Appendix A:
Photographs and Maps

Appendix A: Photographs and Maps

INTRODUCTORY MAPS AND PHOTOGRAPHS		
No.	**Date**	**Document**
1	2009	Ownership Map
2	2009	Site Layout Map
3	2009	Parcel Acquisition Map
4	2009	Morris and Crocker Location Map
5	2009	East Materials Storage Area Overview Map
SITE-WIDE IMAGES AND AERIALS: 1899 – 2009		
No.	**Date**	**Document**
6	1899	USGS Map of Permanente Quarry
7	1939	Aerial Photograph of Property
8	1948	Aerial Photograph of Property
9	1950	Aerial Photograph of Property
10	1956	Aerial Photograph of Property
11	1965	Aerial Photograph of Property
12	1975	Aerial Photograph of Property
13	1985	Aerial Photograph of Property
14	1991	Aerial Photograph of Property
15	1993	Aerial Photograph of Property
16	2005	Aerial Photograph of Property
17	2009	Aerial Photograph of Property
EMSA MAPS AND PHOTOGRAPHS: 1941 – 2009		
No.	**Date**	**Document**
18	March, 1941	Aerial Photograph of EMSA
19	Late 1941	Aerial Photograph of EMSA
20	1942	Aerial Photograph of EMSA
21	1942	Aerial Photograph of EMSA
22	1948	Aerial Photograph of EMSA
23	1950	Aerial Photograph of EMSA
24	1955	Aerial Photograph of EMSA
25	1974	Aerial Photograph of EMSA
26	1974	Aerial Photograph of EMSA
27	1974	Aerial Photograph of EMSA
28	1980	Aerial Photograph of EMSA
29	1984	Aerial Photograph of EMSA
30	1991	Aerial Photograph of EMSA
31	2005	Aerial Photograph of EMSA
32	2009	Aerial Photograph of EMSA
AREA-SPECIFIC MAPS		
No.	**Date**	**Document**
33	2009	Permanente Quarry Comprehensive Reclamation Plan Map
34	2005	Ultimate Reclaimed Condition Map
35	2009	South Quarry Use Permit Map
36	1948	1939-1943 Ownership Map
37	2009	1939-1943 Ownership Map
38	2009	Morris Road Map

39	1942	Access Road Map
40	1948	Crocker Roads Map
41	Undated	Exploratory Drilling Map
42	2009	EMSA Deed Boundaries Map
43	December, 2010	EMSA Historic Progression Map
COLLECTED PHOTOGRAPHS: 1939 – 2009		
No.	**Date**	**Source**
44	Undated	Lehigh Southwest Cement Co.
45	1939	EDR
46	August 1, 1939	HJW
47	August 1, 1939	HJW
48	Spring 1939	Lehigh Southwest Cement Co.
49	September 18, 1939	Lehigh Southwest Cement Co.
50	December 18, 1939	Lehigh Southwest Cement Co.
51	December 18, 1939	Lehigh Southwest Cement Co.
52	October 4, 1939	Lehigh Southwest Cement Co.
53	December 22, 1939	Lehigh Southwest Cement Co.
54	October 4, 1939	Lehigh Southwest Cement Co.
55	December 22, 1939	Lehigh Southwest Cement Co.
56	1939	Lehigh Southwest Cement Co.
57	September 15, 1939	Lehigh Southwest Cement Co.
58	October 9, 1939	Lehigh Southwest Cement Co.
59	October 13, 1939	Lehigh Southwest Cement Co.
60	September 21, 1939	Lehigh Southwest Cement Co.
61	October 4, 1939	Lehigh Southwest Cement Co.
62	1939	Lehigh Southwest Cement Co.
63	October 20, 1939	History San Jose Museum
64	1940	Lehigh Southwest Cement Co.
65	May 15, 1940	Lehigh Southwest Cement Co.
66	1940	Lehigh Southwest Cement Co.
67	1940	Lehigh Southwest Cement Co.
68	June 22, 1940	Lehigh Southwest Cement Co.
69	May 17, 1940	Lehigh Southwest Cement Co.
70	May 8, 1940	Lehigh Southwest Cement Co.
71	May 3, 1940	Lehigh Southwest Cement Co.
72	July 23, 1940	Lehigh Southwest Cement Co.
73	June 22, 1940	Lehigh Southwest Cement Co.
74	June 22, 1940	Lehigh Southwest Cement Co.
75	May 17, 1940	Lehigh Southwest Cement Co.
76	April 22, 1940	Lehigh Southwest Cement Co.
77	May 3, 1940	Lehigh Southwest Cement Co.
78	May 17, 1940	Lehigh Southwest Cement Co.
79	July 16, 1940	Lehigh Southwest Cement Co.
80	January 31, 1940	Lehigh Southwest Cement Co.
81	March 9, 1941	Lehigh Southwest Cement Co.
82	November 18, 1941	Lehigh Southwest Cement Co.
83	May 21, 1941	Lehigh Southwest Cement Co.
84	April 1, 1941	Lehigh Southwest Cement Co.
85	March 4, 1941	Lehigh Southwest Cement Co.
86	March 4, 1941	Lehigh Southwest Cement Co.

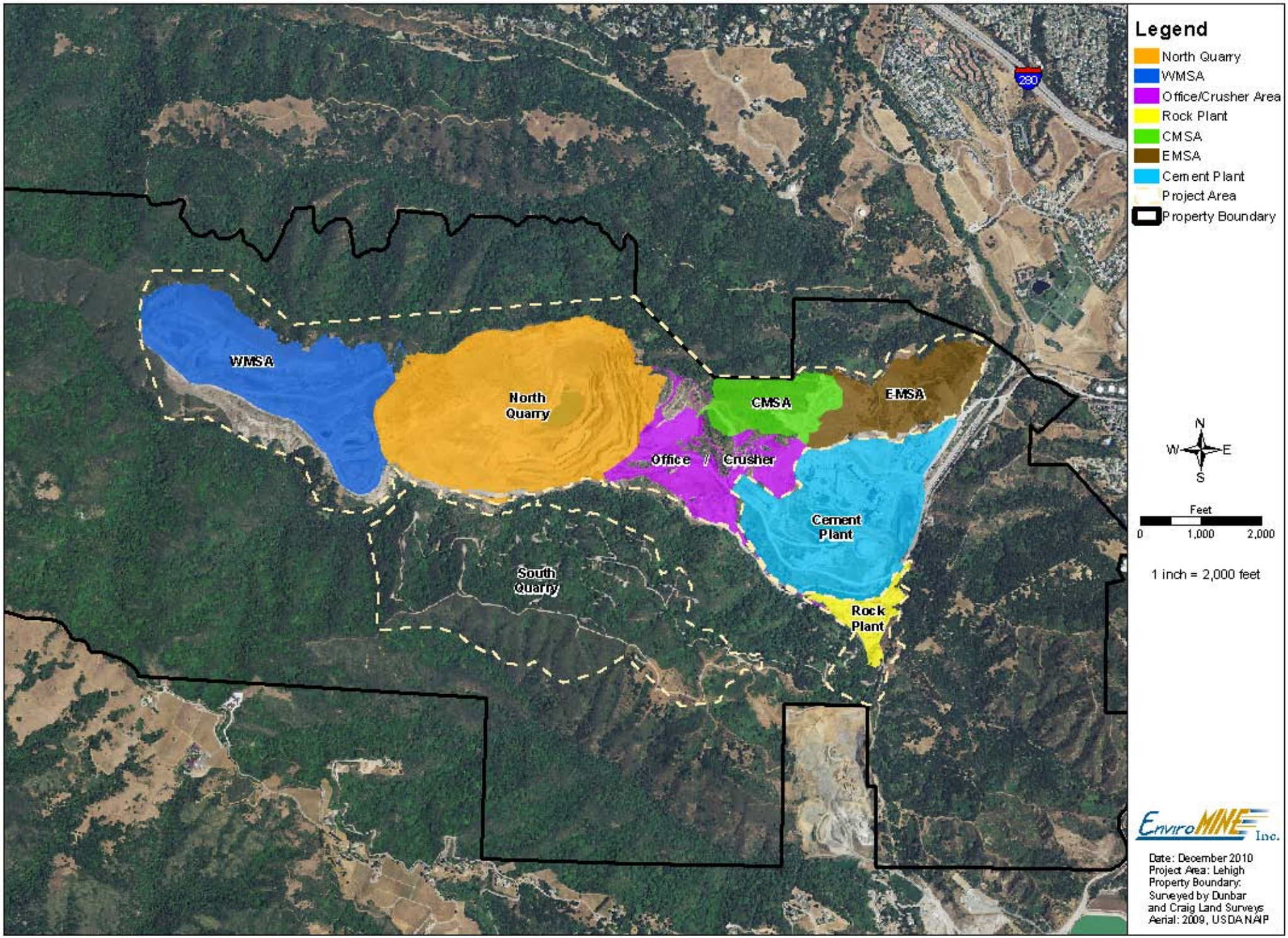
87	May 1, 1941	Lehigh Southwest Cement Co.
88	April 15, 1941	Lehigh Southwest Cement Co.
89	June 1, 1941	Lehigh Southwest Cement Co.
90	May 26, 1941	Lehigh Southwest Cement Co.
91	May 27, 1941	Lehigh Southwest Cement Co.
92	April 4, 1941	Lehigh Southwest Cement Co.
93	May 24, 1941	Lehigh Southwest Cement Co.
94	January 6, 1941	History San Jose Museum
95	1941*	Bancroft Library Kaiser Collection
96	1942*	Bancroft Library Kaiser Collection
97	1942	Bancroft Library Kaiser Collection
98	April, 1942	Bancroft Library Kaiser Collection
99	circa 1942	Bancroft Library Kaiser Collection
100	circa 1942	Bancroft Library Kaiser Collection
101	circa 1942	Bancroft Library Kaiser Collection
102	circa 1942	Bancroft Library Kaiser Collection
103	circa 1942	Bancroft Library Kaiser Collection
104	circa 1942	Bancroft Library Kaiser Collection
105	April 1942	Bancroft Library Kaiser Collection
106	June 20, 1942	Bancroft Library Kaiser Collection
107	June 20, 1942	Bancroft Library Kaiser Collection
108	June 20, 1942	Bancroft Library Kaiser Collection
109	February 26, 1944	History San Jose Museum
110	April, 1944	The Permanente News
111	August, 1946	History San Jose Museum
112	January 21, 1948	USC
113	1948	NAR
114	1950	Plant Offices
115	1950	Lehigh Southwest Cement Co.
116	1955	PAS
117	June 24, 1955	HJW
118	June 24, 1955	HJW
119	June 24, 1955	HJW
120	June 24, 1955	HJW
121	June 24, 1955	HJW
122	June 24, 1955	HJW
123	June 24, 1955	HJW
124	June 8, 1955	HJW
125	1955*	Lehigh Southwest Cement Co.
126	1956	EDR
127	1956	NAR
128	Undated	Plant Offices
129	Undated	Lehigh Southwest Cement Co.
130	1963	EDR
131	1965	EDR
132	1968	EDR
133	1969	History San Jose Museum
134	1975	EnviroMine
135	June 25, 1974	Aero-Data Corp.
136	1980*	Lehigh Southwest Cement Co.
137	1974*	Lehigh Southwest Cement Co.

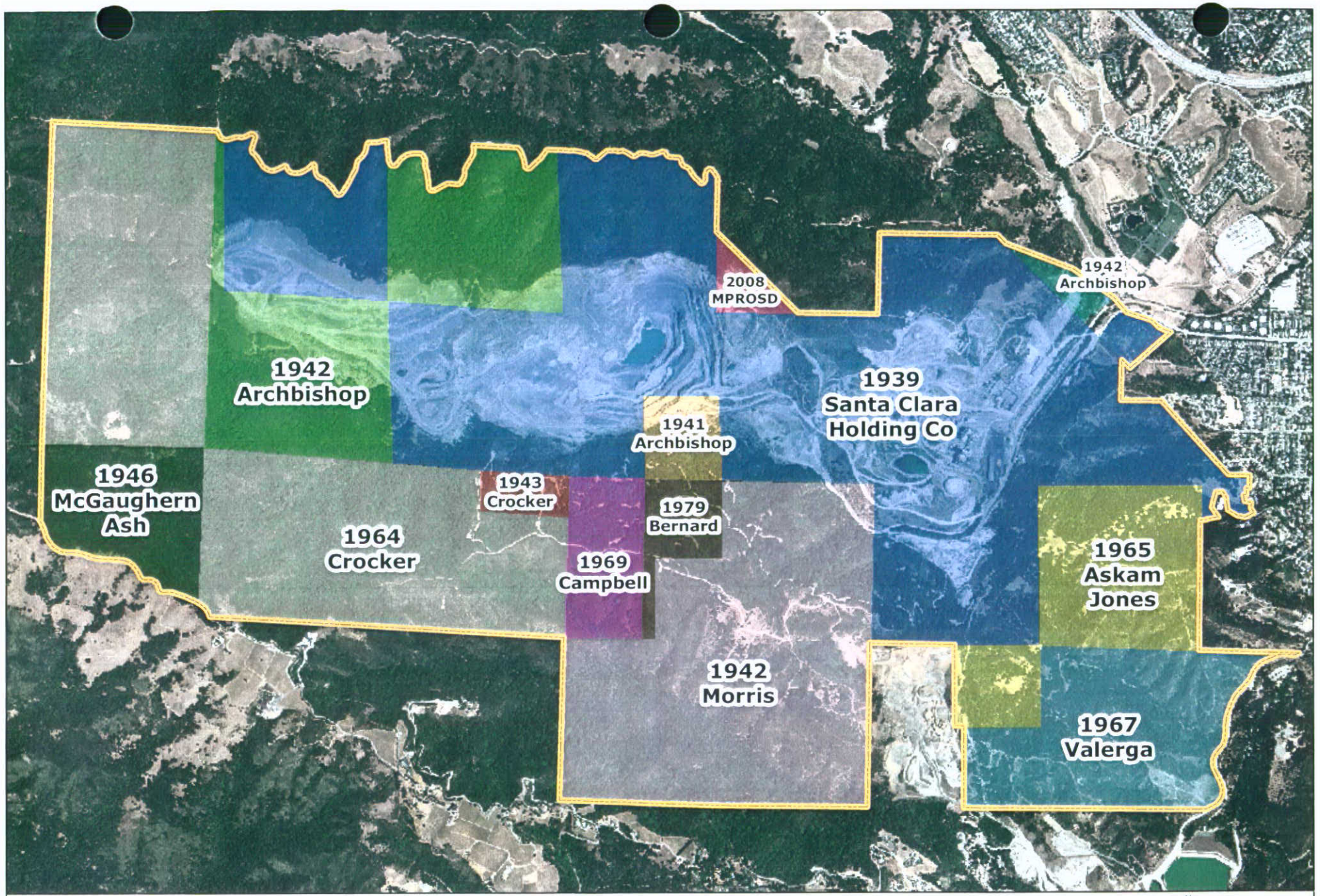
138	1974*	Lehigh Southwest Cement Co.
139	1974*	Lehigh Southwest Cement Co.
140	1974*	Lehigh Southwest Cement Co.
141	1974*	Lehigh Southwest Cement Co.
142	1980	EDR
143	1982	EDR
144	July 2, 1984	HJW
145	July 2, 1984	HJW
146	April 24, 1985	HJW
147	July 2, 1984	HJW
148	April, 1985	EnviroMine
149	1991	USGS
150	1993	EDR
151	1997	Pacific Aerial Surveys
152	1998	EDR
153	October 31, 1991	Aero-Data Corp.
154	2005	USDA
155	2006	USDA
156	2007	EnviroMine
SURVEYS AND DRAWINGS		
No.	**Date**	**Document**
157	1944	Survey Map Series (4 Sheets)

* Dating for these images was determined according to visible benchmarks for site development and by comparison to other dated photographs.

Permanente Quarry

Site Description





EnviroMINE Inc.

Date: December 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

PERMANENTE QUARRY ACQUISITIONS

N
W E
S

Feet
0 1,000 2,000
1 inch = 2,000 feet

EnviroMINE Inc.

Date: December 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

PERMANENTE QUARRY
SOUTH QUARRY USE PERMIT

N
W E
S

Feet
0 1,000 2,000
1 inch = 2,000 feet

EnviroMINE Inc.

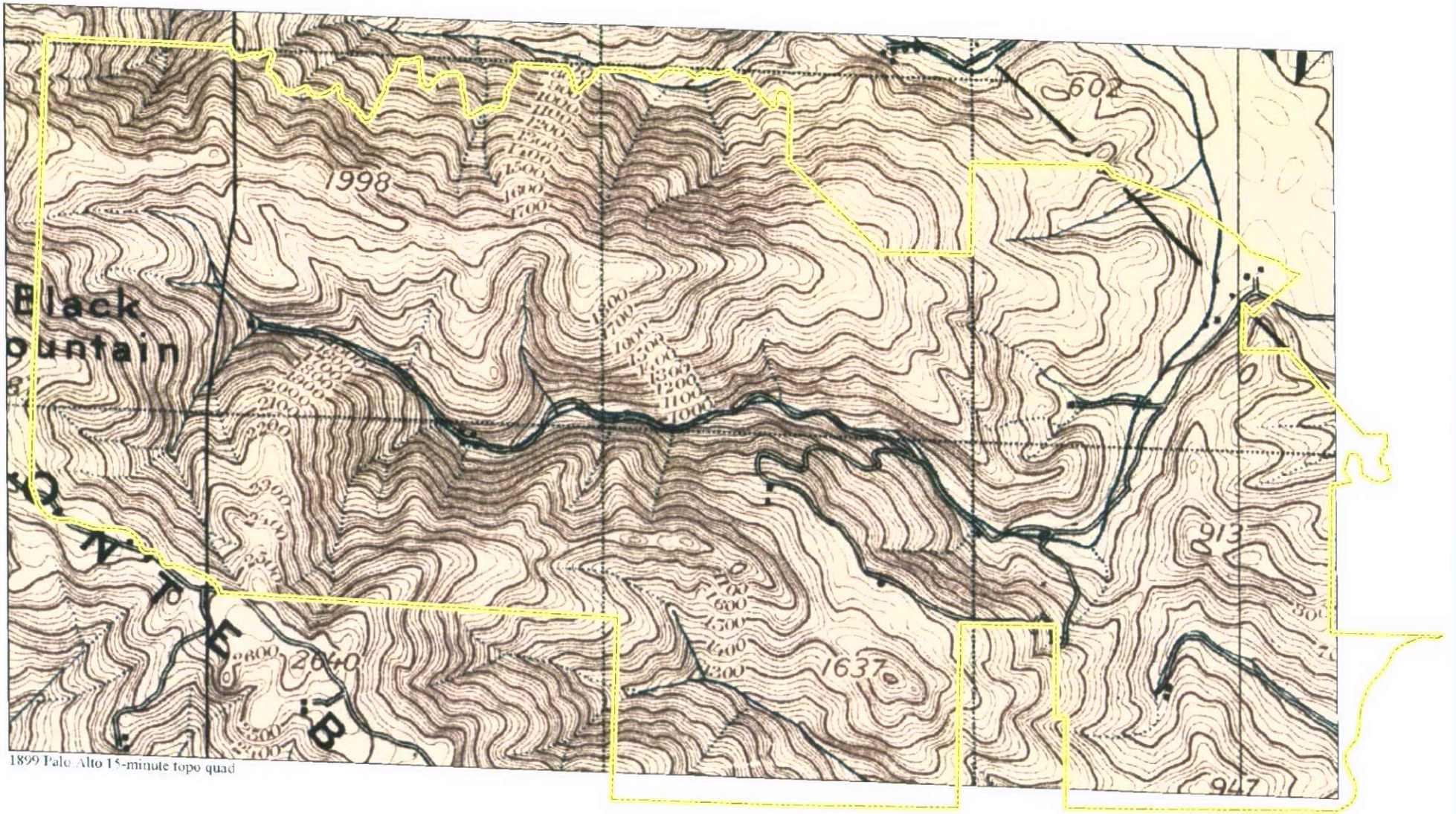
Date: December 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

PERMANENTE QUARRY
EAST MATERIALS STORAGE AREA

N
W E
S

Feet
0 1,000 2,000

1 inch = 2,000 feet



1899 Palo Alto 15-minute topo quad

EnviroMINE Inc.

Date: September 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Base Map: USGS, 1899

