments, including alternative alignment descriptions and aerial photos depicting their locations. Background data was utilized to distinguish project boundaries and landscape details. No known recognized environmental conditions were reported or recorded by MBA or their affiliates.

# 5 Site Reconnaissance

## 5.1 Methodology and Limiting Conditions

A Hanover representative performed a site reconnaissance of the alternative alignments on August 19 and 21, 2008, the purpose of which was to obtain information indicating the likelihood of identifying recognized environmental conditions.

The periphery of each alternative alignment was visually and/or physically observed. Parcels within the alternative routes were viewed from all adjacent public thoroughfares and right-of-ways. For general information about the subject properties, Hanover relied on information provided by MBA, which included a summary of each alternative and aerial location maps.

While the Hanover representative collected reasonably ascertainable historical information, gaps in evidence of individual property uses exists; please refer to Section 2.4, Limitations, Exceptions and Data Gaps, of this report.

## 5.2 General Site Setting

Weather conditions during the August 19 and 21, 2008 site inspections were dry and cloudy with temperatures in the 90°F range. With the exception of a portion of alternative alignment Option G, the alternative routes were primarily undeveloped. Adjoining properties were agricultural residential in nature. Please refer to Appendix A-Project Alternatives, Appendix B-Alternate Routes Maps 1 through 6, and Appendix C-Site Reconnaissance Photographs.

## 5.3 Alternative Route Options and Observations

### 5.3.1 Option A

#### 5.3.1.1 Description

From existing Lines 400 and 401, this alternative would follow CR 16 to I-505, then head north through a grape vineyard to align with CR 15B on the west side of I-505. The route would continue east on CR 15B through the Dunnigan Hills and across Smith Creek until CR 15B it becomes CR 93. From this juncture, this alternative would continue east from the intersection of CR 15B and CR 93, and proceed cross-country to Line 172A just south of the town of Dufour. It would then parallel Line 172A south to the tie-in point with Line 172A and Line 407, north of the town of Yolo.

#### 5.3.1.2 Exterior Observations

- Option A (Photos 1-5)
    - County Road (CR) 16 was not accessible west of CR 85. An organic farm was located to the north and east.
    - At CR 87 an abandoned, empty steel diesel tank was located near an irrigation canal. There was no visual evidence of staining around the tank, nor odors in the surrounding vicinity. Based upon the observations around the location of the tank it was not considered as a recognized environmental condition. Refer to Photo 5.
    - East of Highway 505, Option A followed CR 15B. North of CR 15B a wine processing facility was being constructed. Option A was not accessible east of CR 93.
    - Based upon the observations made and review of current aerial photos identifying the proposed alignment, no recognized environmental conditions were observed.

### *5.3.2 Option B*

#### 5.3.2.1 Description

Option B starts 1.5 miles north of the preferred L-400/401/406 connection point, and travels east along farm roads, crossing CR 86 and aligning with CR 16. The route would continue along the south side of CR 16 for approximately three miles to CR 86, and then turn south along farm roads to a point intercepting the proposed I-505 crossing.

#### 5.3.2.2 Exterior Observations

- Option B (Photos 6-7)
    - County Road (CR) 16 was not accessible west of CR 85.
    - Based upon the observations made from public thoroughfares and review of current aerial photos identifying the proposed alignment there were no recognized environmental conditions in association with this alternative route.

### *5.3.3 Option C*

#### 5.3.3.1 Description

Option C follows the proposed alignment of Line 406 from the Capay Metering Station to the Hungry Hollow Canal, which it parallels northeast until crossing to line up with an unnamed farm road to the east. This alternative crosses CR 85 and runs east along the farm road and the northern edge of Microp Limited Property, APN # 048-140-140-191. At the end of the property, the route turns south along another unnamed farm road until it intersects the proposed Line 406 route, which it then follows to the Yolo Junction Station. This option would increase the overall pipeline length by roughly 1,150 feet.

#### 5.3.3.2 Exterior Observations

- Option C
    - Not accessible due to a private drive.
    - Aerial maps were used to supplement a physical inspection of this route.
    - Based upon the observations made from the aerial photographs, there are no recognized environmental condition in association with this alternative.

### *5.3.4 Option D*

#### 5.3.4.1 Description

This alternative would involve a minor variation to the proposed Line 406 in the vicinity of the Hungry Hollow area in north-central Yolo County, but it would maintain Line 406 within CR 17 east of CR 87, and then travel south after crossing an unnamed irrigation lateral where it would realign with the proposed Line 406 route, just west of the I-505 HDD crossing. East of I-505, this alternative would follow the same alignment as the proposed Project.

#### 5.3.4.2 Exterior Observations

- Option D (Photos 9-11)
    - An empty 1,000-gallon poly aboveground storage tank (AST) was located on the eastern portion of the route.
    - Ten (10) transformers are located along this alignment; no leaks were observed.
    - Based upon the observations made from public thoroughfares there are no recognized environmental condition in association with the subject route.

### *5.3.5 Option E*

#### 5.3.5.1 Description

Option E would involve a minor realignment of the proposed Line 406 route. This would position the route to follow CR 19, east of CR 87. At CR 19A, it would extend back to the north via an existing dirt road and underneath a large electrical transmission corridor. This variation would then cross an irrigation lateral and continue north where it would converge back with the proposed Line 406 route, just west of I-505. From here this alternative would follow the same route as the proposed Project east of I-505.

#### 5.3.5.2 Exterior Observations

- Option E (Photos 12-14)
    - Two (2) transformers are located along this alignment; no leaks were observed.
    - One (1) agricultural pump facility is located along this alignment; no leaks were observed.
    - Based upon the observations made from public thoroughfares there are no recognized environmental condition in association with the subject route.

### *5.3.6 Option F*

#### 5.3.6.1 Description

Option F follows the preferred alignment for Line 406 from Lines 400 and 401 to the eastern end of the Dunnigan Hills, where it turns north off CR 17 approximately 5,000 feet west of CR 95A in order to avoid segmenting a row crop field. This alternative would not alter the length of the segment, but would align with the I-5 crossing further west of the proposed alignment.

#### 5.3.6.2 Exterior Observations

- Option F
    - Not accessible due to a private drive.
    - Aerial maps were used to supplement a physical inspection of this route.
    - Based upon the observations made from the aerial photographs there are no recognized environmental condition in association with the subject route.

### *5.3.7 Option G*

#### 5.3.7.1 Description

Option G is located at the western end of Line 407 West, just east of the Yolo Junction Station and existing Line 172A. This alternative leaves the proposed Yolo Junction station and aligns with an un-named farm road, which it follows along a field edge until the intersection of CR 16A and CR 98. This alternative would not alter the length of the segment.

#### 5.3.7.2 Exterior Observations

- Option G
    - This alignment was not accessible from a public roadway or right-of-way.
    - Aerial maps were used to supplement a physical inspection of this route.
    - Structural development is observed on the eastern portion of this route.
    - Based upon the observations made from the aerial photographs there is not enough information to determine if recognized environmental conditions exist.

### *5.3.8 Option H*

5.3.8.1 Description

Near the western levee of the Yolo Bypass, this option would head southeast through agricultural fields within the Yolo Bypass to a point on the Sacramento River directly across from West Elverta Road. It would then cross the Sacramento River and parallel West Elverta Road to Powerline Road. The route would head north paralleling Powerline Road to Riego Road and would then parallel Riego Road through the Natomas Basin Conservancy to Steelhead Creek. The route would parallel the northern border of the Placer Vineyards Specific Plan area along Baseline Road (Riego Road becomes Baseline Road in Placer County) until the tie-in with Line 123 at the intersection of Baseline and Fiddyment Roads.

5.3.8.2 Exterior Observations

- Option H
  - Portions of this route were not accessible due to the lack of roads and private property.
  - Aerial maps were used to supplement a physical inspection of this route.
  - Based upon the observations made from the aerial photographs there are no recognized environmental conditions in association with the subject route.

### *5.4 Interior Observations*

Per the scope of work for this "screening level" analysis, access to areas where the proposed pipeline alternative alignments crossed private property was not available. Therefore, evaluation of the interior portions of the alternative alignments (areas not accessible from public roadways and right-of-ways) was not conducted. The determinations for the potential for recognized environmental conditions were based upon review of aerial maps provided by the Client and consideration of the historic land uses of the area.

## *6 Interviews*

***Interview with Property Owner Representative***

Interviews were not conducted as a part of this "screening level" assessment.

***Interviews with Local Government Officials***

Interviews were not conducted as a part of this "screening level" assessment.

## *7 Findings, Opinions, and Conclusions*

Hanover Environmental Services, Inc. (Hanover) has performed a "screening level" ESA. This "screening level" assessment follows the format outline of the EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and ASTM Standard Practice for Environmental Site Assessments E 1527-05 for the subject properties described as alternative routes Options A though H. Any exceptions to, or deletions from standard practices are described in Section 2.4 of this report.