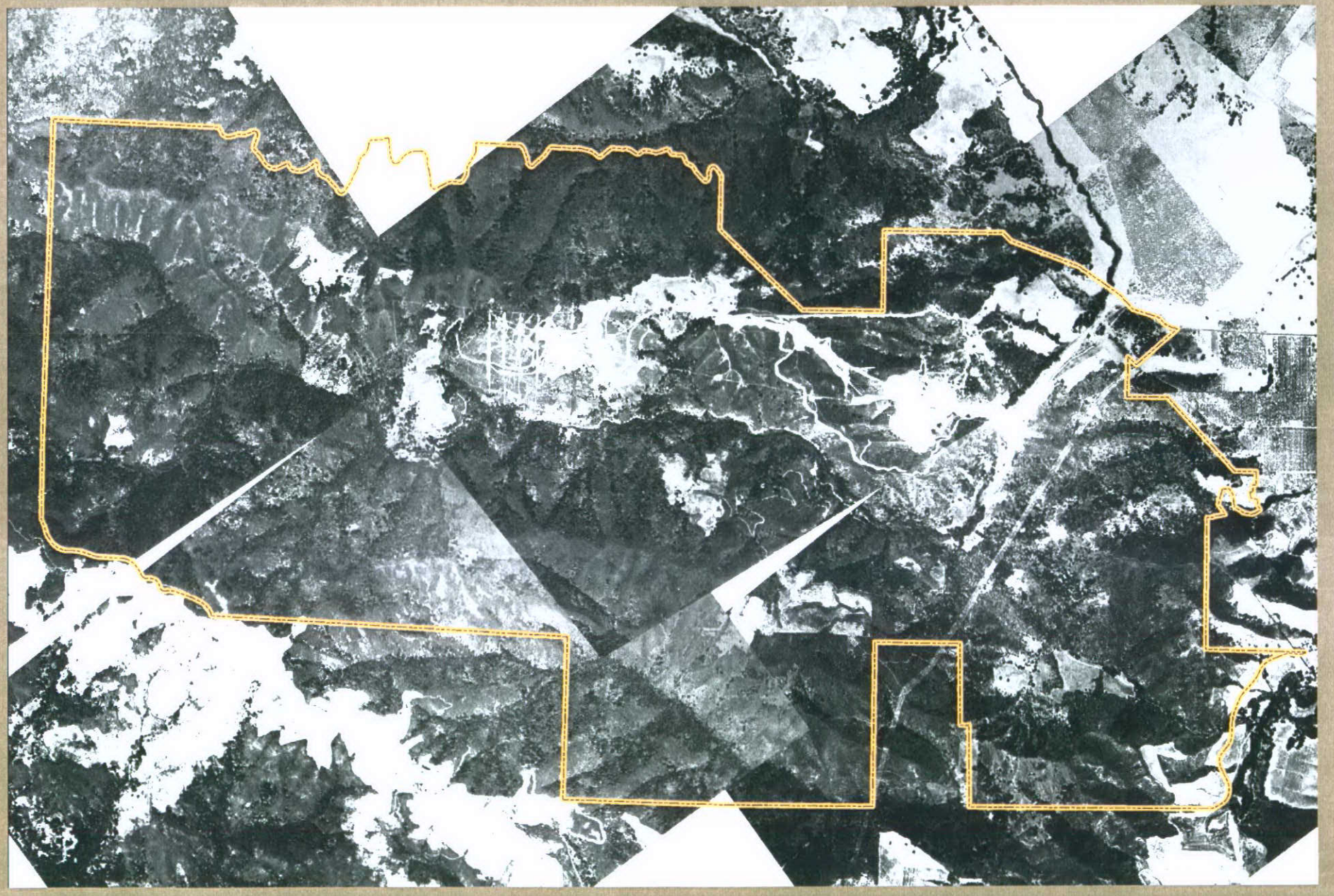
PERMANENTE QUARRY
USGS MAP - 1899

N
W E
S

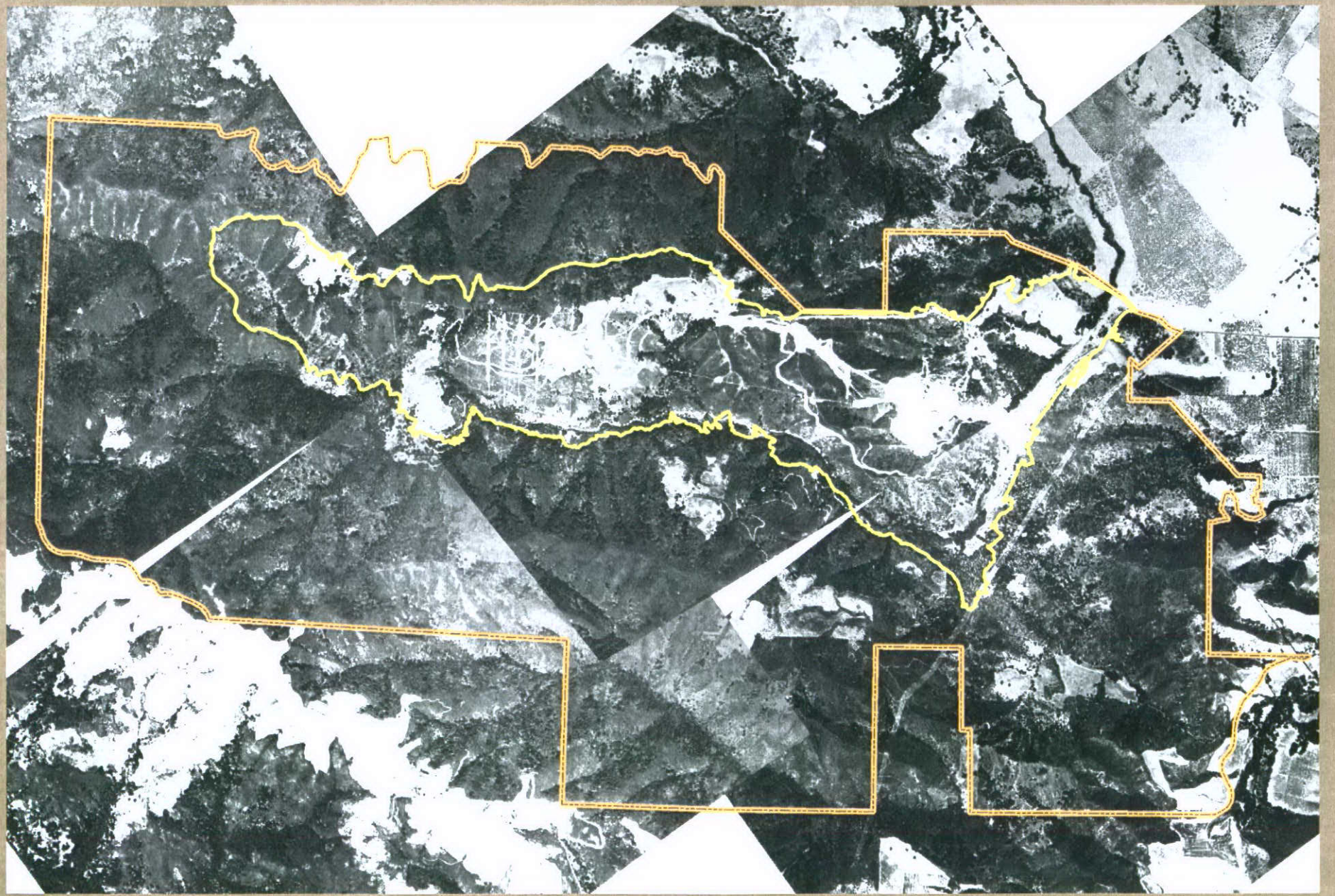
Feet
0 1,000 2,000

1 inch = 2,000 feet

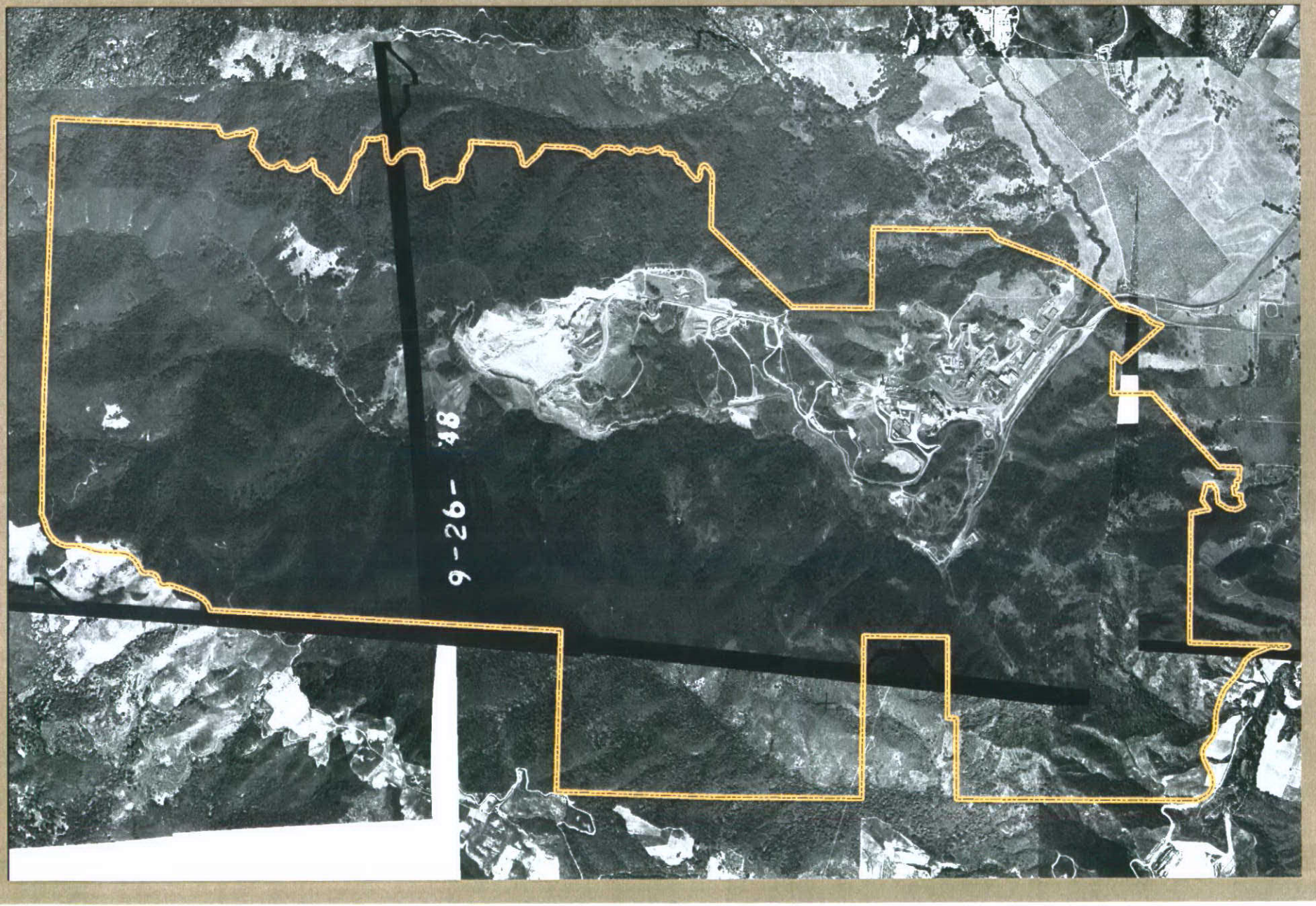
1939



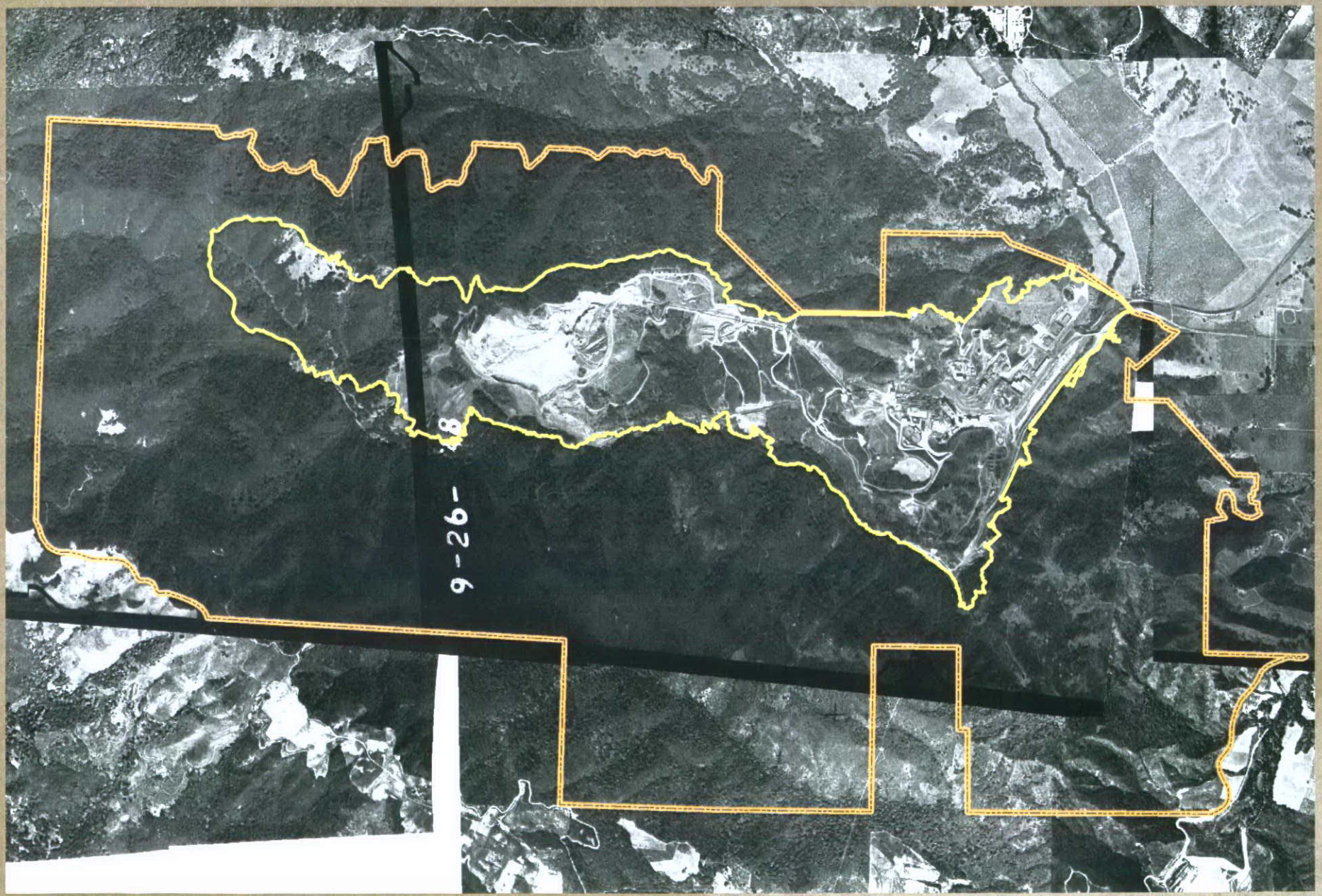
1939



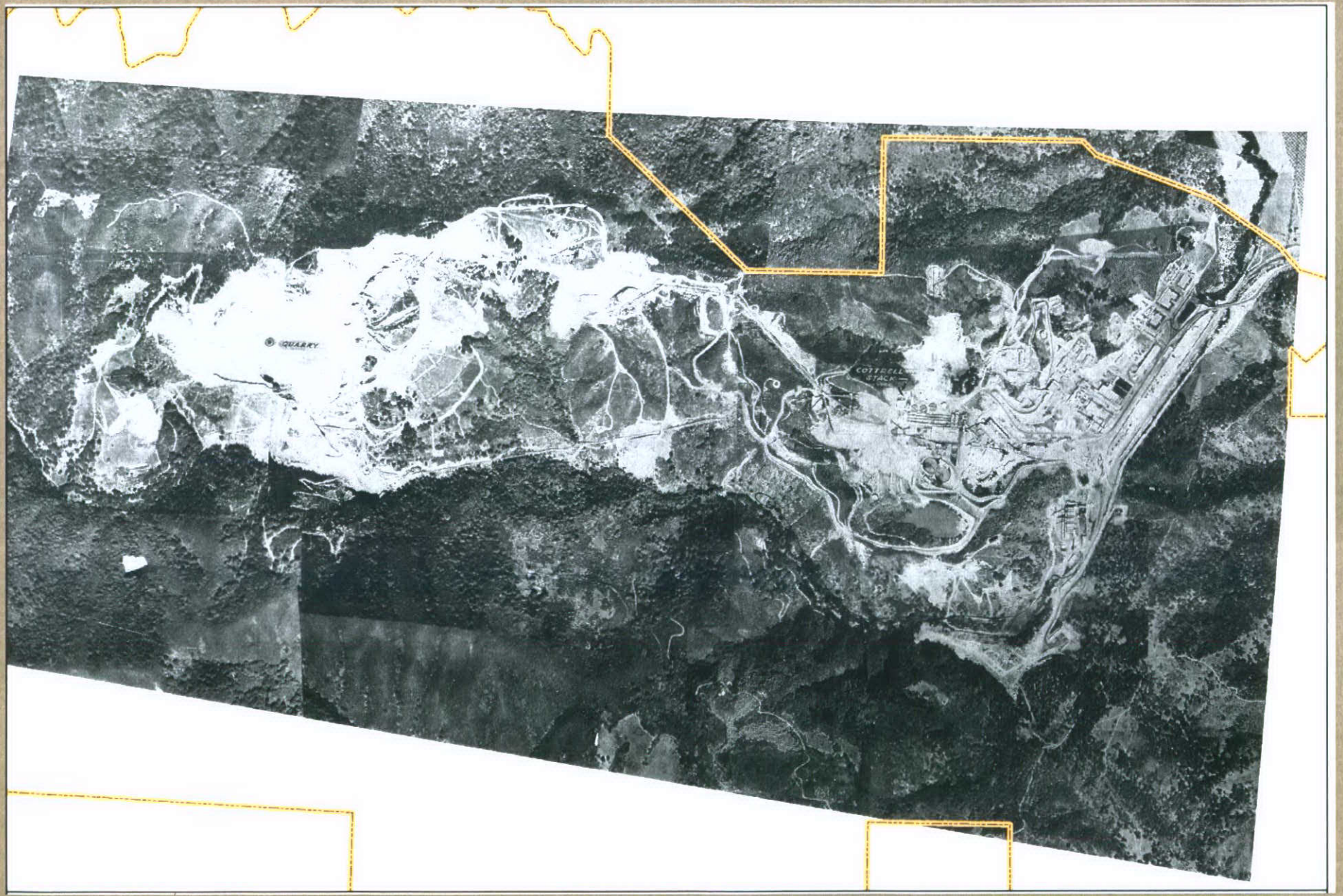
1948



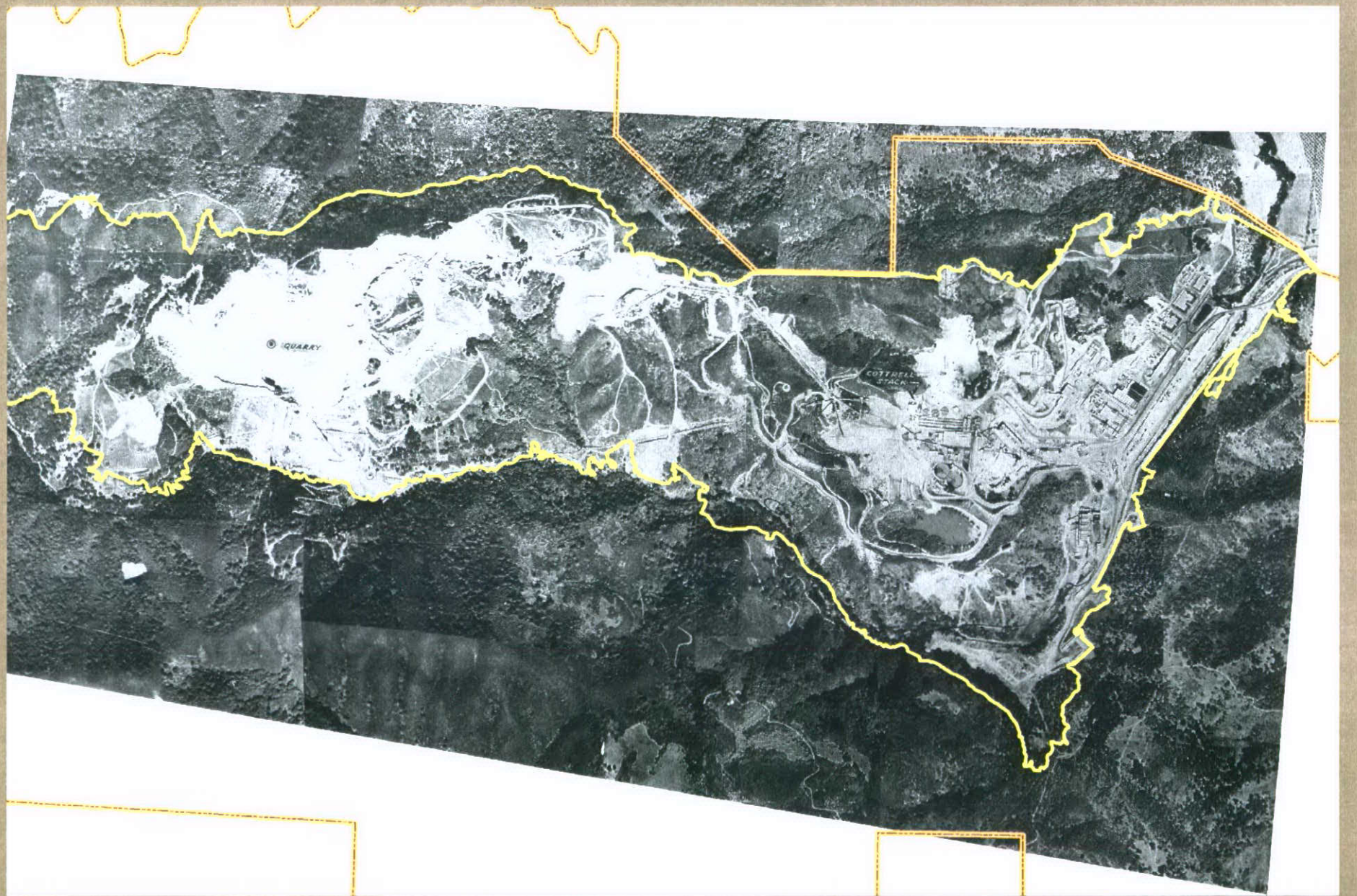
1948



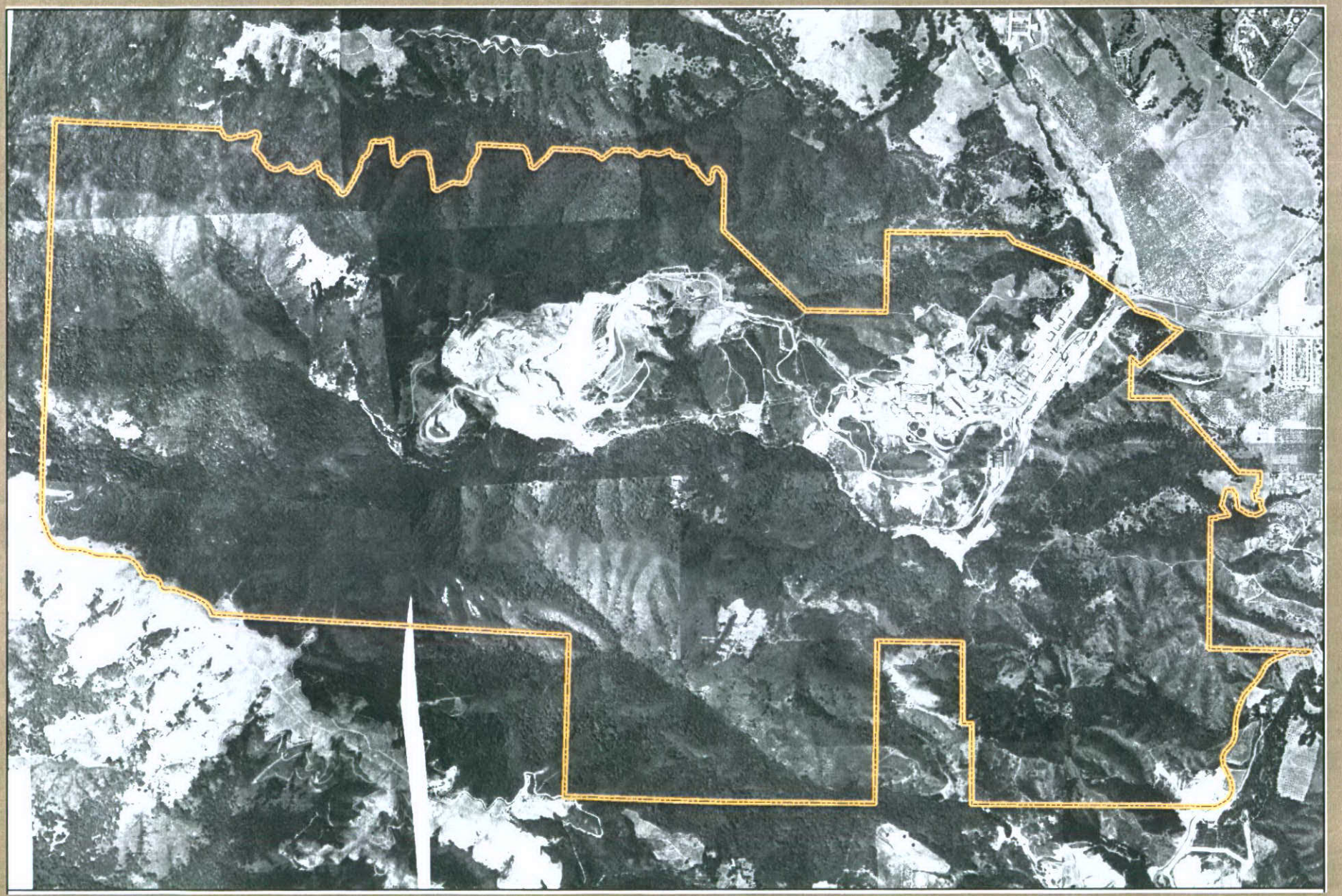
1950



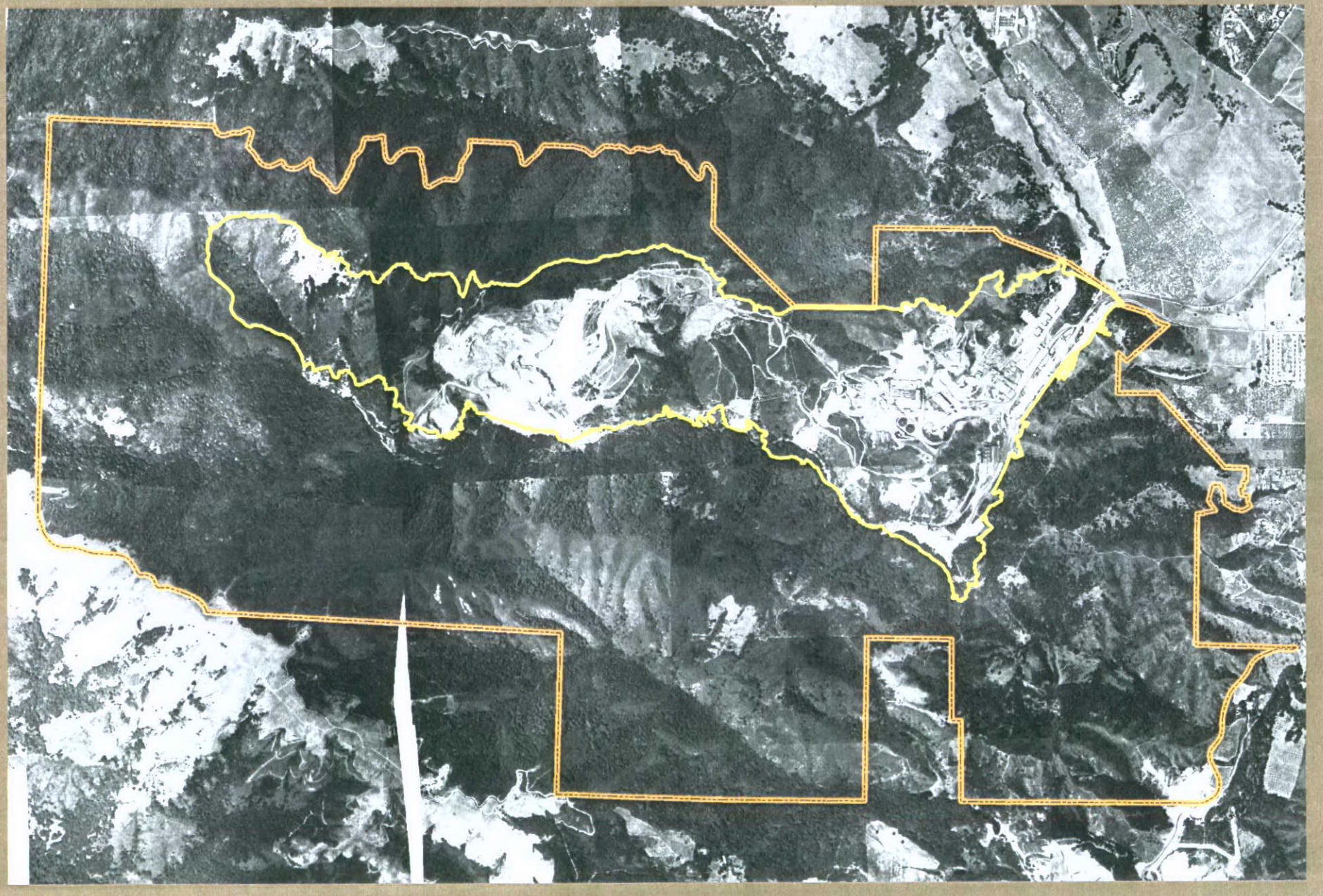
1950



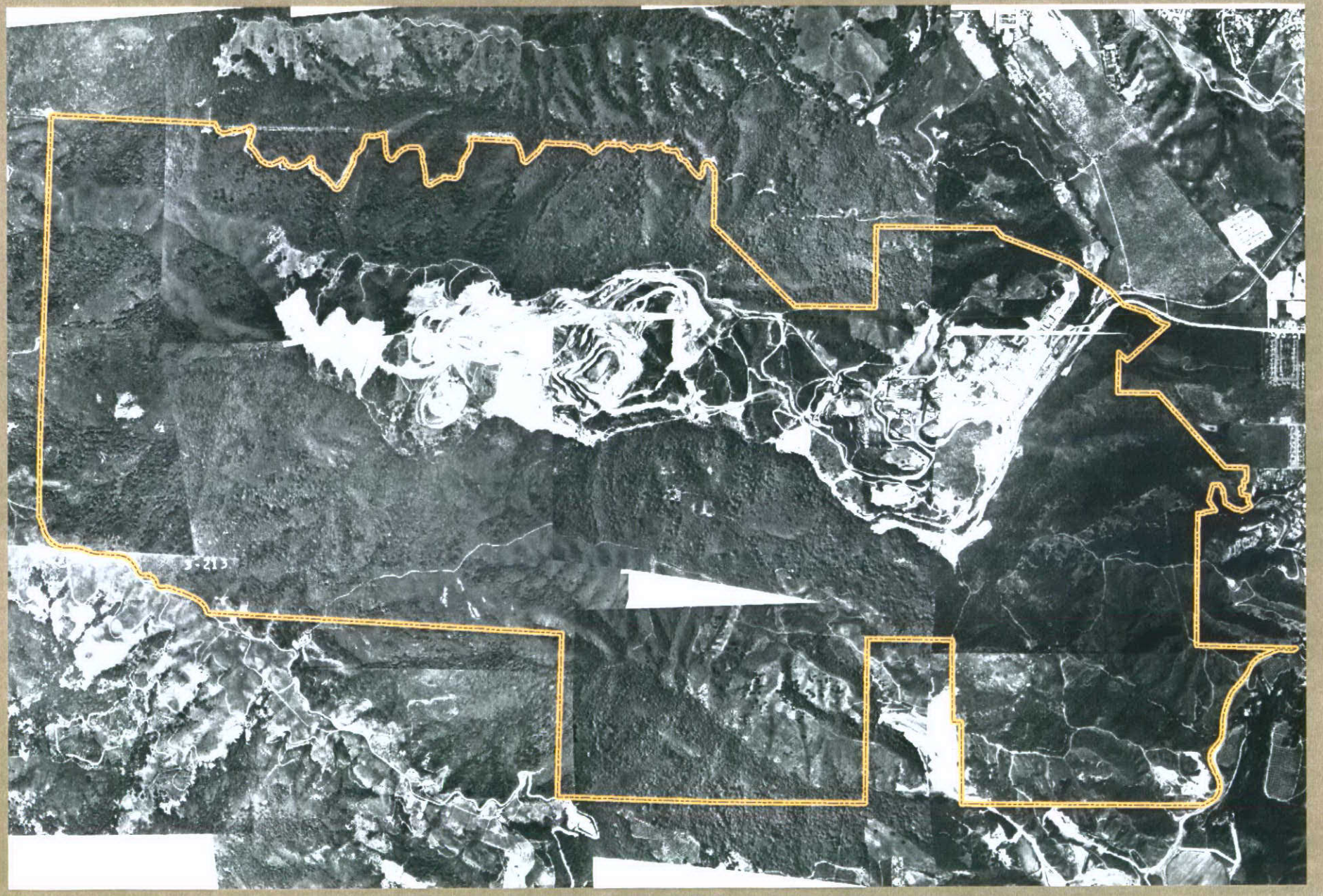
1956



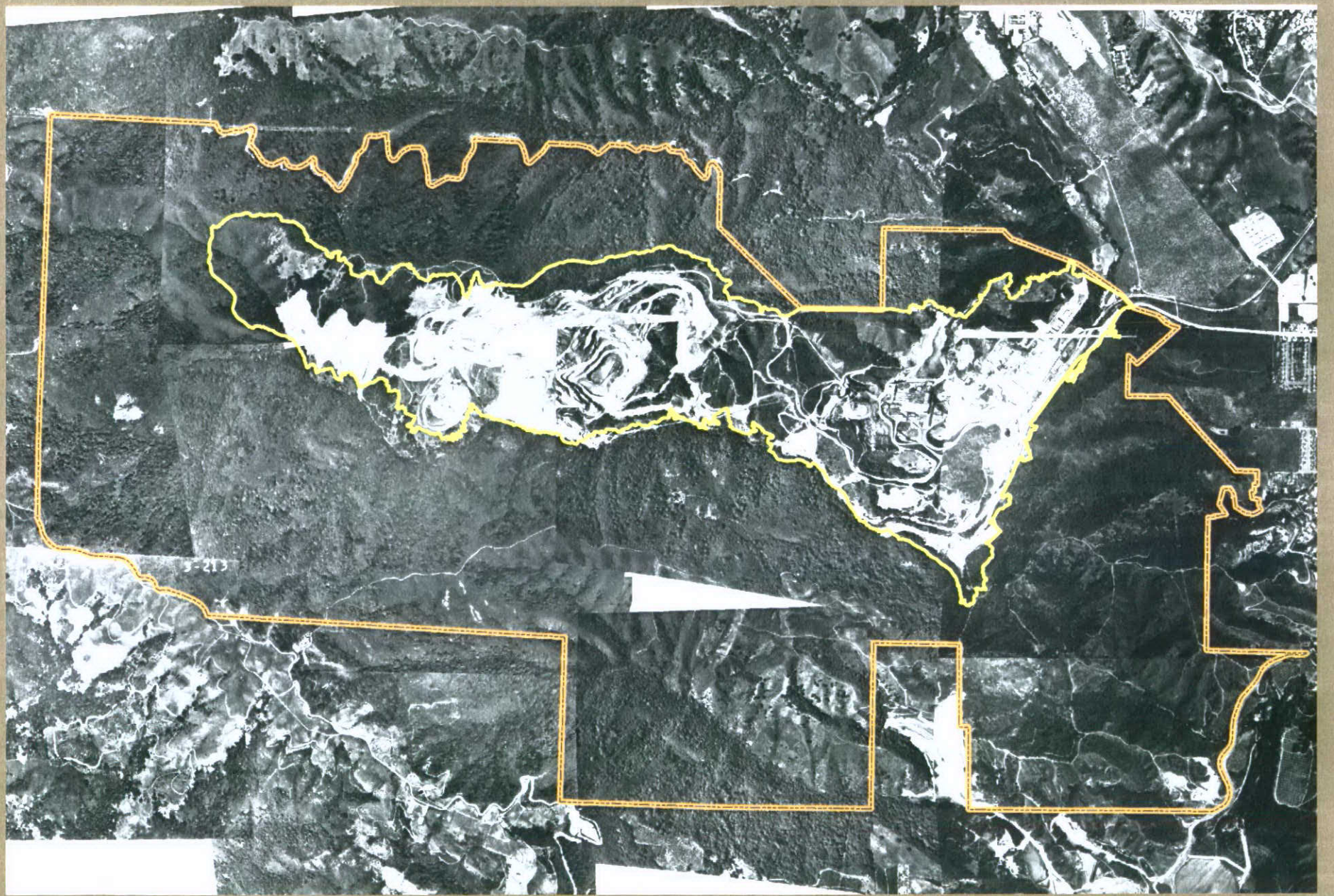
1956



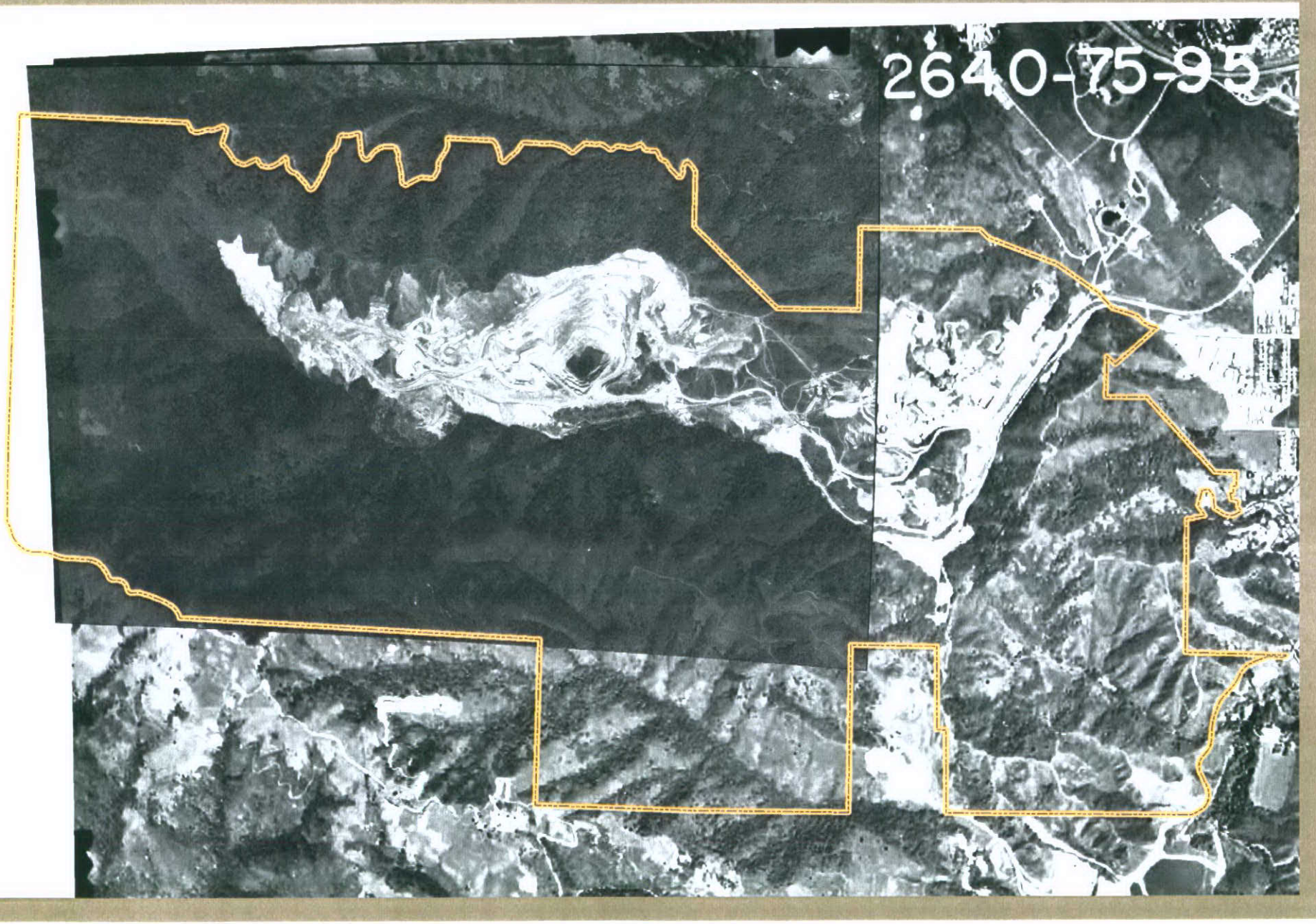
1965



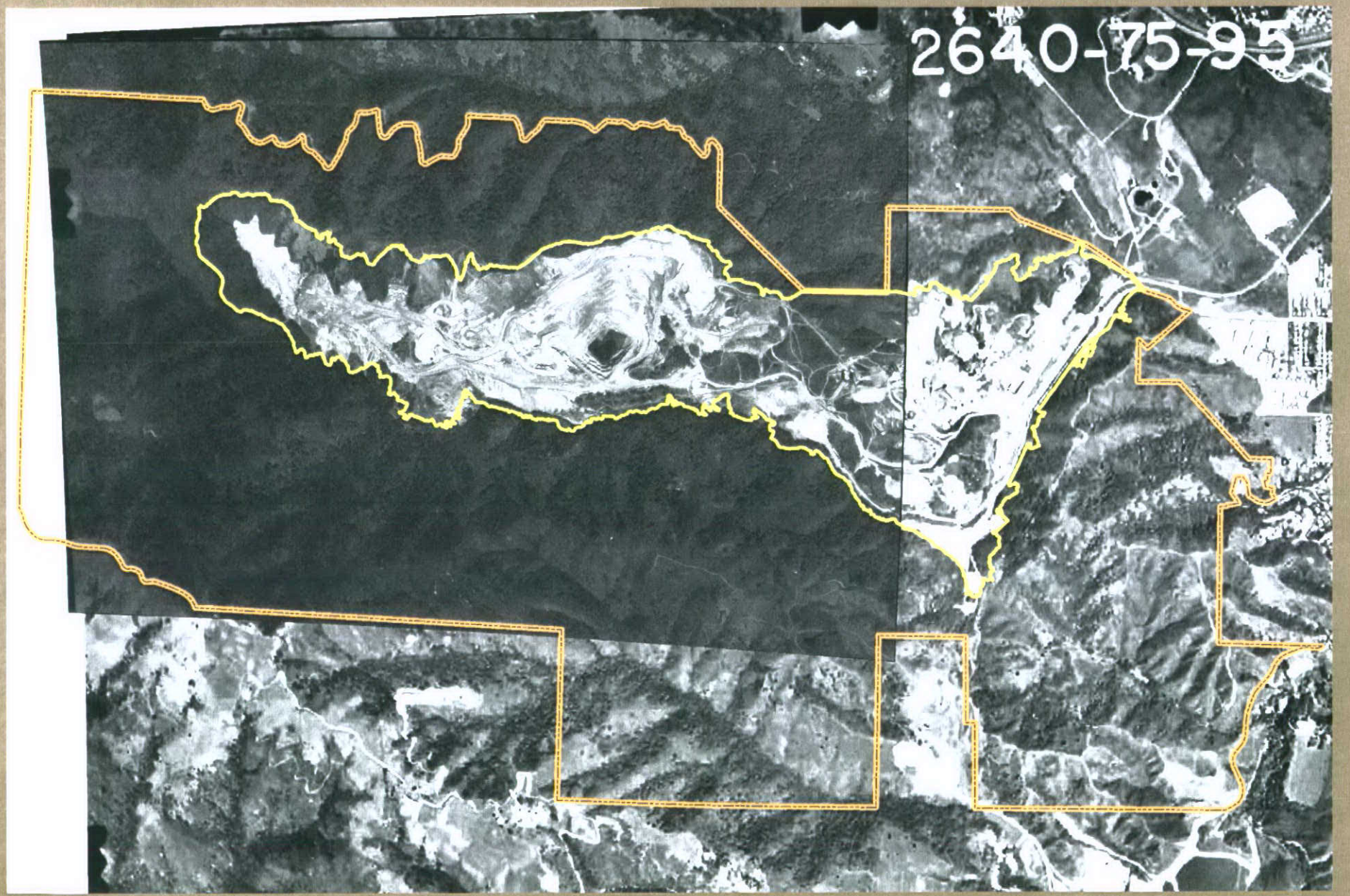
1965



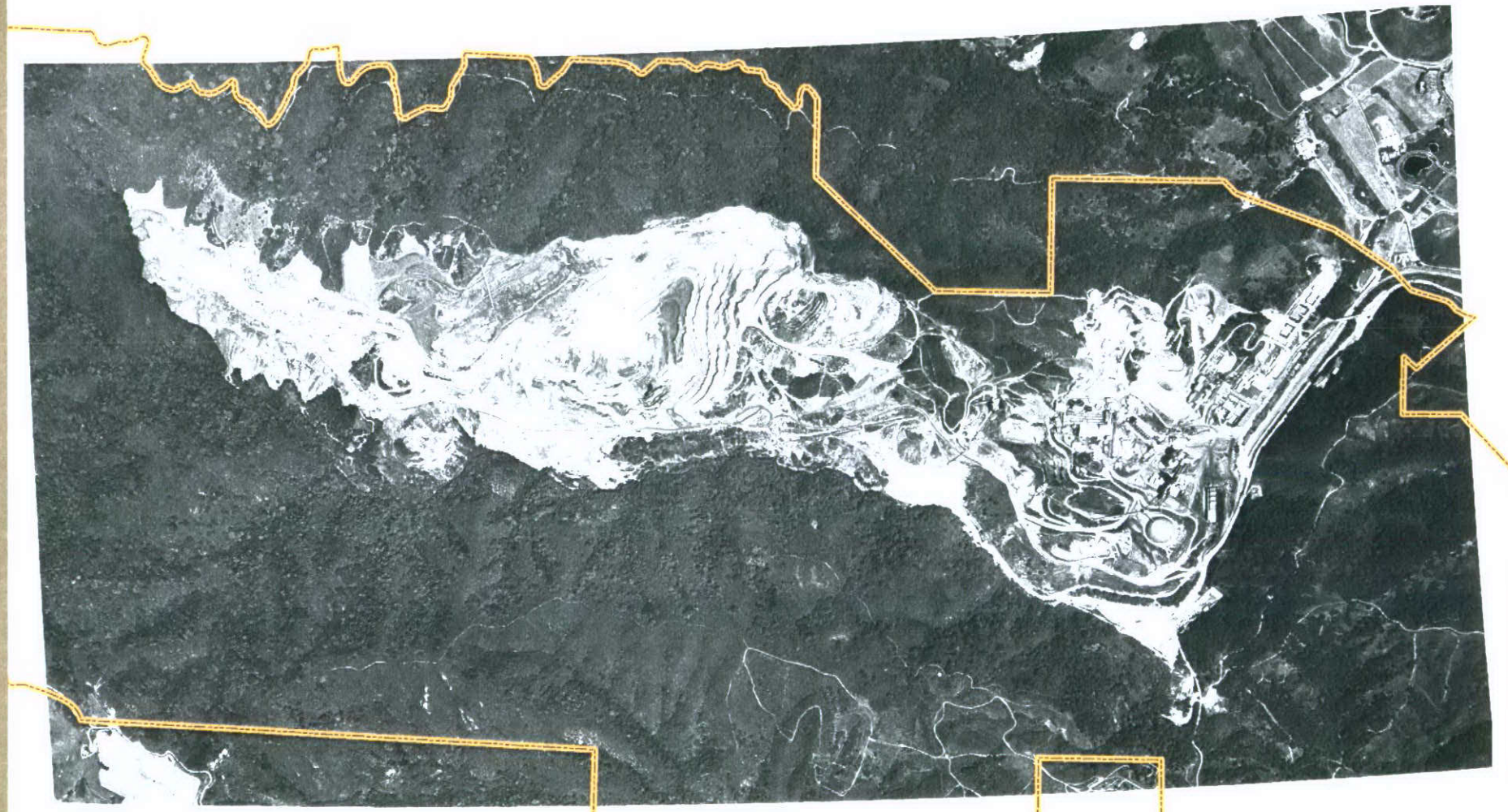
1975



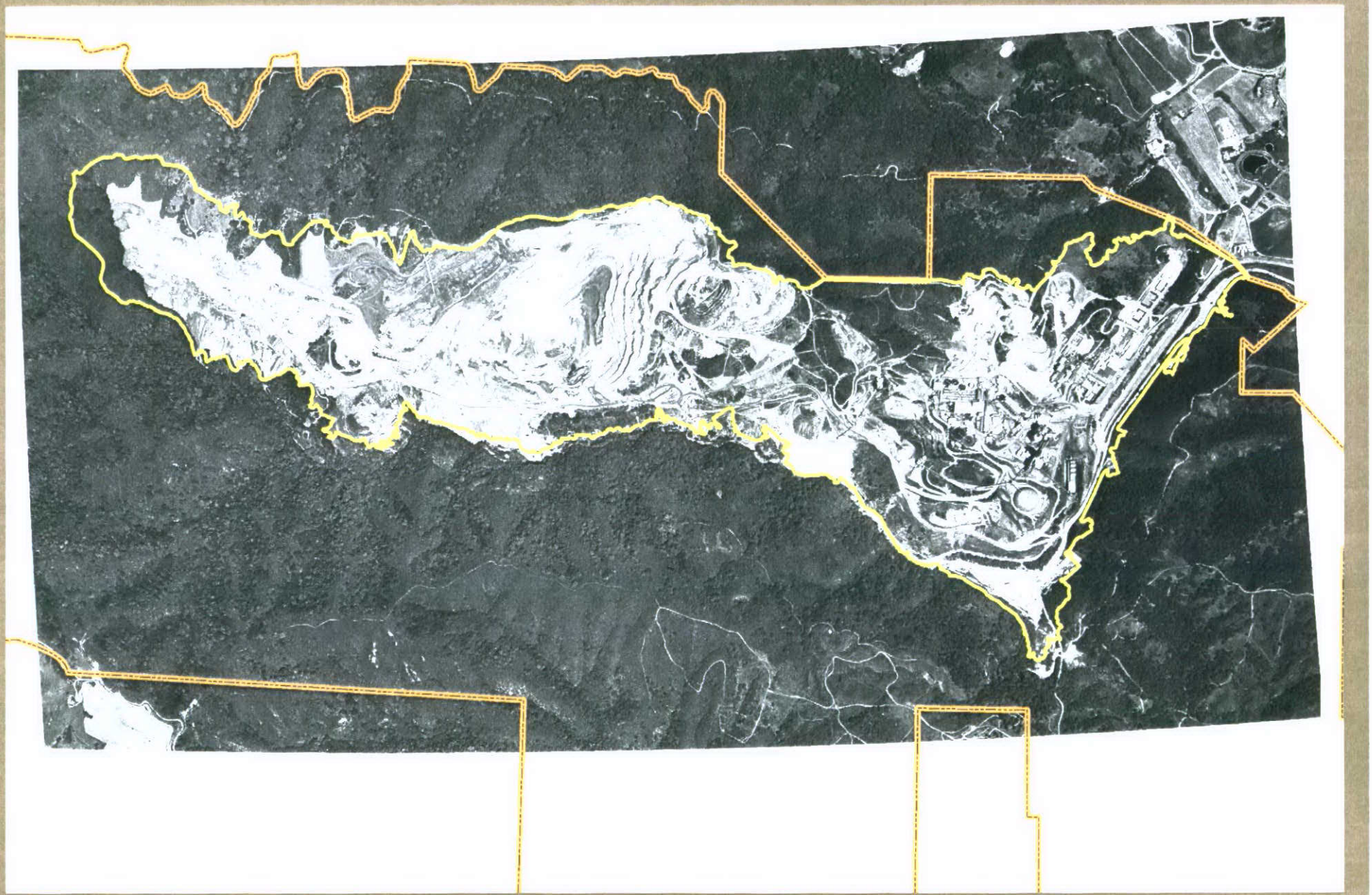
1975



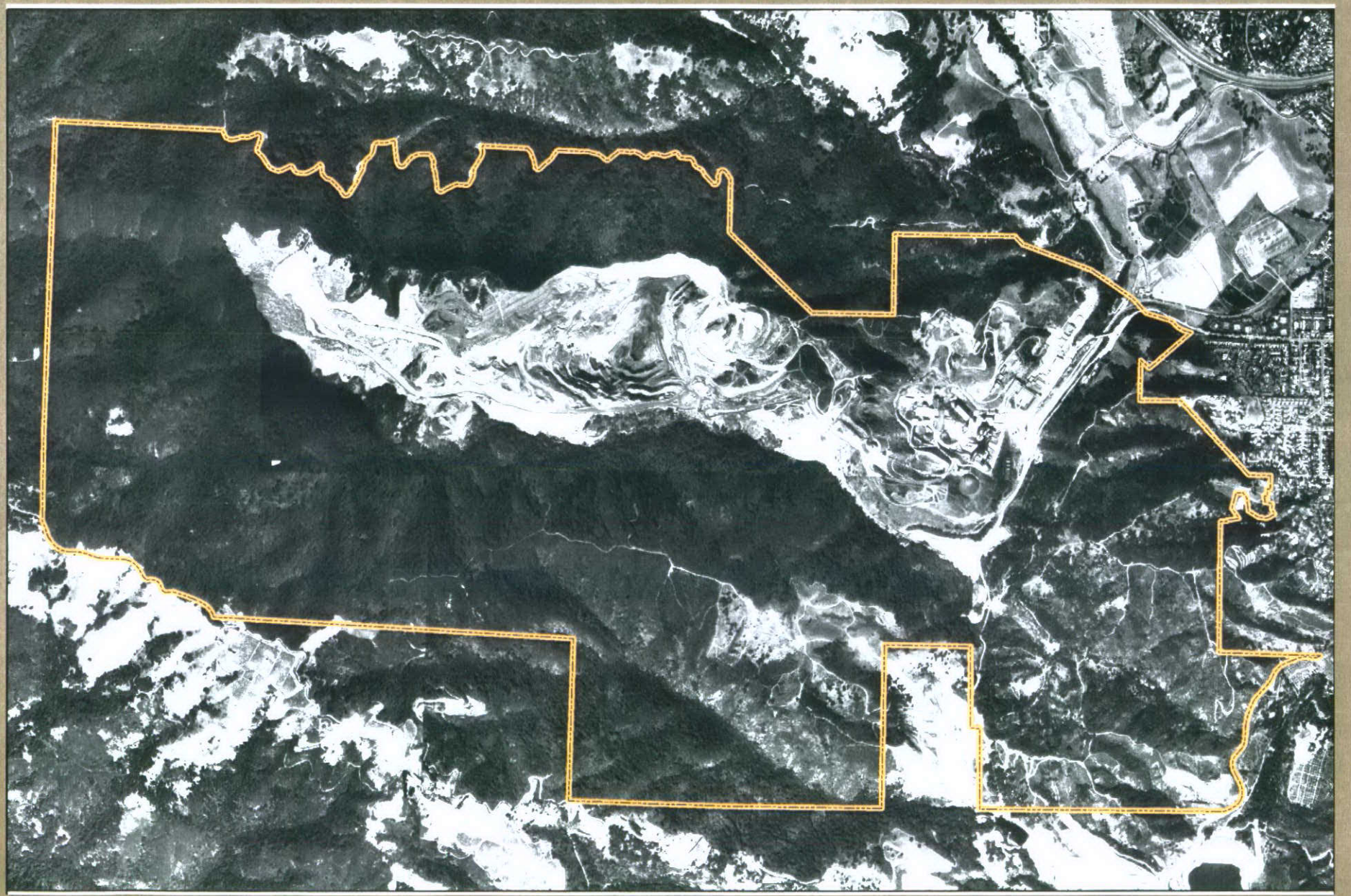
1985



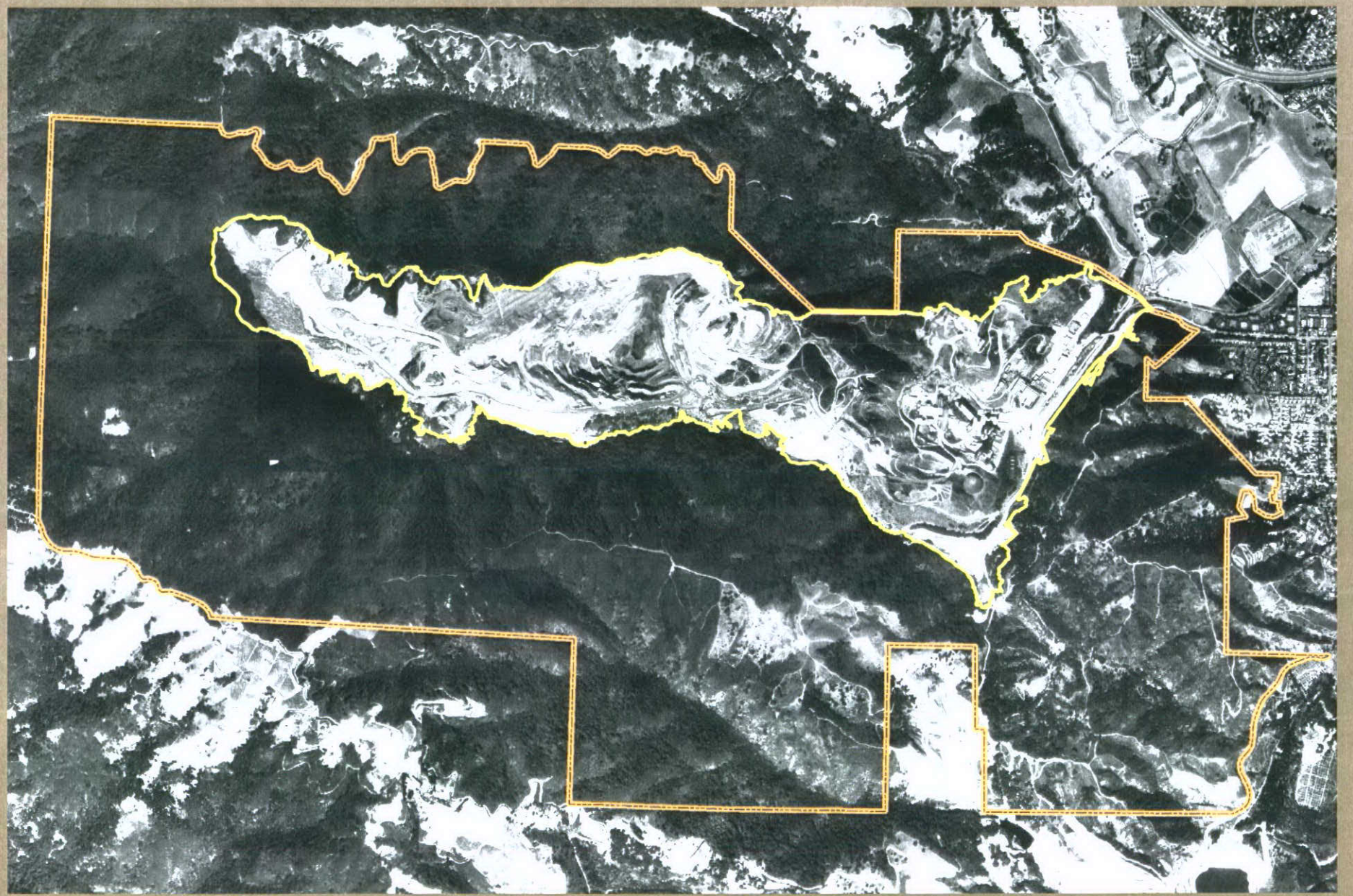
1985



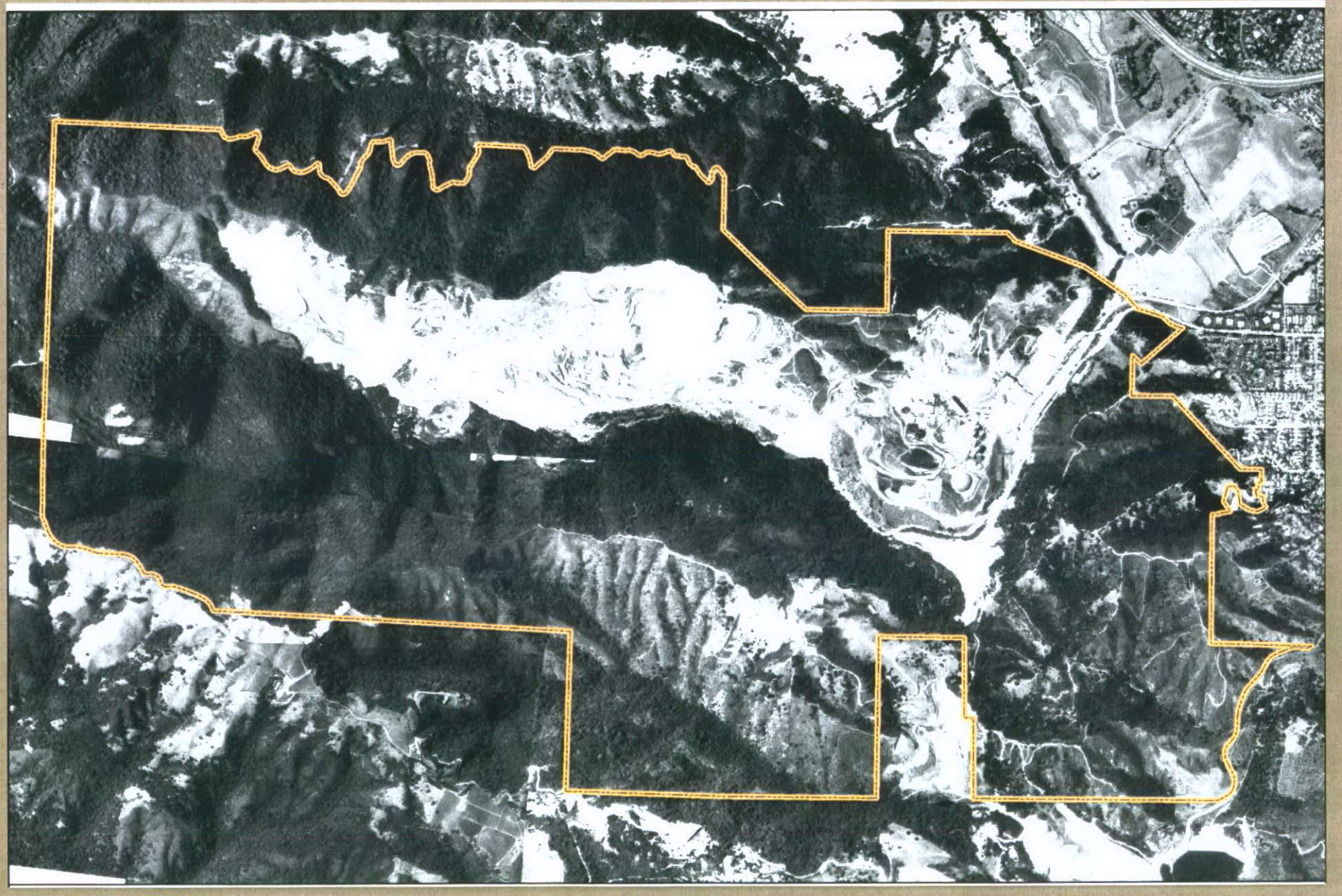
1991



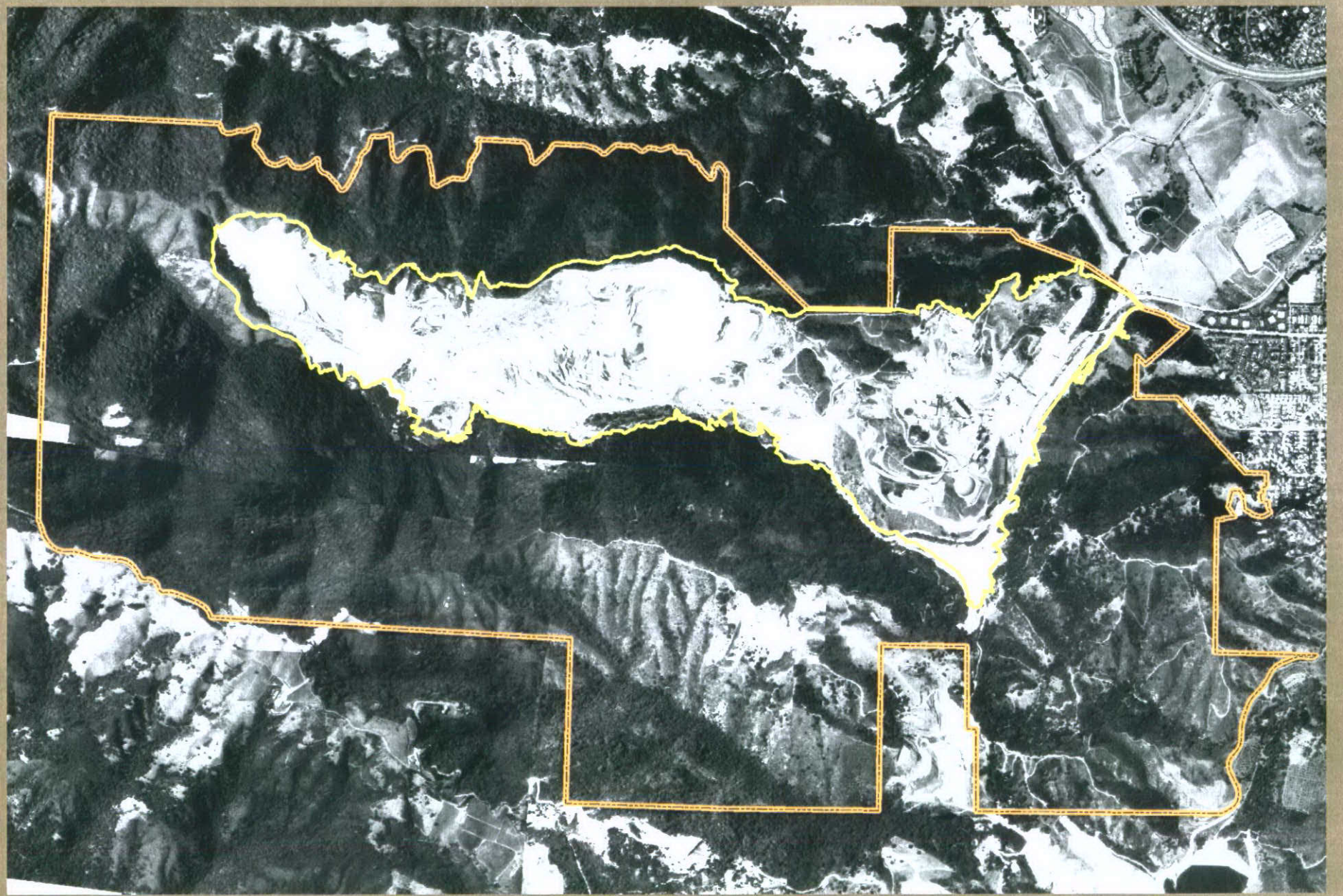
1991



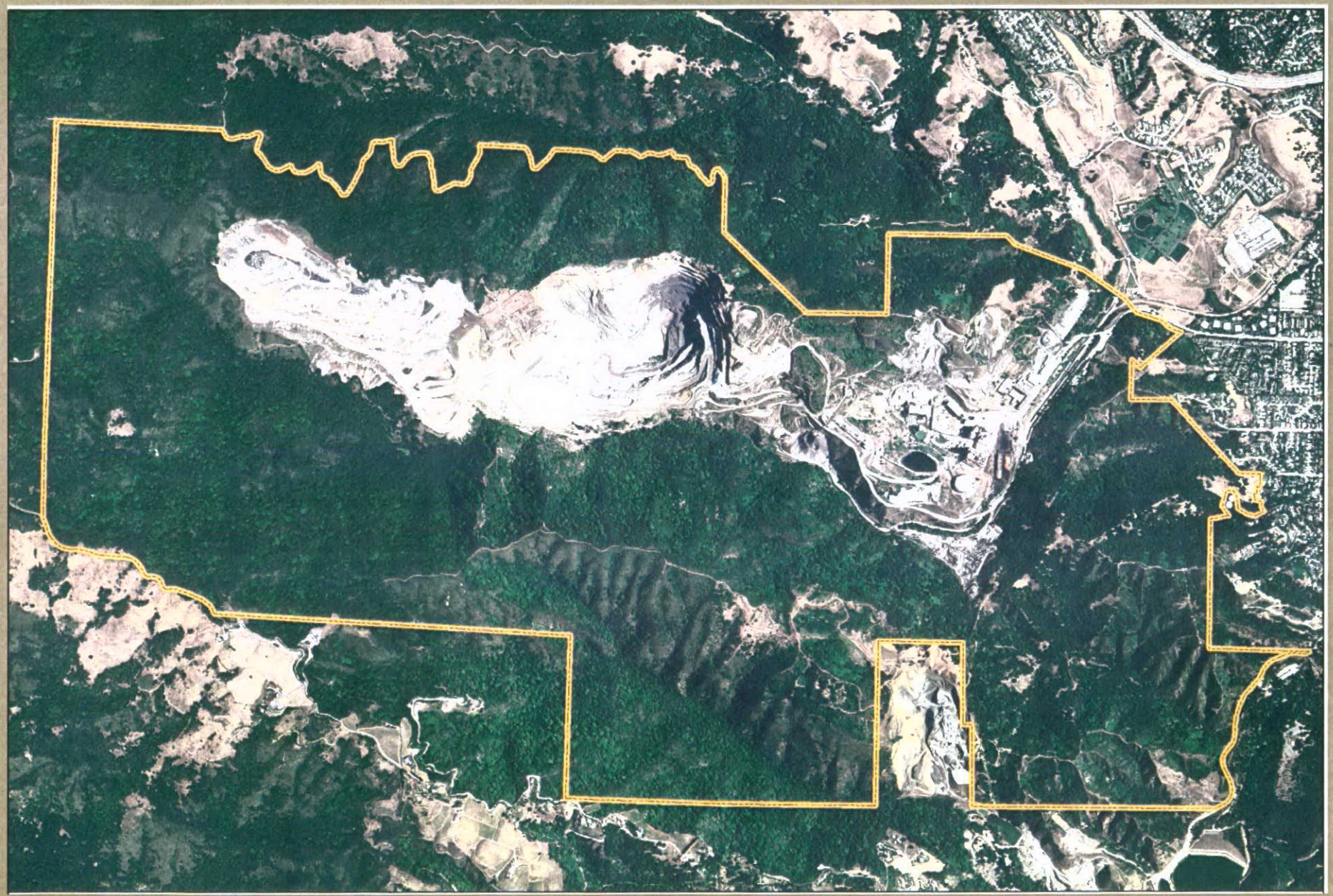
1993



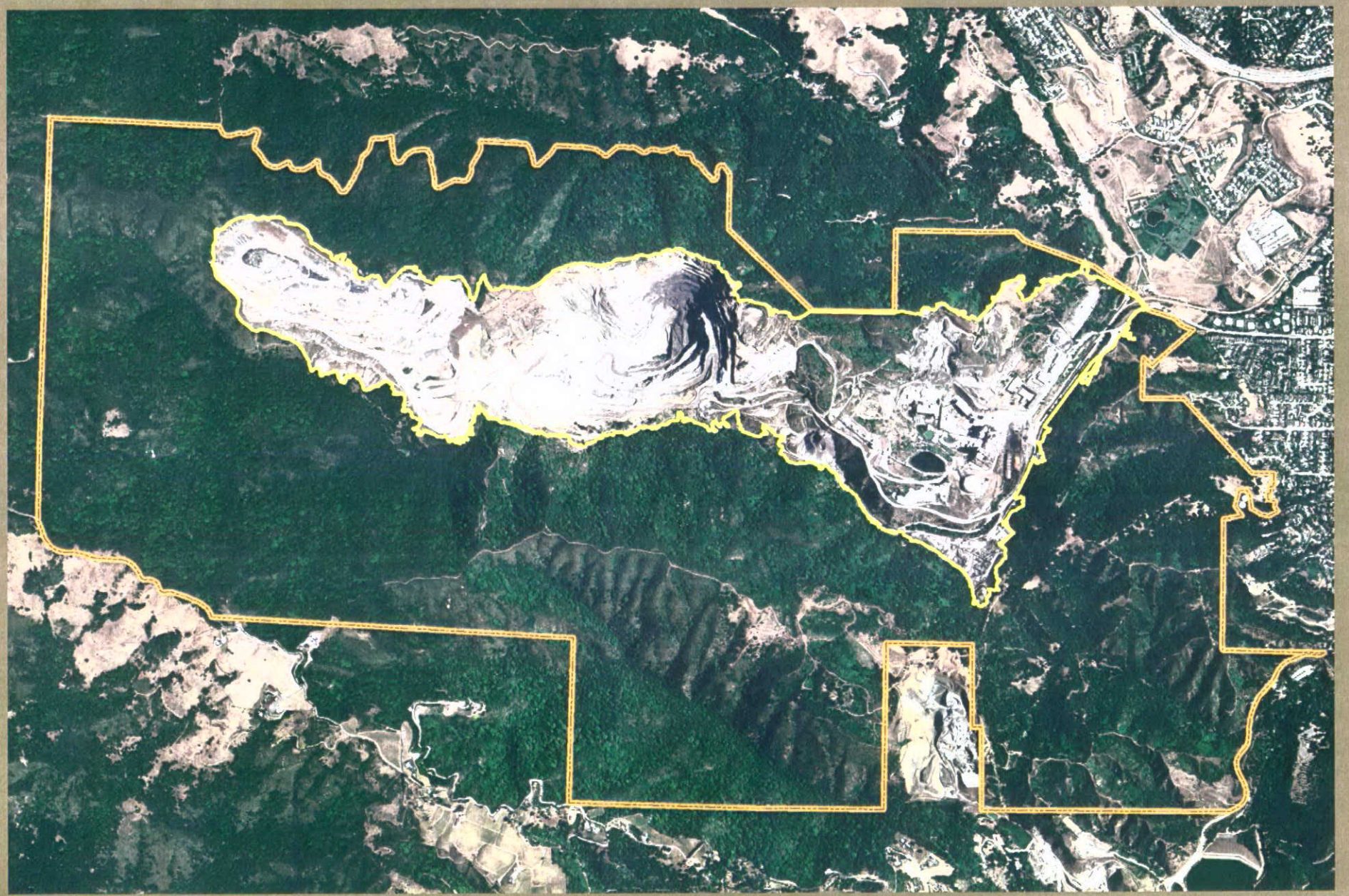
1993



2005



2005

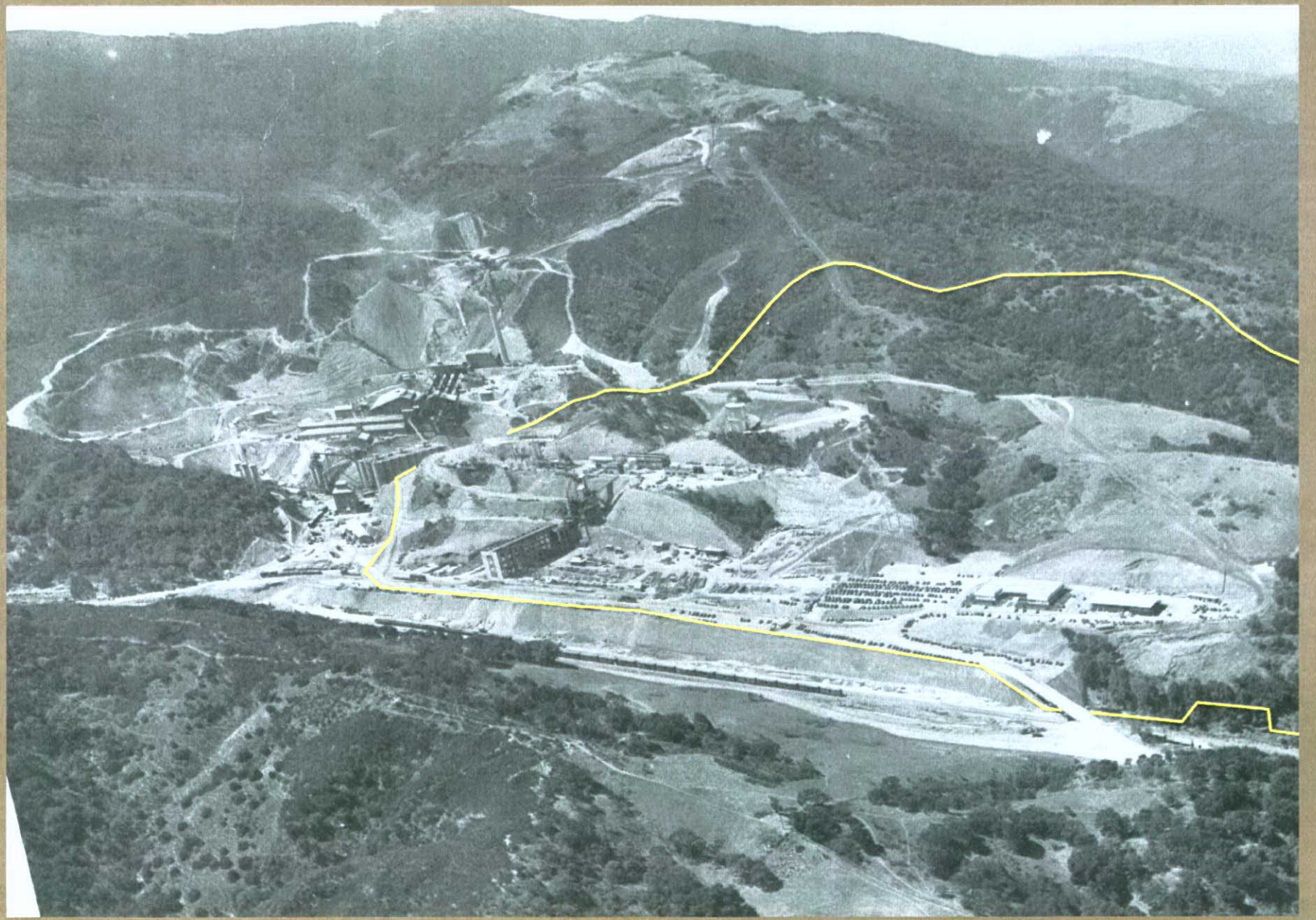


2009

March 1941

Late 1941

1942

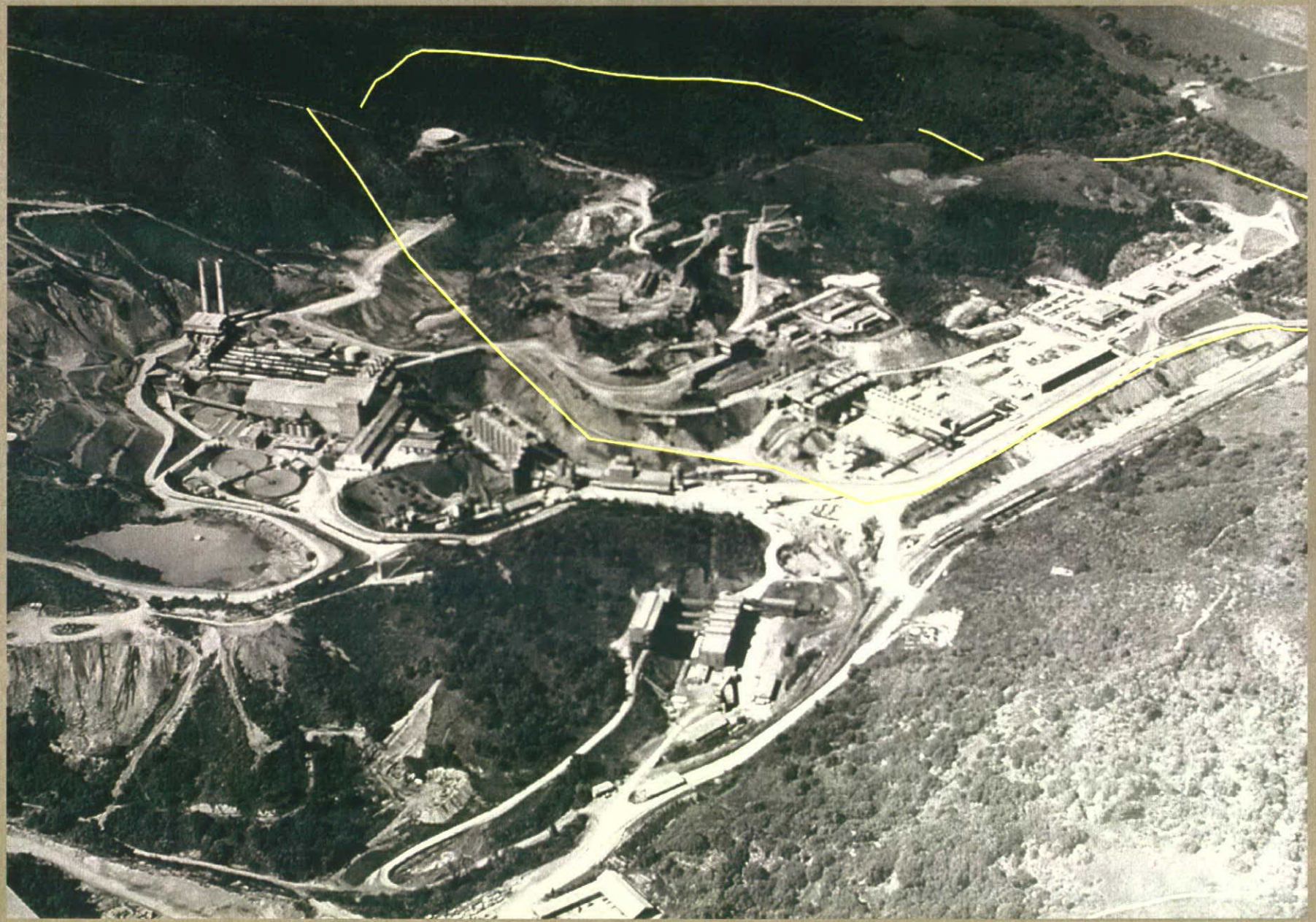


1942

1948

1950

1955



1974

1974

1974

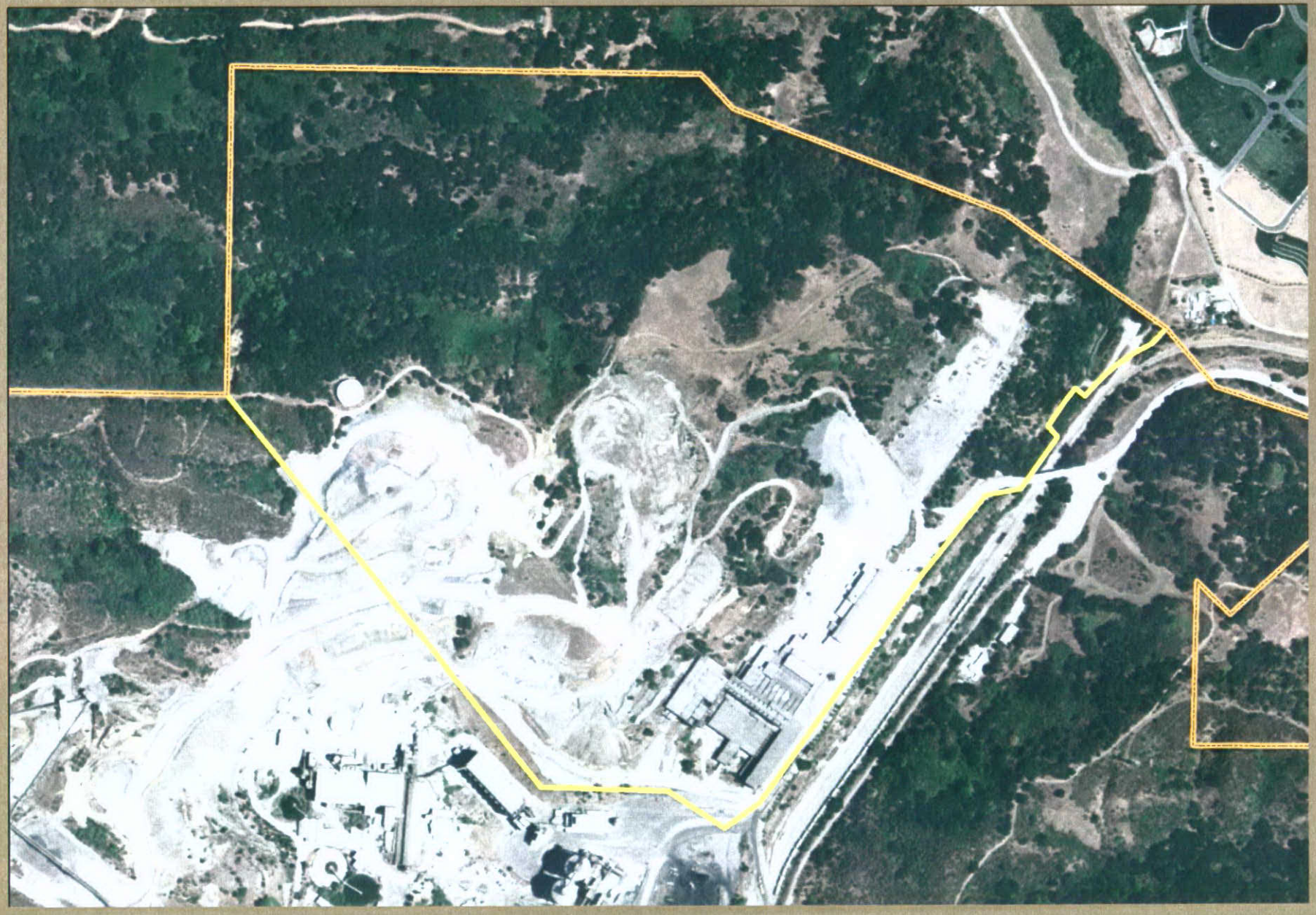
1980

1984

1991

2005

2009



Permanente Quarry Comprehensive Reclamation Plan

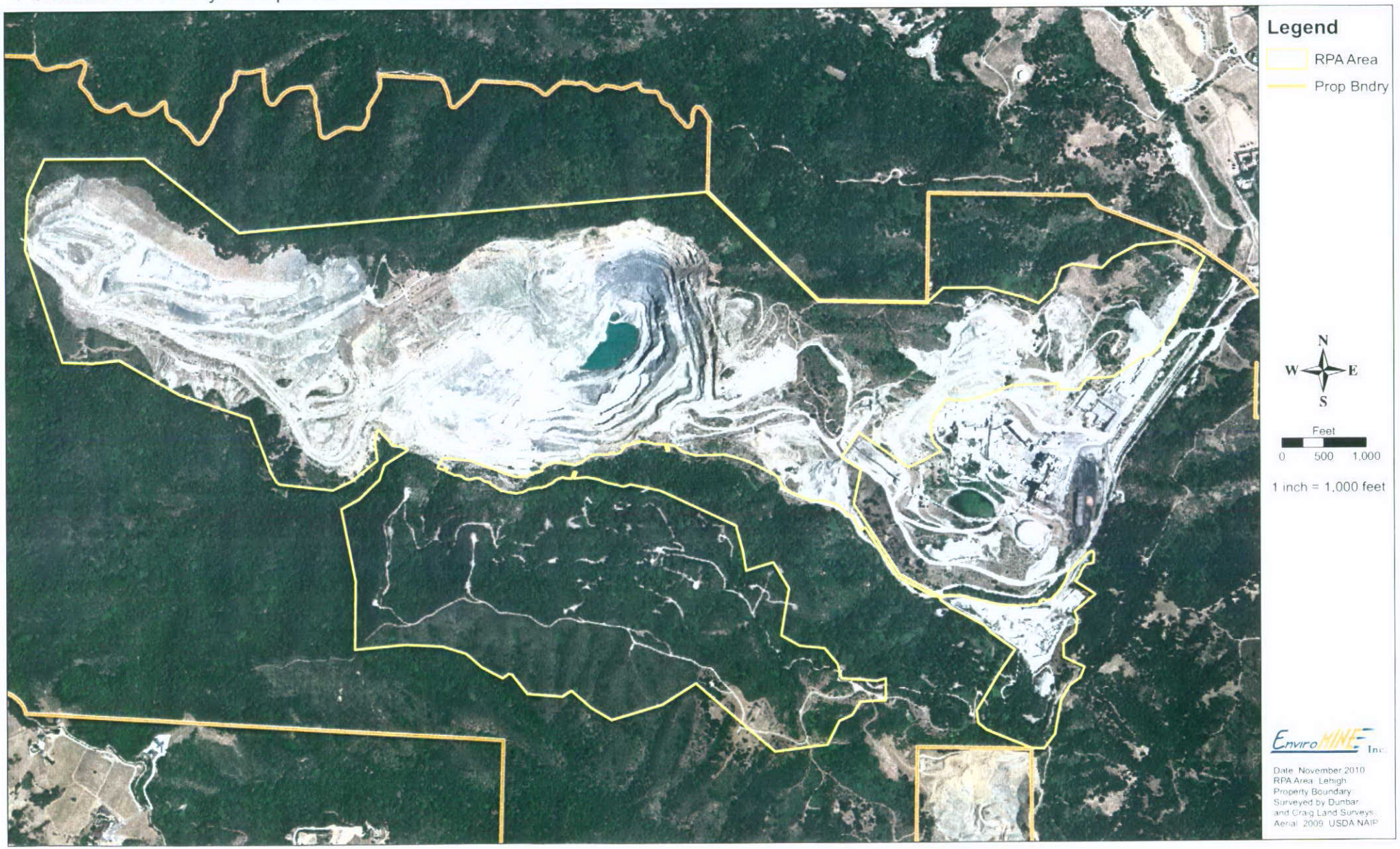
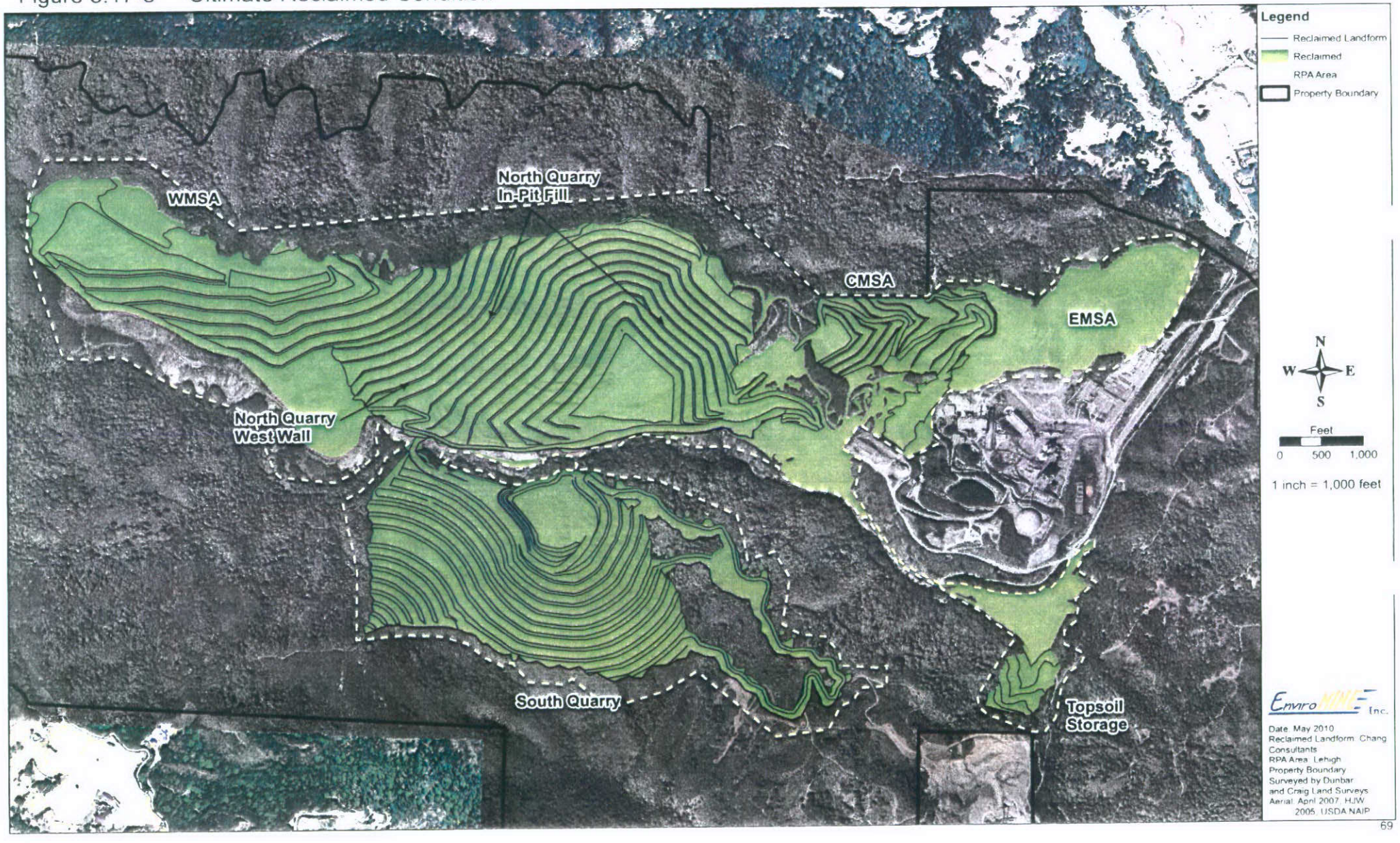
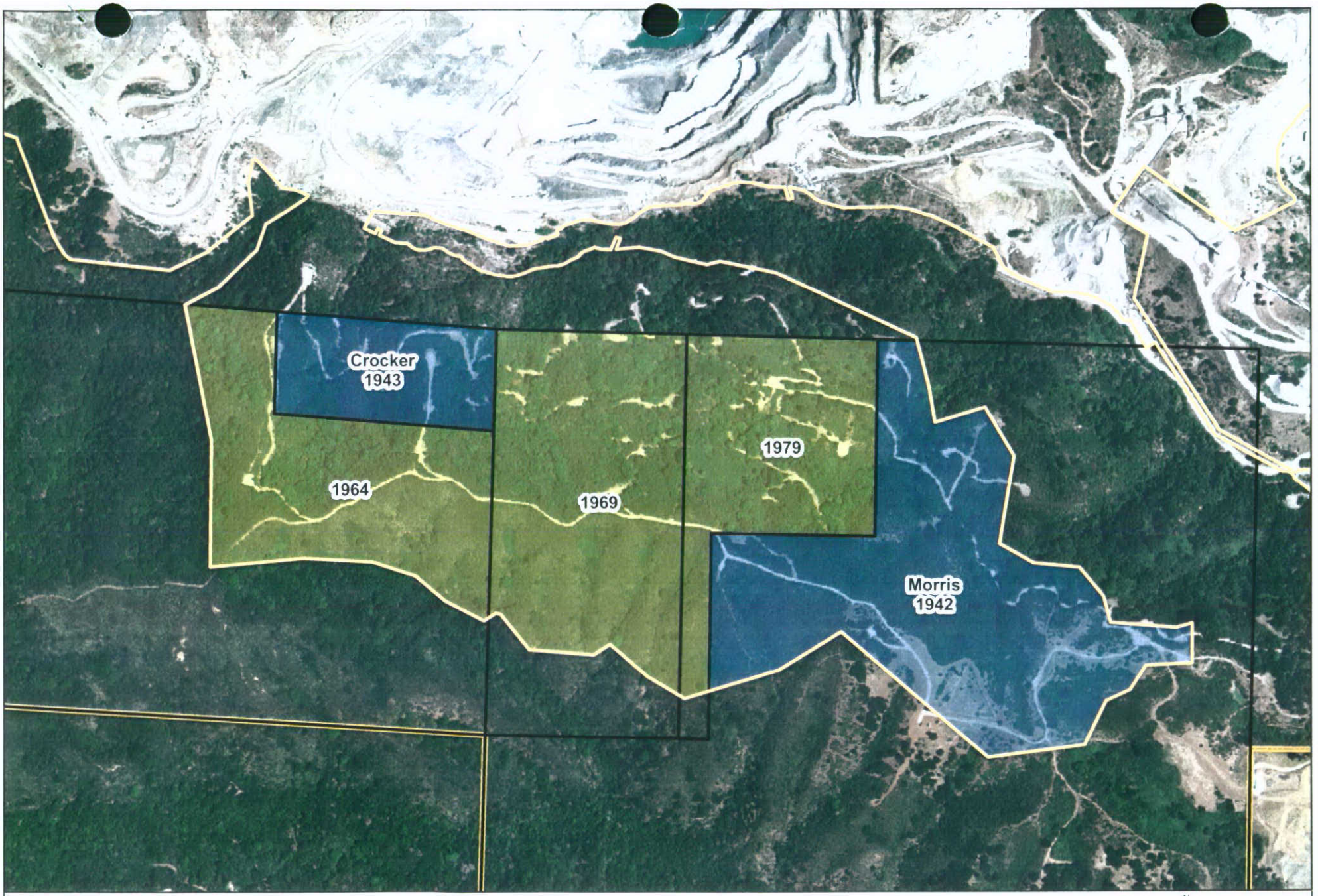


Figure 3.17-8 Ultimate Reclaimed Condition





EnviroMINE Inc.

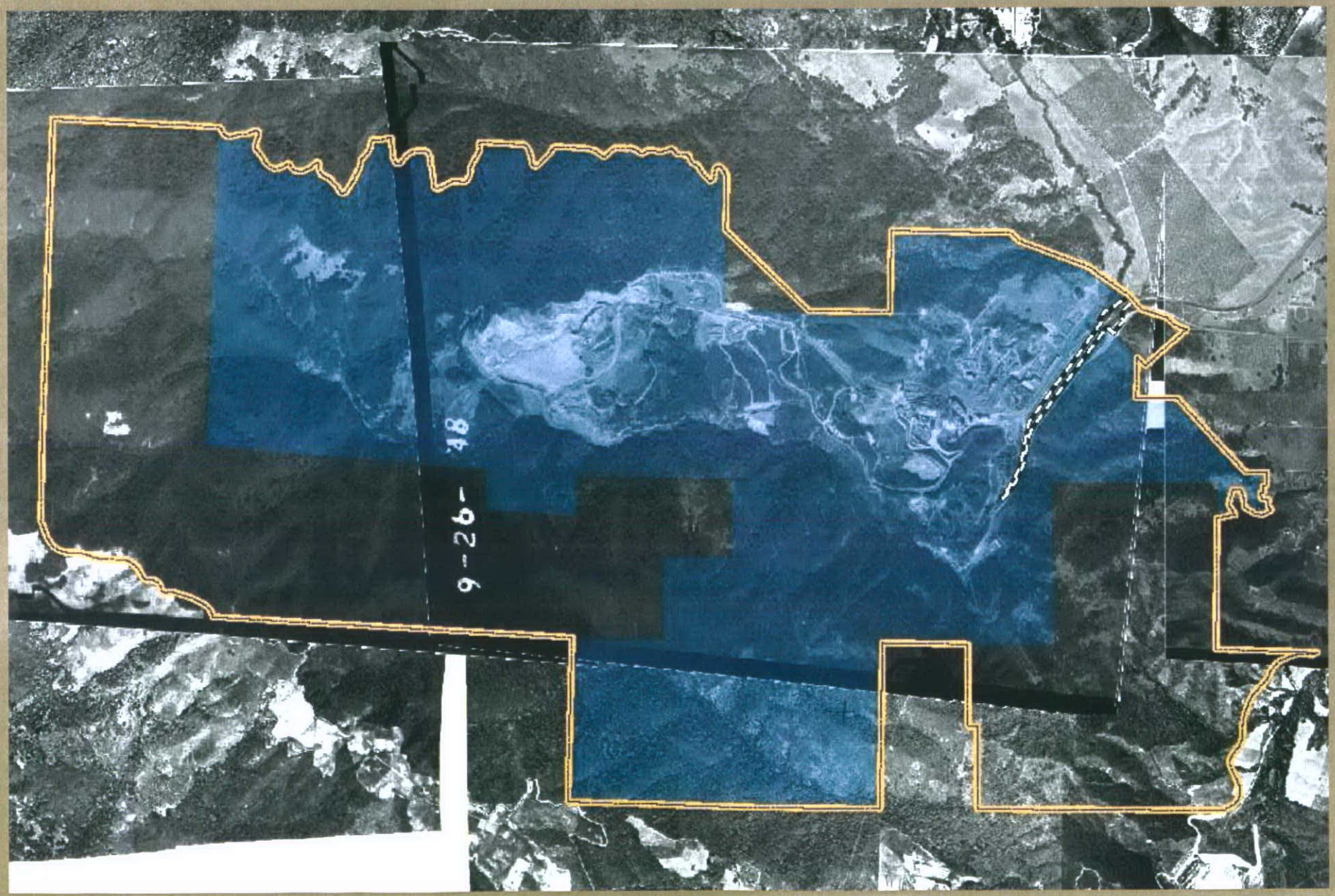
Date: November 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

PERMANENTE QUARRY
SOUTH QUARRY USE PERMIT

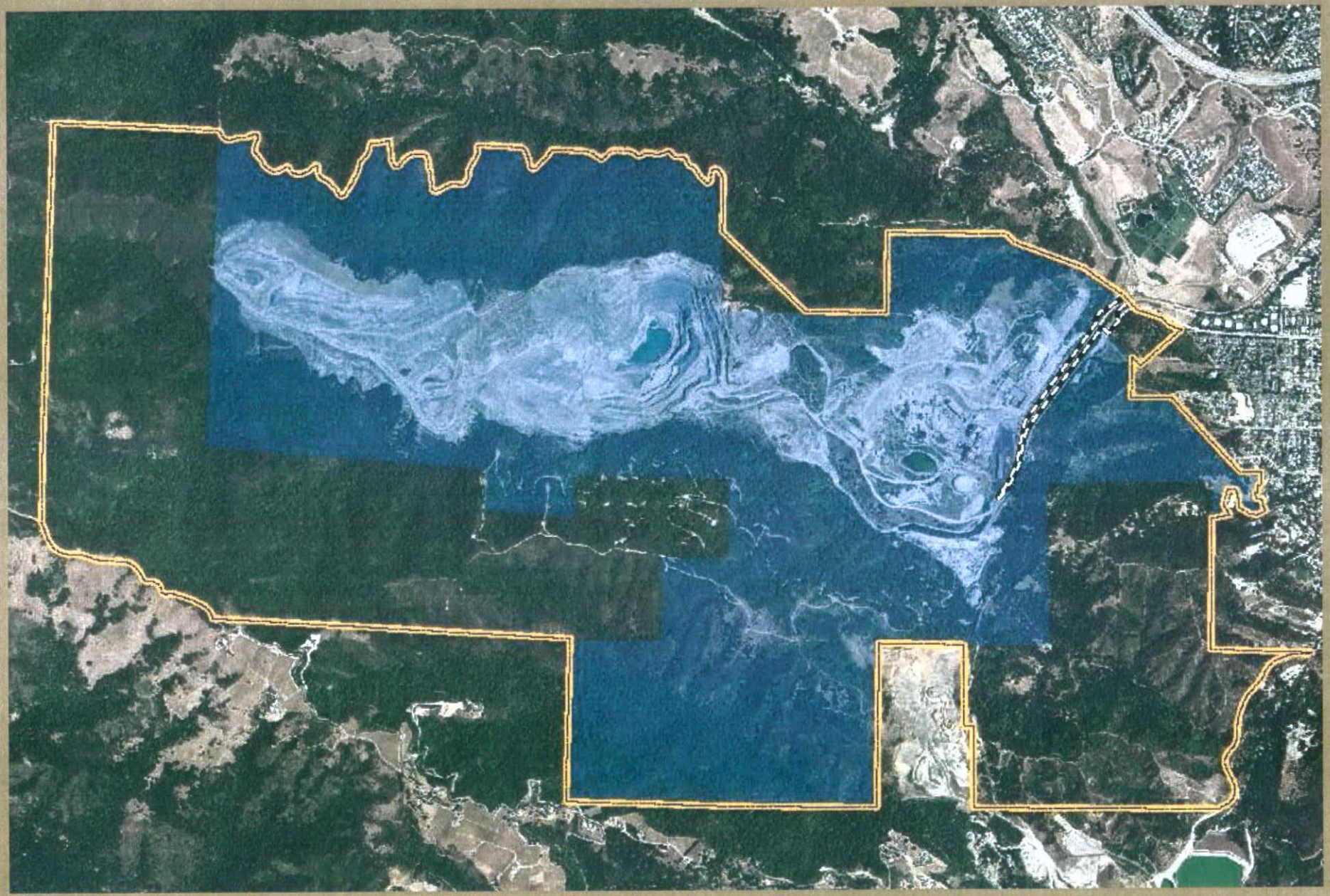
N
W E
S

Feet
0 400 800
1 inch = 800 feet

1939-1943 Ownership (1948 Image)



1939-1943 Ownership (2009 Image)



EnviroMINE Inc.

Date: November 2010
Property Boundary: Surveyed by
Dunbar and Craig Land Surveys
Aerial: 2009, USDA NAIP

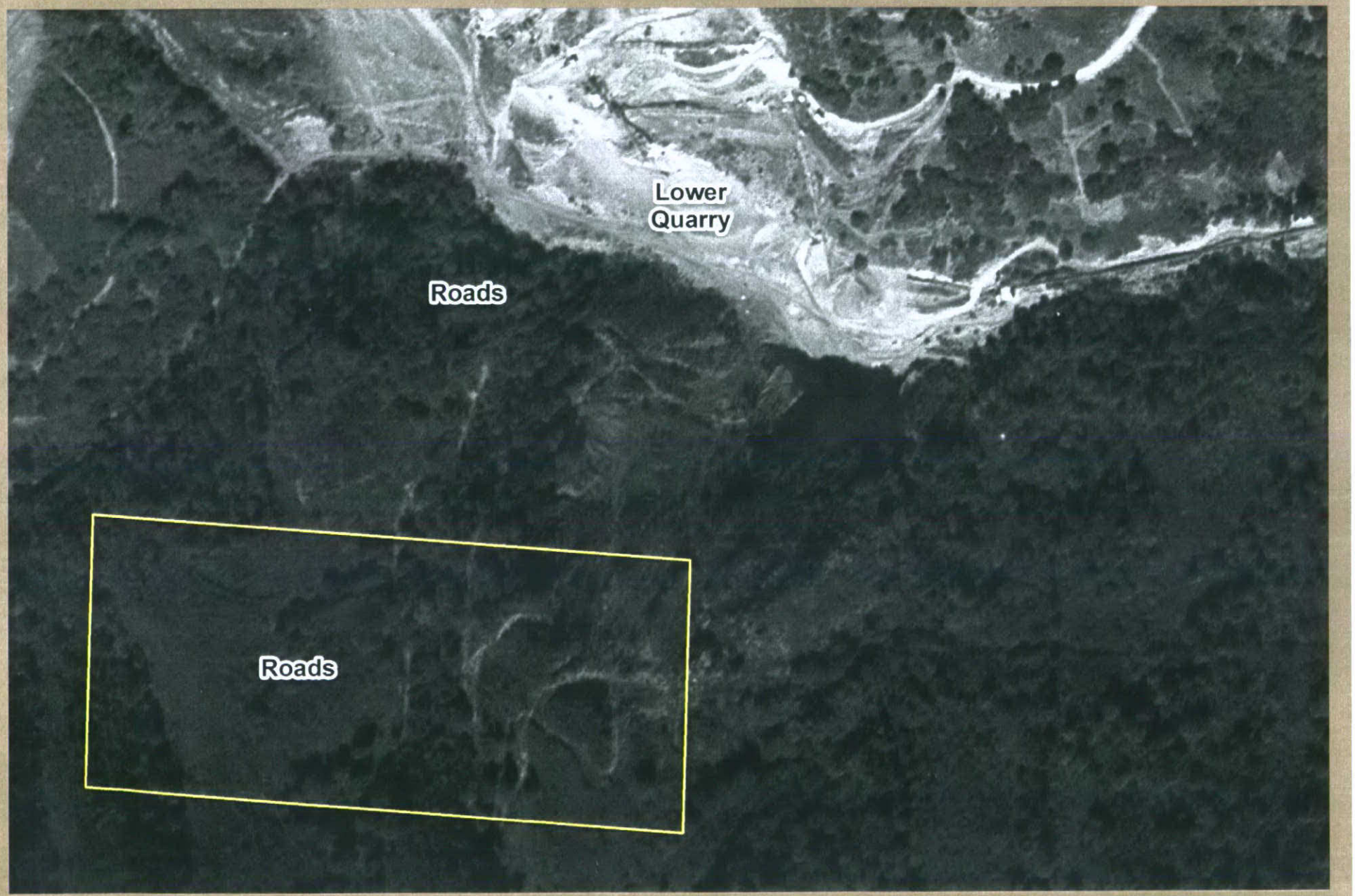
MORRIS PARCEL

N
W E
S

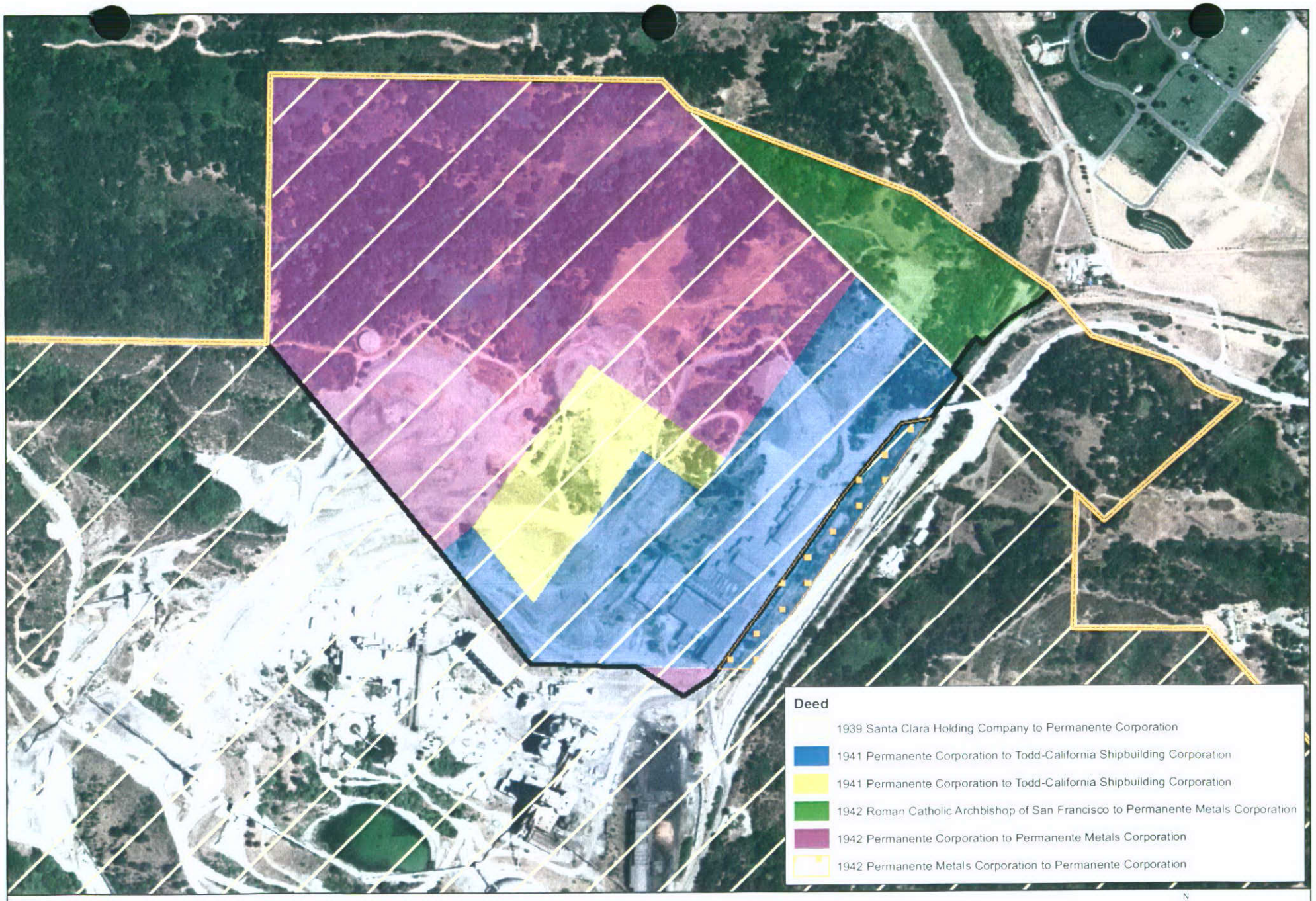
Feet
0 200 400
1 inch = 400 feet

Access Road (1942)

1948 - Crocker Roads



Exploratory Drilling



EnviroMINE Inc.

Date: December 2010
Property Boundary: Surveyed by Dunbar and Craig Land Surveys
Aerial: 2009 USDA NAIP

PERMANENTE QUARRY
EMSA DEED BOUNDARIES

N
W E
S

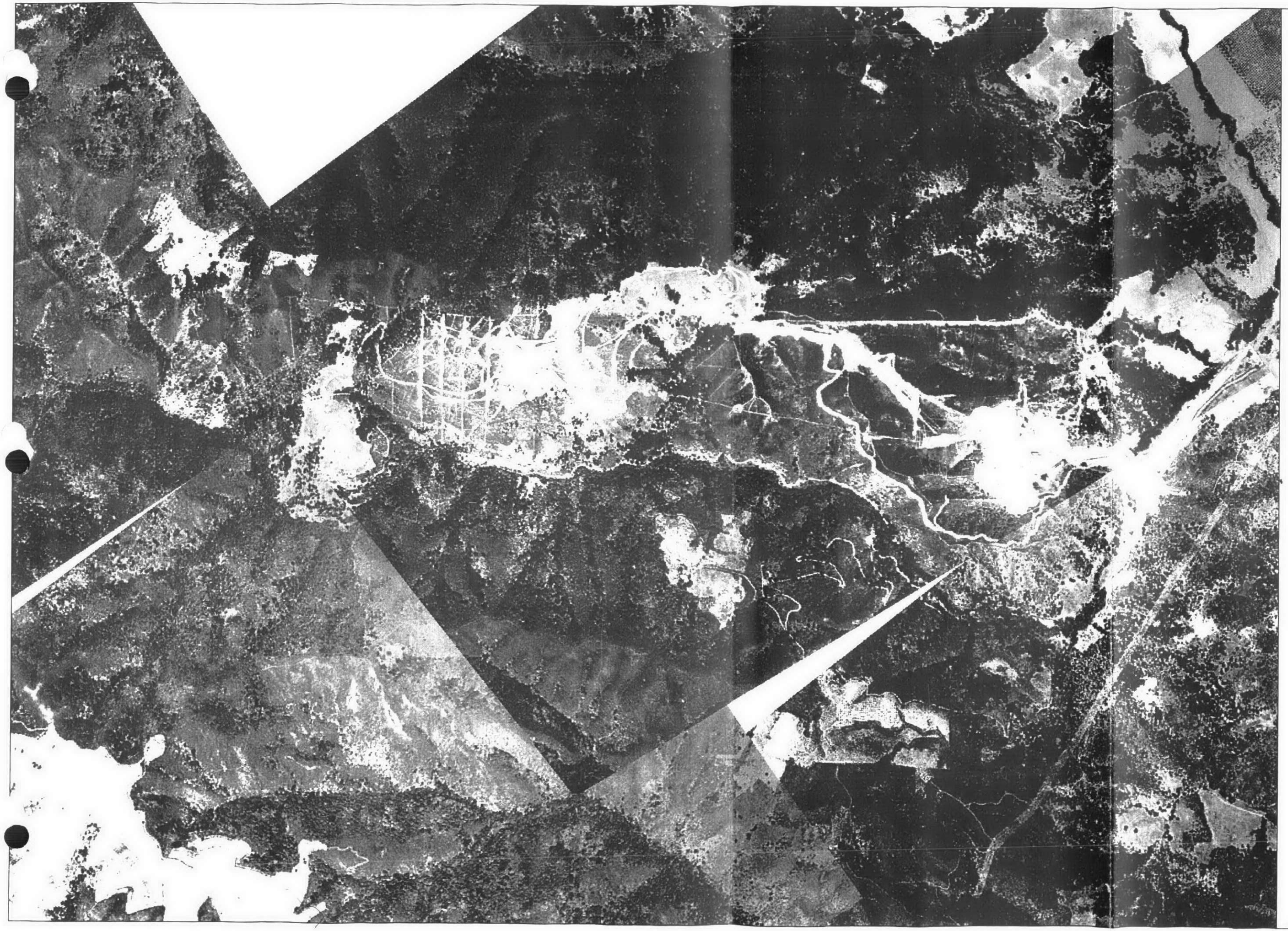
Feet
0 300 600
1 inch = 600 feet

EnviroMINE Inc.

PERMANENTE QUARRY
EMSA HISTORIC PROGRESSION

Date: December 2010

Permanente 1939 Aerial



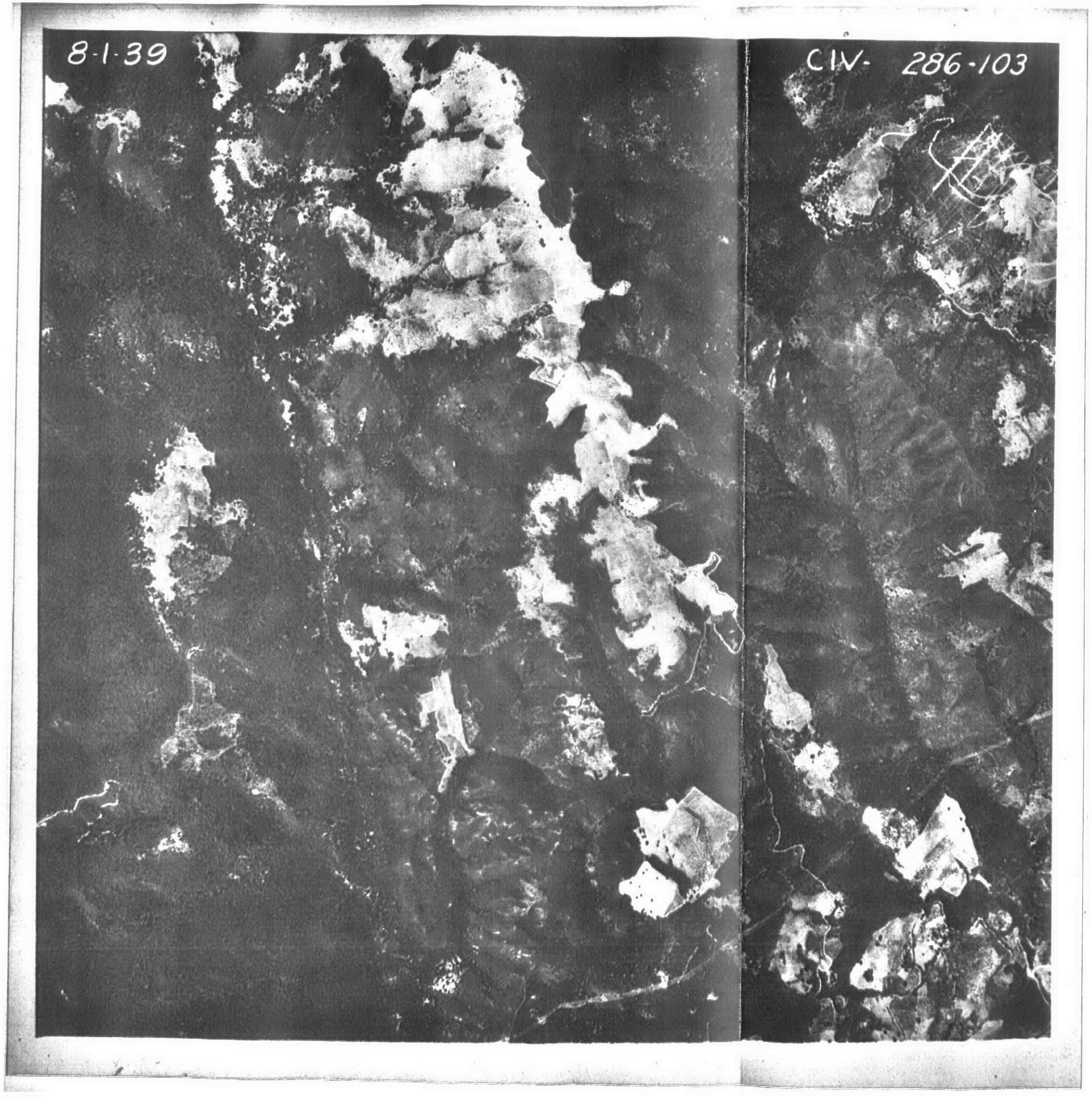
N
W E
S

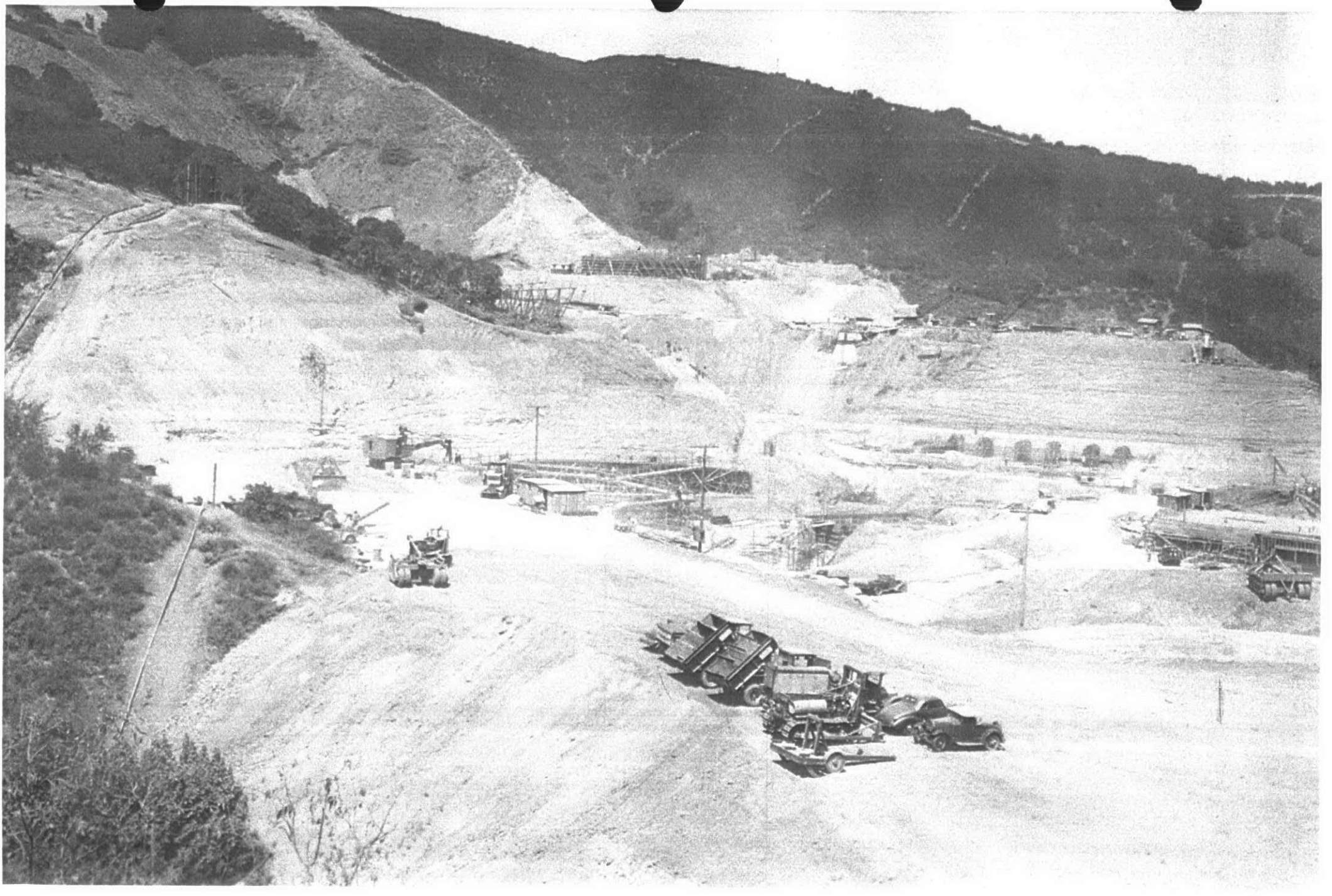
Feet
0 500 1,000
1 inch equals 1,000 feet