While no environmental site assessment can fully eliminate the uncertainty regarding the potential for recognized environmental conditions, the ASTM standard does cite the balance between appropriate levels of inquiry and the cost of such exhaustive investigations.

Using the information provided by MBA, including aerial photos depicting the locations of each alternative alignment Option, and site reconnaissance, this assessment has revealed no evidence of recognized environmental conditions in connection with the alternative alignment Options A through H at this time.

However, given the limited access to the alternative alignments Options, particularly Option G, a site specific evaluation and complete Phase 1 Environmental Site Assessment that meets the requirements of

applicable standards and practices should be conducted once a final alignment has been identified and prior to construction activities; thereby providing an "all appropriate inquiry" into the previous uses of applicable properties and the potential for risk of upset to hazardous materials.

## *8 Qualification and Signature*

Hanover Environmental Services, Inc. has performed this supplemental "screening level" assessment under my supervision. Where applicable, this assessment has been conducted in accordance with generally accepted environmental practices and procedures, as of the date of this report. However, all Limitations, Exceptions, and Data Gaps are described in Section 2.4 of this report. Because this is a "screening level" assessment, it is not the intention of this evaluation to meet the criteria and standards of the Environmental Protection Agency's (EPA) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) and American Society for Testing and Materials (ASTM) Standard Practices for Environmental Site Assessments E 1527-05.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312. I have employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area. The conclusions contained within this assessment are based upon site conditions readily observed or were reasonably ascertainable and present at the time of the site inspections.

The conclusions and recommendations stated in this report are based upon personal observations made by employees of Hanover Environmental Services, Inc. and upon information provided by others. I have no reason to suspect or believe that the information provided is inaccurate.

Signature of Senior Environmental Assessor - *Will Bono, REA #04233*

Signature/Seal of Senior Environmental Assessor

28 August 2008
Date

# Appendix A-Project Alternatives Map

Option A
Option B
Option C
Option D
Option E
Option F
Option G
Option H
SUTTER CO.
YOLO CO.
PLACER CO.
SACRAMENTO CO.
Sacramento River
Feather River
Cache Creek
Corry Creek
Natomas East Main Drainage Canal
Knights Landing Ridge Cut
Yolo Bypass
Tule Canal
Roseville
Rocklin
Lincoln
Loomis
Penryn
Granite Bay
Folsom
Orangevale
Citrus Heights
Rio Linda
Elverta
Antelope
Foothill Farms
North Highlands
Sacramento
Carmichael
Arden-Arcade
West Sacramento
Woodland
Esparto
Davis
Dunnigan
NICOLAUS AVE
MARYSUM RD
NICOLAUS RD
MOORE RD
ATHENS AVE
SUNSET BLVD W
MOWSLEY RD
PHILIP RD
KEYS RD
SANKEY RD
BLUE OAKS BLVD
FOOTHILL BLVD
RIEGO RD
W RIEGO RD
BASE LINE RD
COUNTRY ACRES LN
SCHNOOR RD
OLD ORCHARD LN
LOCUST RD
S BREWER RD
SORRENTO RD
POWERLINE RD
PRITCHARD LANE RD
LONE TREE RD
W ELVERTA RD
ELVERTA RD
WALERGA RD
WATT AVE
FALLADAY RD
N ANTELOPE RD
W ELKHORN BLVD
E LEVEE RD
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# Line 406 and Line 407 Pipeline Project
# Project Alternatives to Evaluate

Preferred Route

Options

A
B
C
D
E
F
G
H

Alternatives to Evaluate

Existing Gas Pipeline

Highway

Roads

Incorporated Area

County Boundary

Hydrology

N
W
E
S

0 1 2 3 4 5 10 Miles

Scale 1: 80,000 when printed on 24x36 paper

# Appendix B-Alternate Routes

# Line 406 and Line 407 Pipeline Project Alternate Routes

Map 1 of 6

Alternatives to Evaluate

300 ft Buffer

Preferred Route

Bore/ HDD

Alternate Bore/HDD

Existing Gas Pipeline of Interest

CO. ROAD 85

CO. ROAD 16A

CO. ROAD 16A

CO. ROAD 86

401

406

N

W

E

S

0 250 500 1,000 feet

Scale 1: 12,000
1 inch equals 1,000 feet
when printed size 11x17

PG&E

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# Line 406 and Line 407 Pipeline Project Alternate Routes