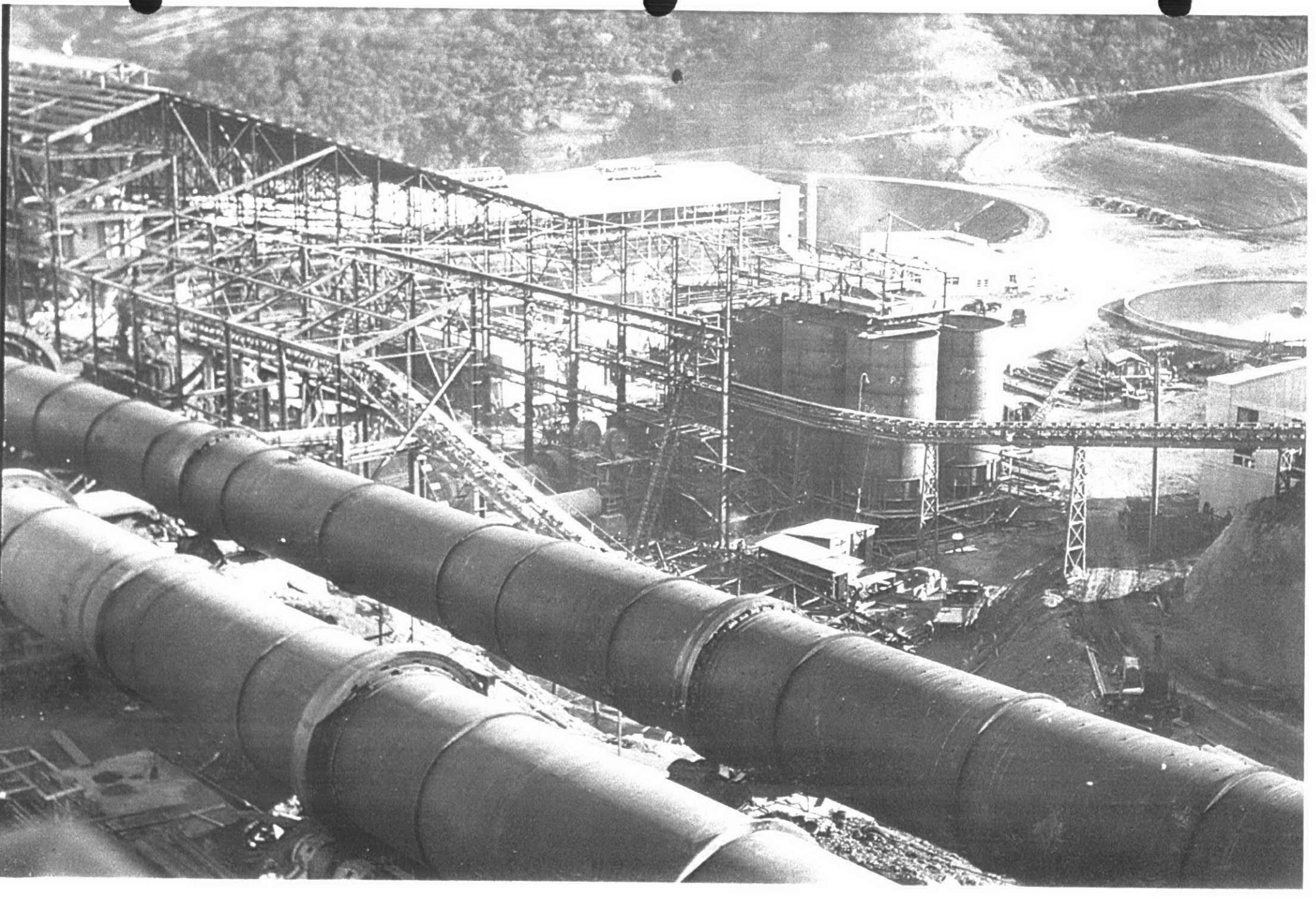
EnviroMINE

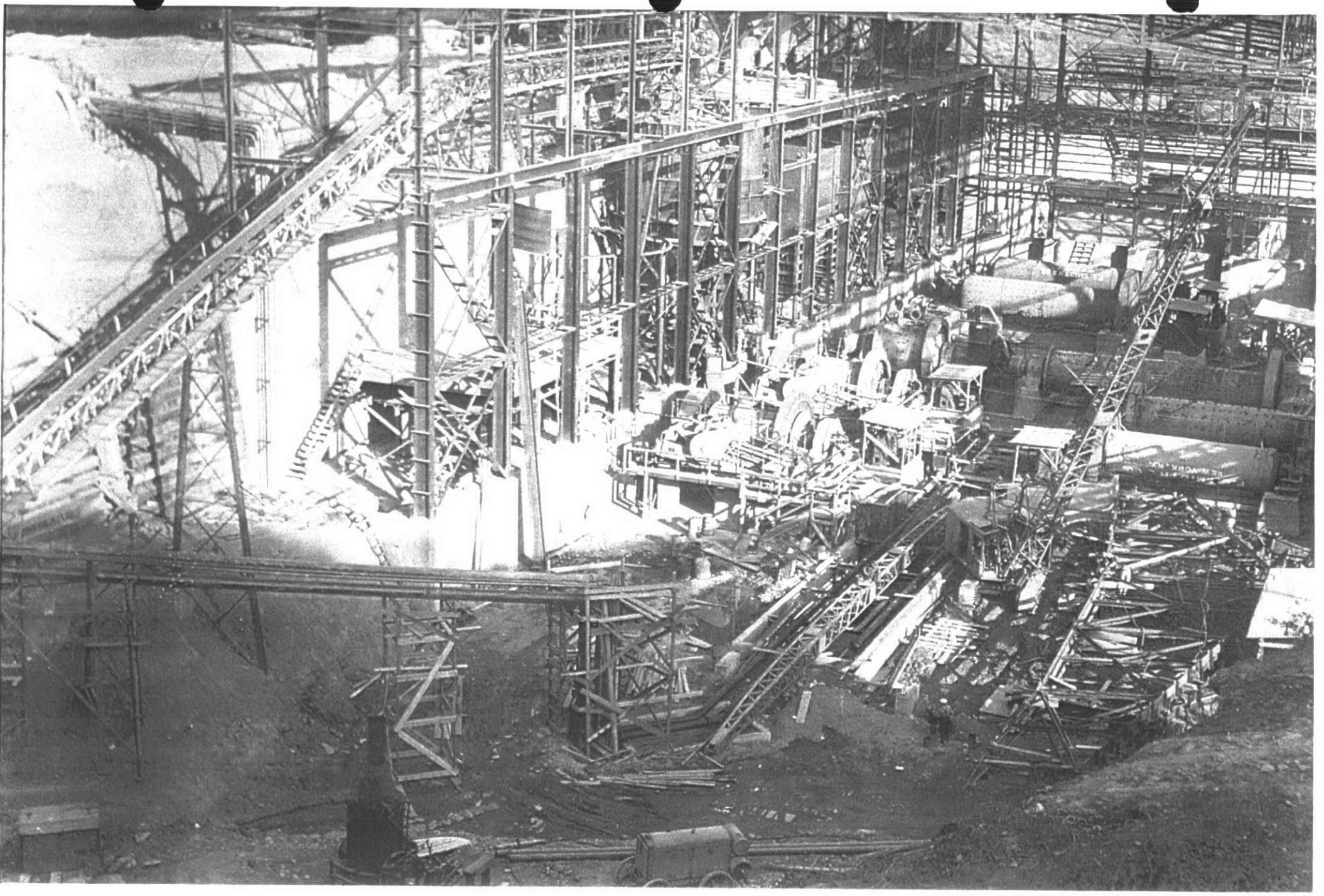
Date: July 2007
Aerial: 1939, EDR

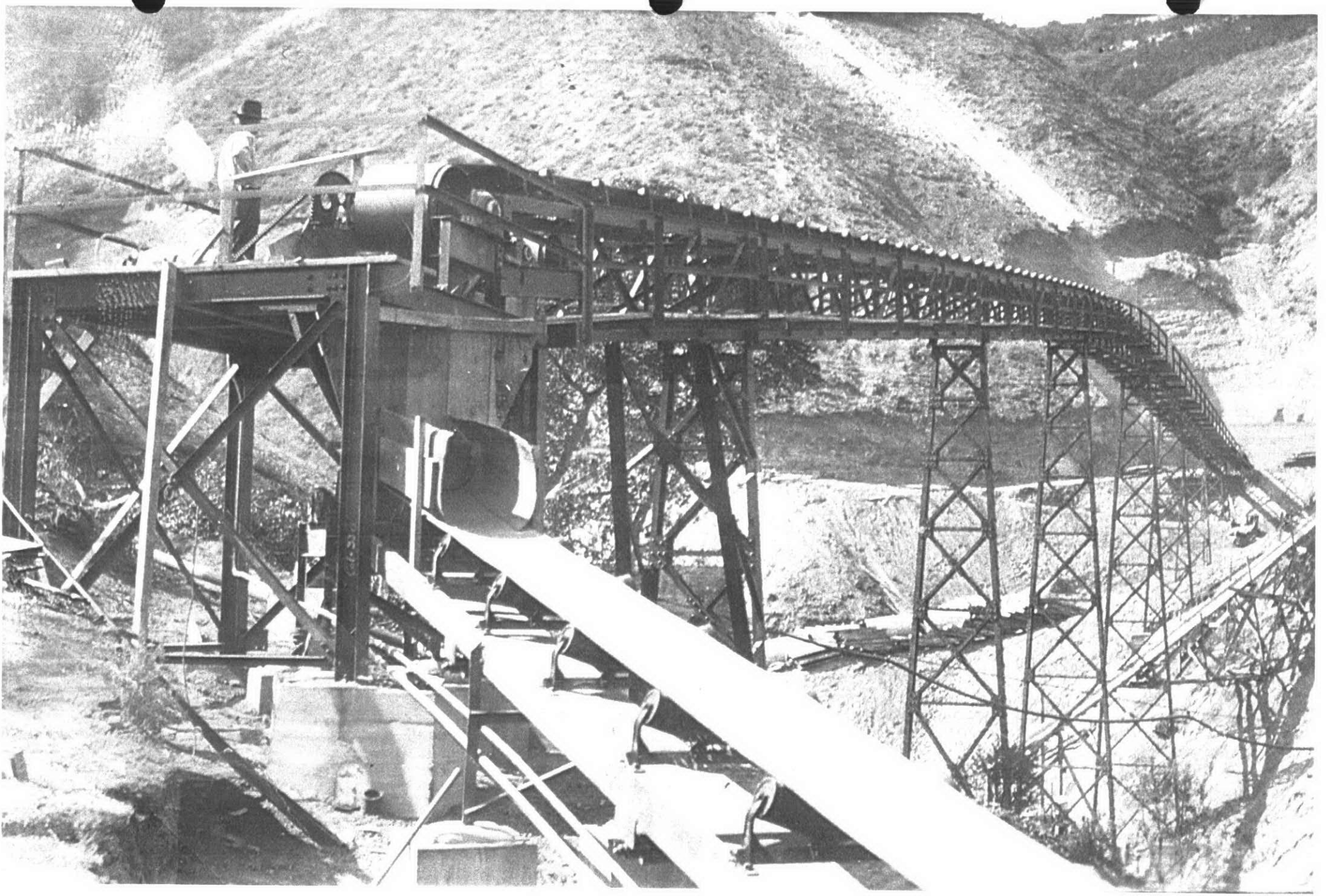
8-1-39

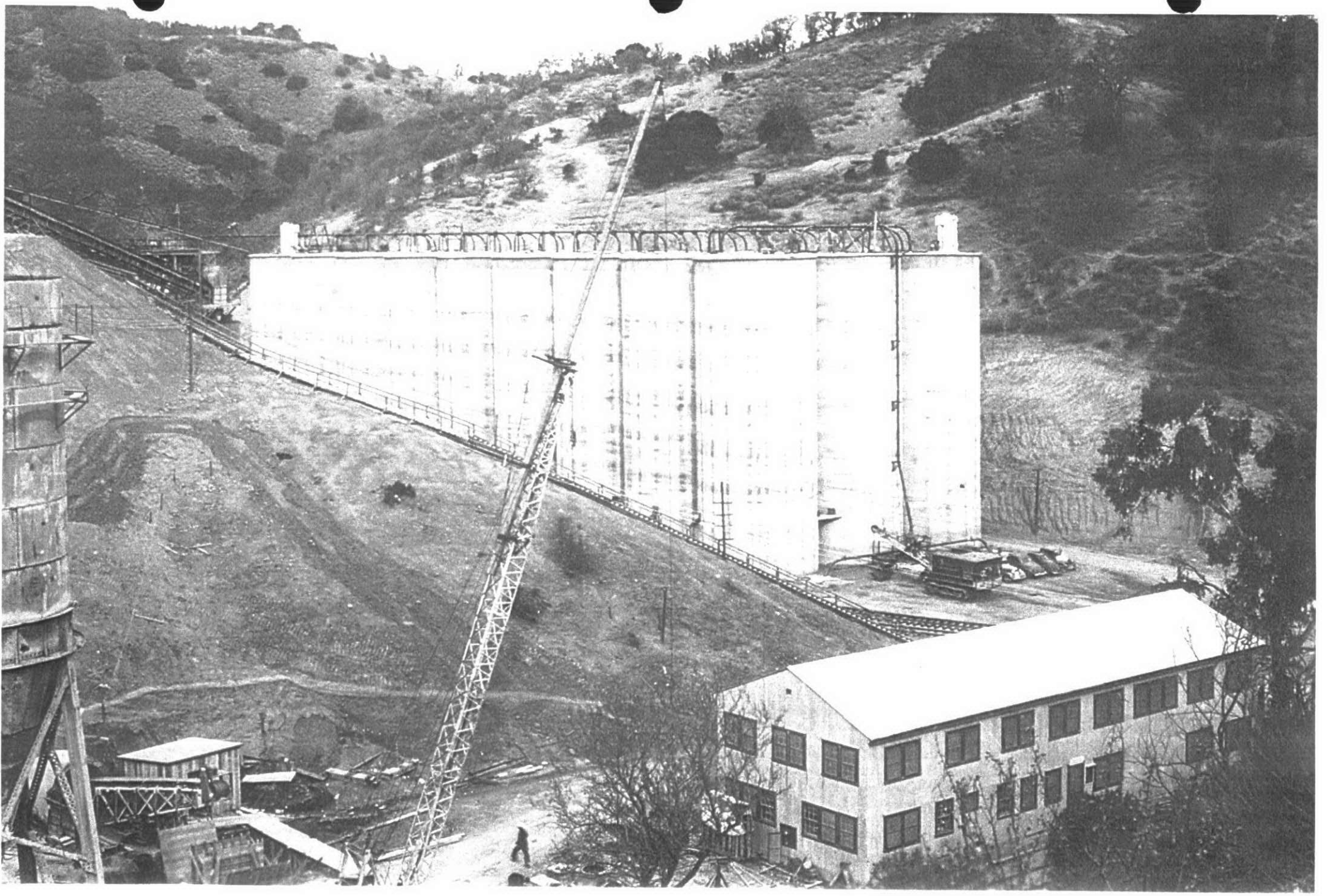

8-1-39
CIV- 286-103

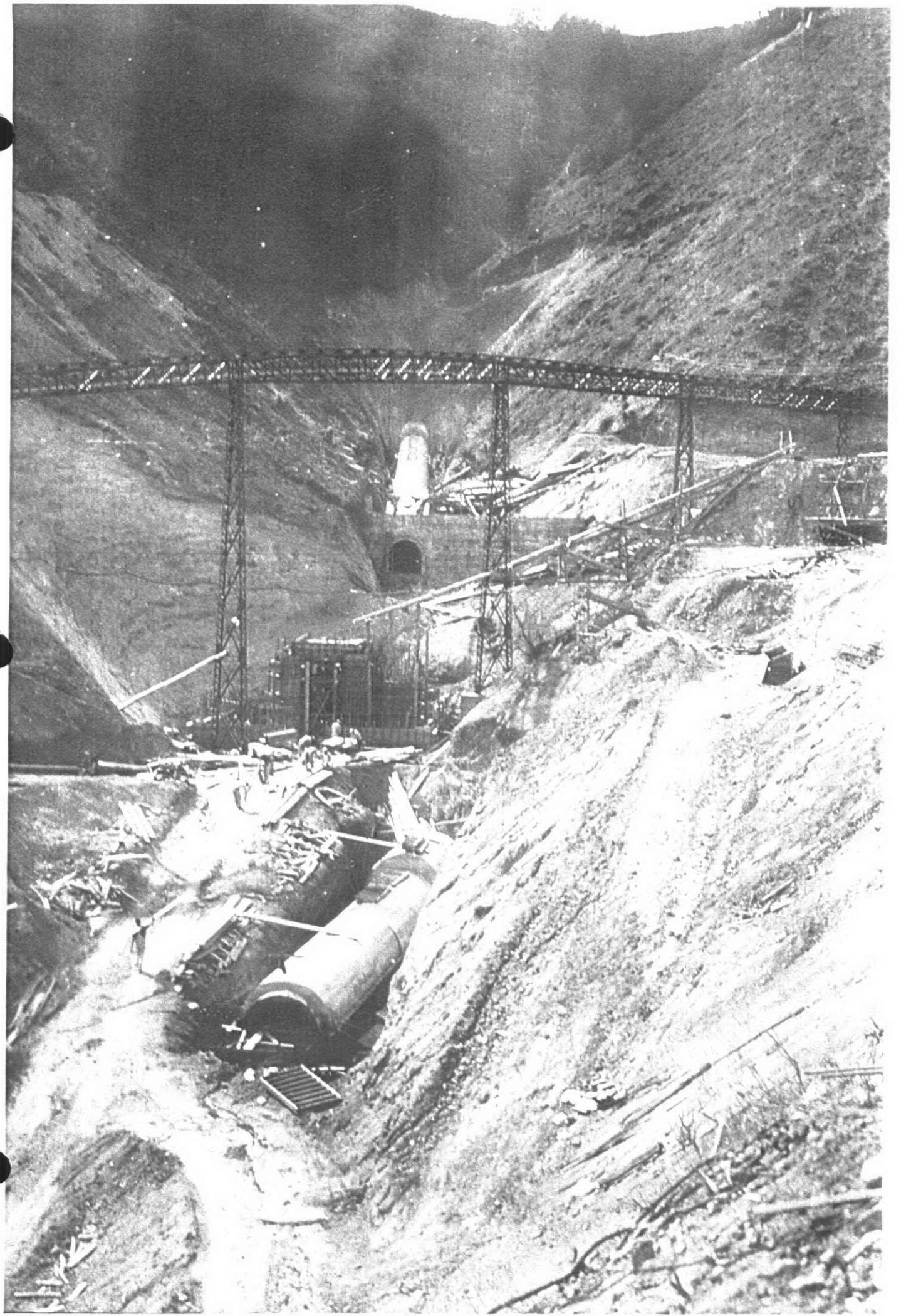


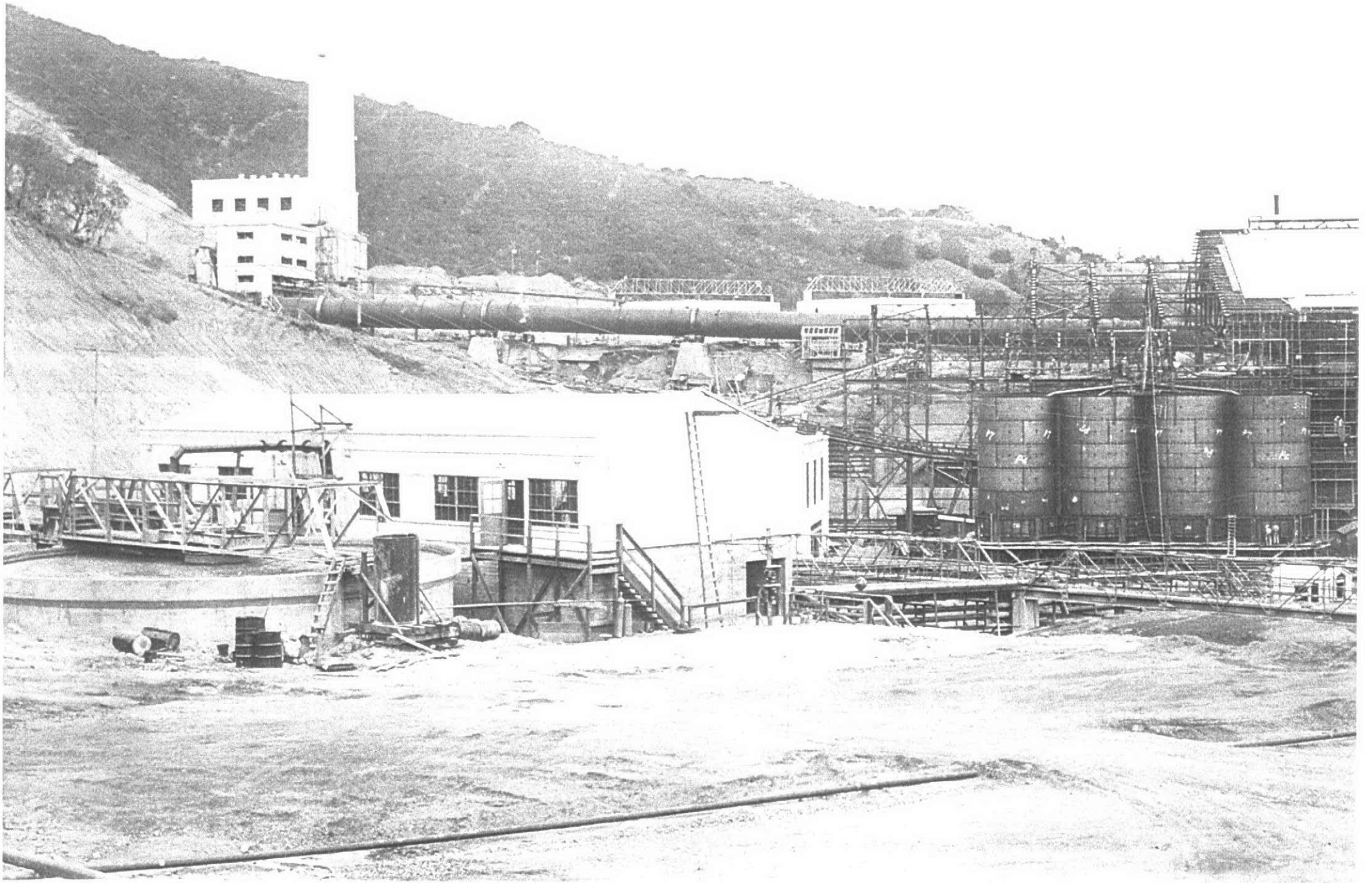


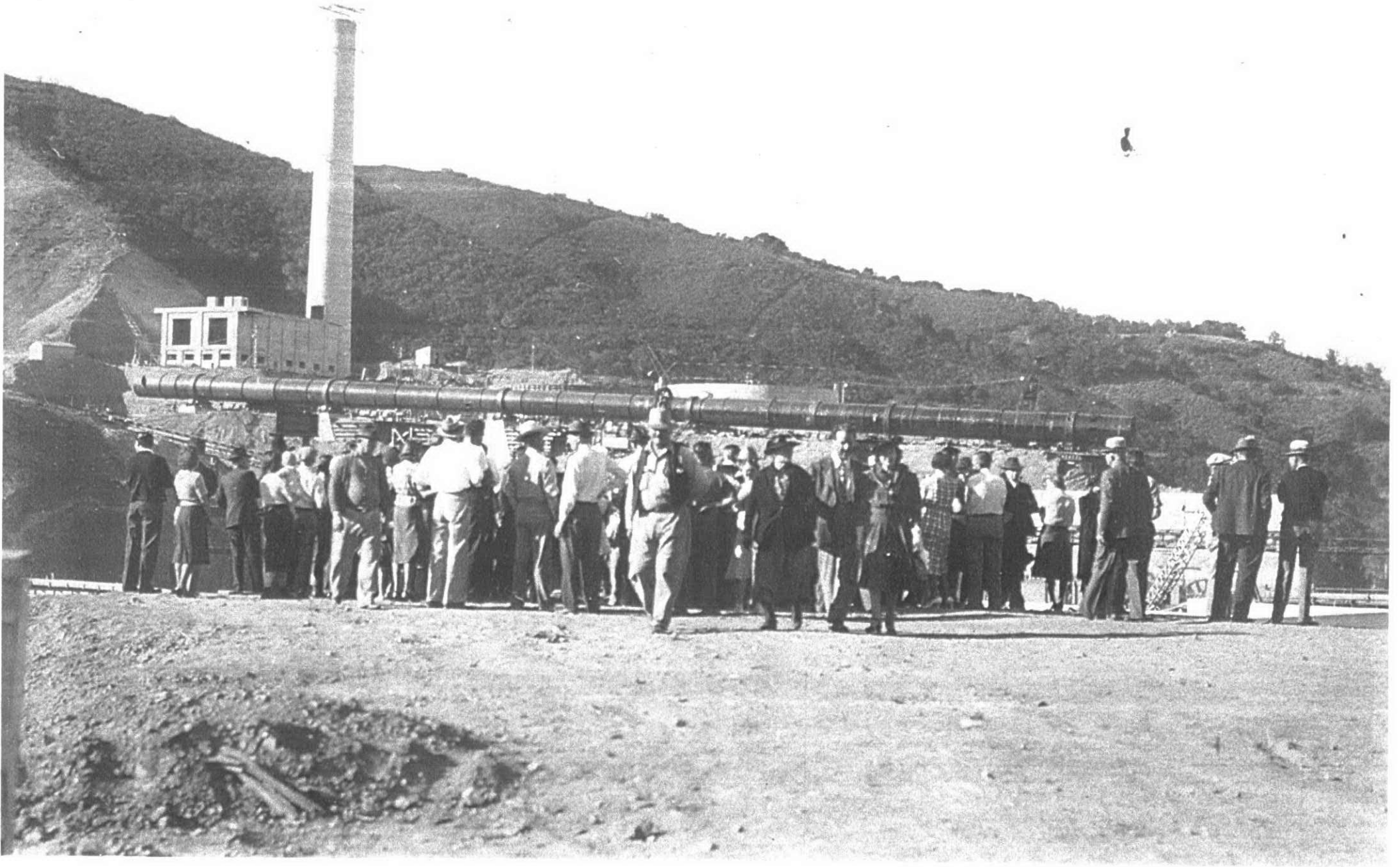


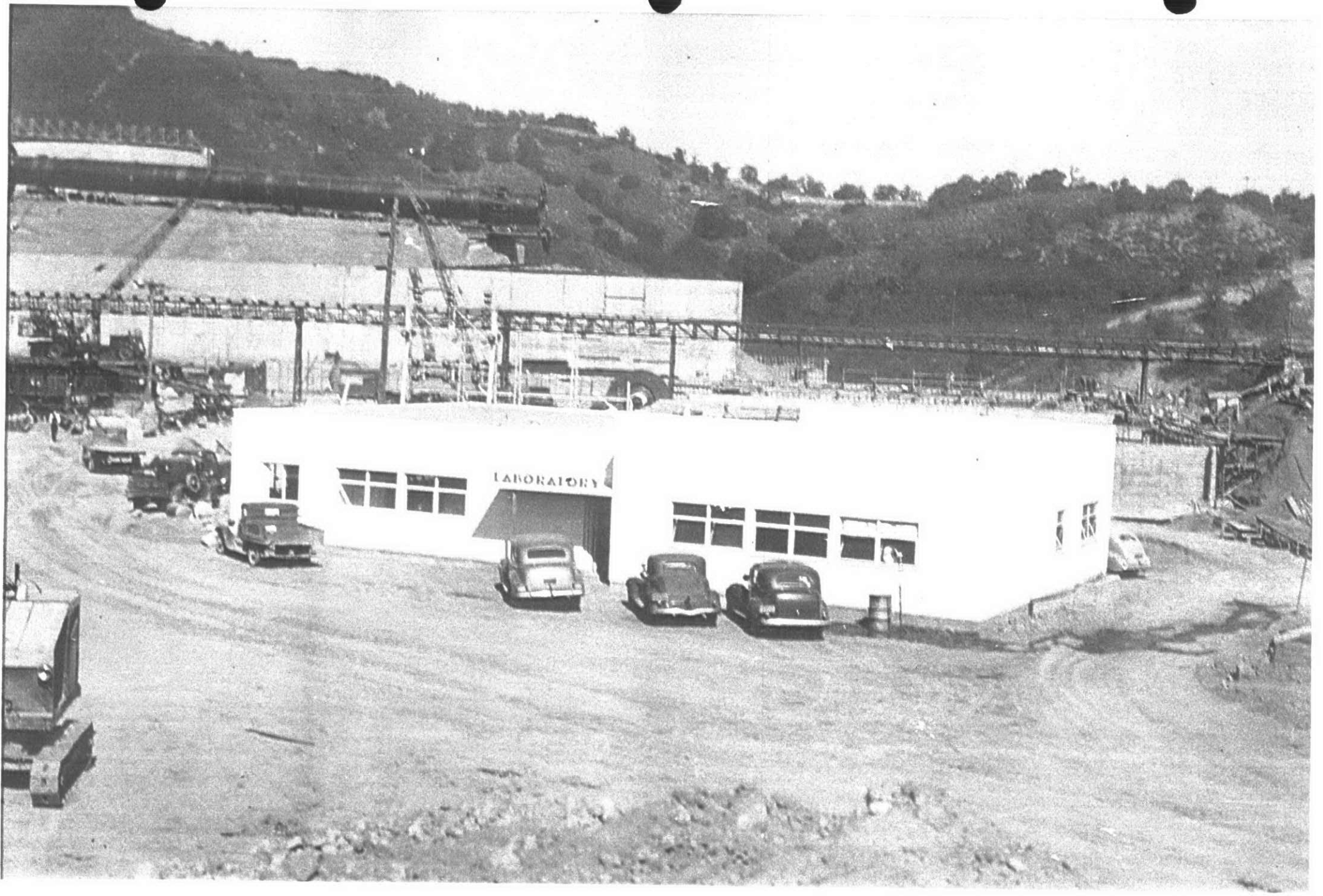








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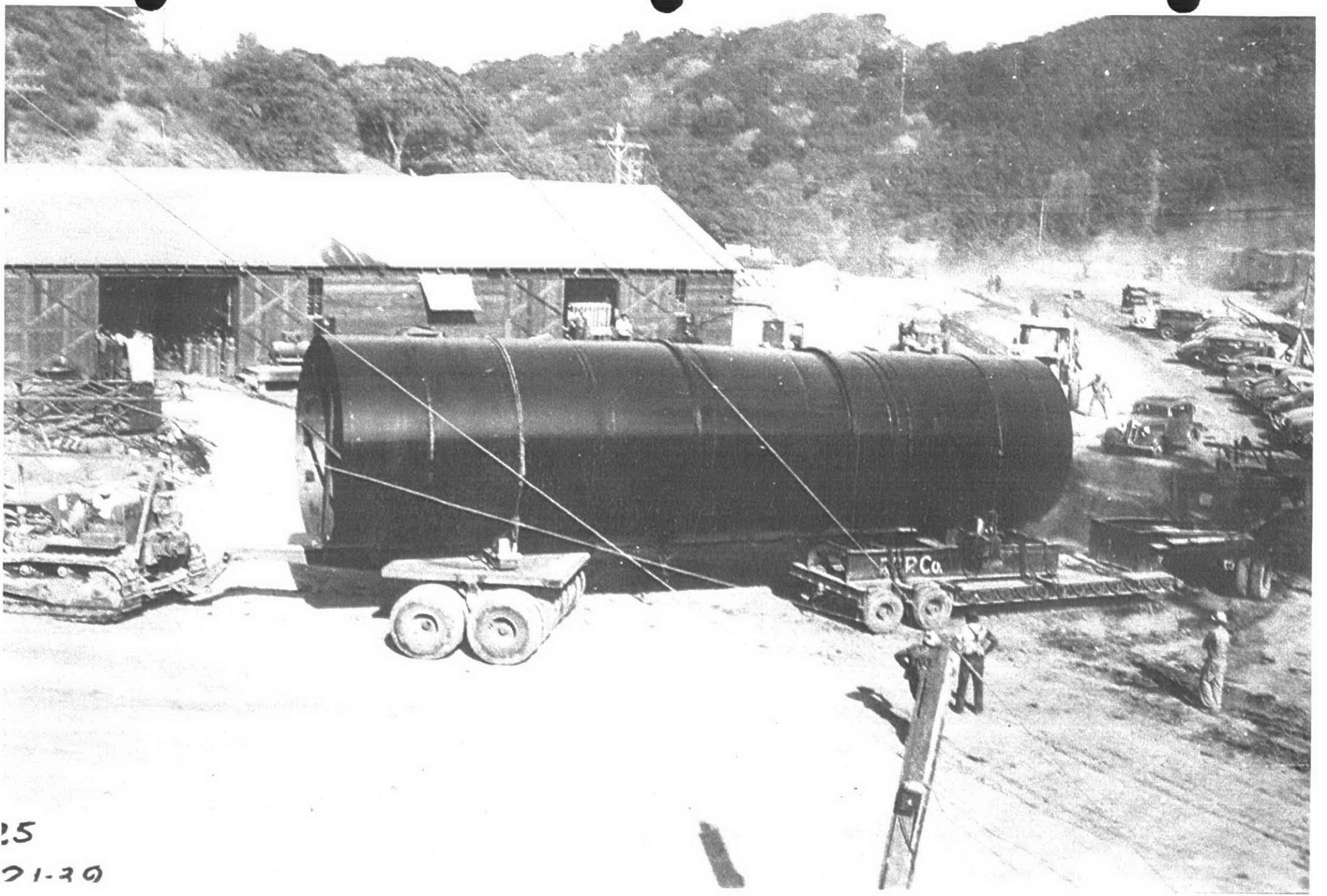

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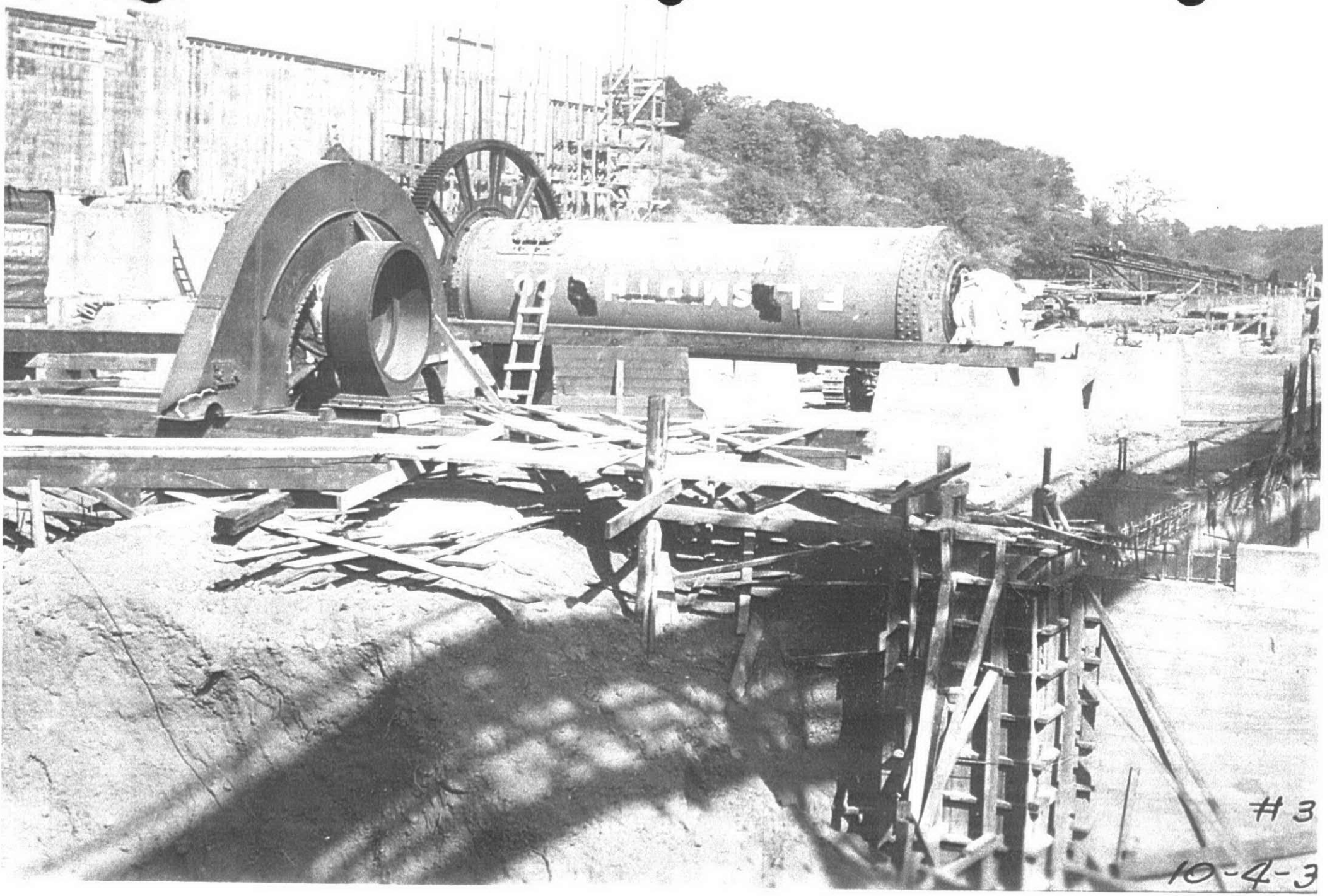
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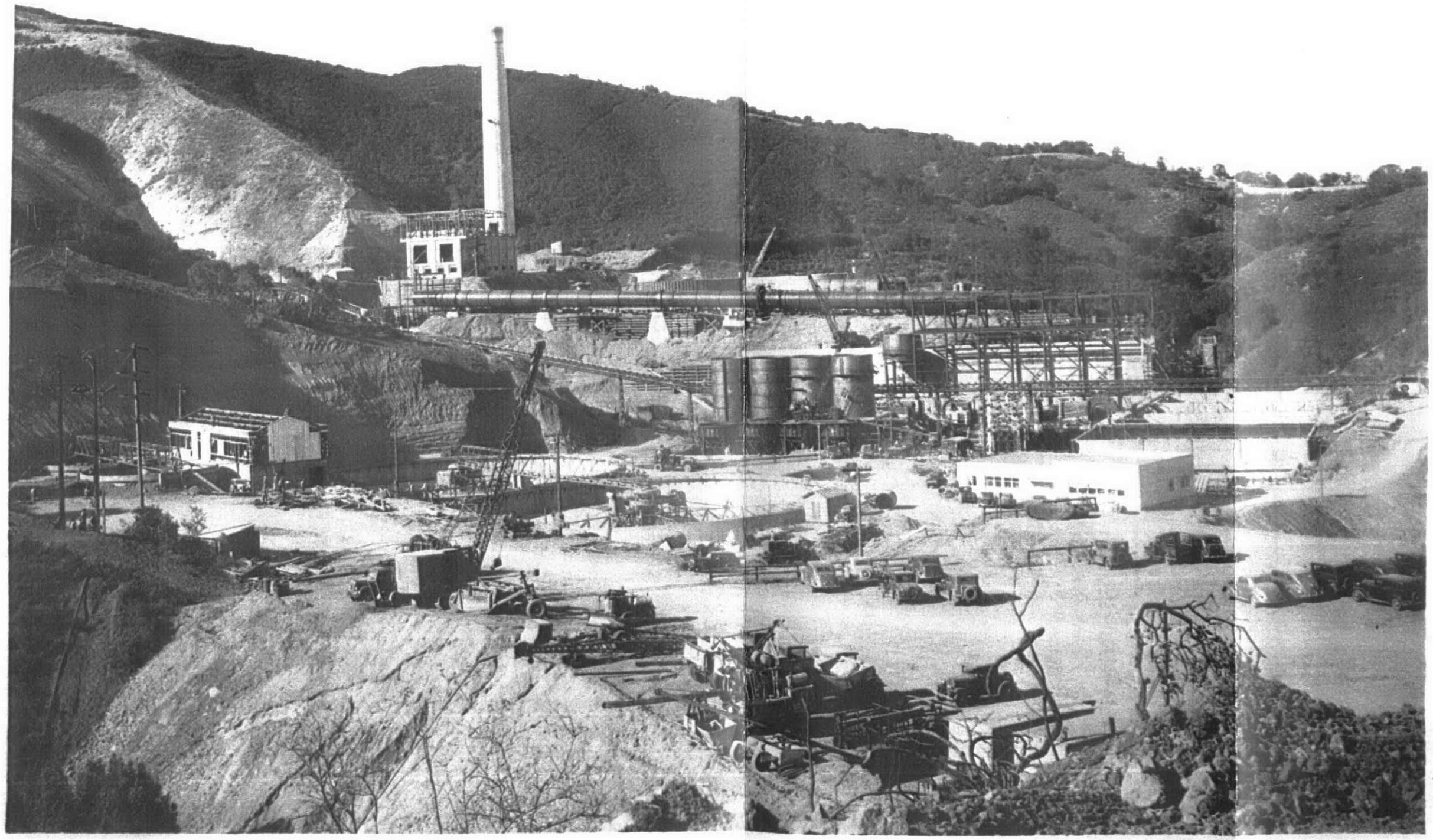

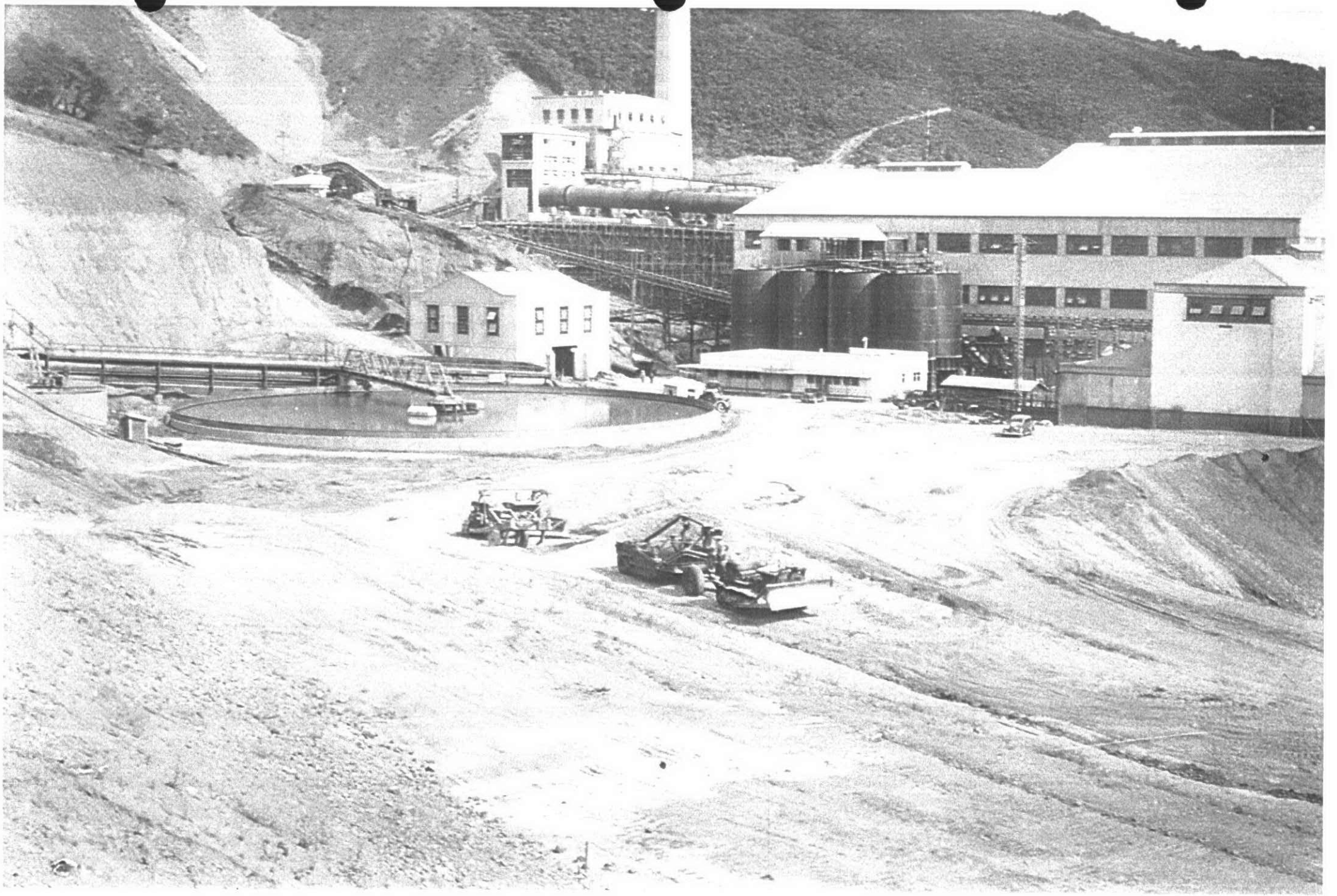

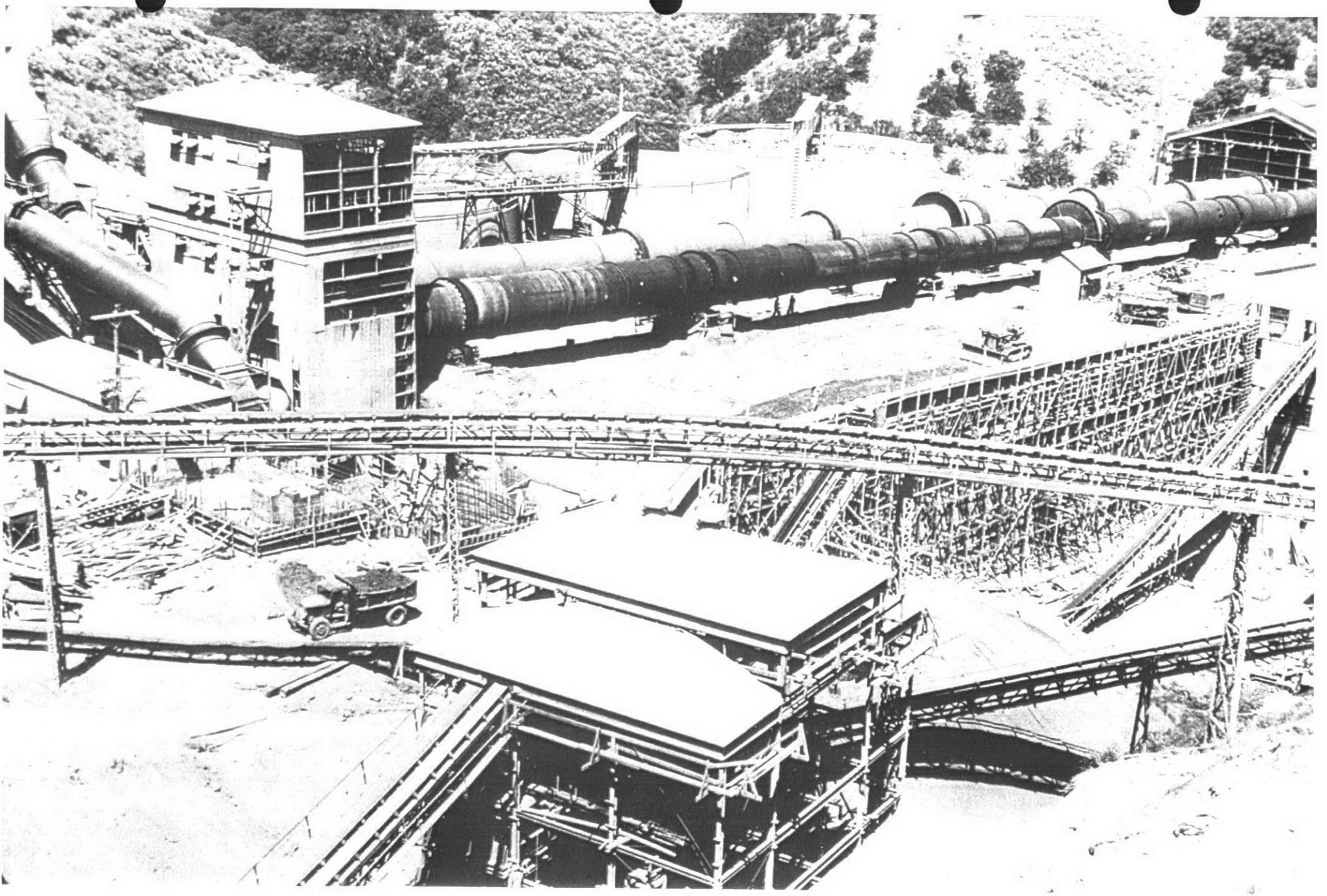

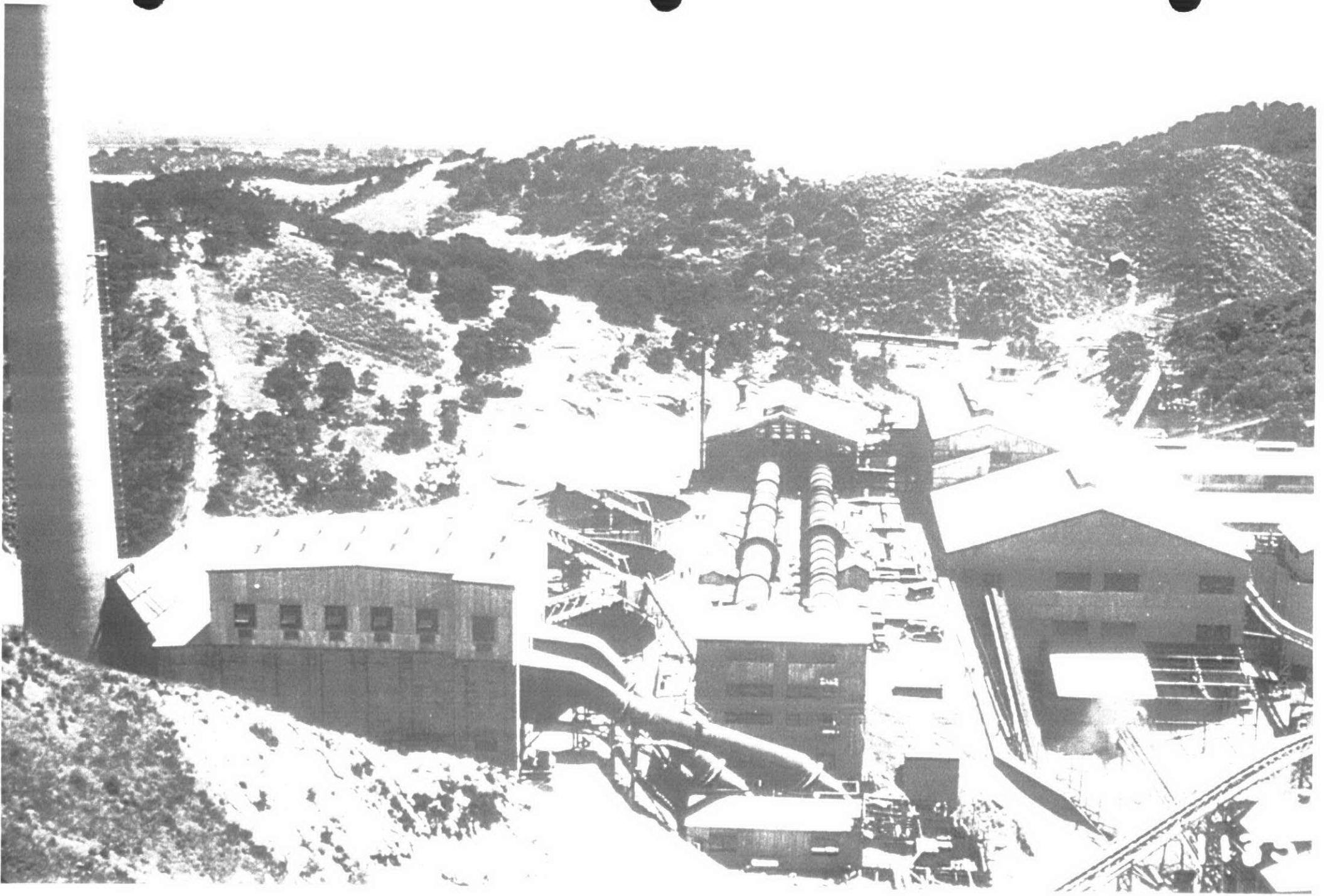

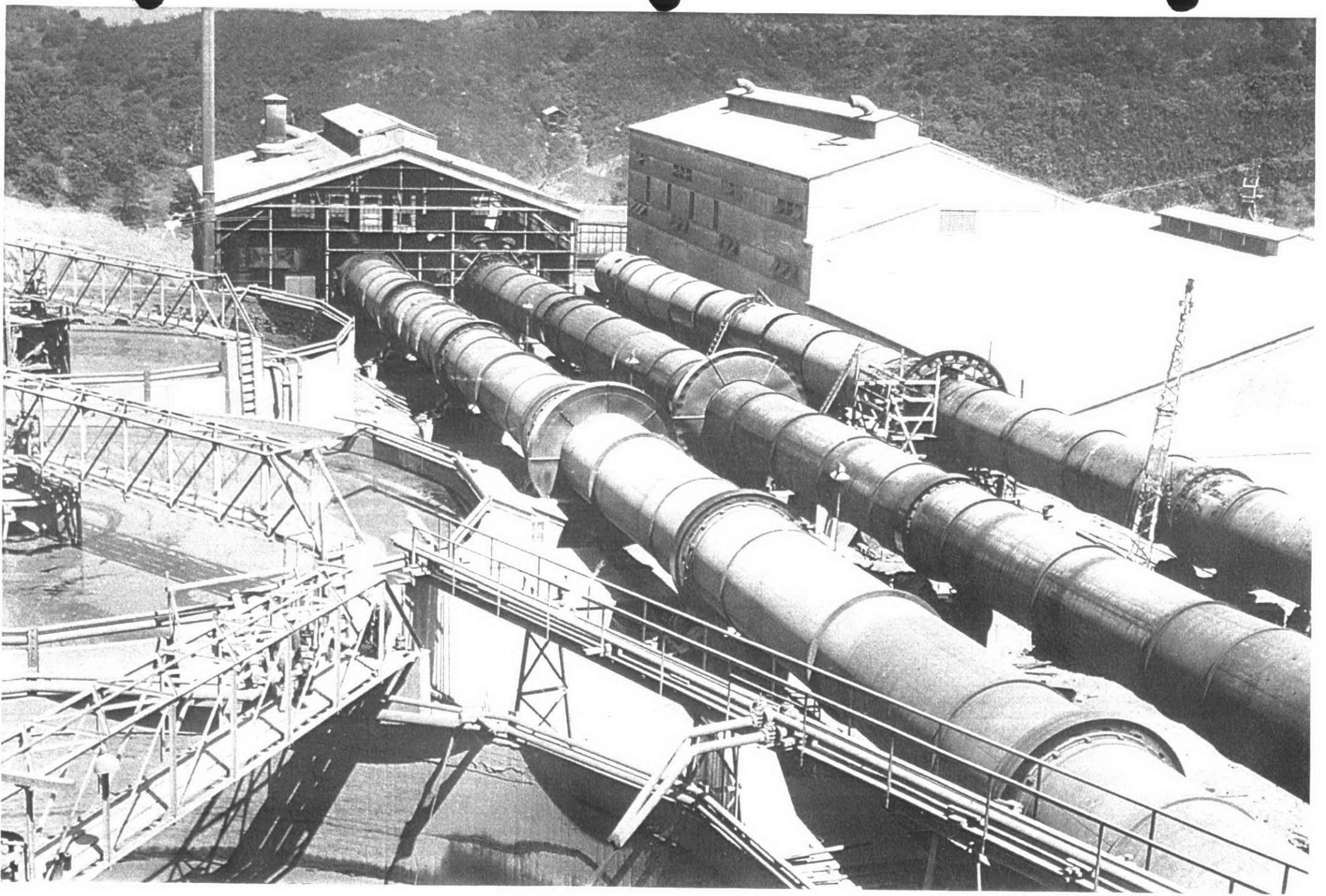

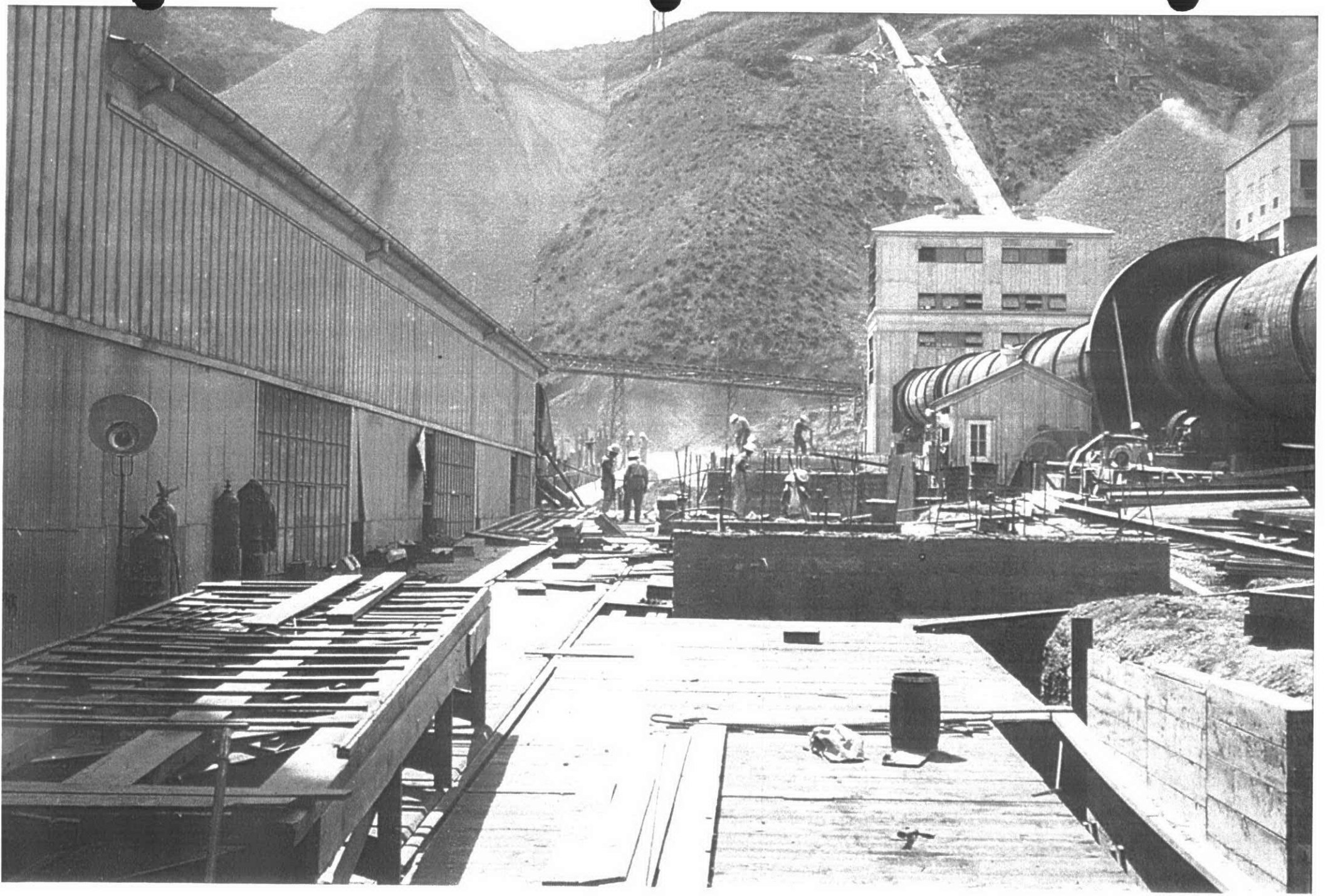

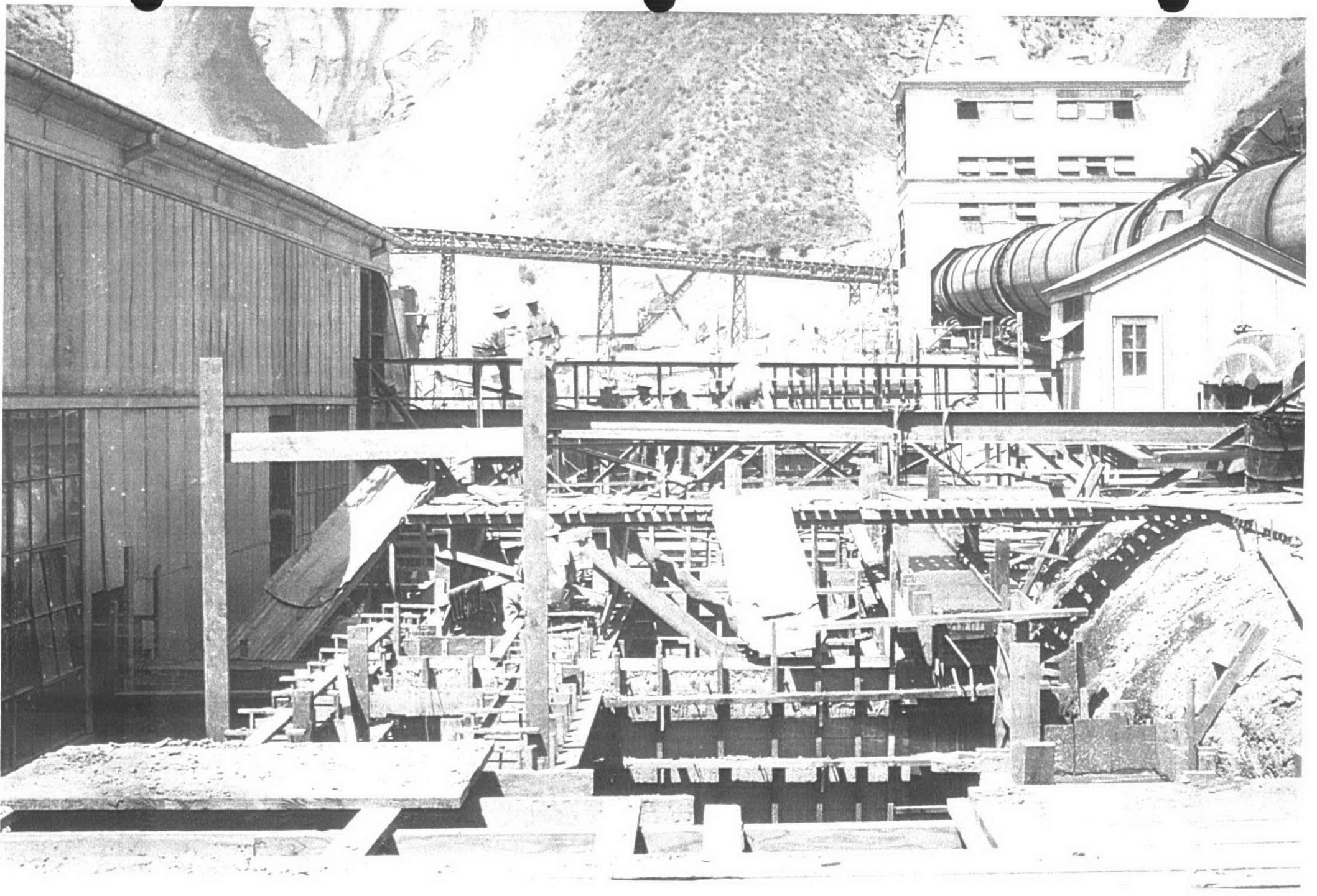

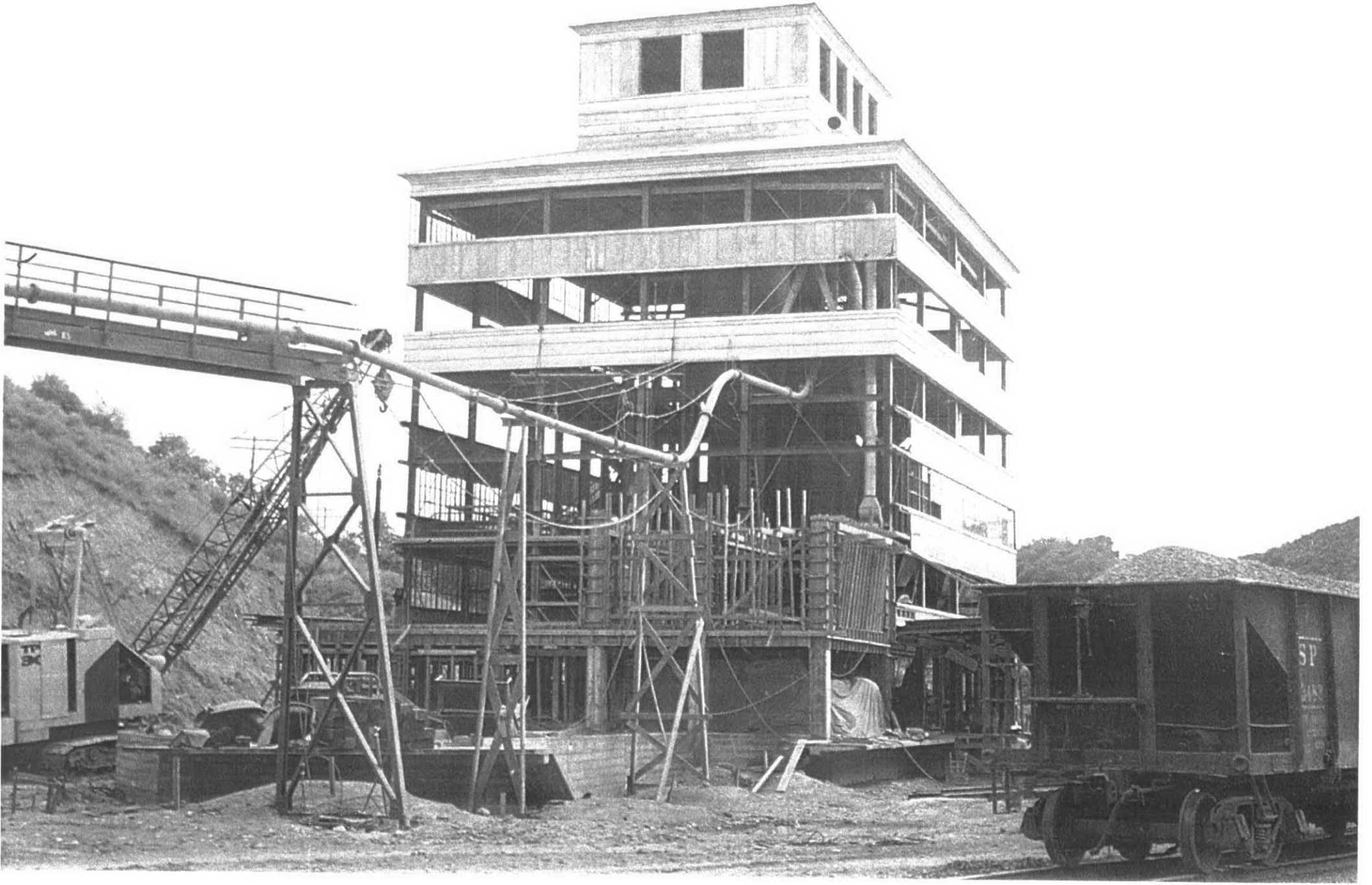
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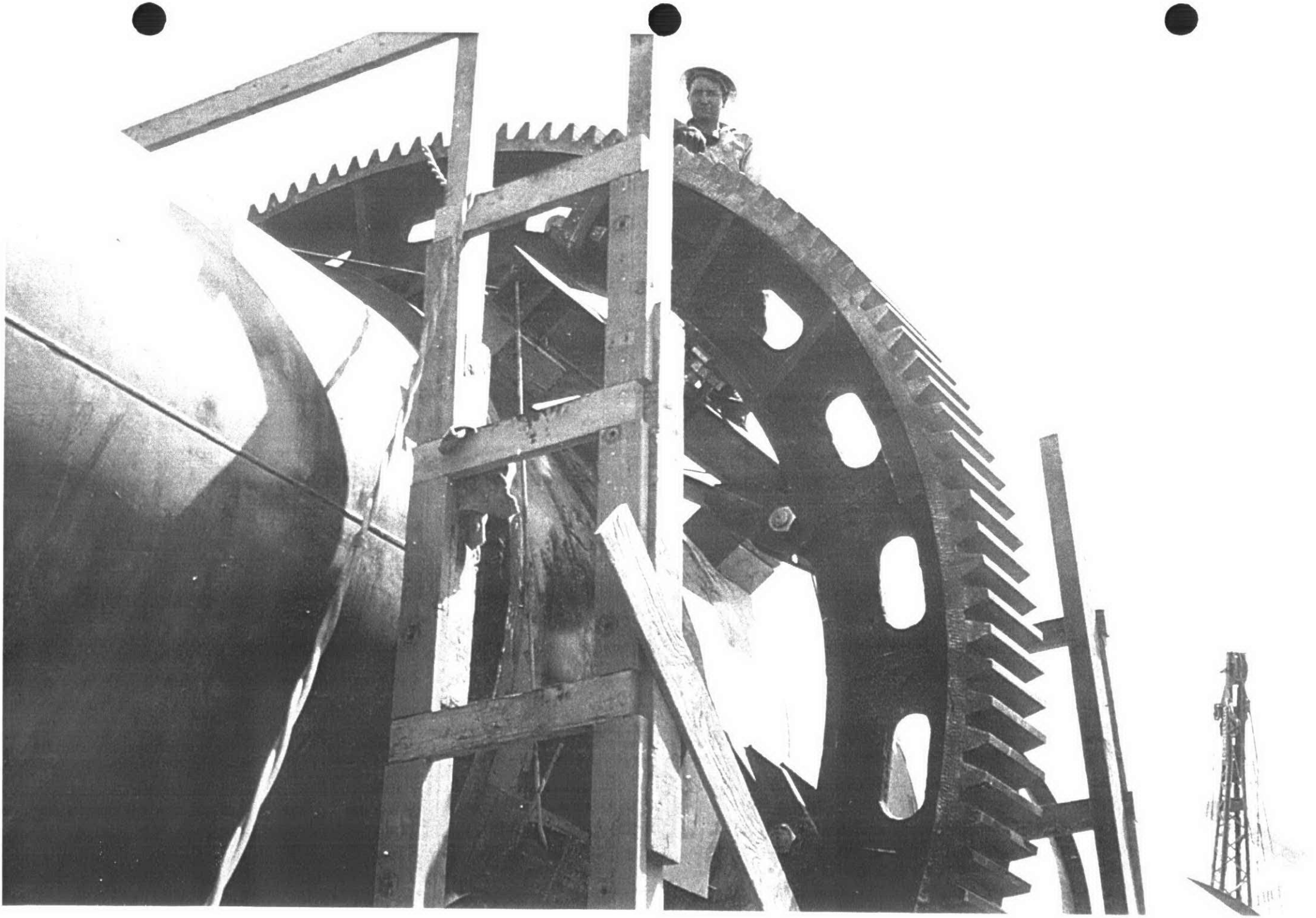
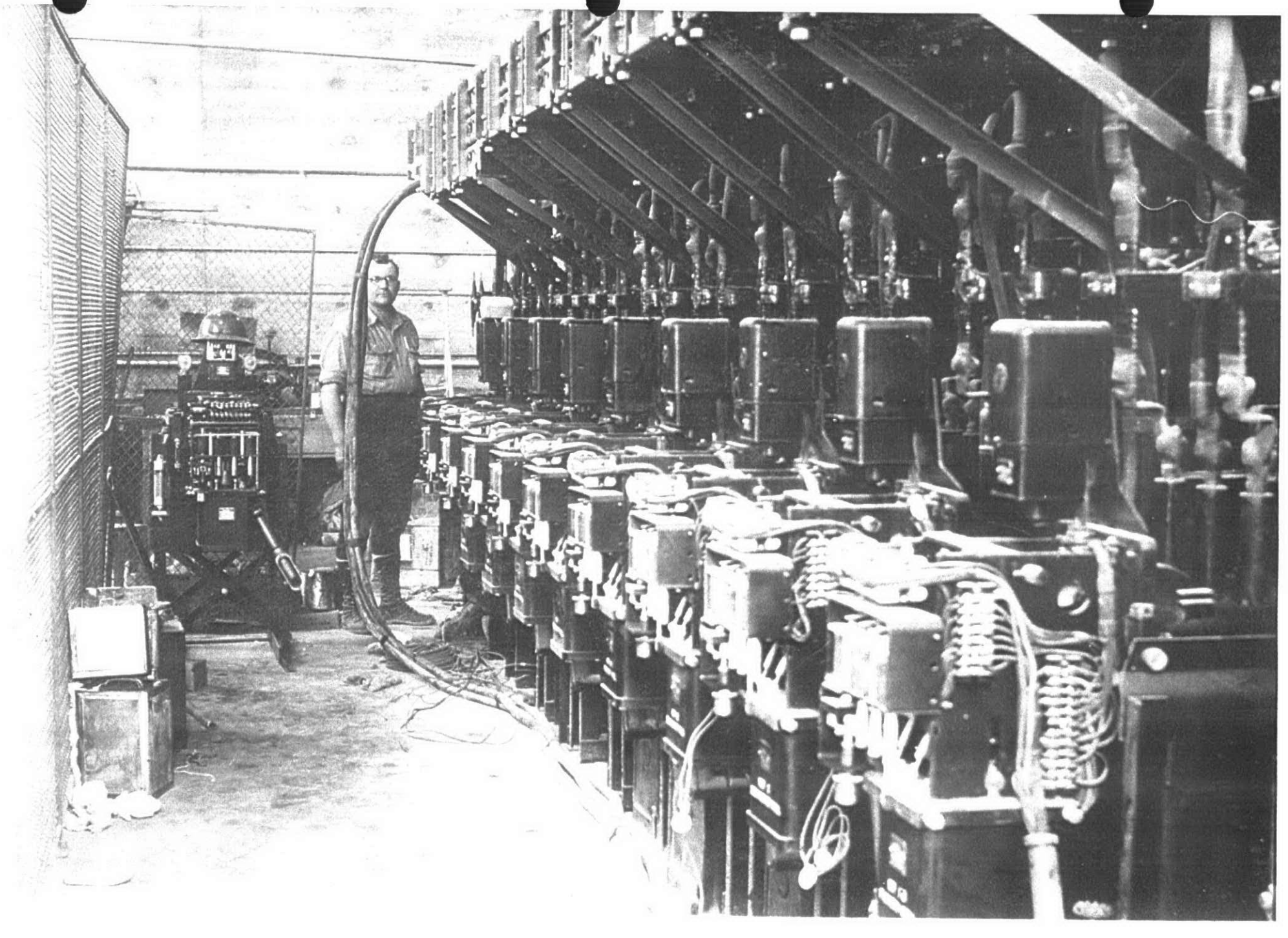
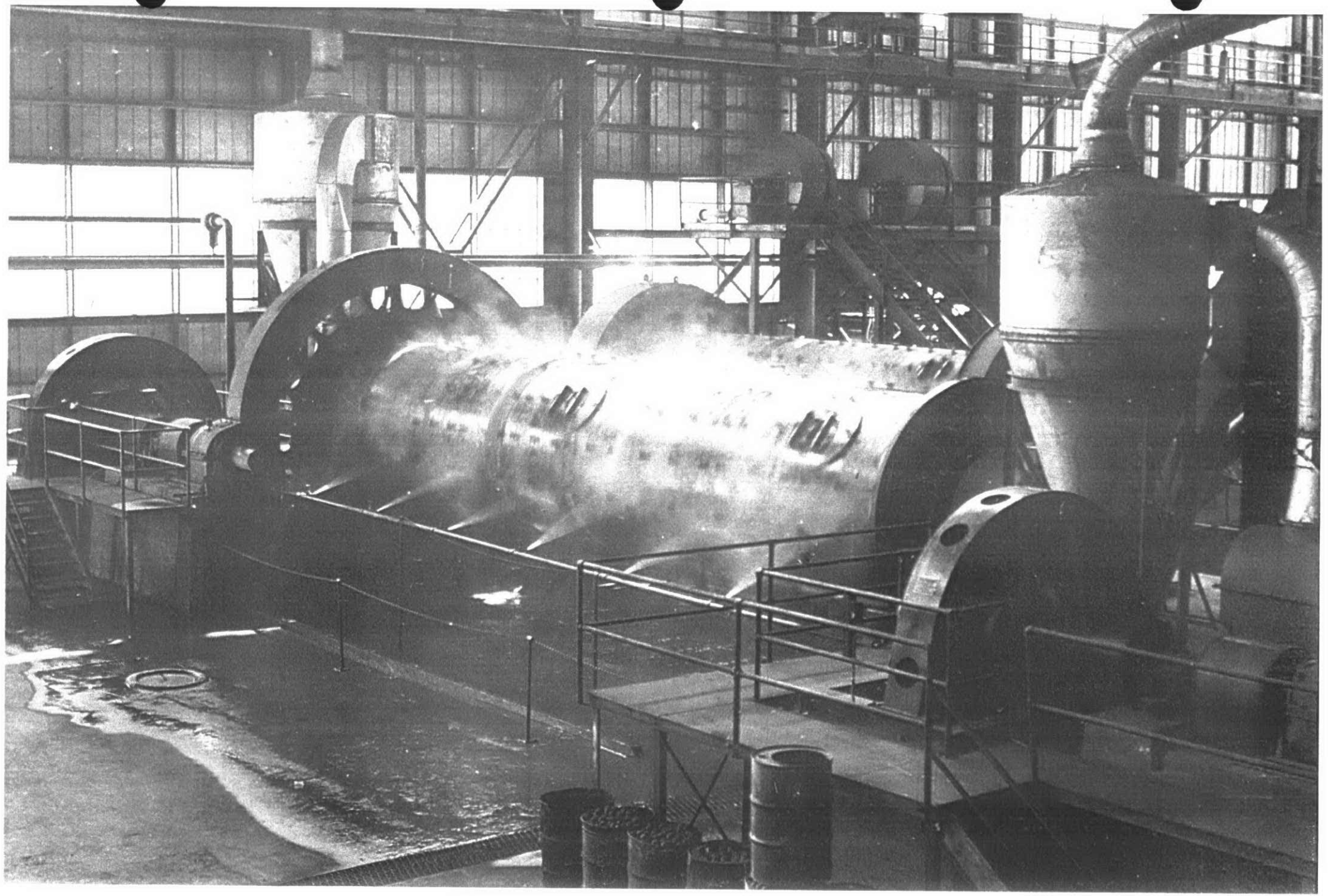
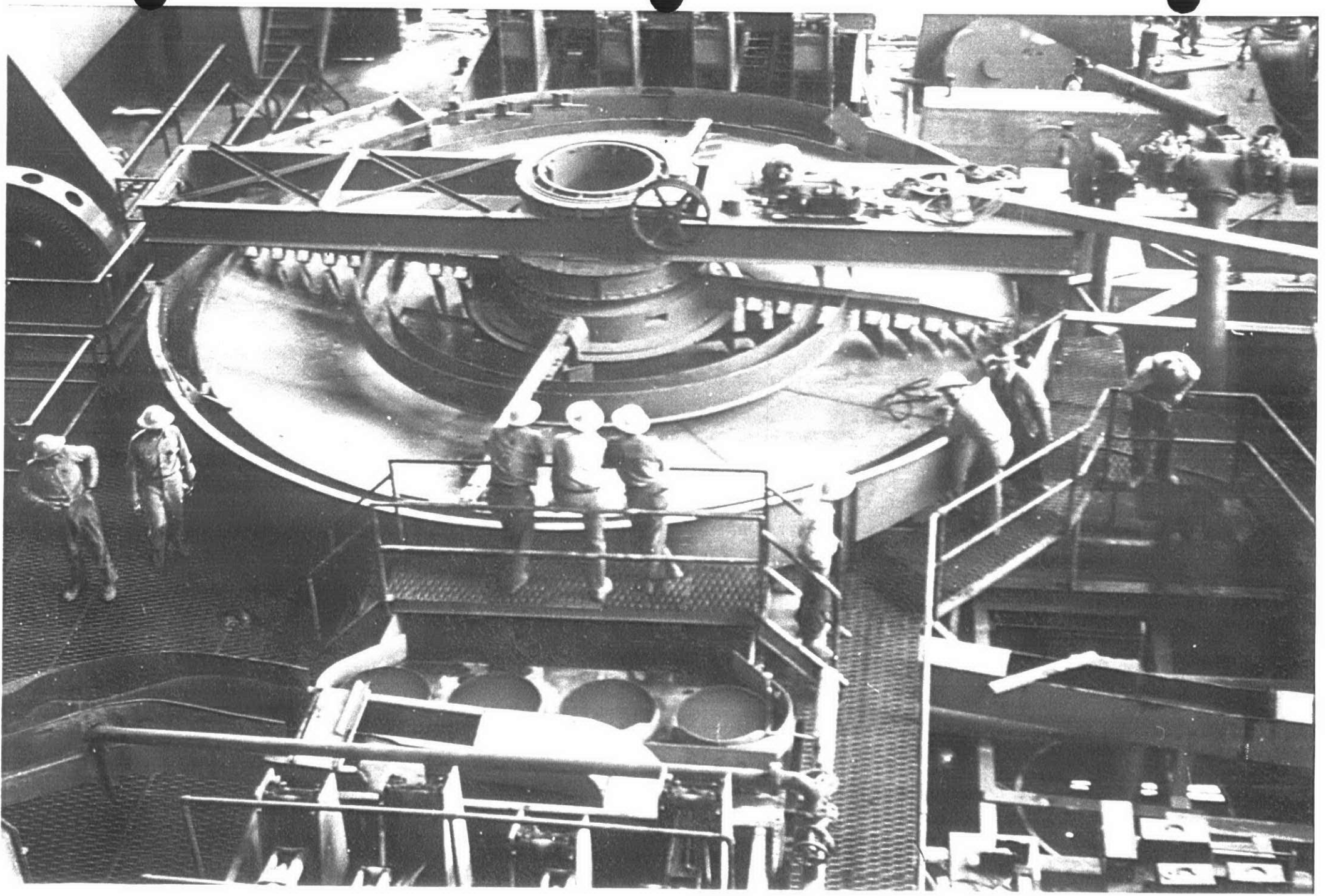
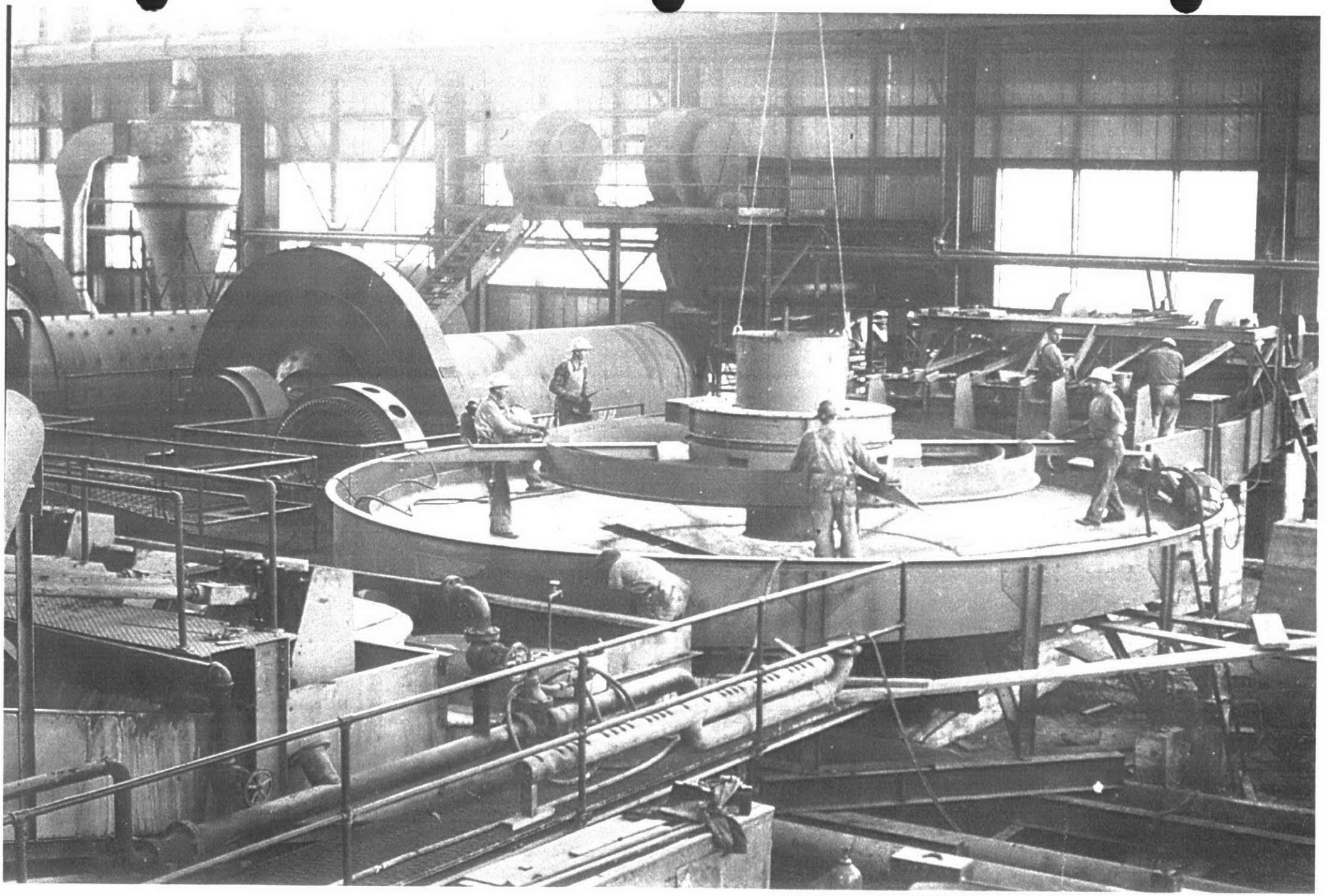
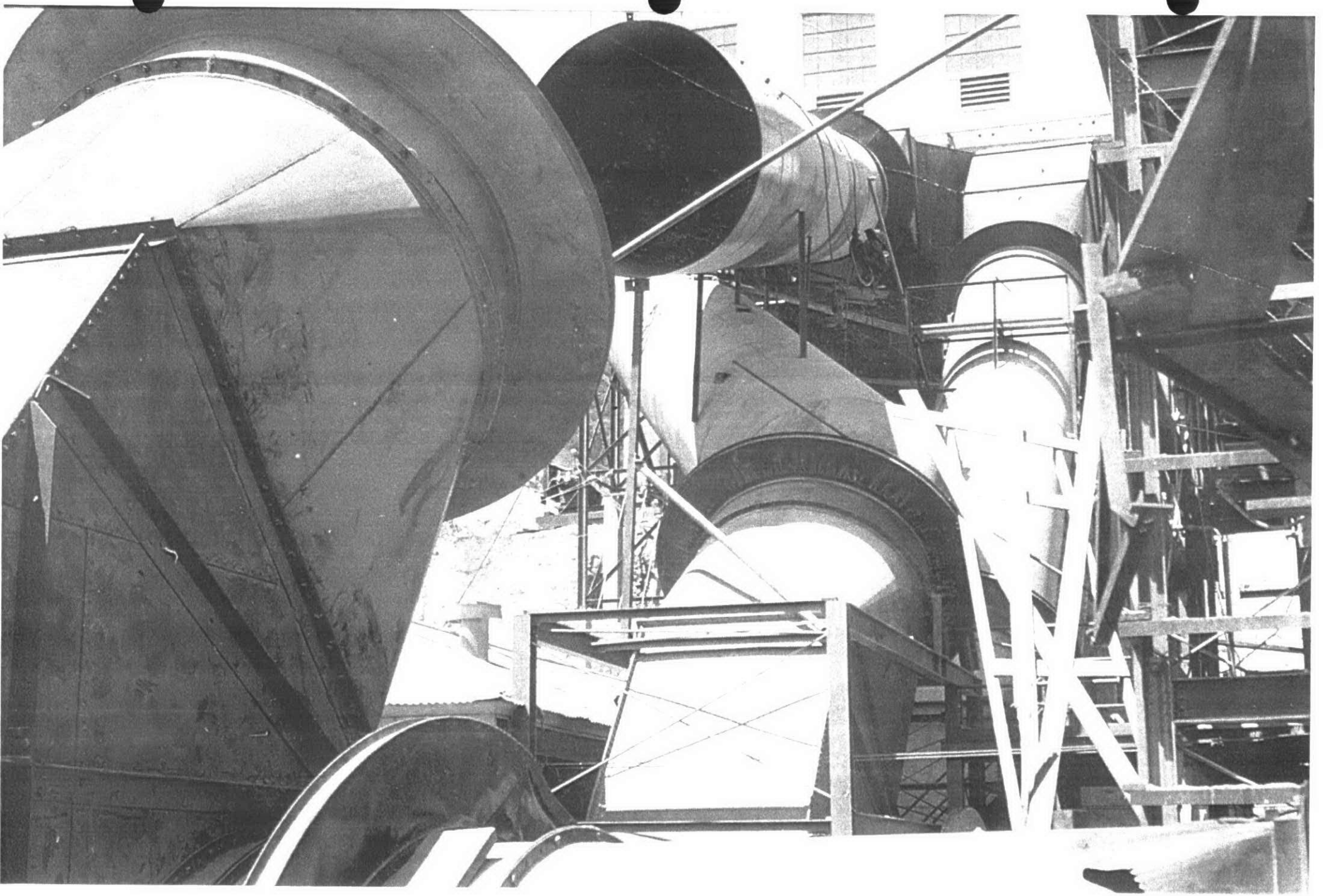