Map 2 of 6

Alternatives to Evaluate

300 ft Buffer

Preferred Route

Bore/ HDD

Alternate Bore/HDD

Existing Gas Pipeline of Interest

N
W E
S

0 250 500 1,000 feet

Scale 1: 12,000
1 inch equals 1,000 feet
when printed size 11x17

PG&E

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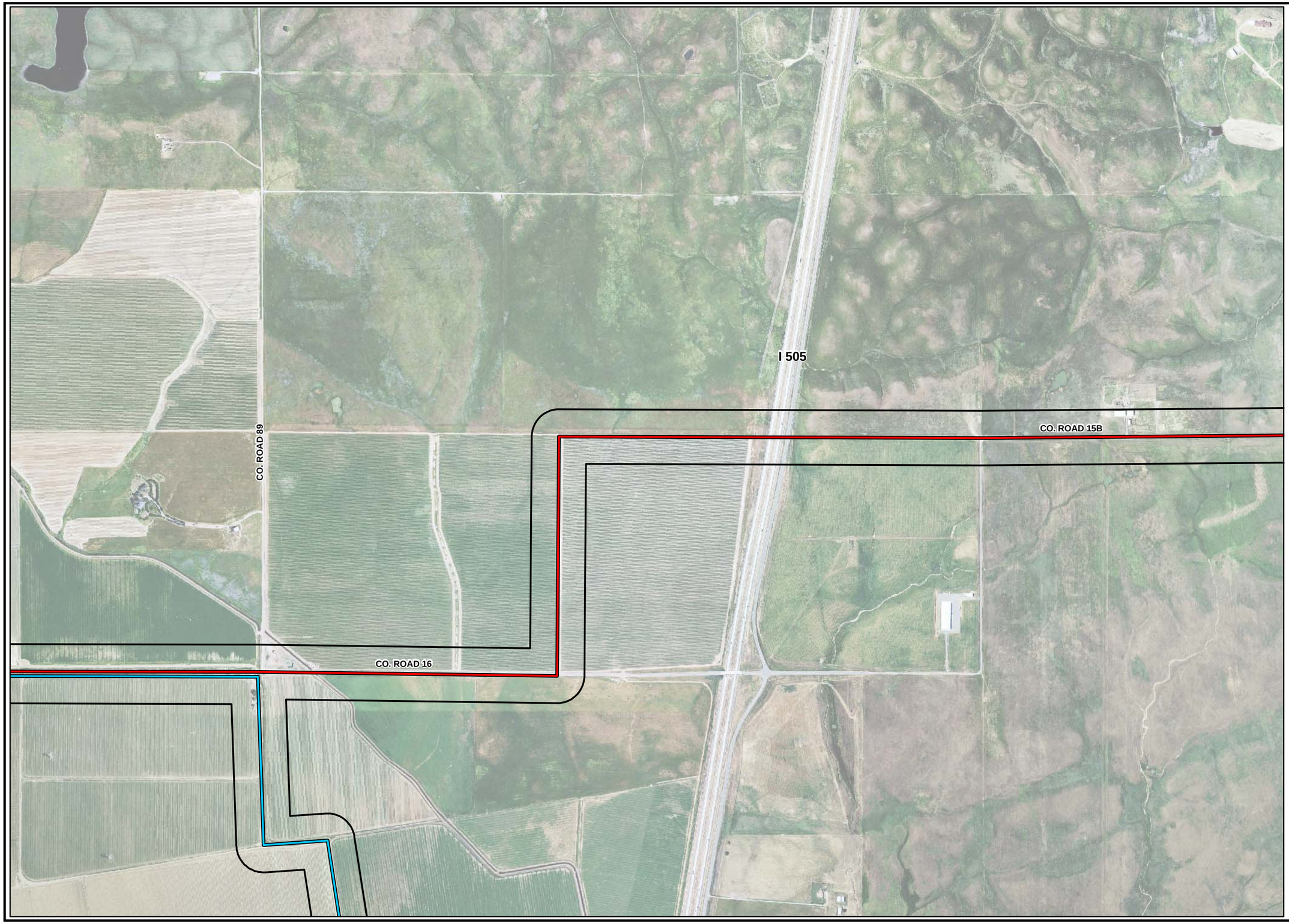
# Line 406 and Line 407 Pipeline Project Alternate Routes

Map 3 of 6




Alternatives to Evaluate

300 ft Buffer

Preferred Route

Bore/ HDD

Alternate Bore/HDD

Existing Gas Pipeline of Interest

N
W
E
S

0 250 500 1,000 feet

Scale 1: 12,000
1 inch equals 1,000 feet
when printed size 11x17

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