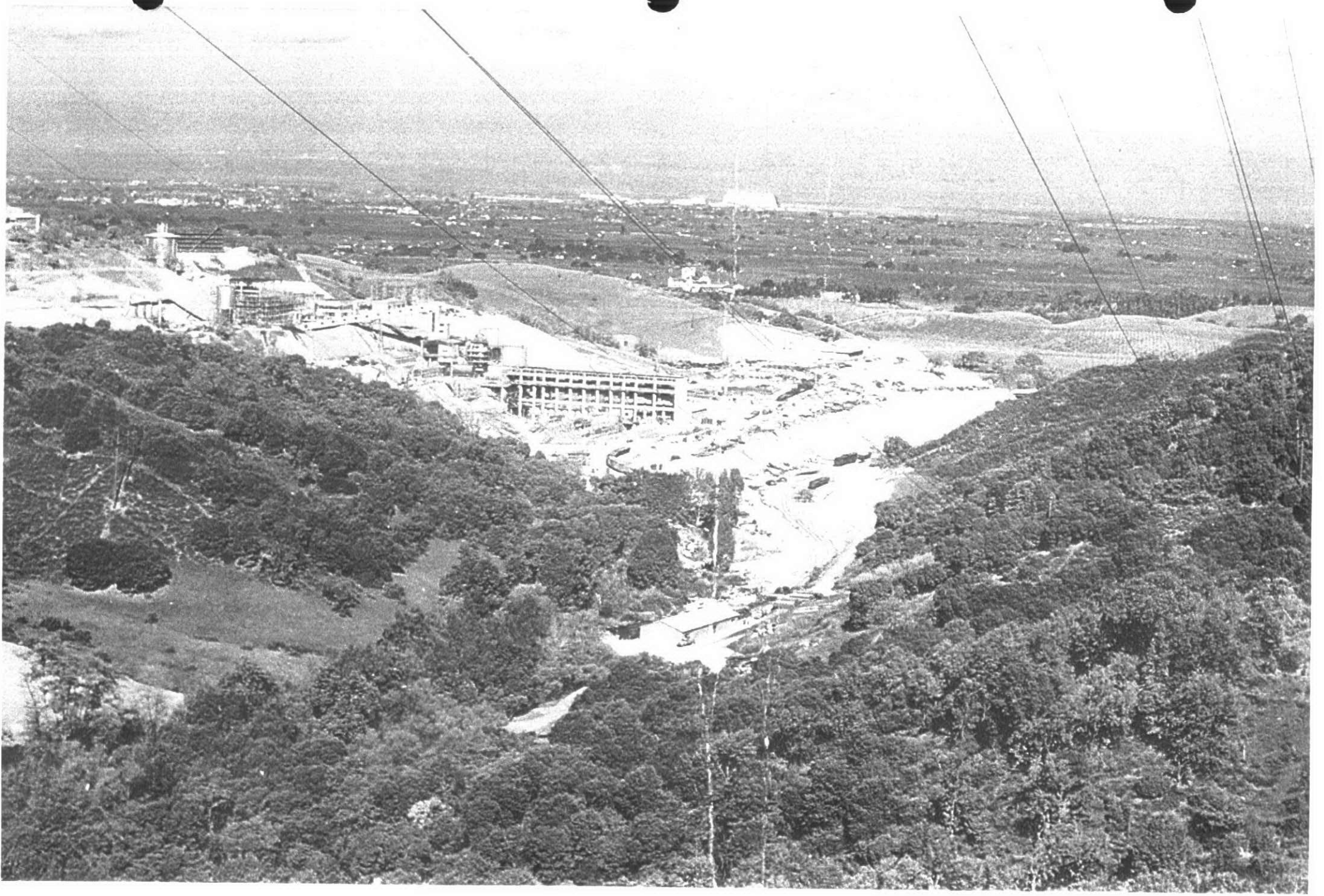


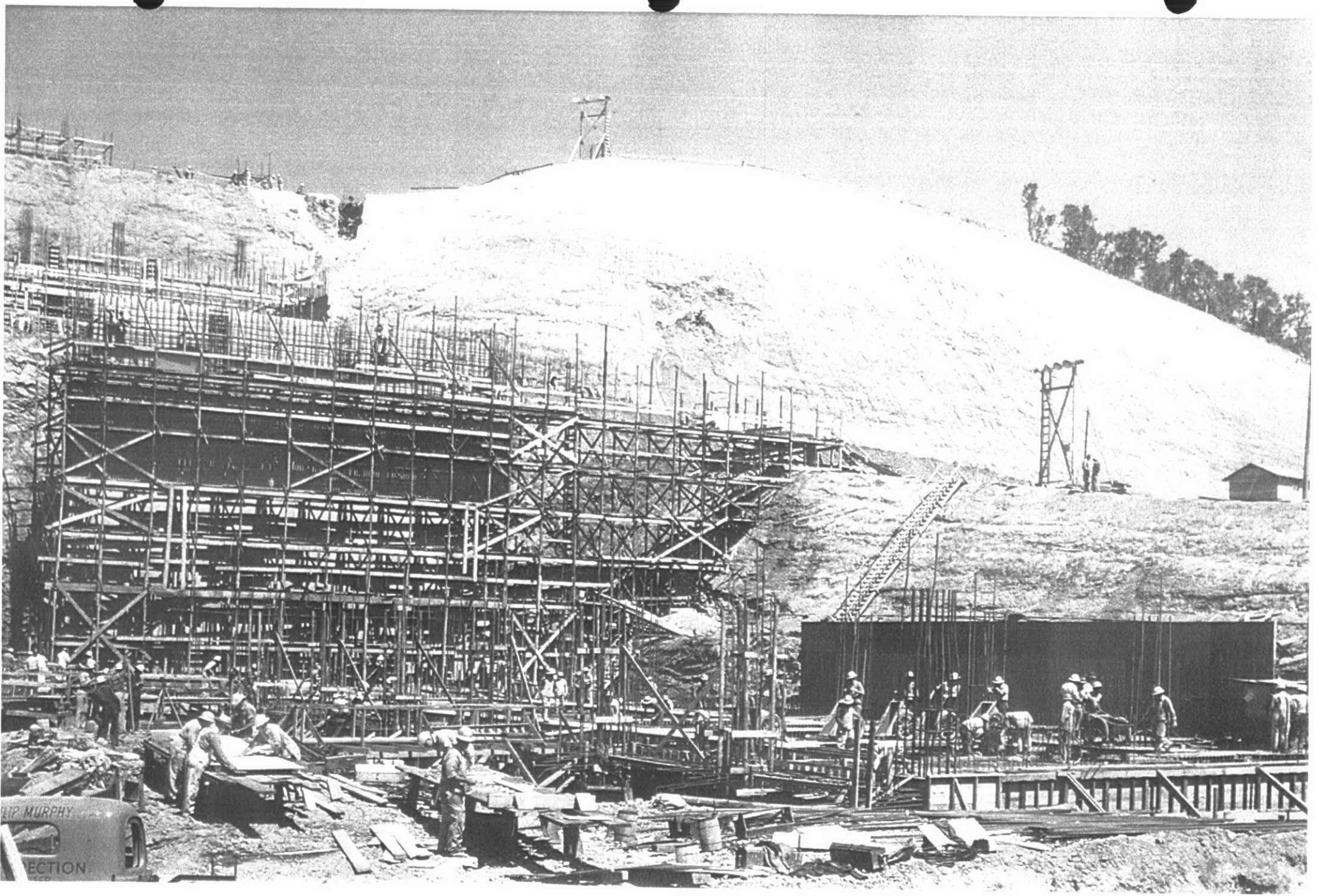




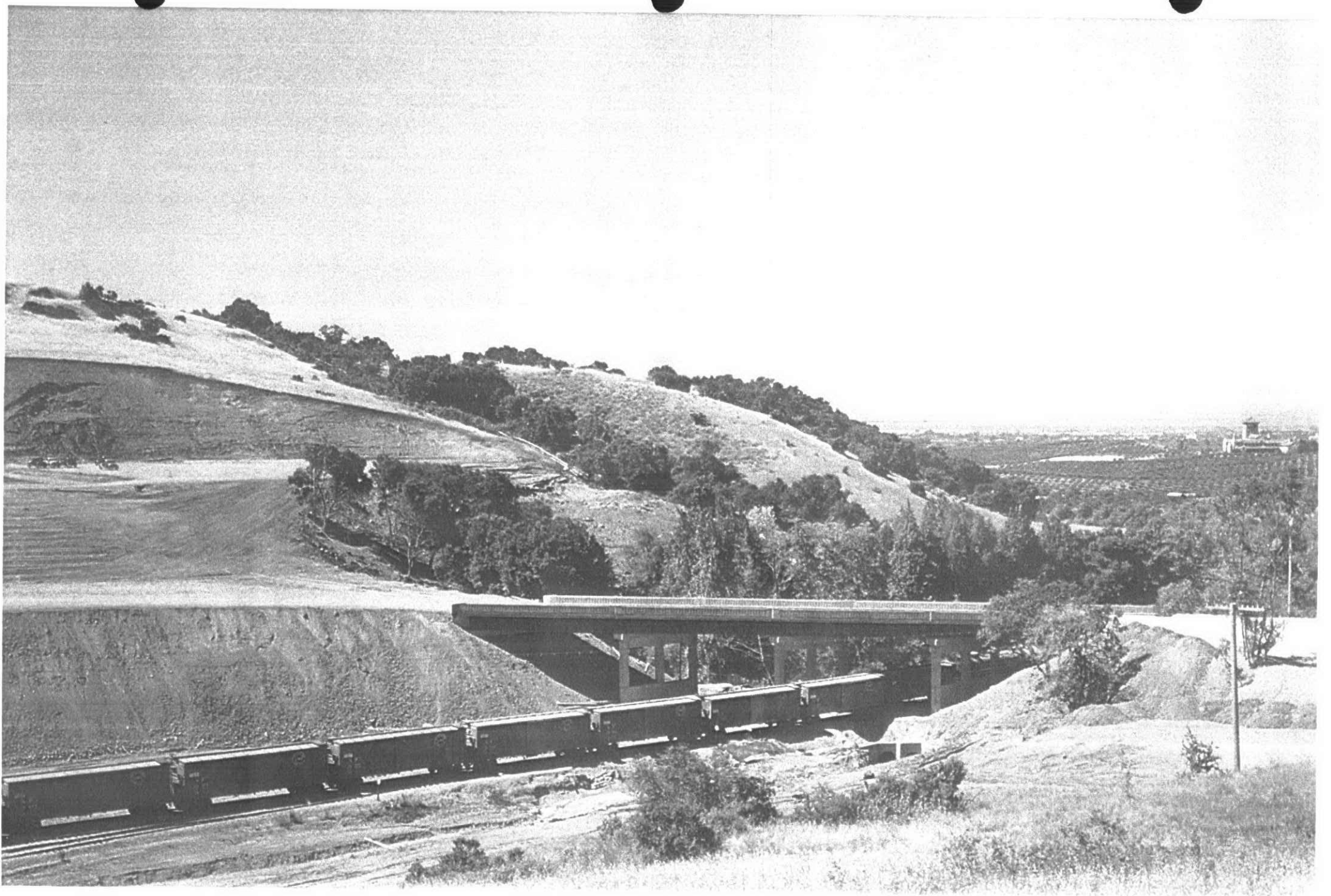


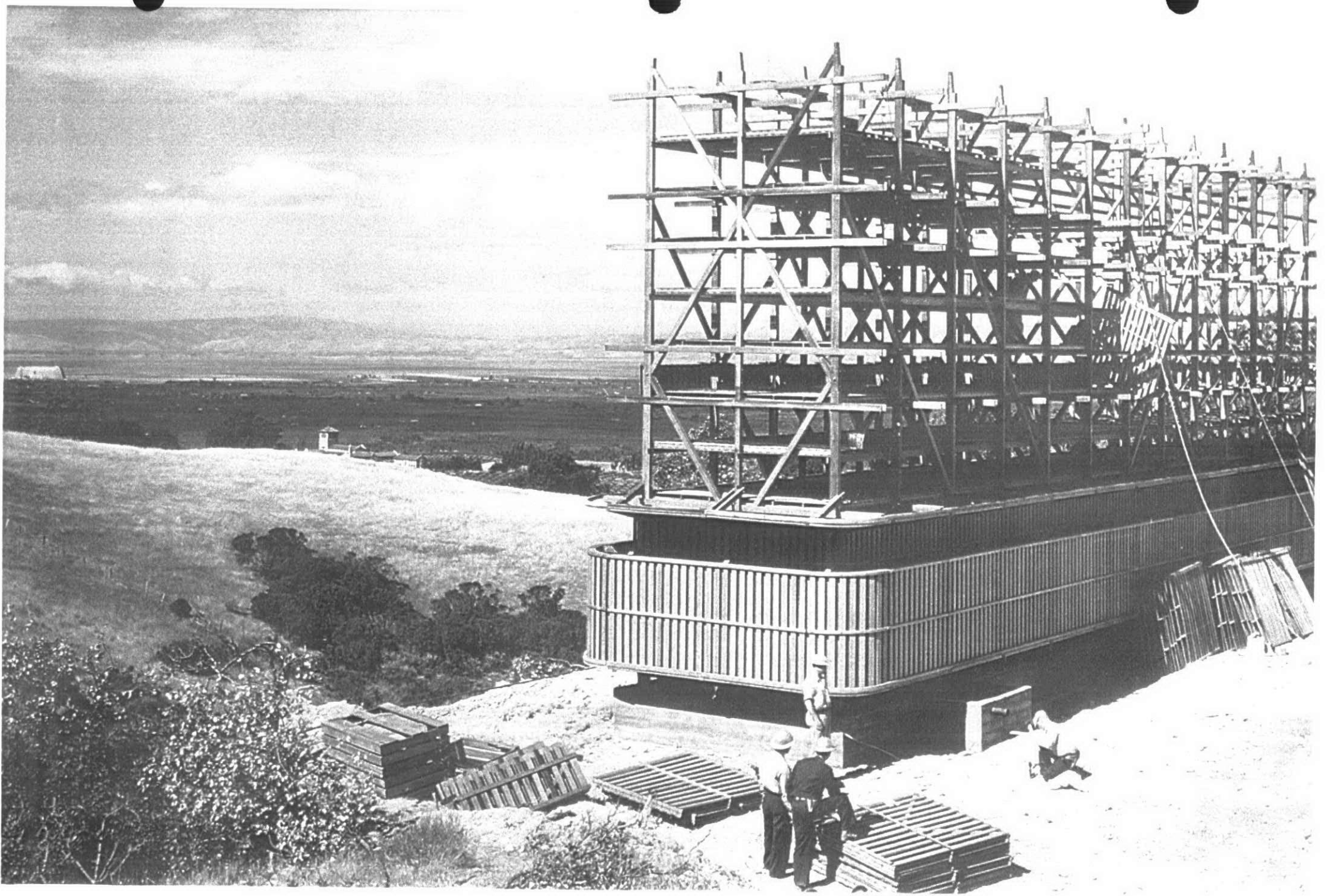
PERMANENTE
PERMANENTE



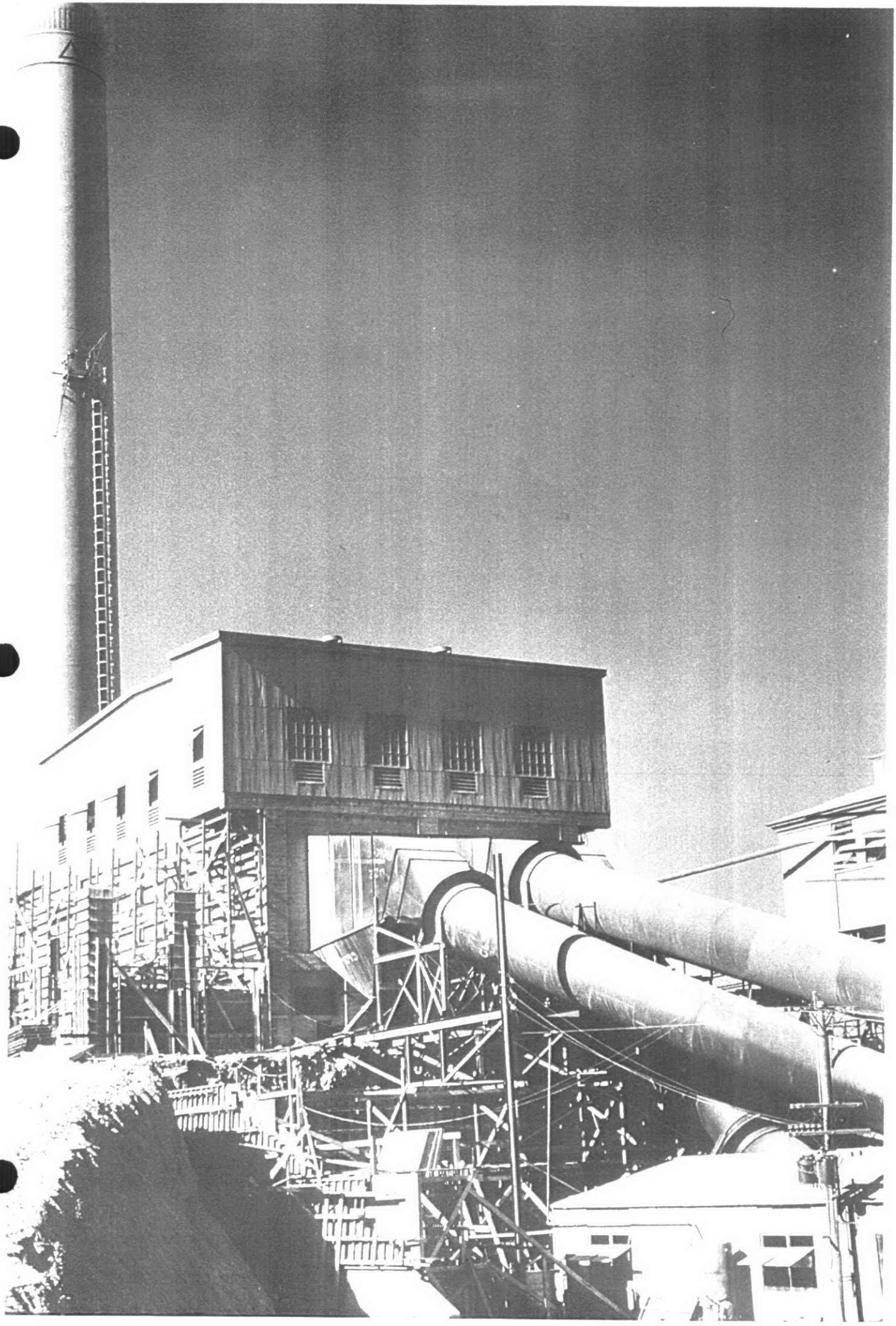

LIP MURPHY
ECTION

COMPANY
UNION OIL
COMPANY
UNION OIL
COMPANY





CAUTION
LOOKOUT
FOR TRAIN

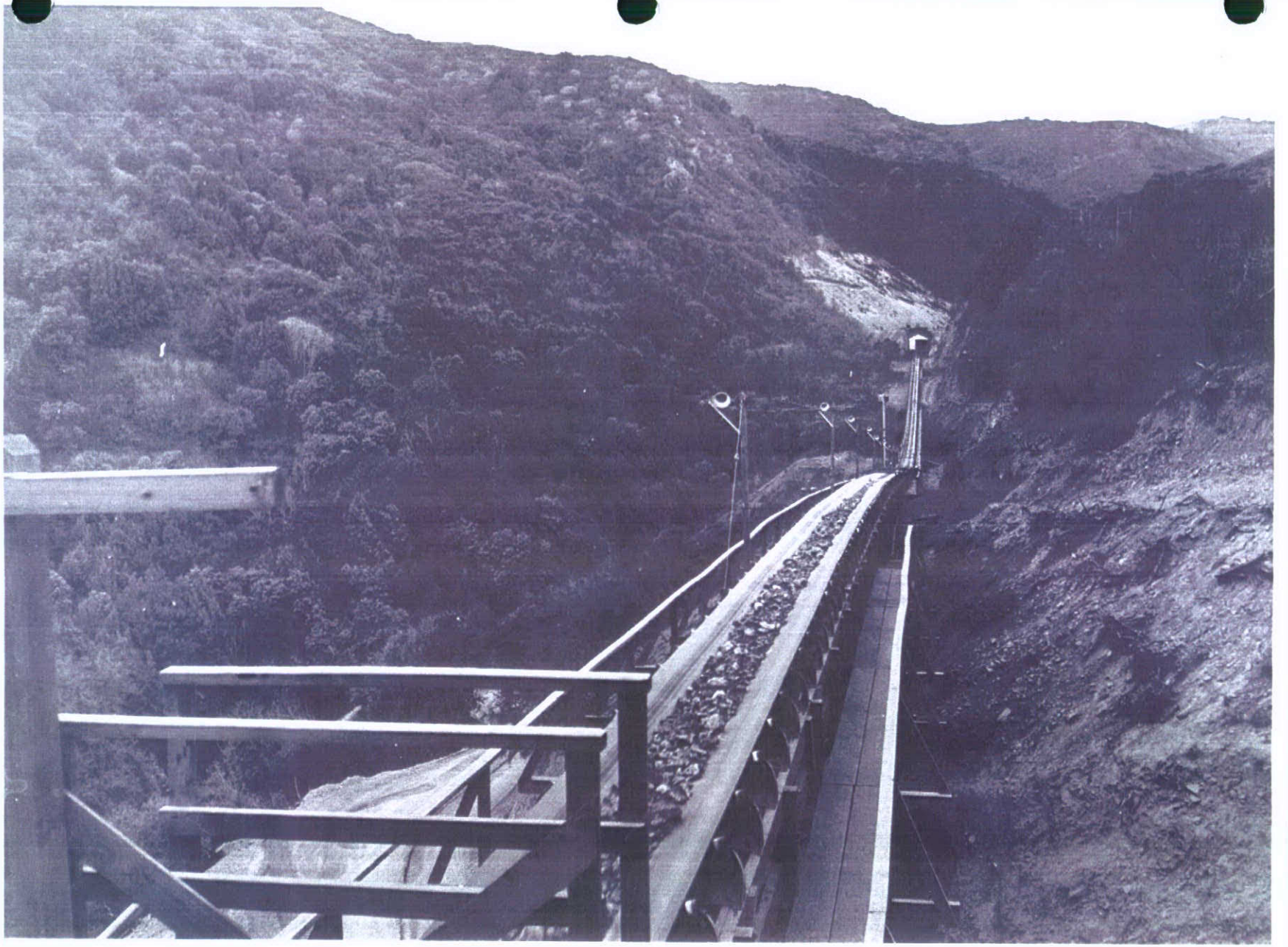


THE
PERMANENTE
CORPORATION

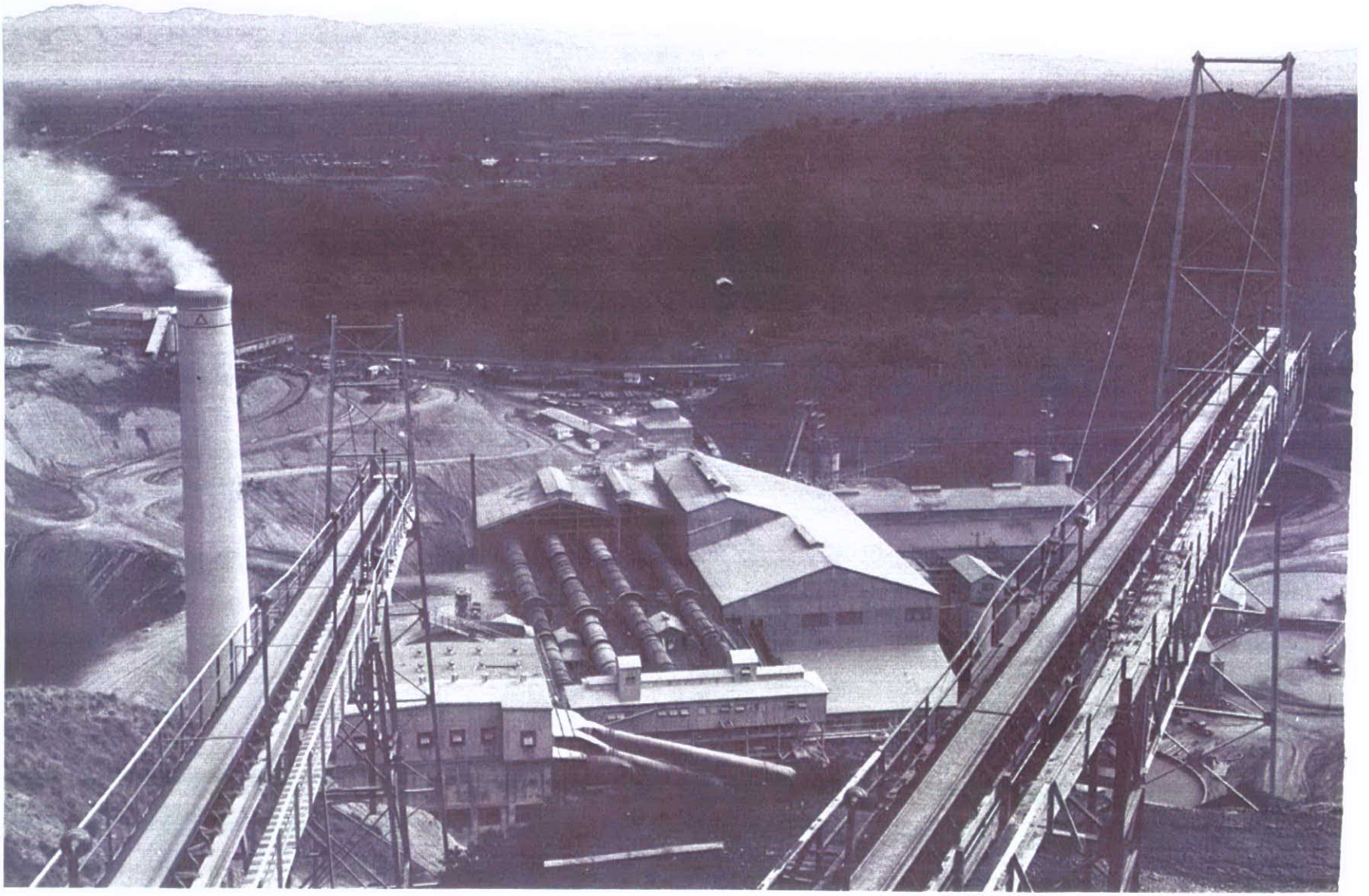
GENERAL AERIAL VIEW OF PERMANENTE

GENERAL VIEW AND ENTRANCE TO
THE PERMANENTE METALS CORPORATION

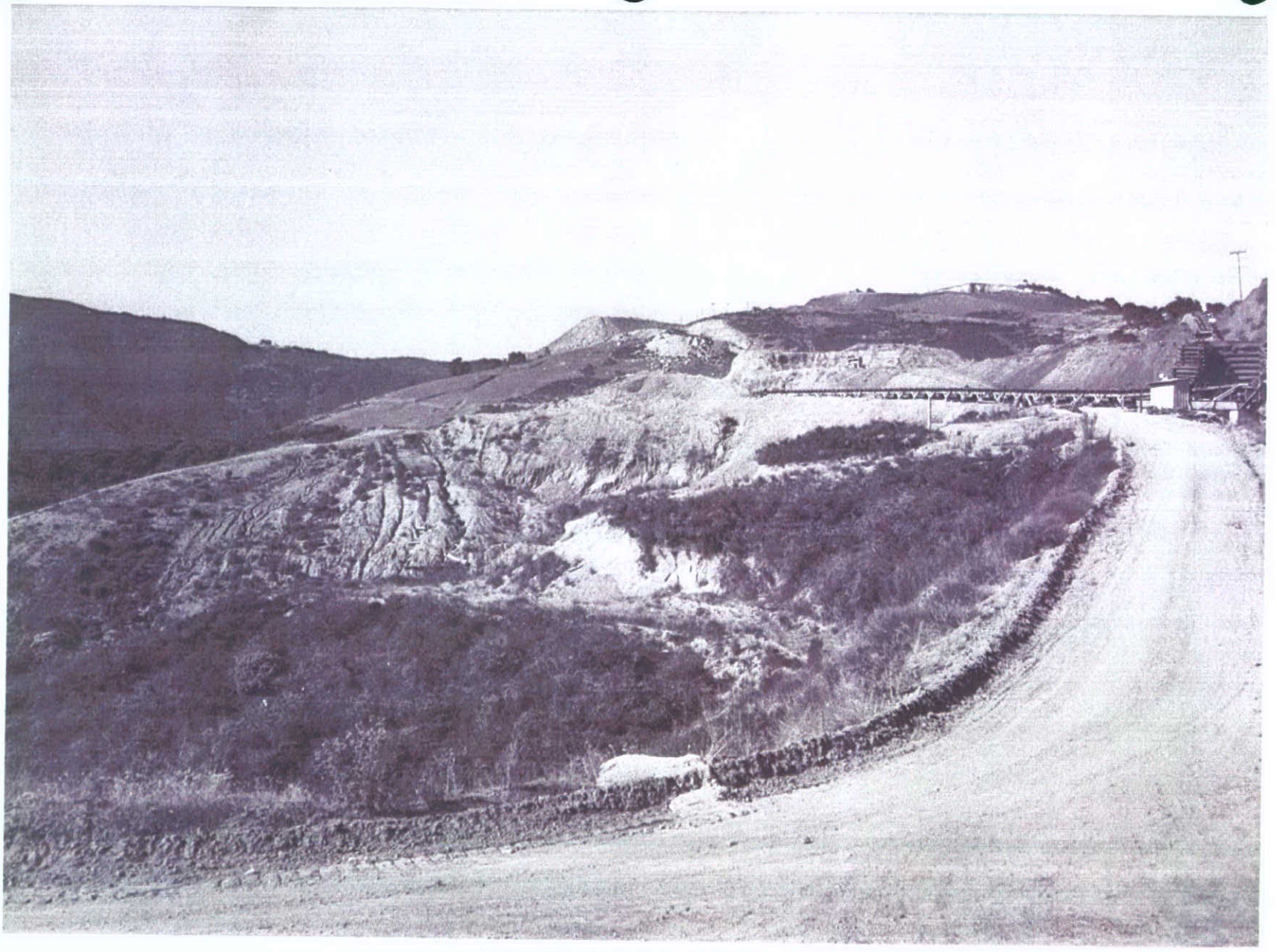
CONVEYOR BELT FROM LOWER QUARRY



CONVEYOR BELTLINE FROM LOWER QUARRY

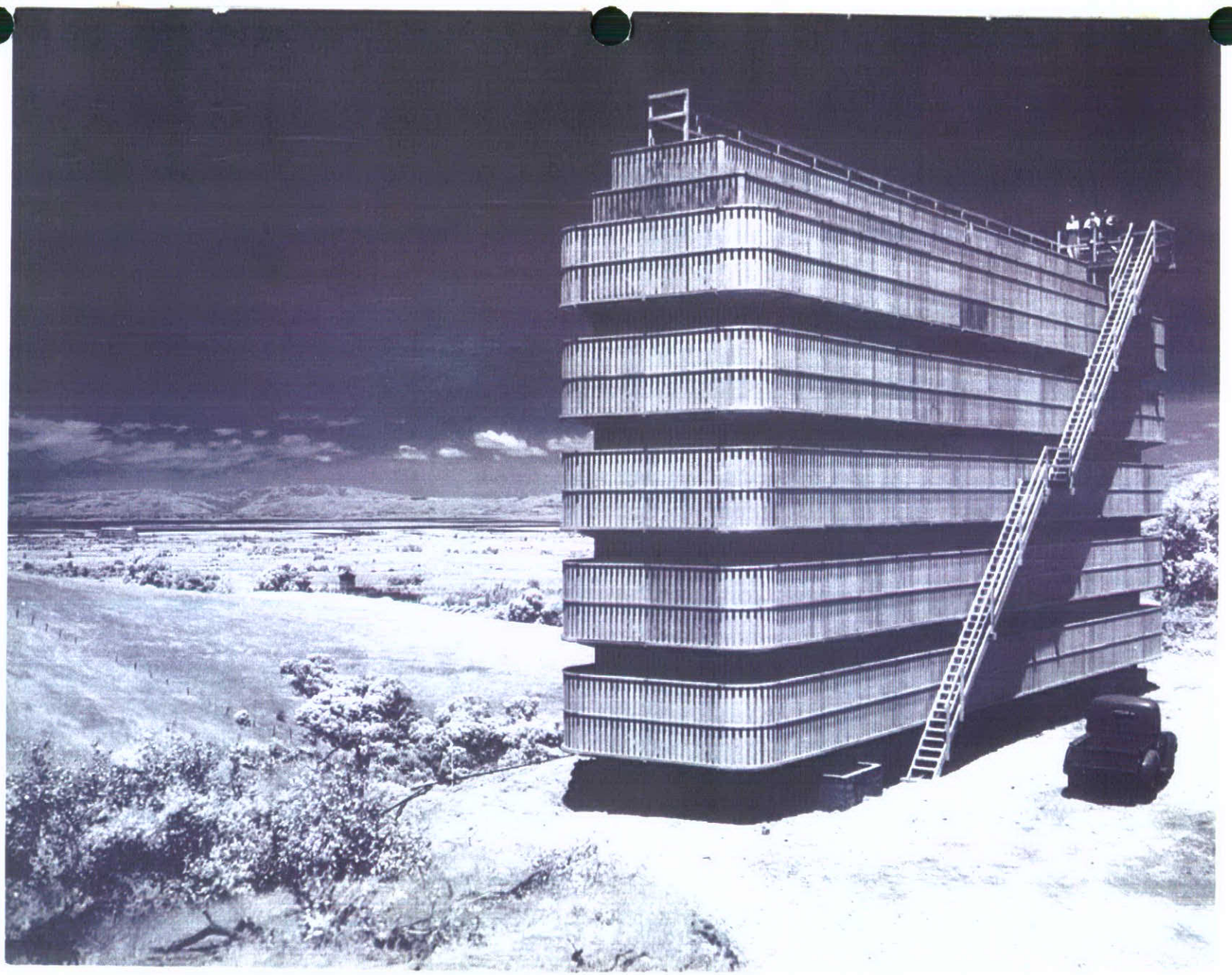


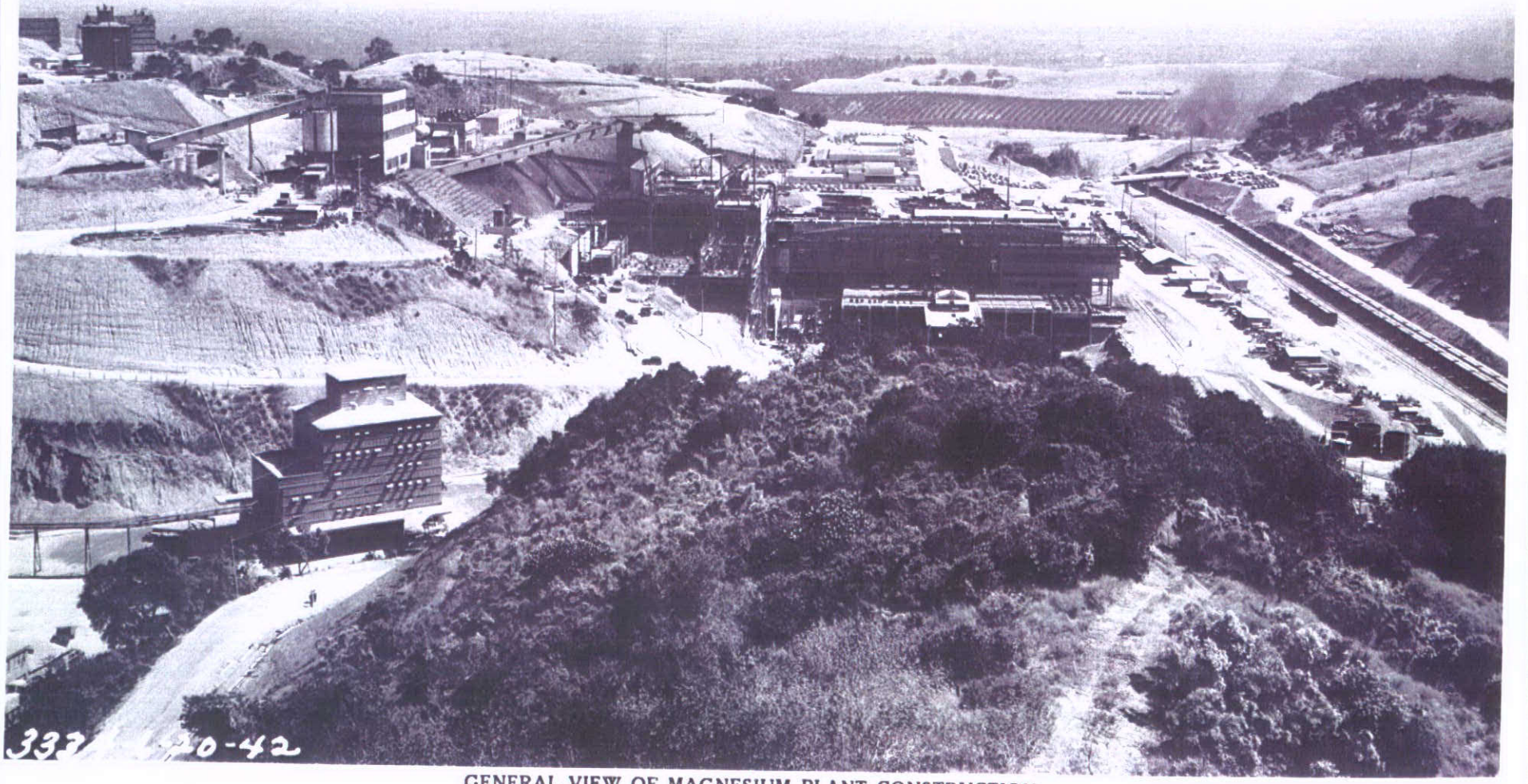
GENERAL VIEW FROM CONVEYOR BOOM



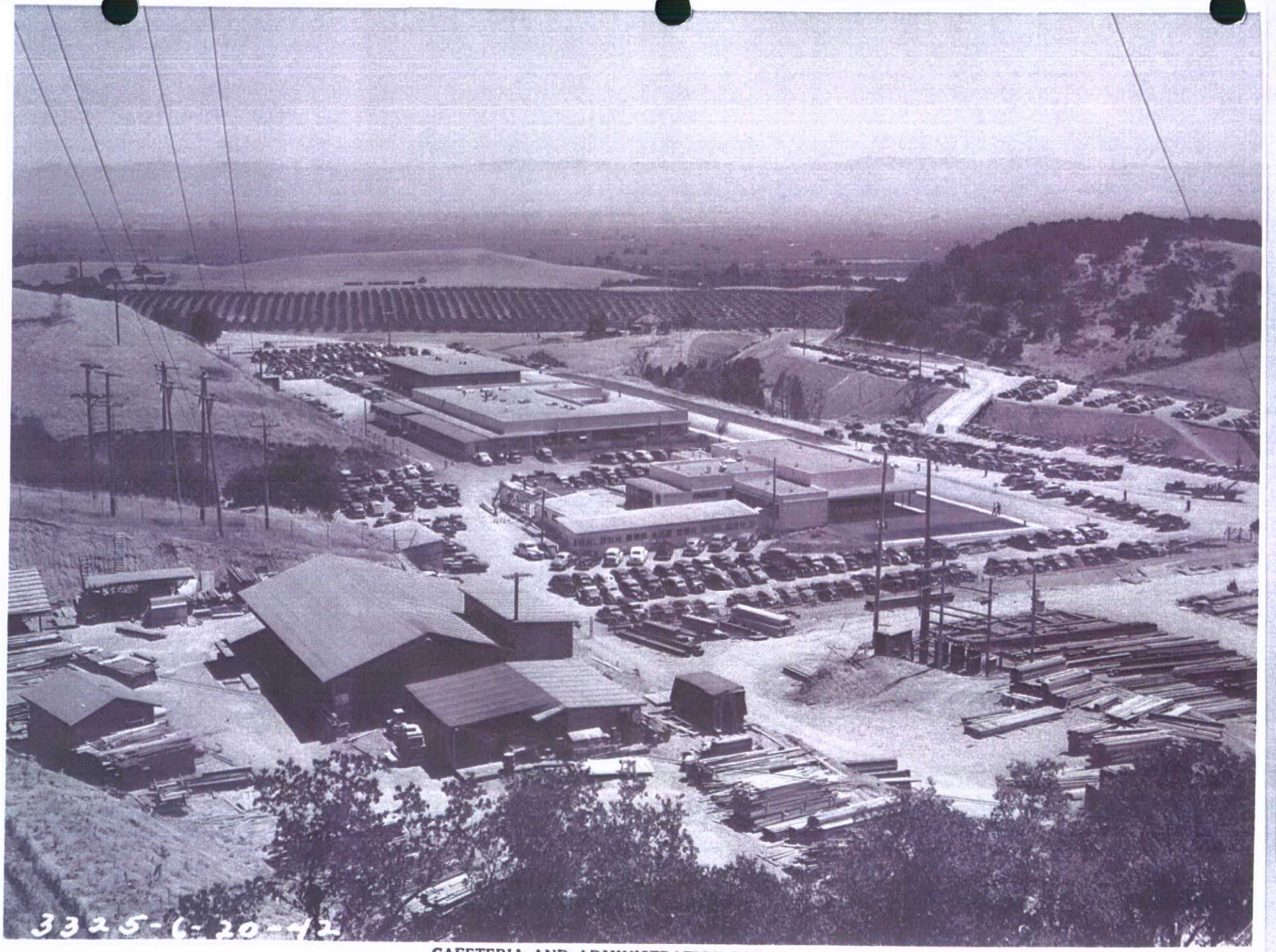
CLAY QUARRY AND CONVEYOR

GENERAL VIEW OF UPPER QUARRY

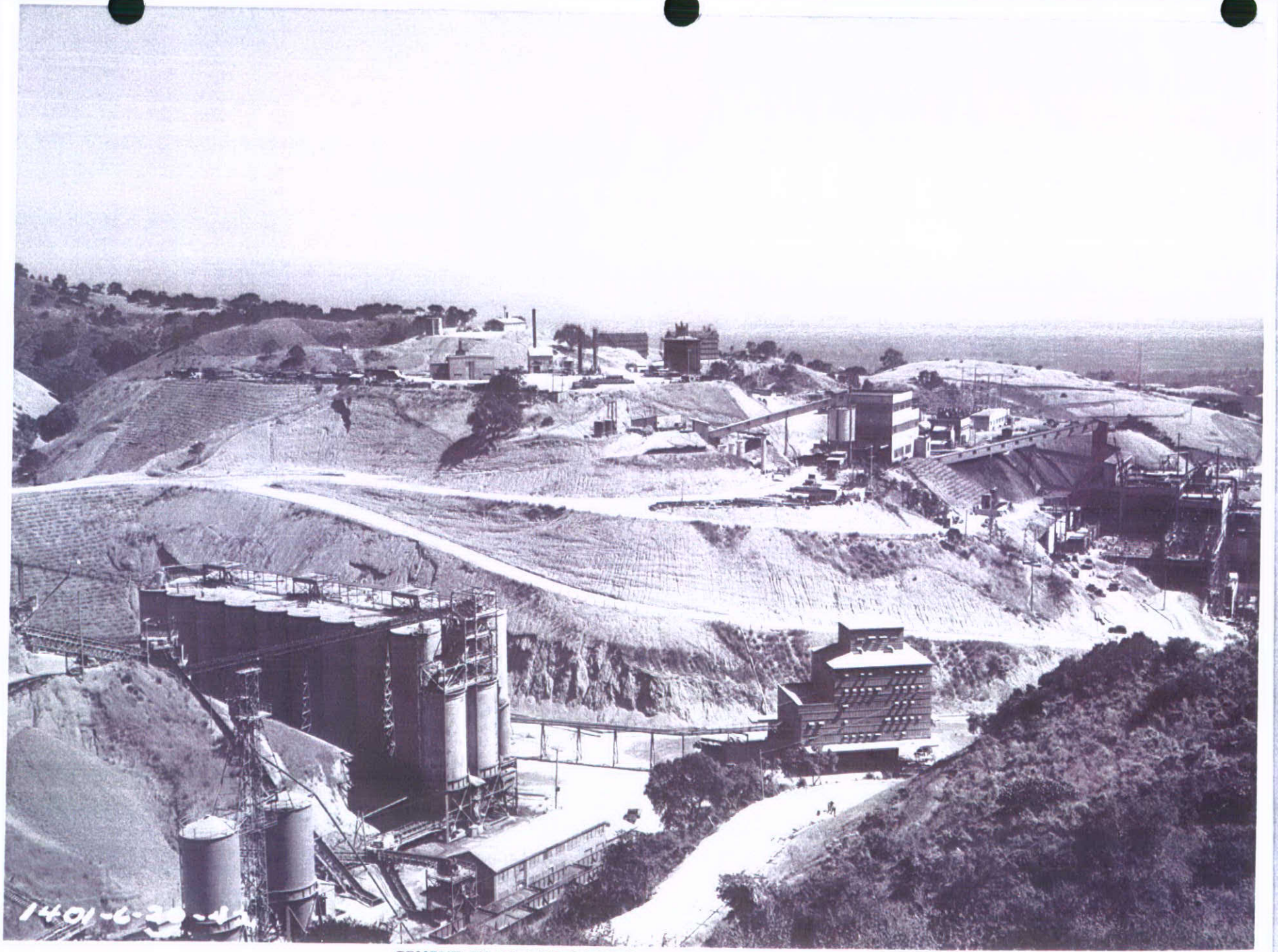




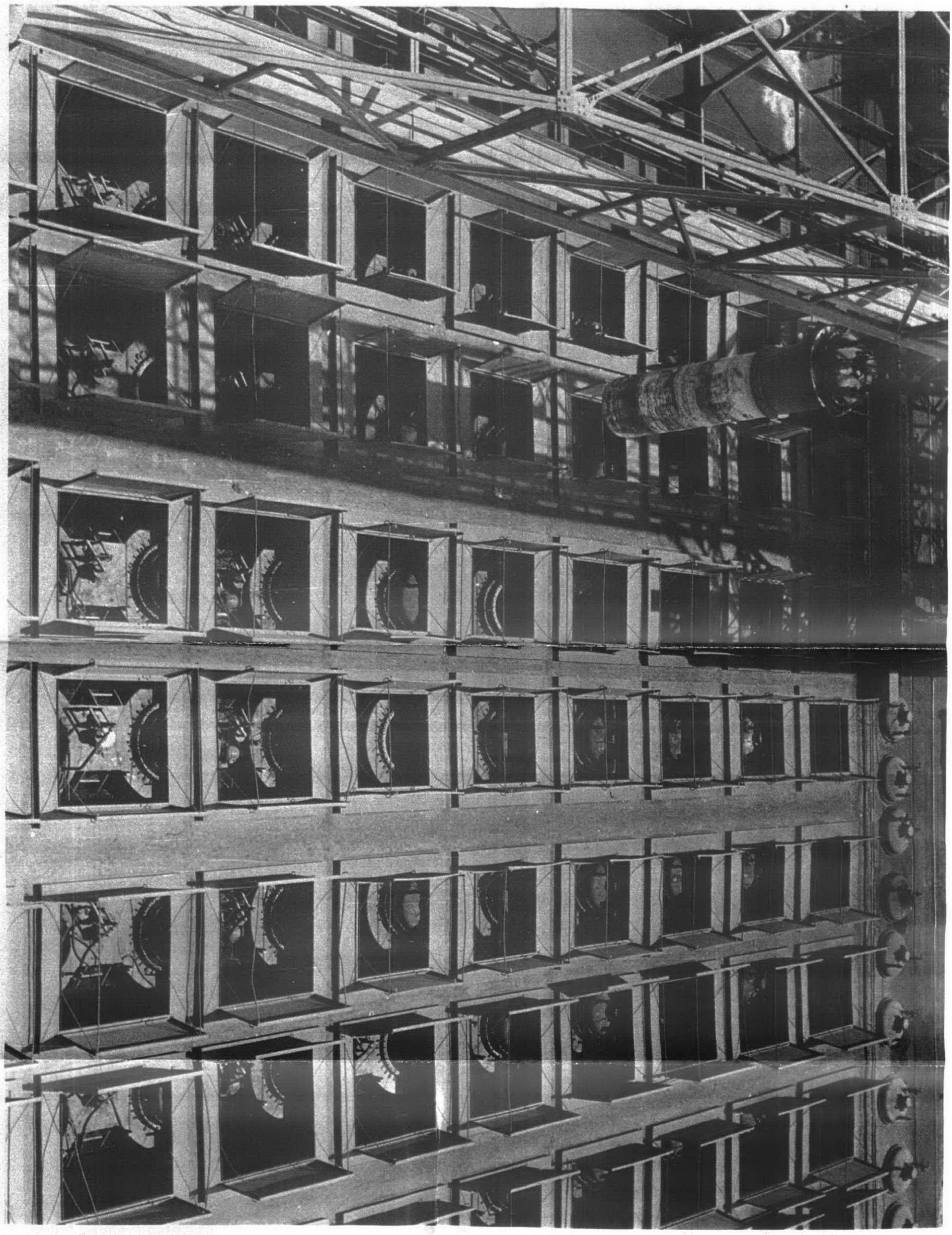
GENERAL VIEW OF MAGNESIUM PLANT CONSTRUCTION
LOOKING NORTH

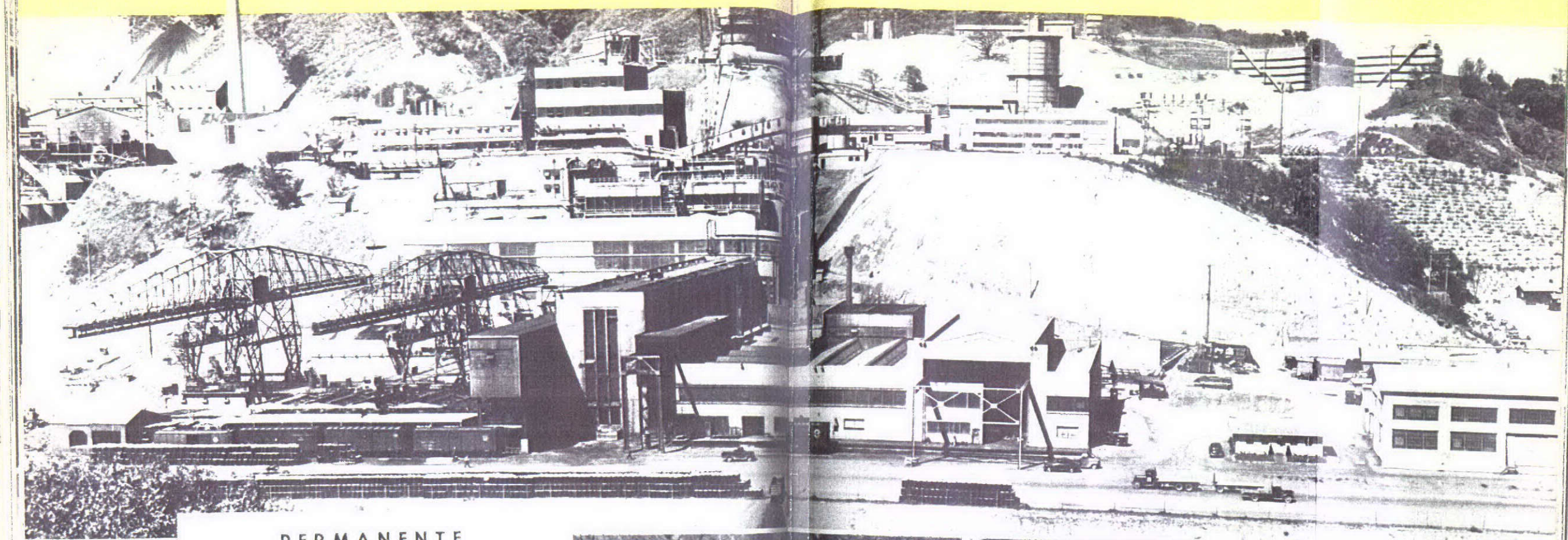


CAFETERIA AND ADMINISTRATION BLDGS.,
PERMANENTE METALS LABORATORY, ALSO PARKING AREA



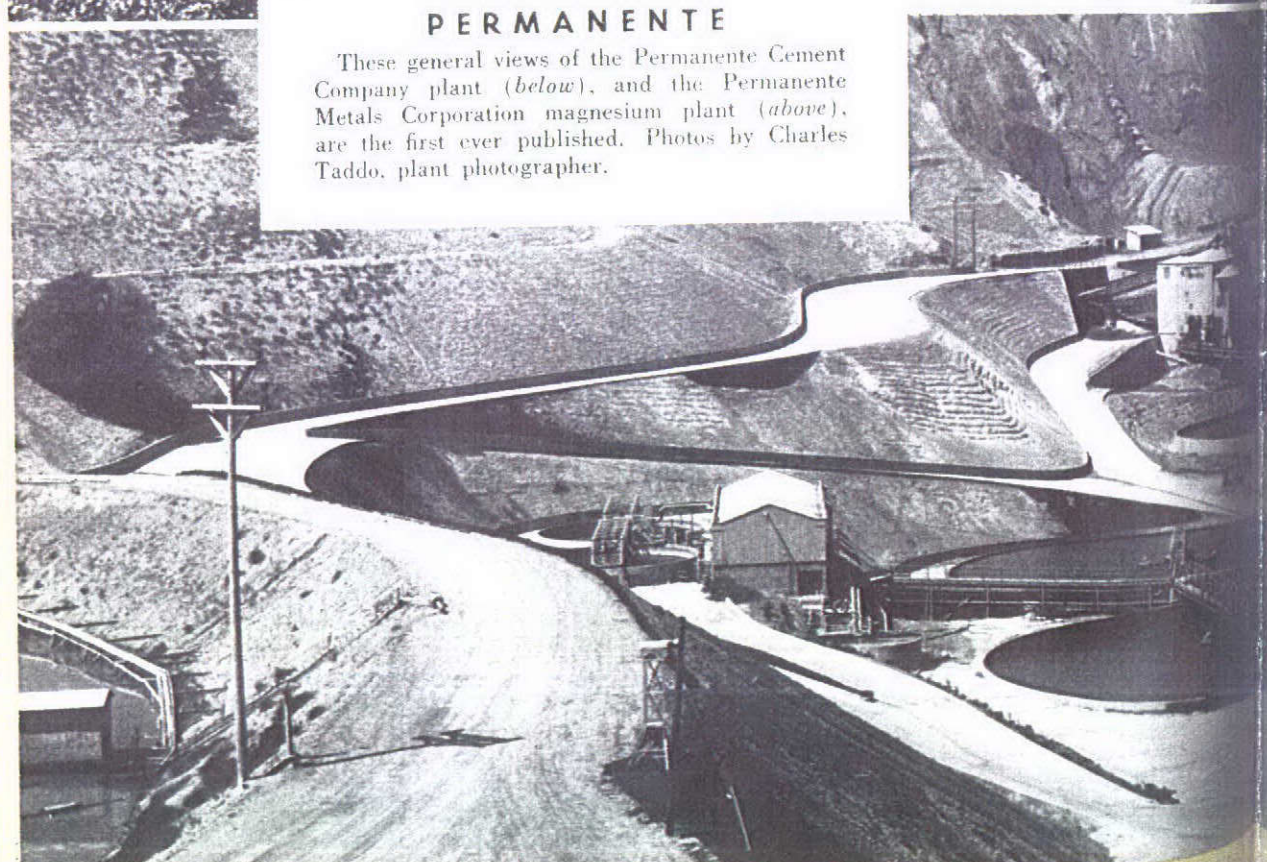
CEMENT SILOS AND PACK HOUSE IN FORE GROUND,
UPPER LEVELS OF MAGNESIUM PLANT IN BACKGROUND

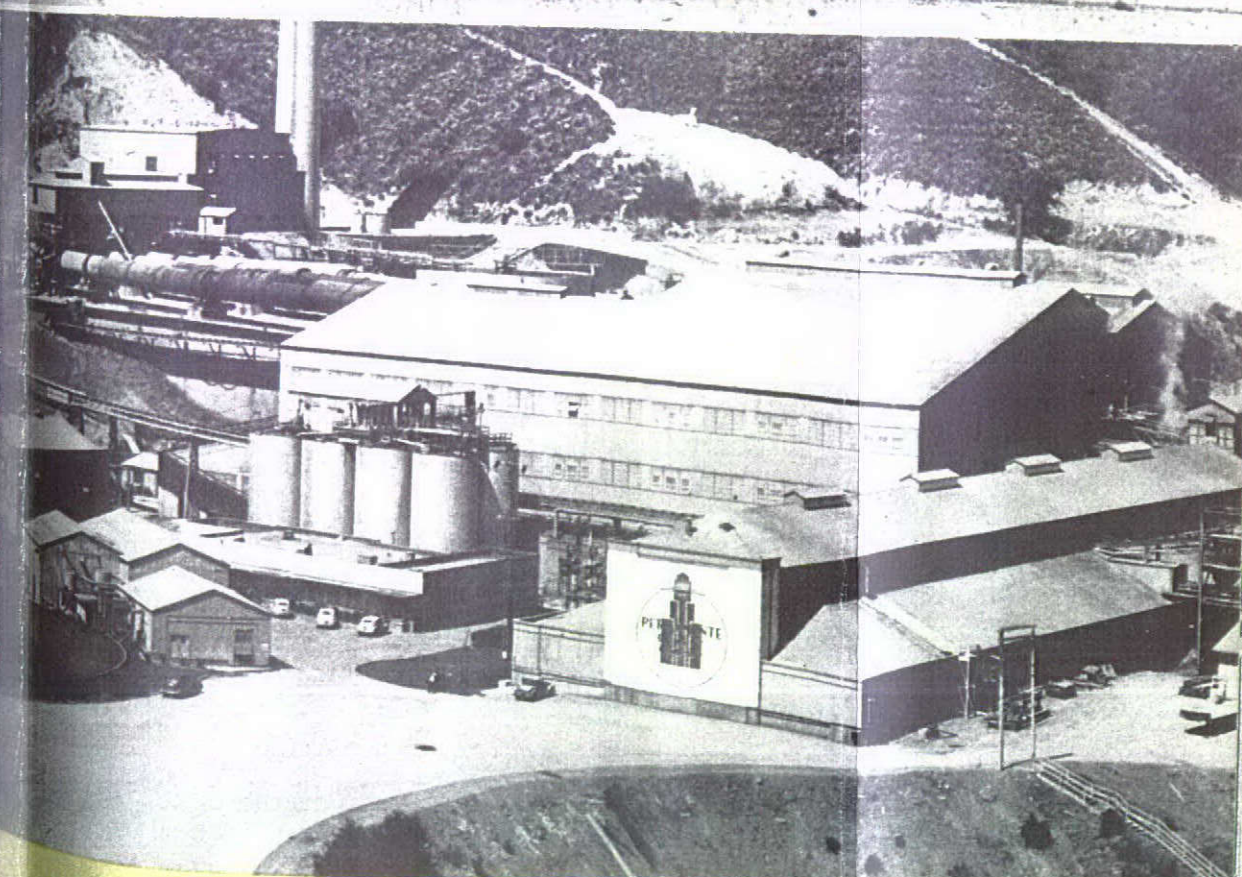


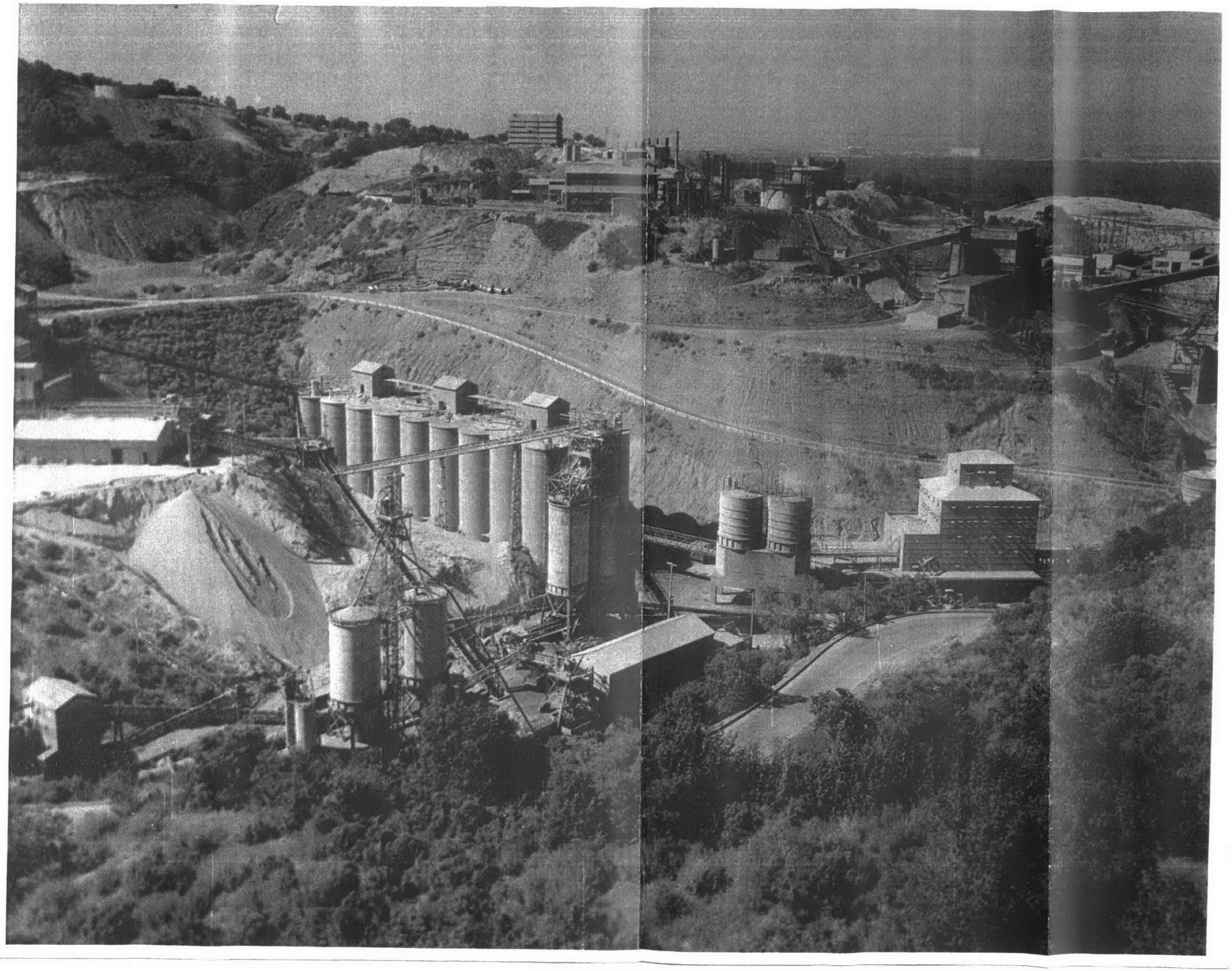


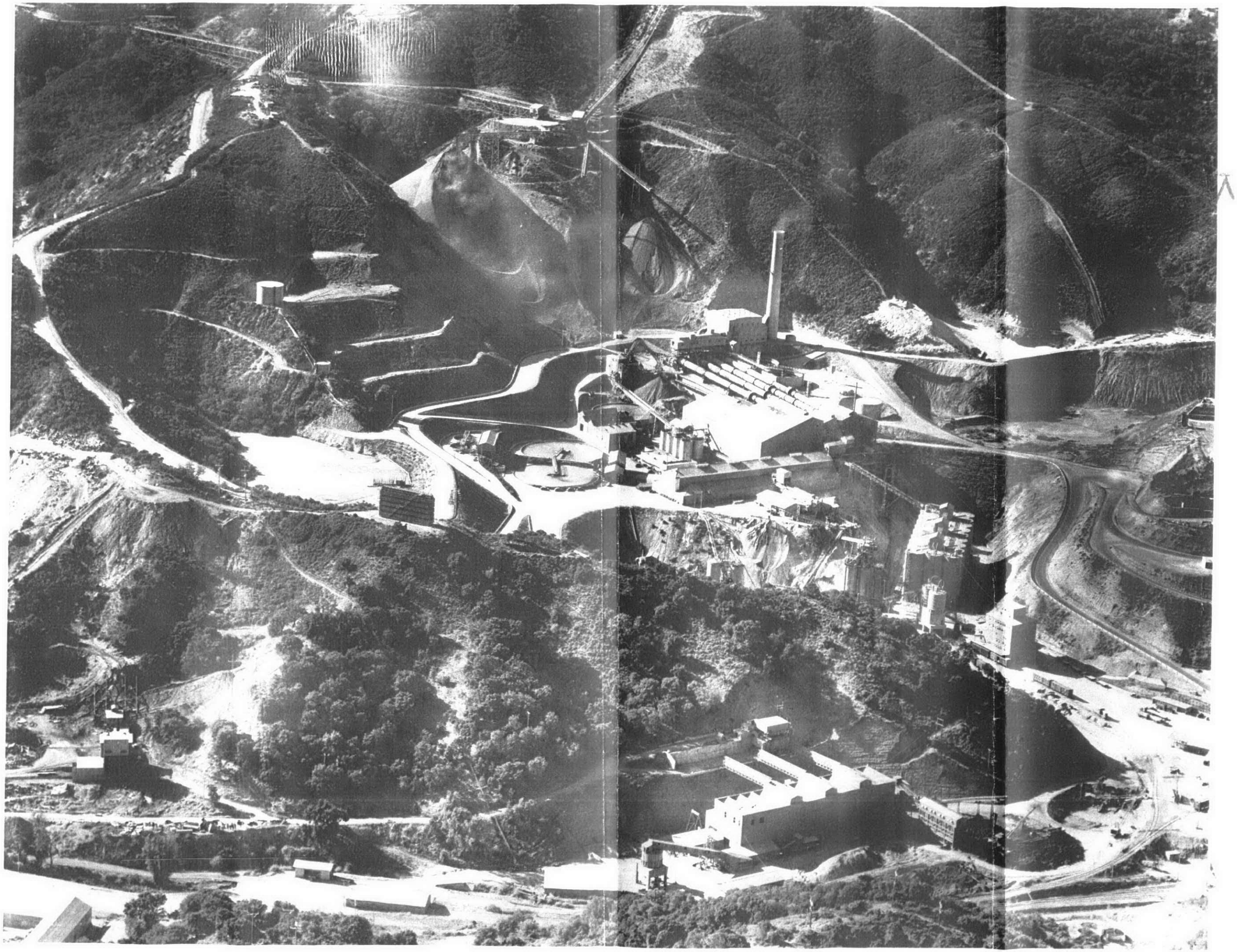
PERMANENTE

These general views of the Permanente Cement Company plant (*below*), and the Permanente Metals Corporation magnesium plant (*above*), are the first ever published. Photos by Charles Taddo, plant photographer.

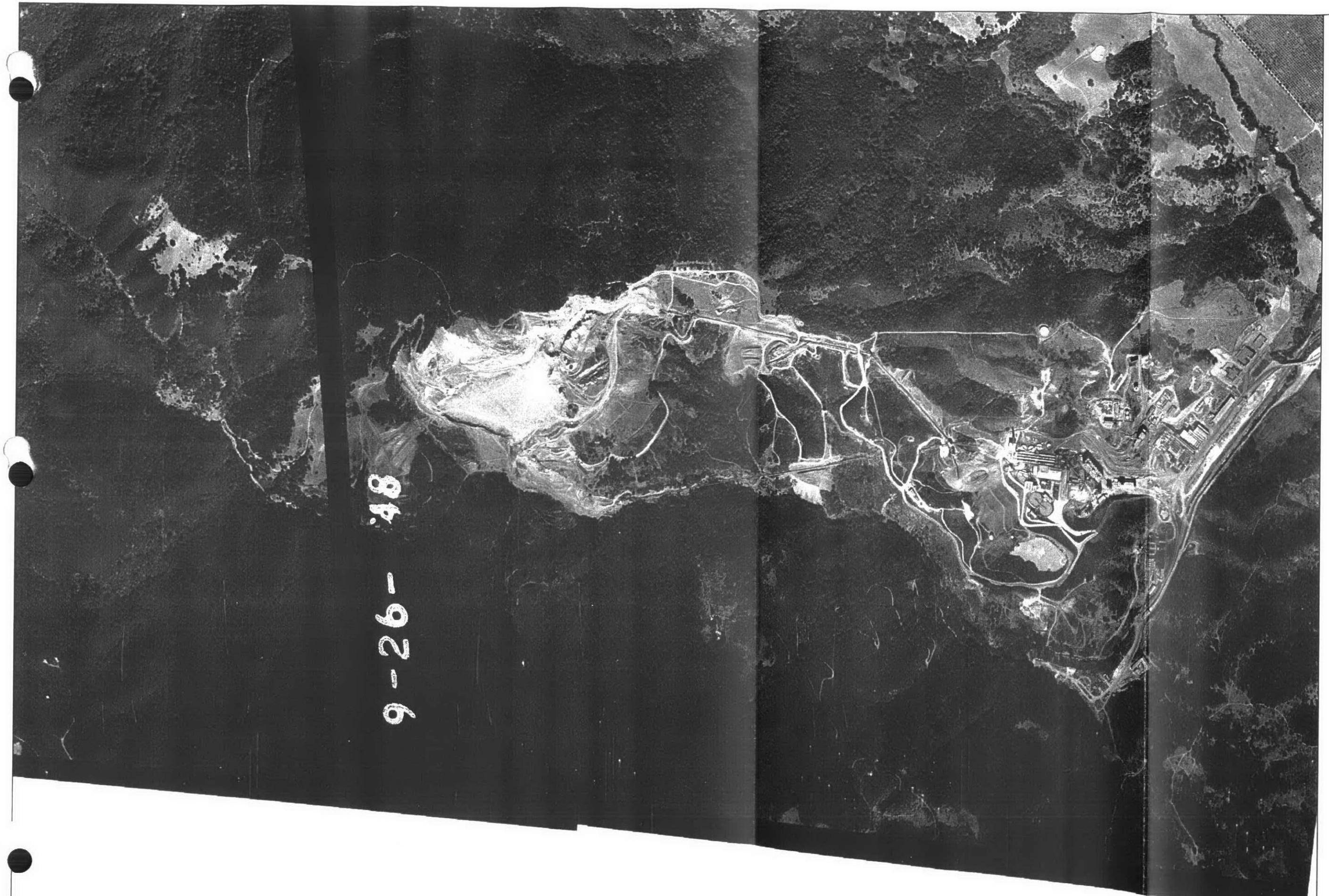








Permanente
1948 Aerial

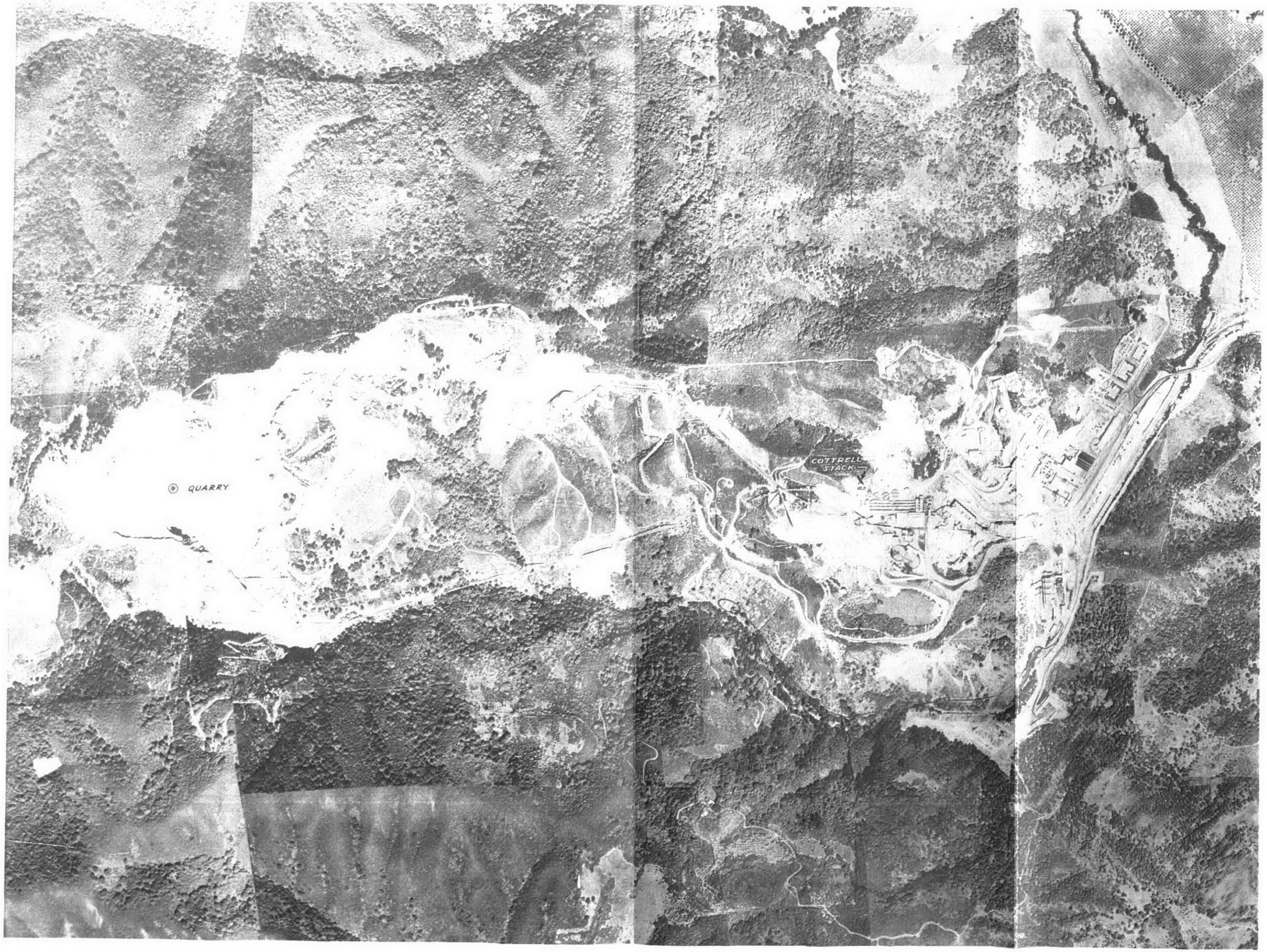


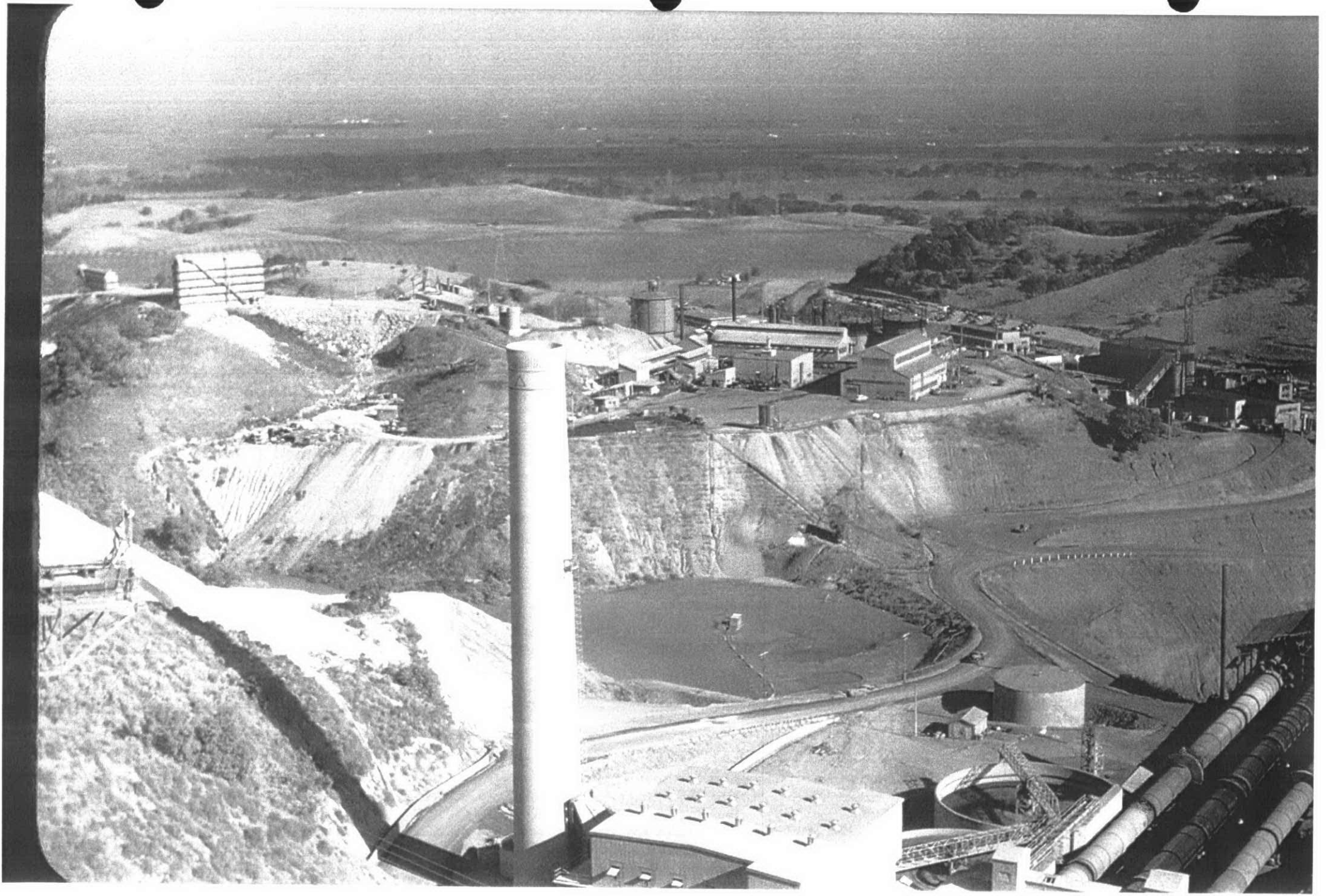
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

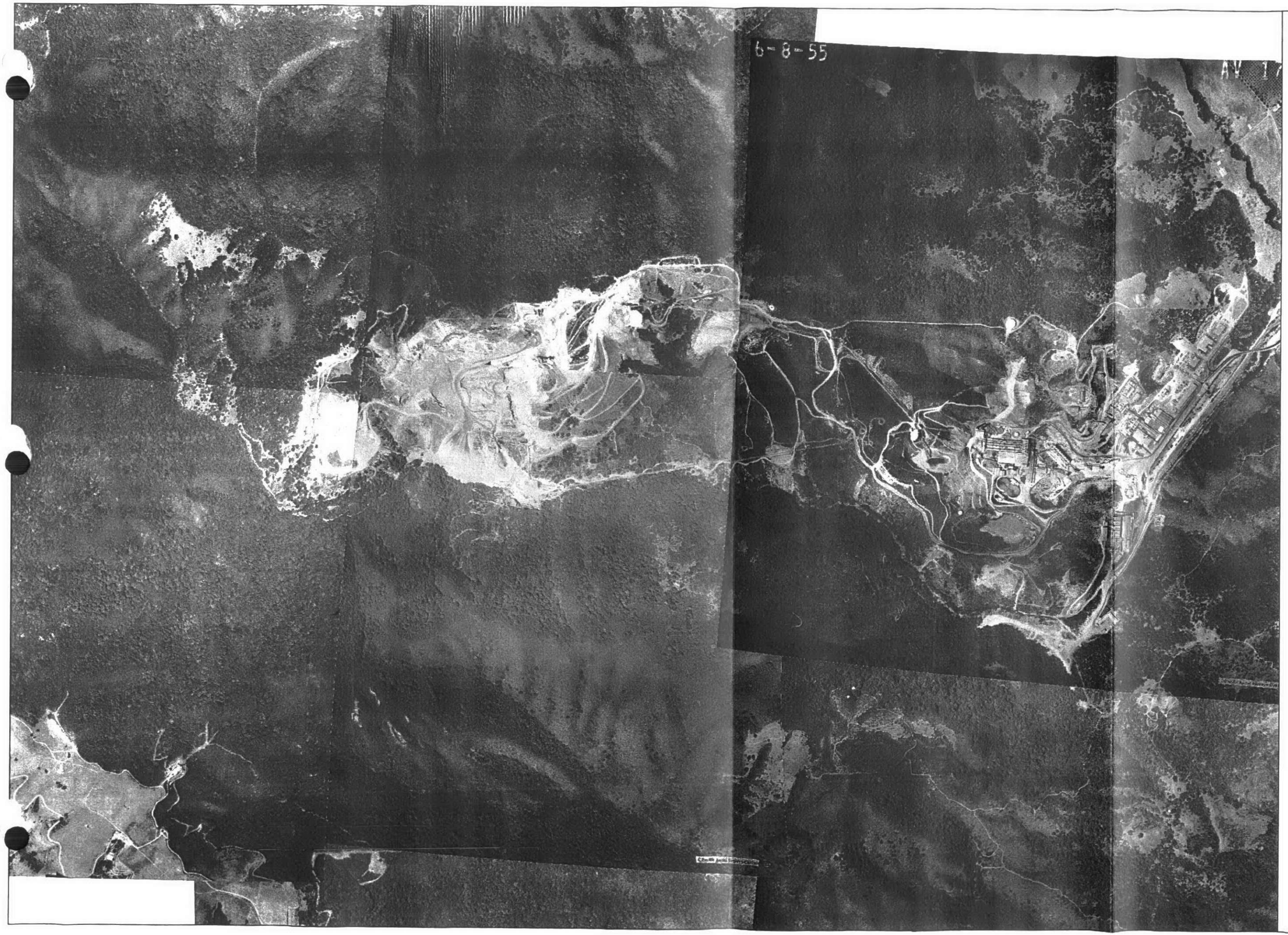
EnviroMINE

Date: July 2007
Aerial: 1948, NAR


QUARRY
COTTRELL STACK



Permanente
1955 Aerial

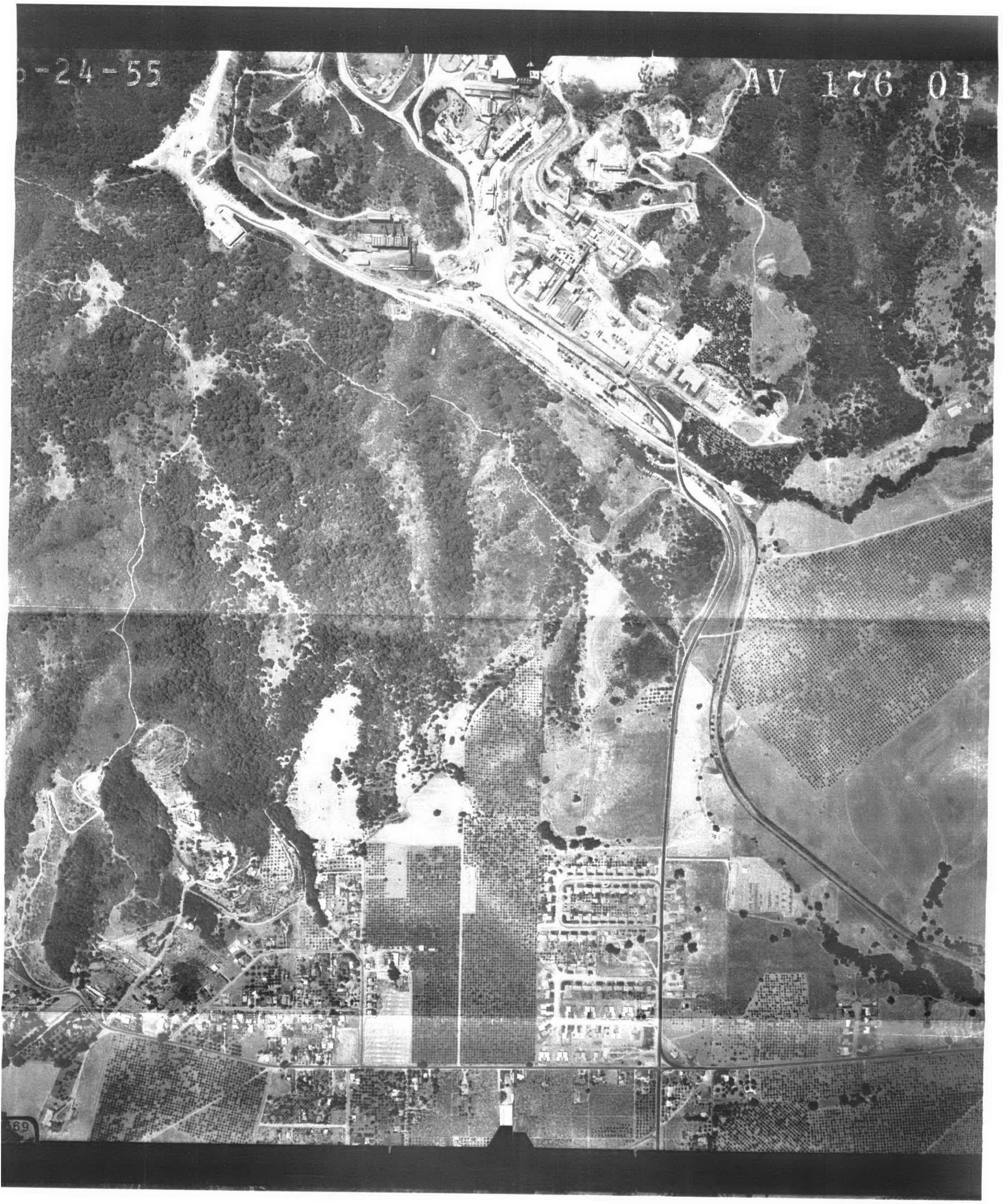


N
W E
S

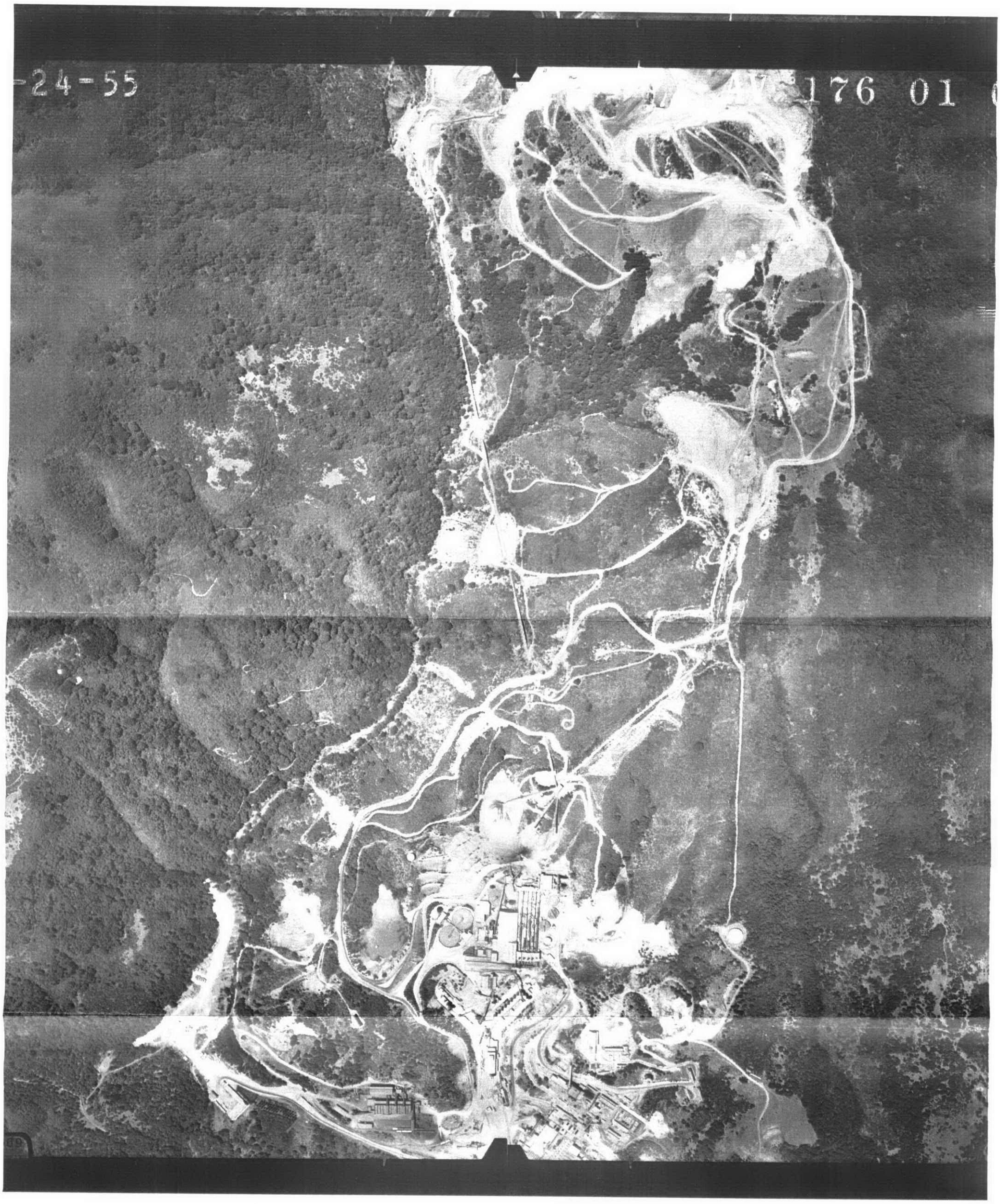
Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1955, PAS

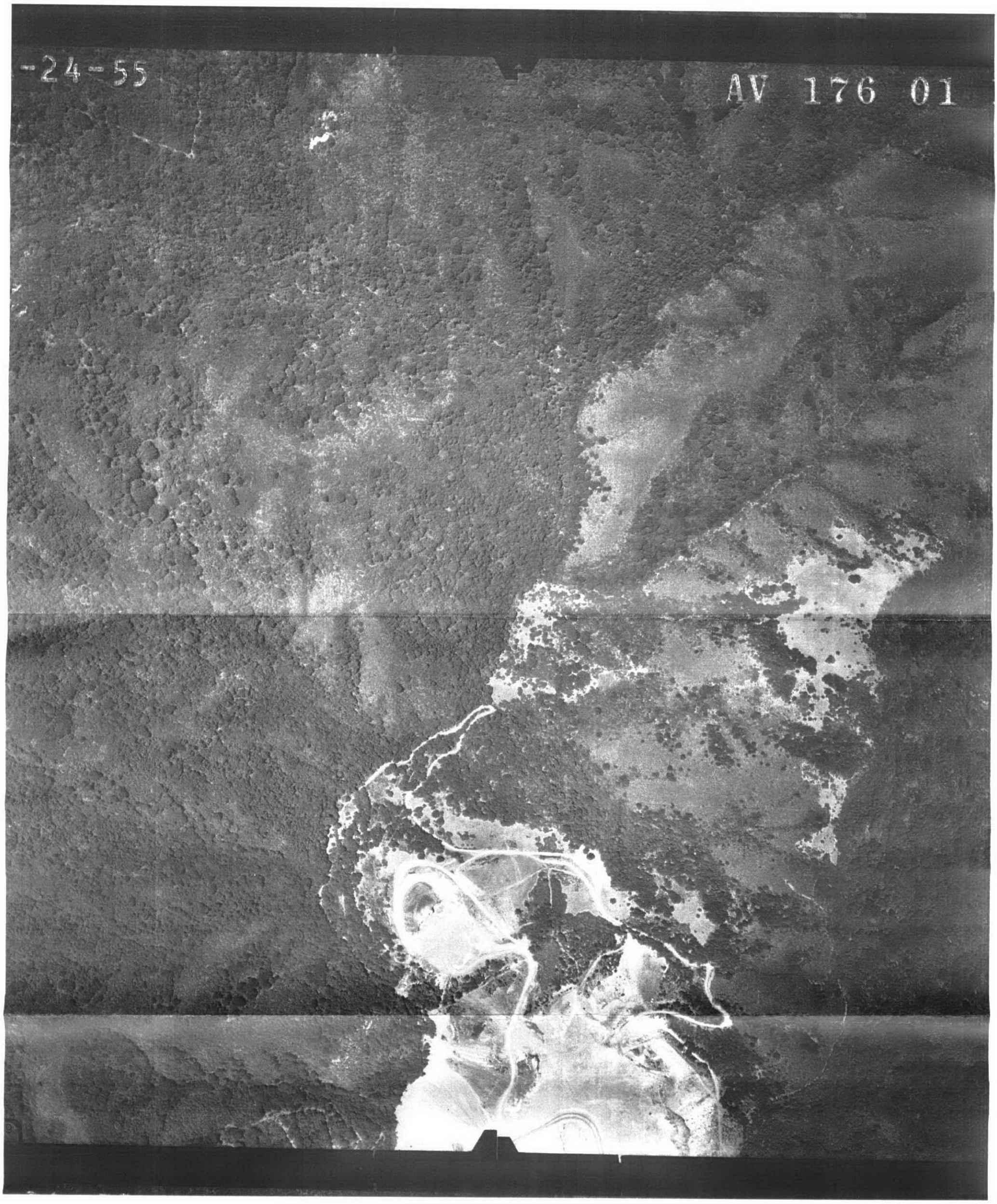

-24-55
AV 176 01

6-24-55
AV 176 01


-24-55
176 01

6-24-55
AV 176 01

6-24-55
AV 176 01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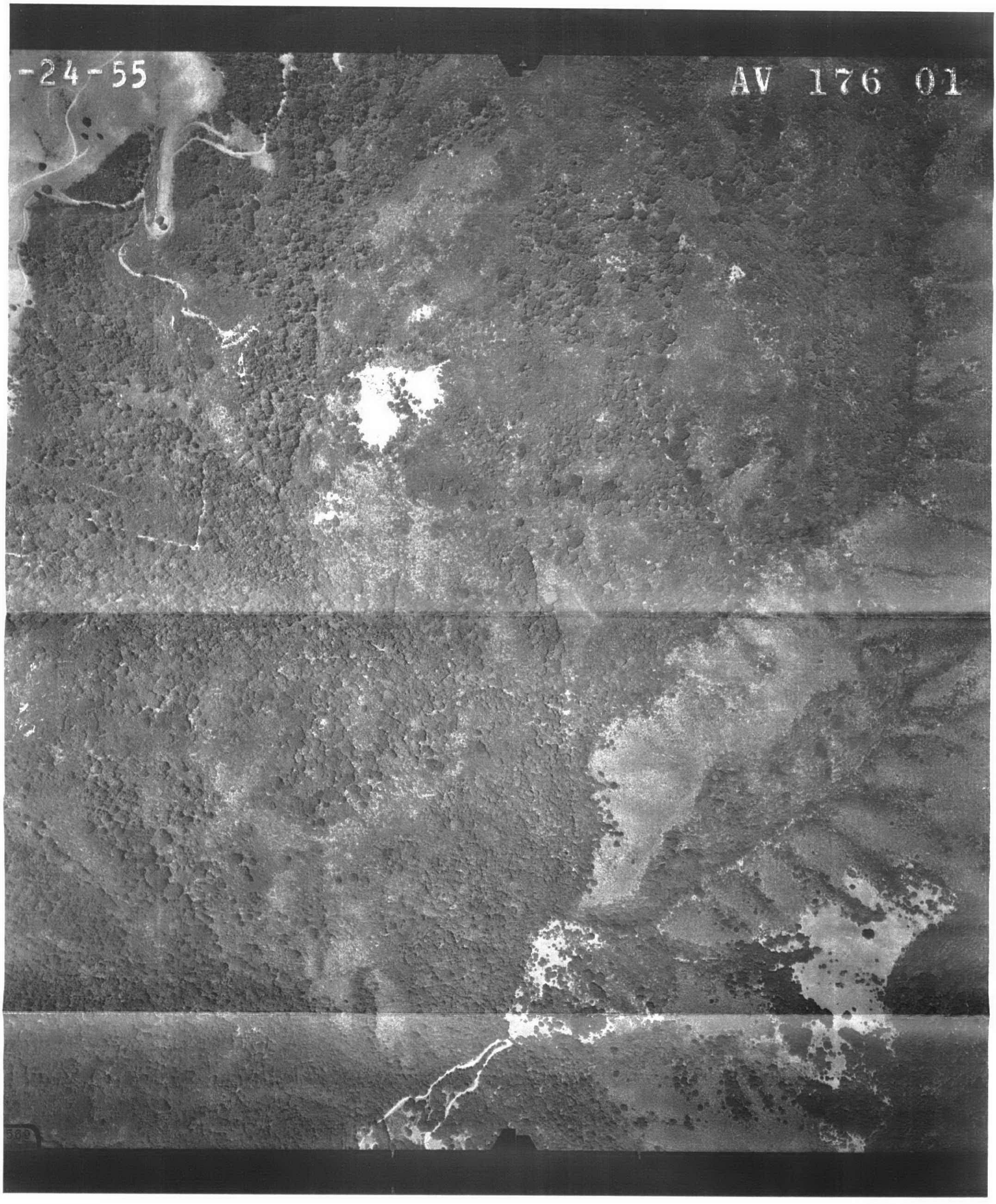
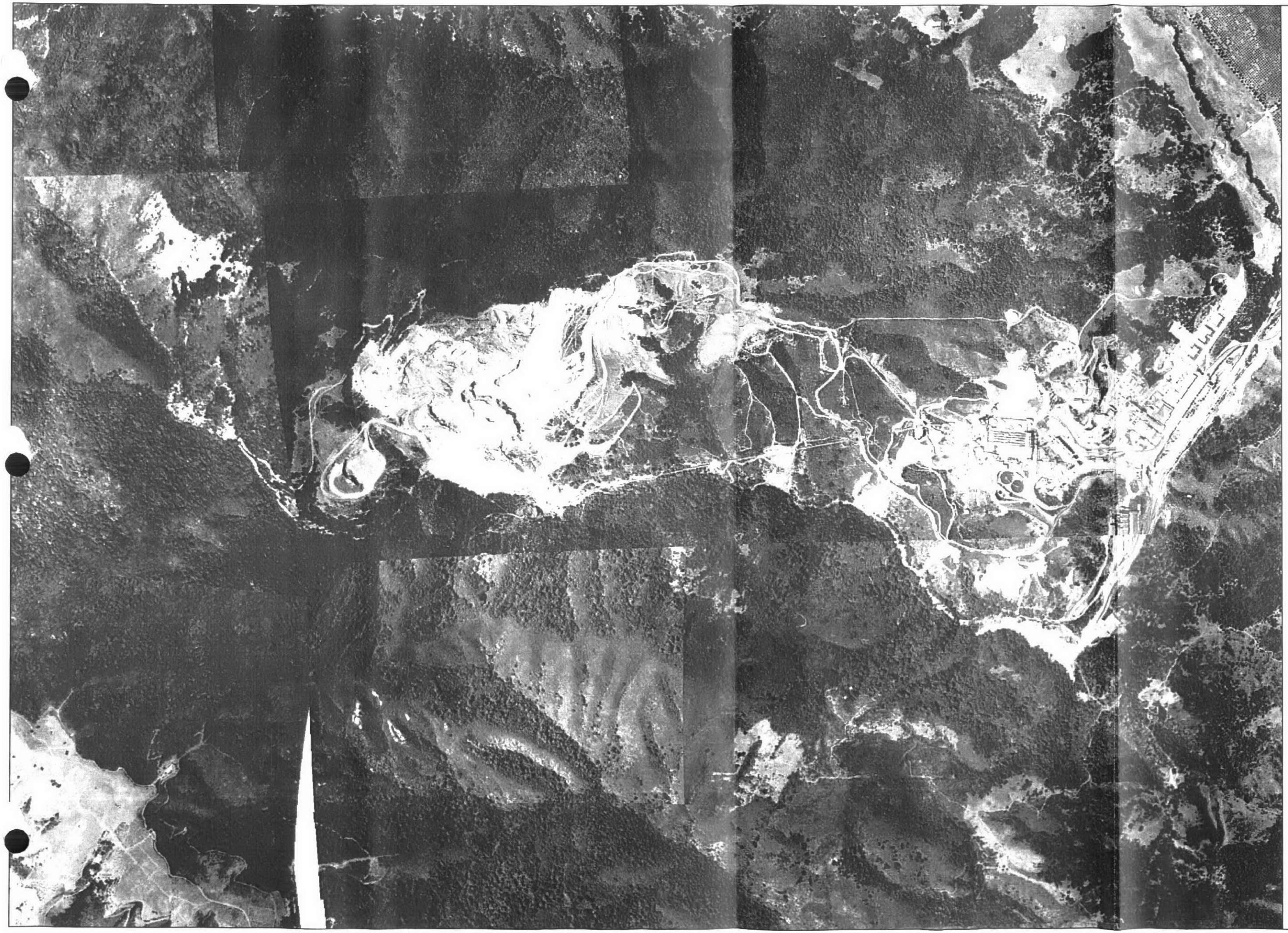
AV 176 01


-24-55
AV 176 01

-8-55
AV 170-24-2

Permanente
1956 Aerial



N
W E
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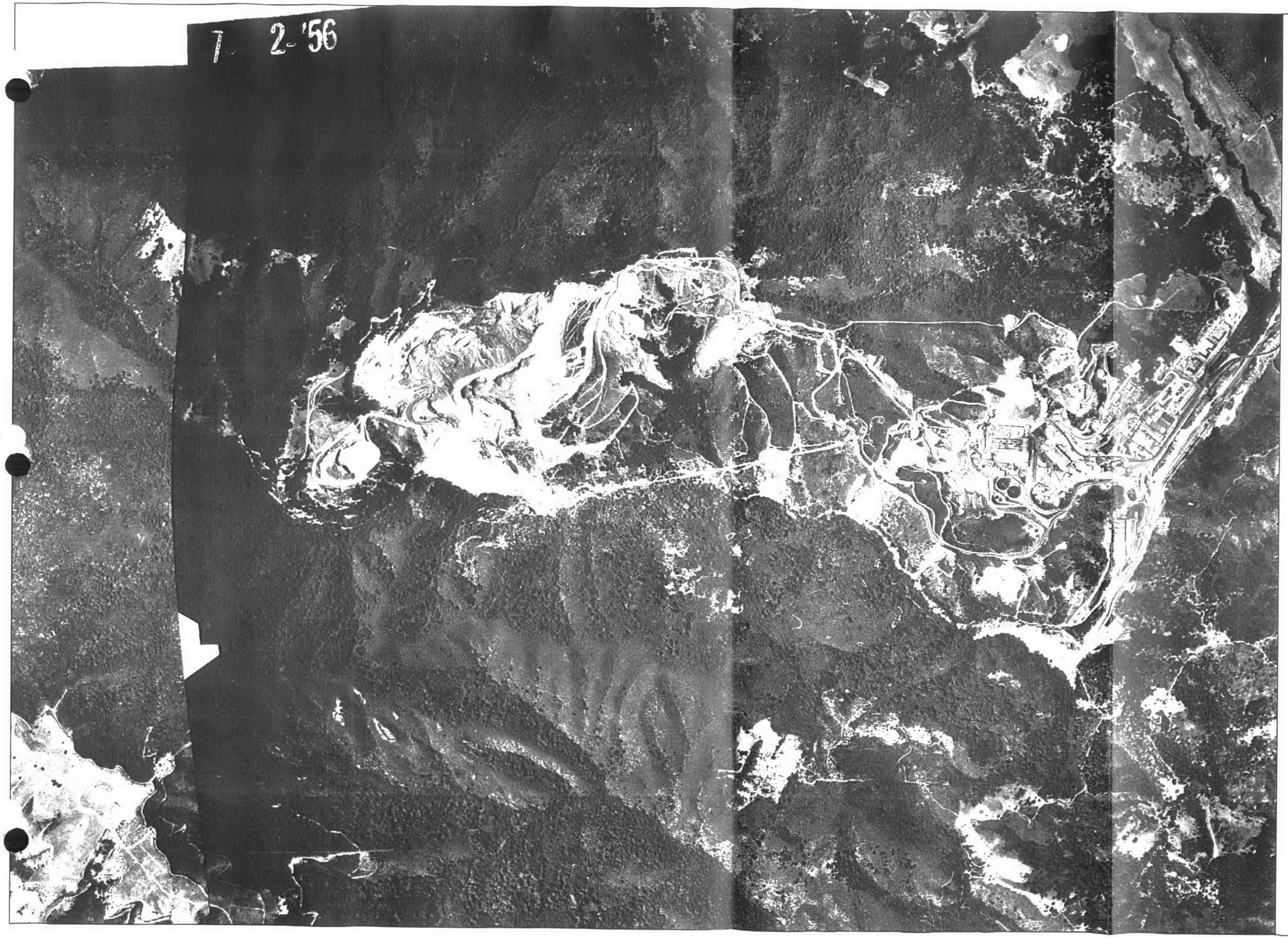
Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1956, EDR

Permanente
1956 Aerial

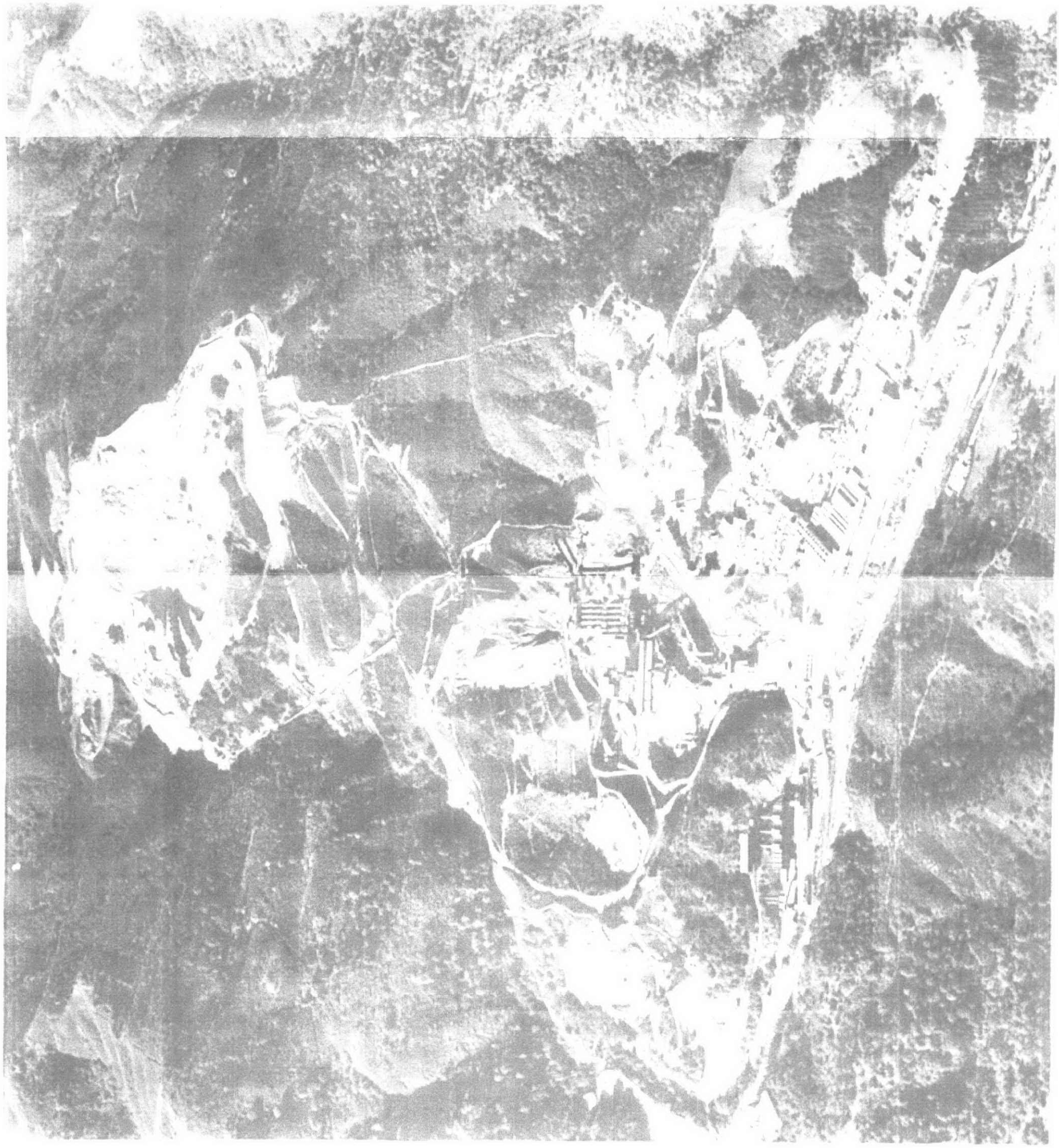


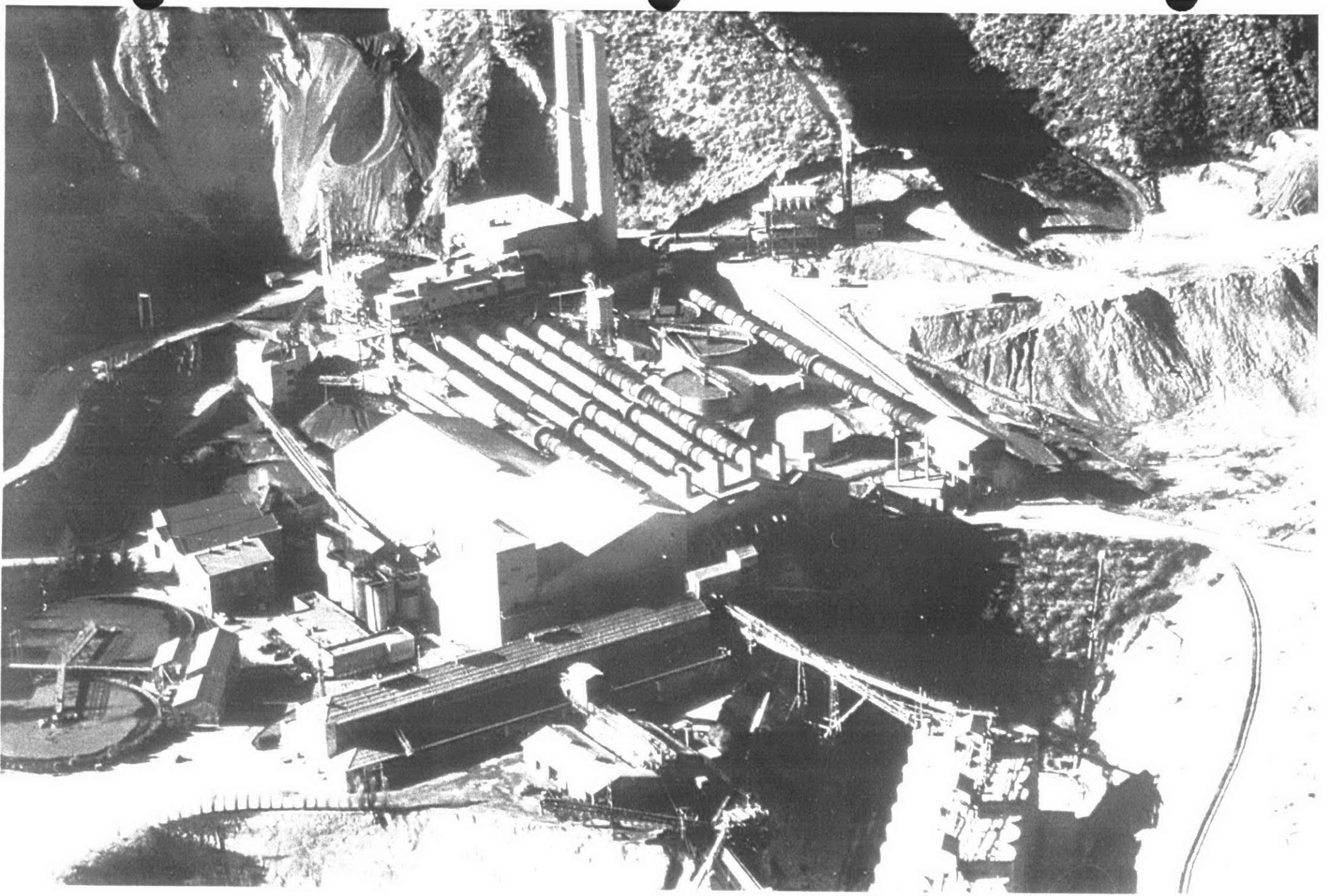
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

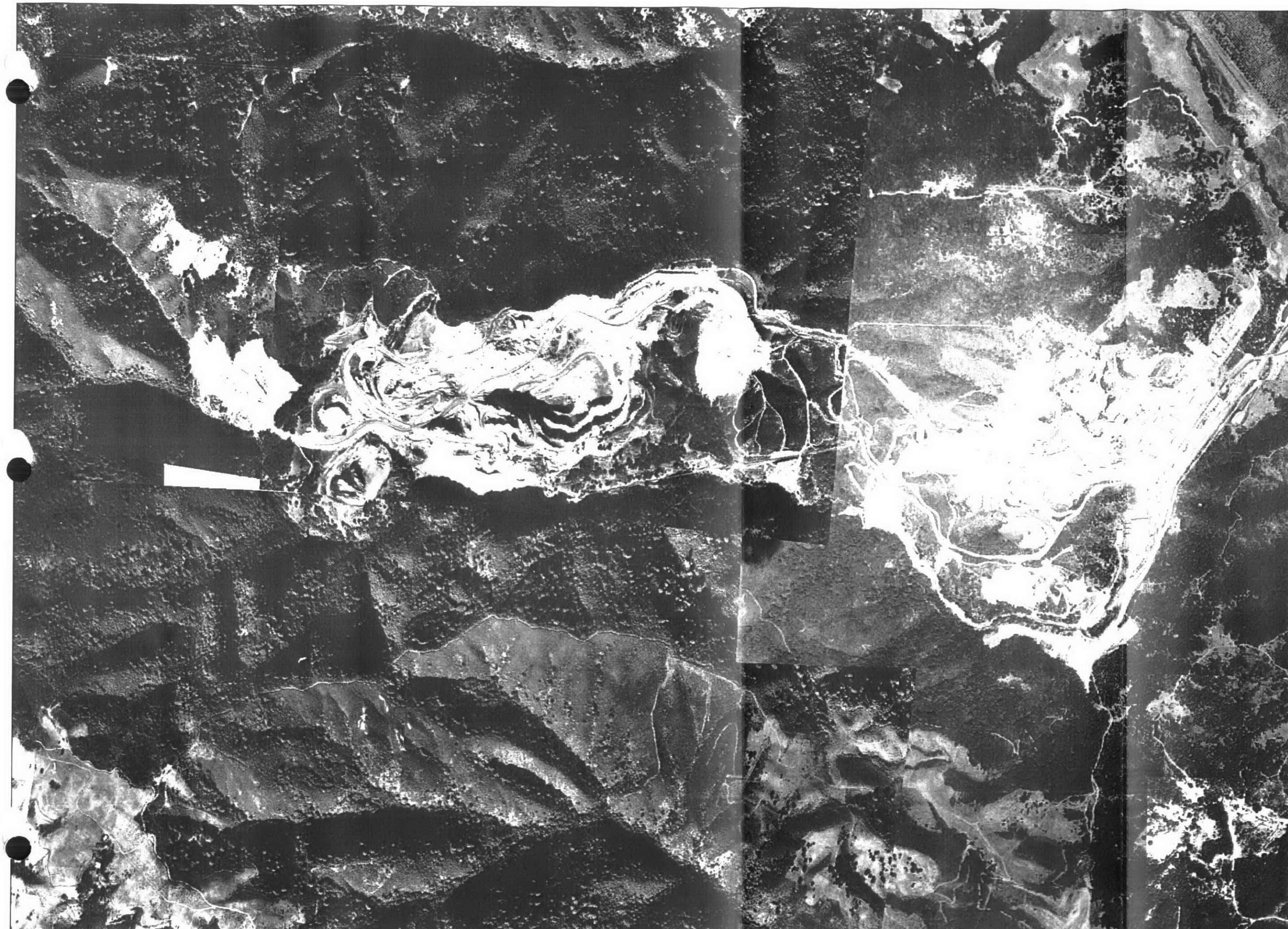
EnviroMINE

Date: July 2007
Aerial: 1956, NAR





Permanente
1963 Aerial

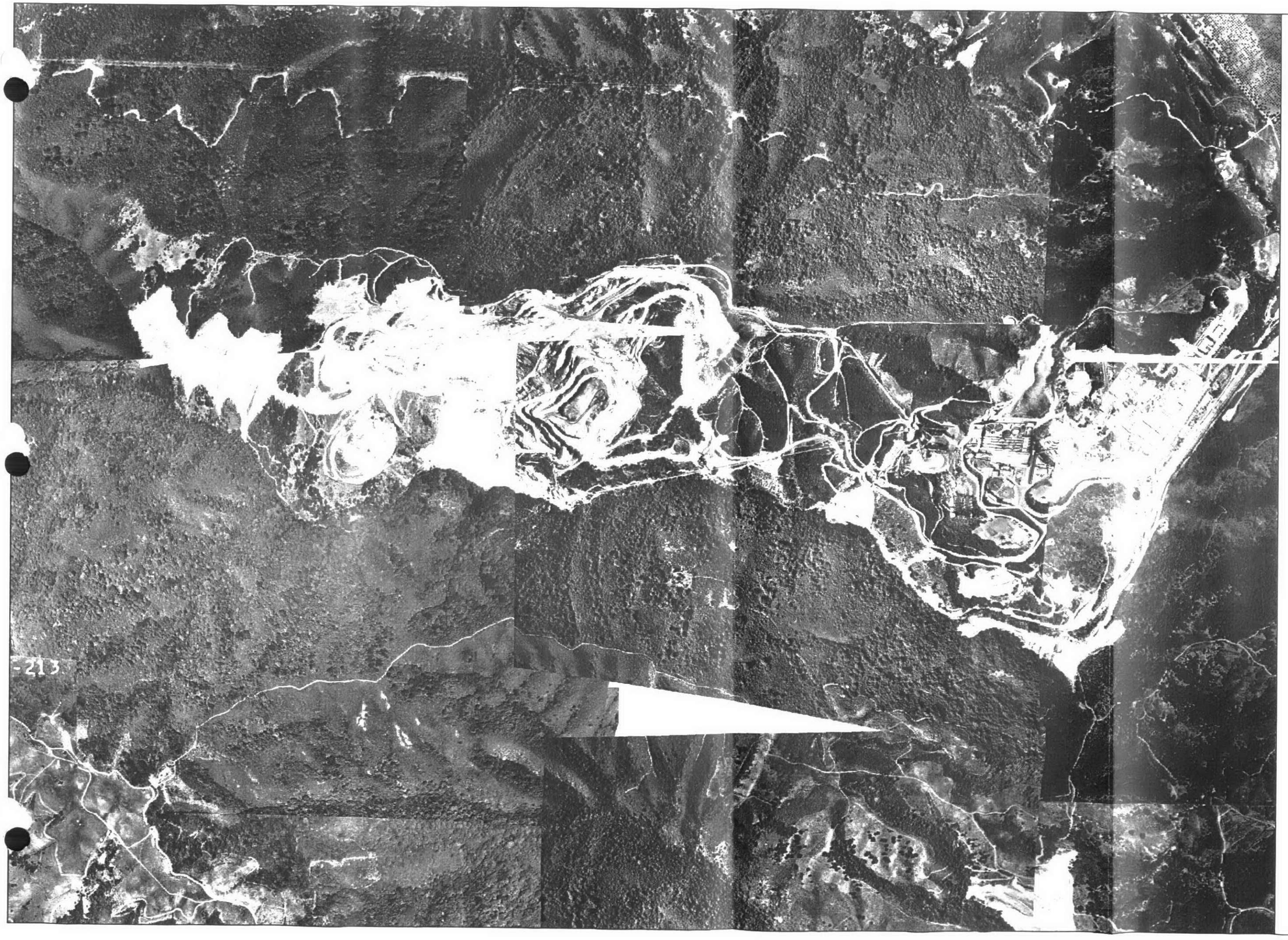


N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1963, EDR



Permanente
1965 Aerial

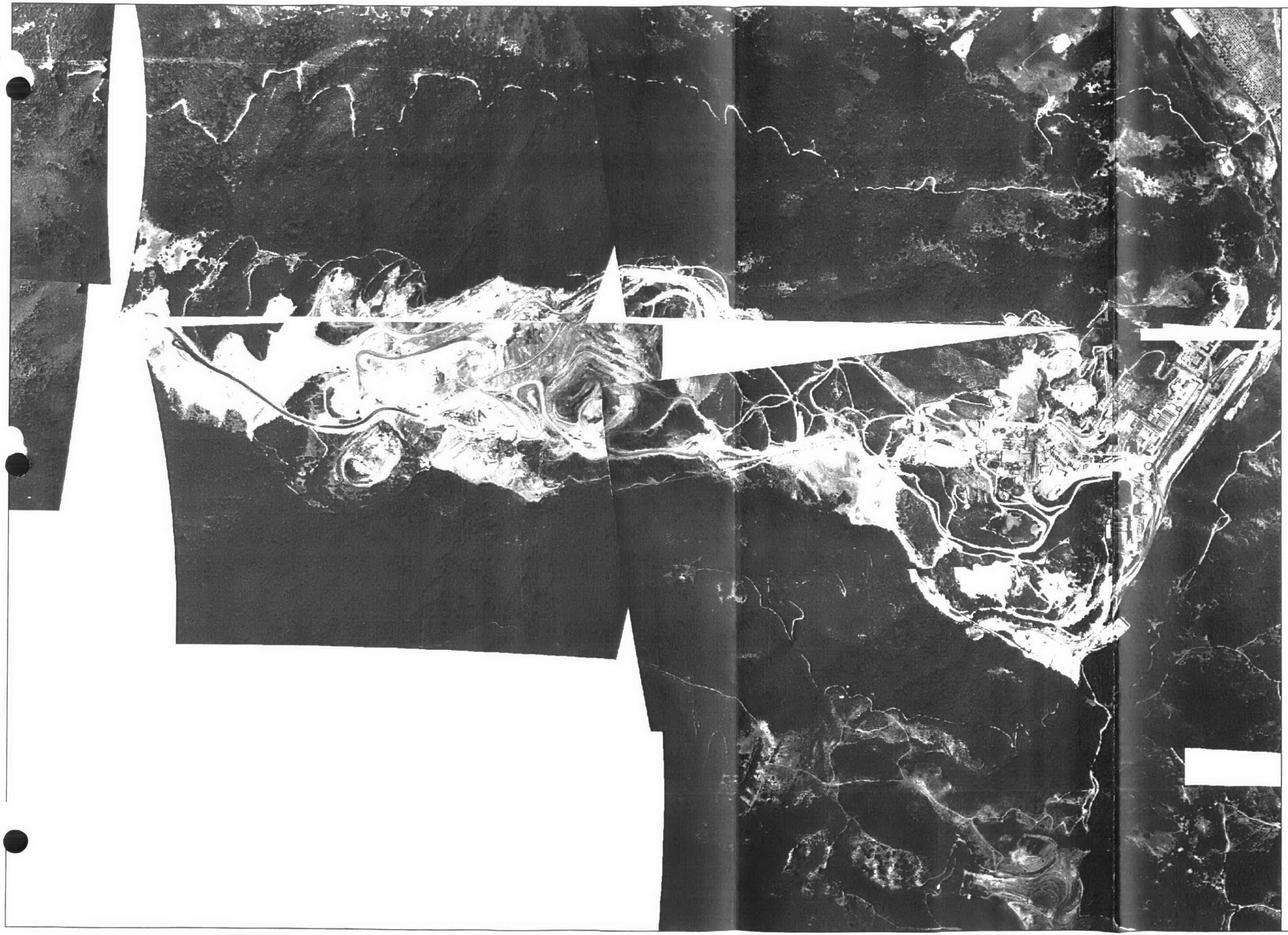
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1965, EDR

Permanente
1968 Aerial

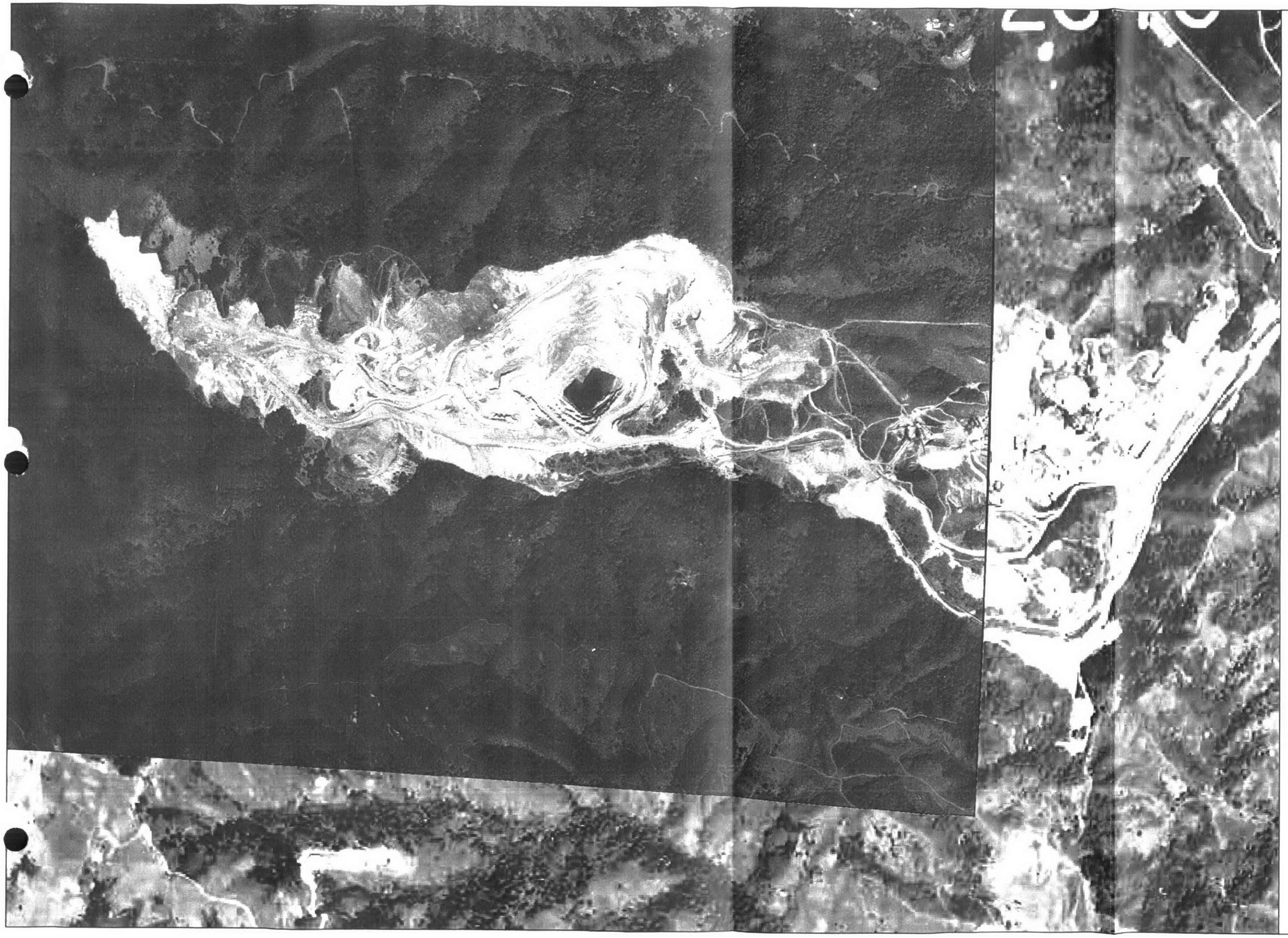


N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1968, EDR



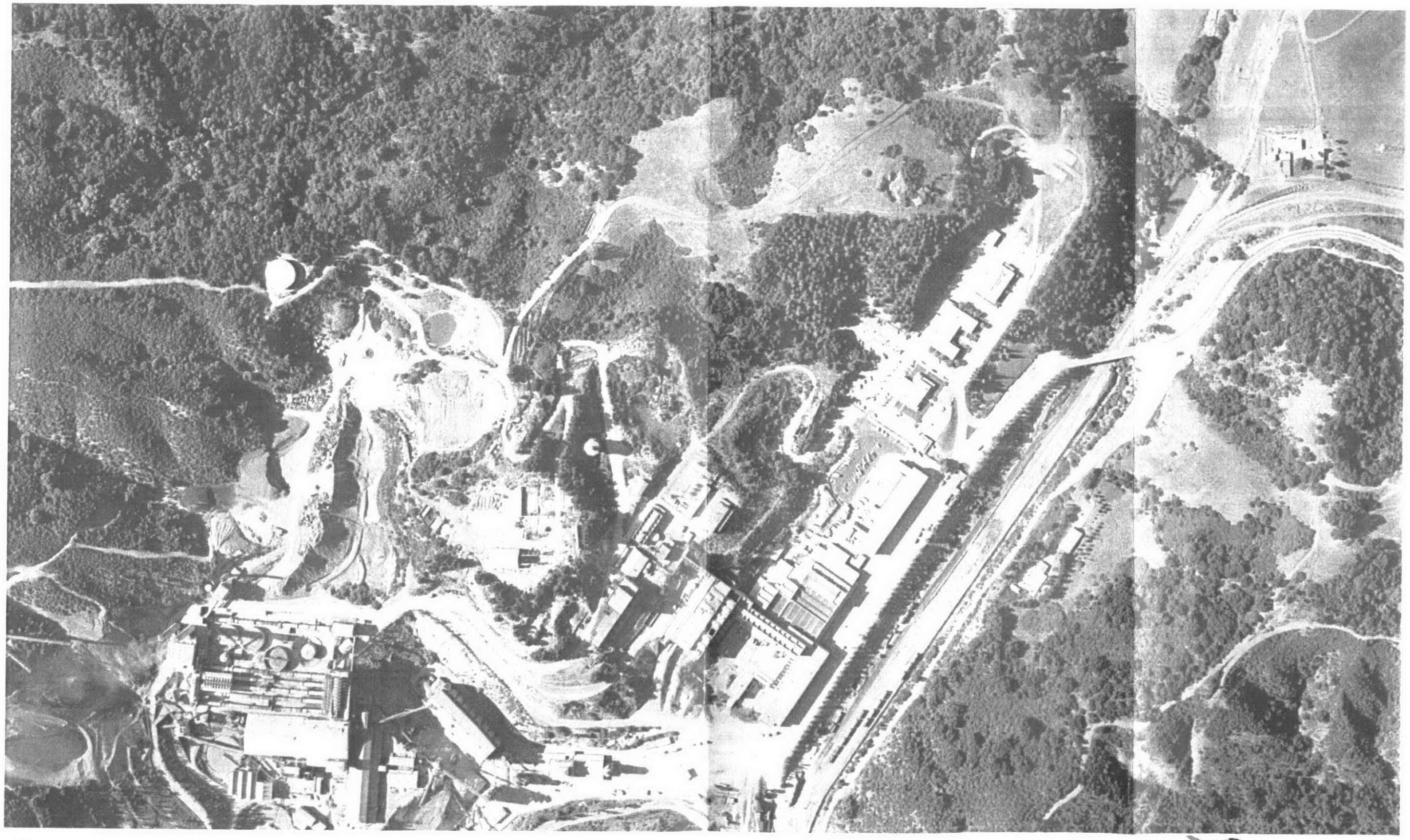
Permanente
1975 Aerial

N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1975



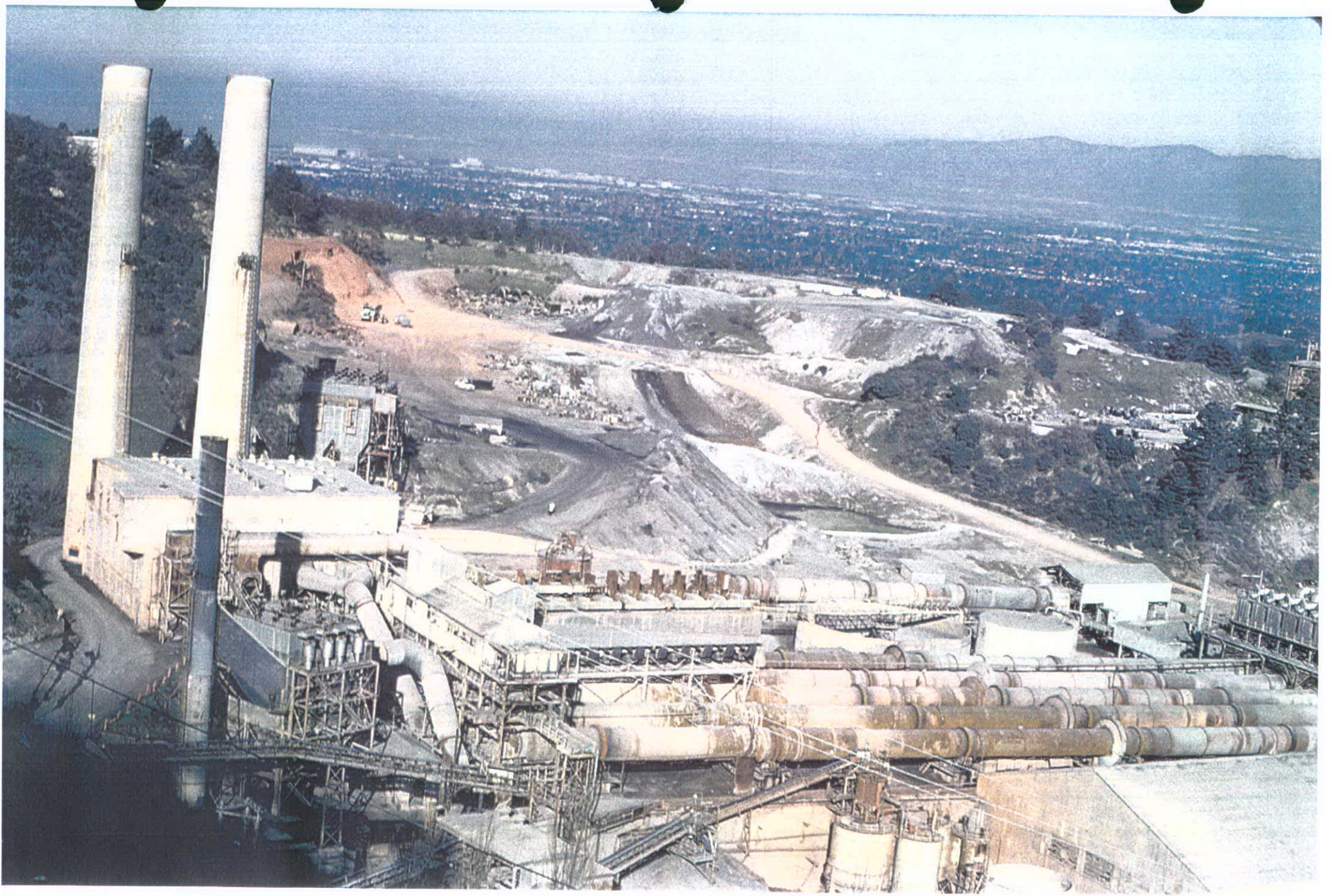
Permanente, CA
6/25/1974

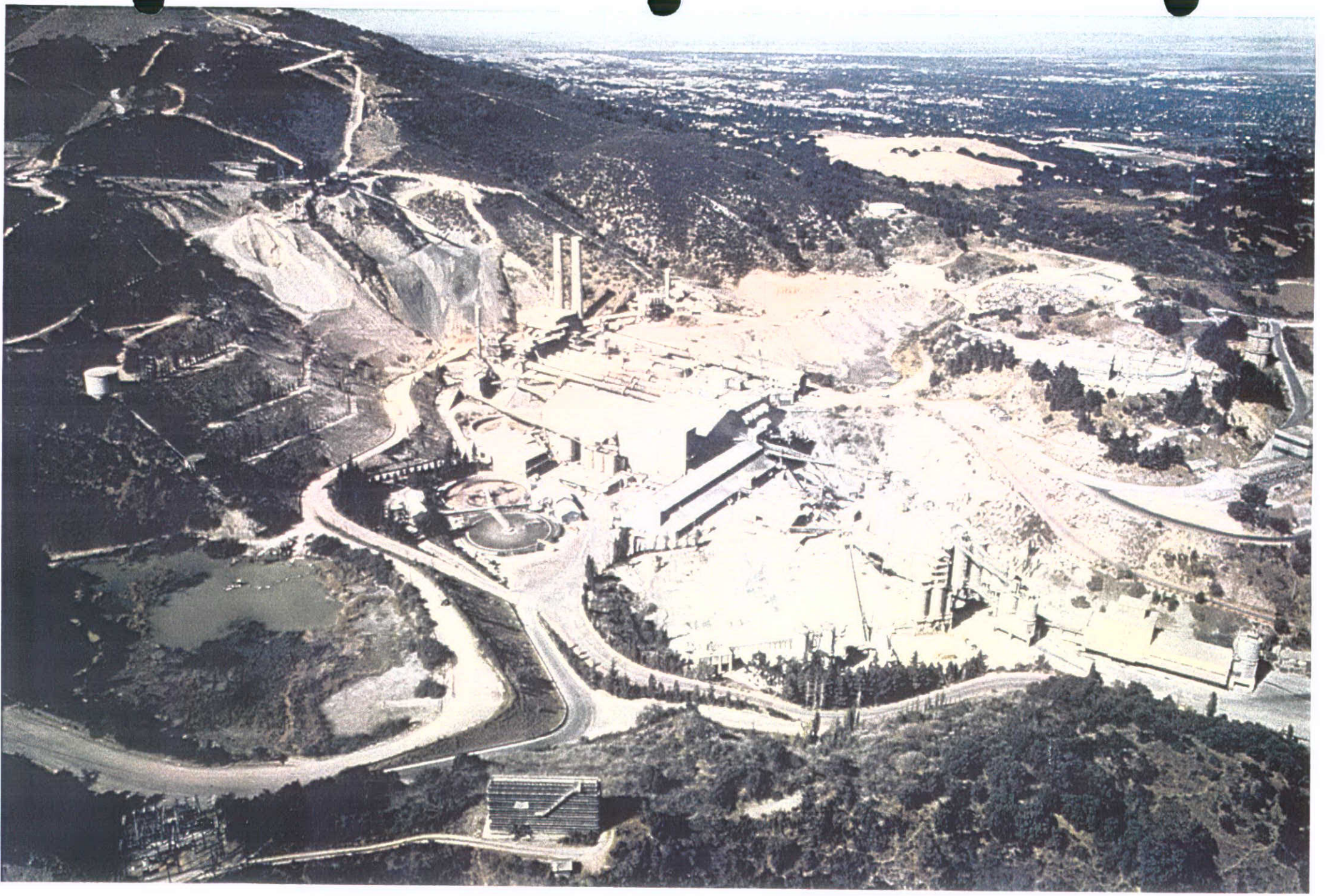
Film Source: USGS

300 0 300 Feet

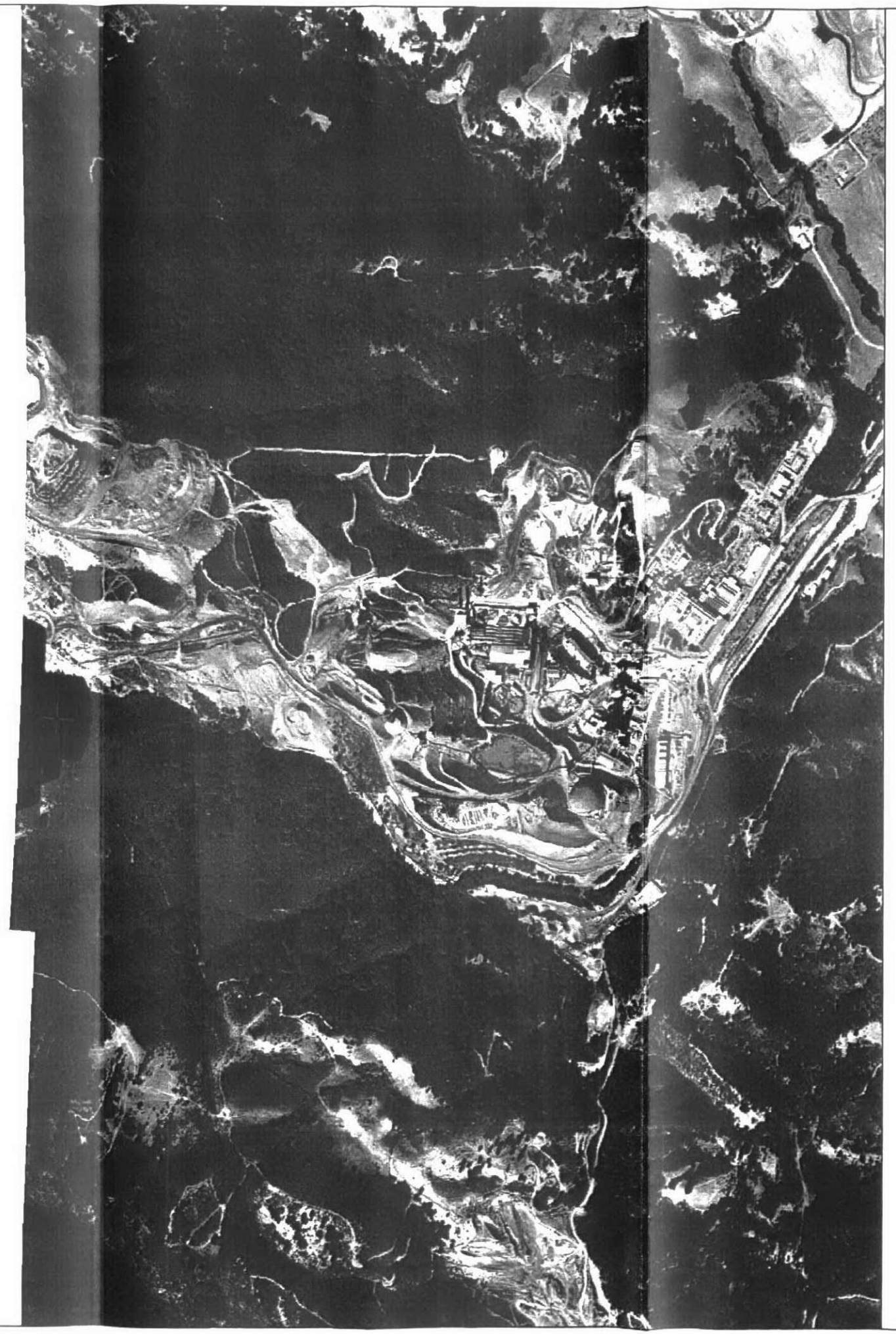
N

AERO - DATA CORP.
Environmental
Remote Sensing Consulting Services
Aerial Photo Acquisition
Interpretation and Mapping
225.767.5725





Permanente
1980 Aerial



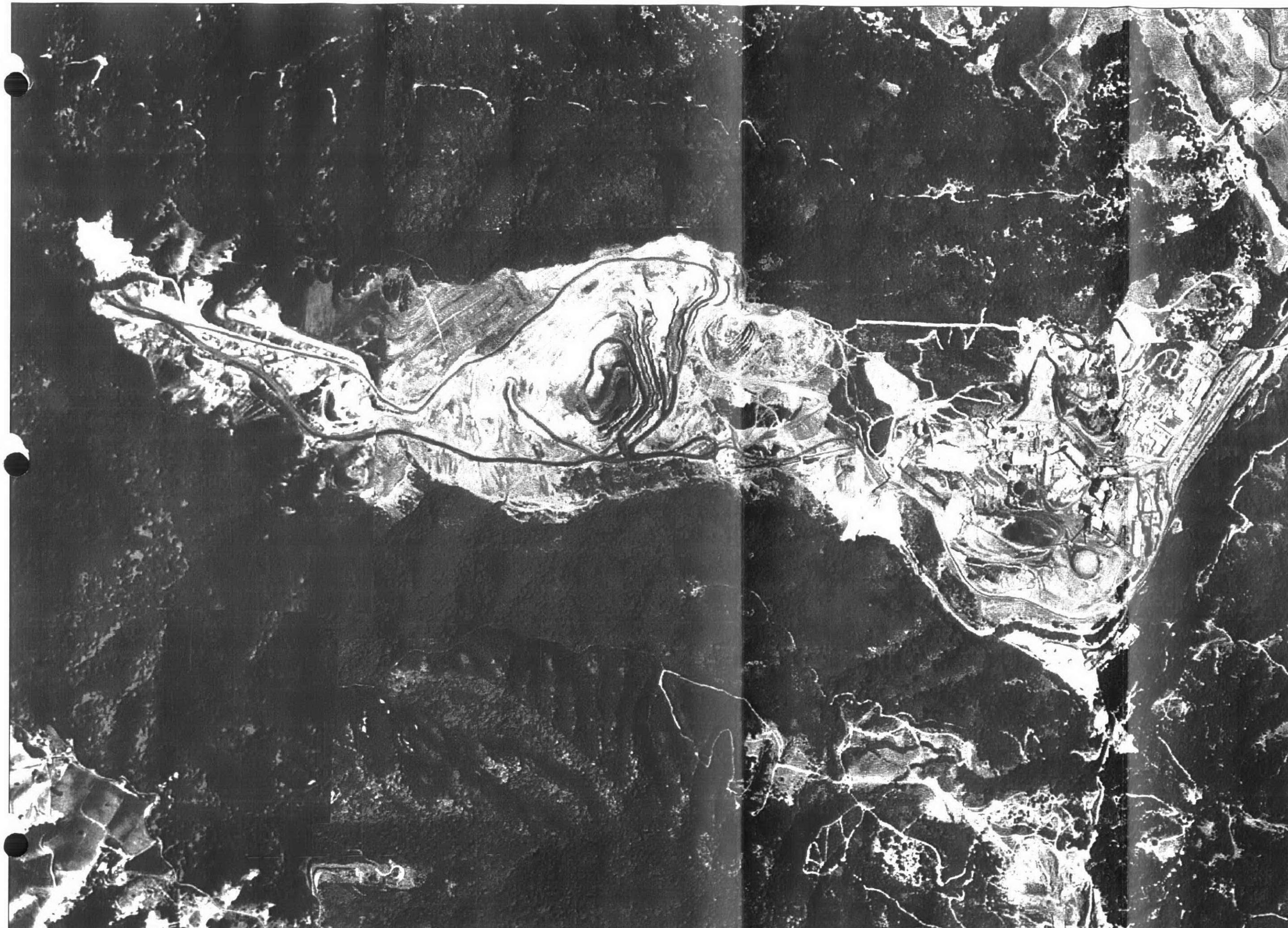
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1980, EDR

Permanente
1982 Aerial



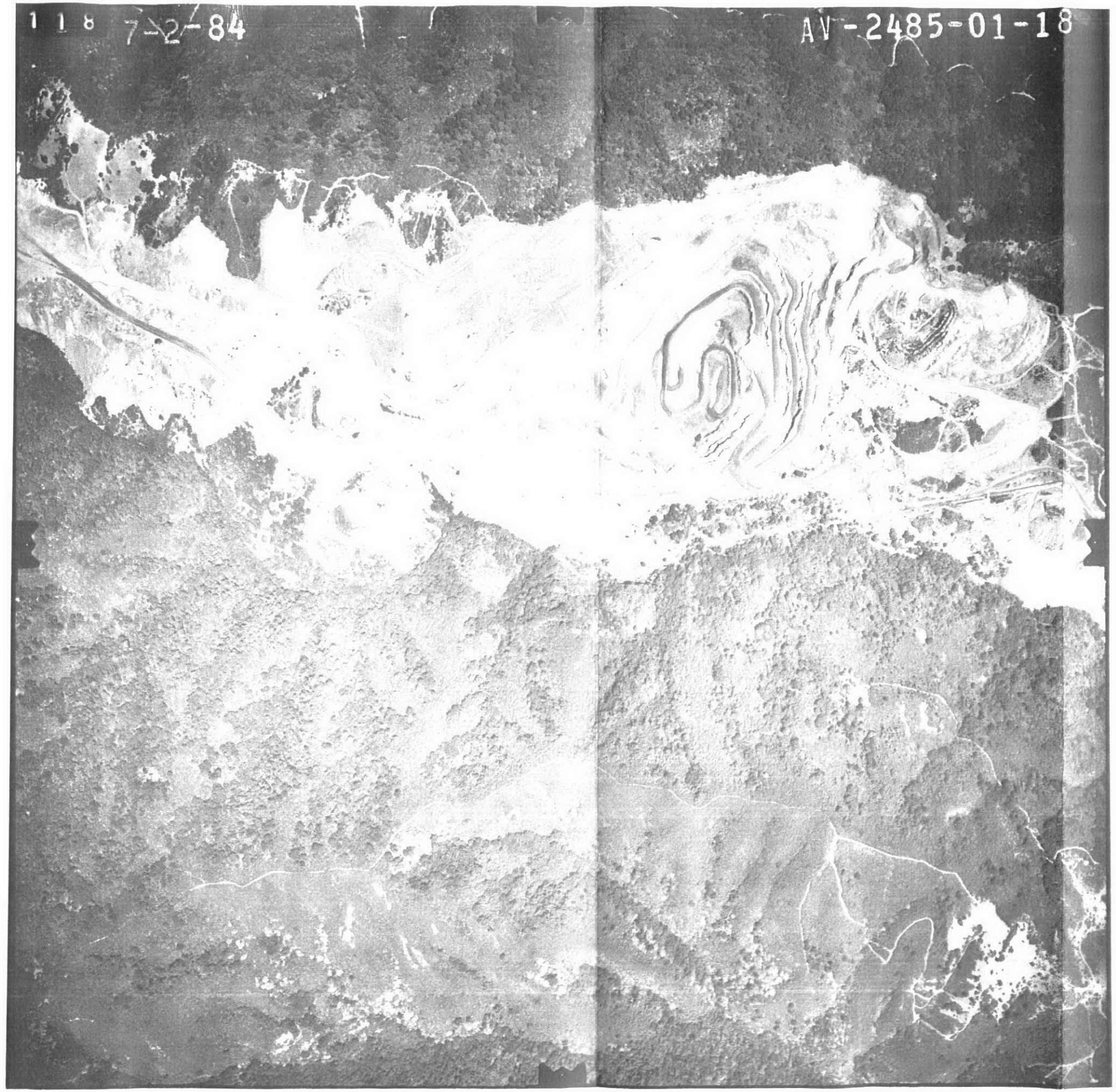
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

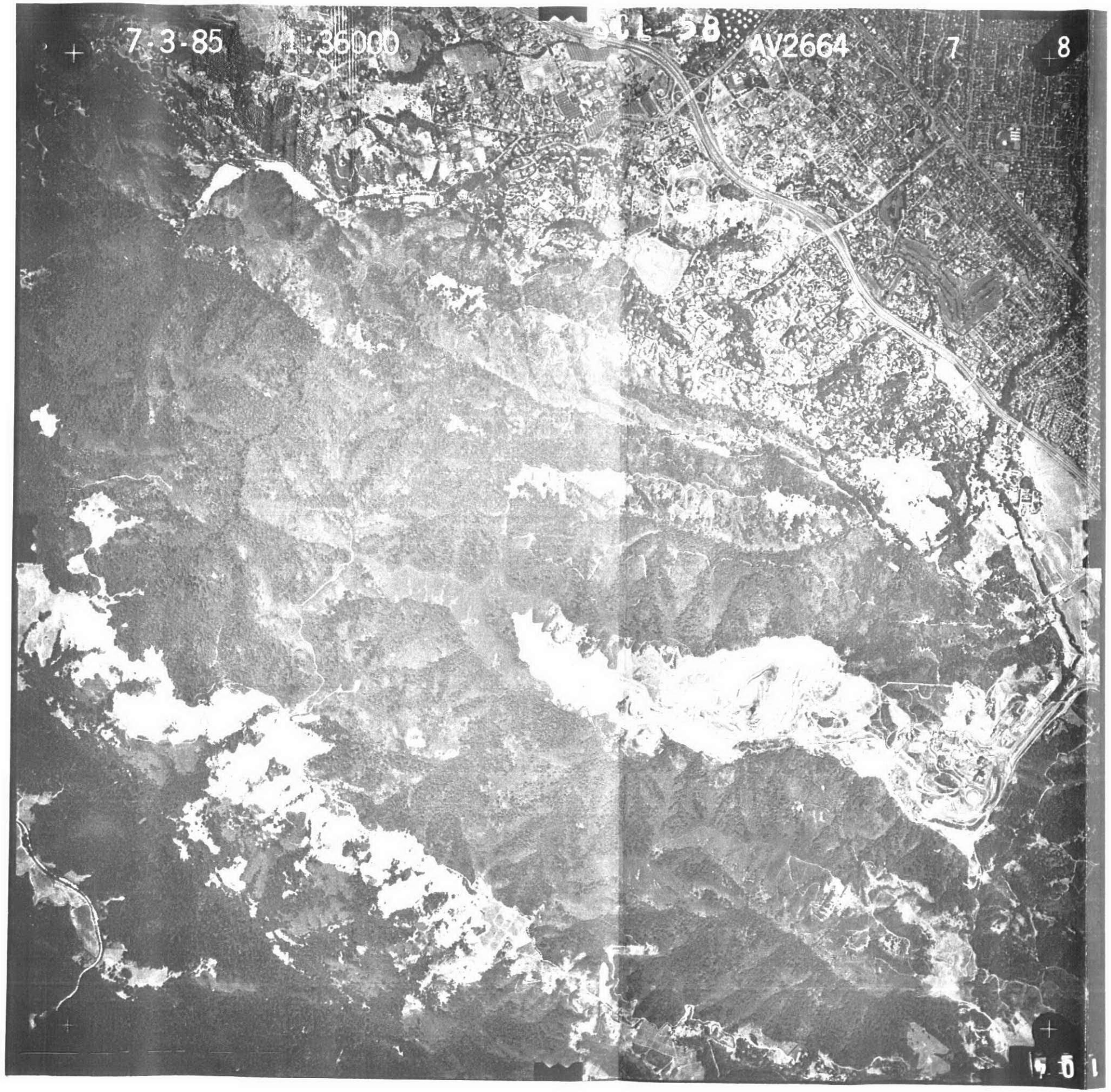
EnviroMINE

Date: July 2007
Aerial: 1982, EDR

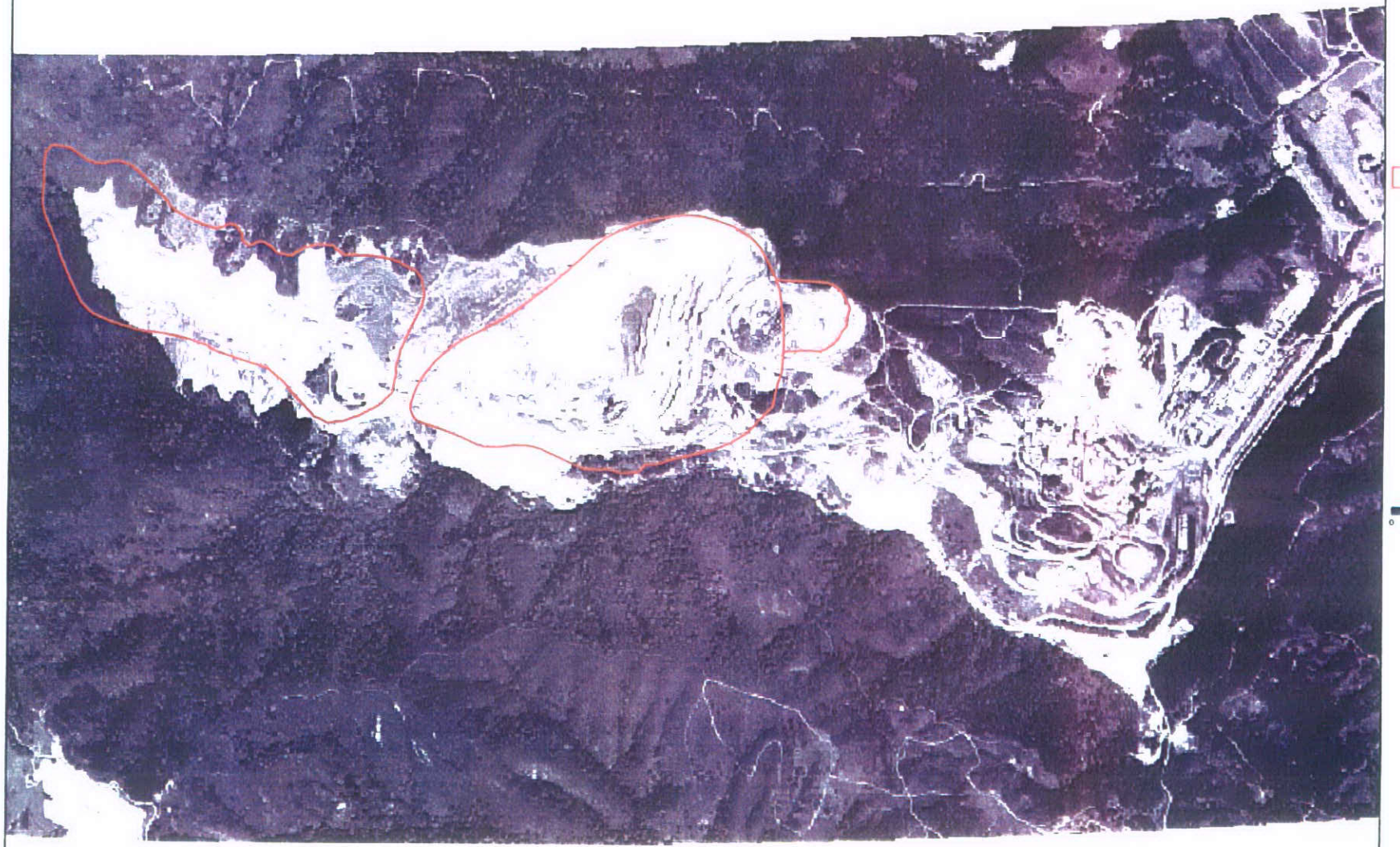
0 8 8
2-84
AV-2485-02-15


118 7-2-84
AV-2485-01-18

4-24-85 1:63360 88MM
AV2600
10 26


7-3-85
1:35000
AV2664
7
8

Permanente
1985 RP Bndry
April 1985
Aerial



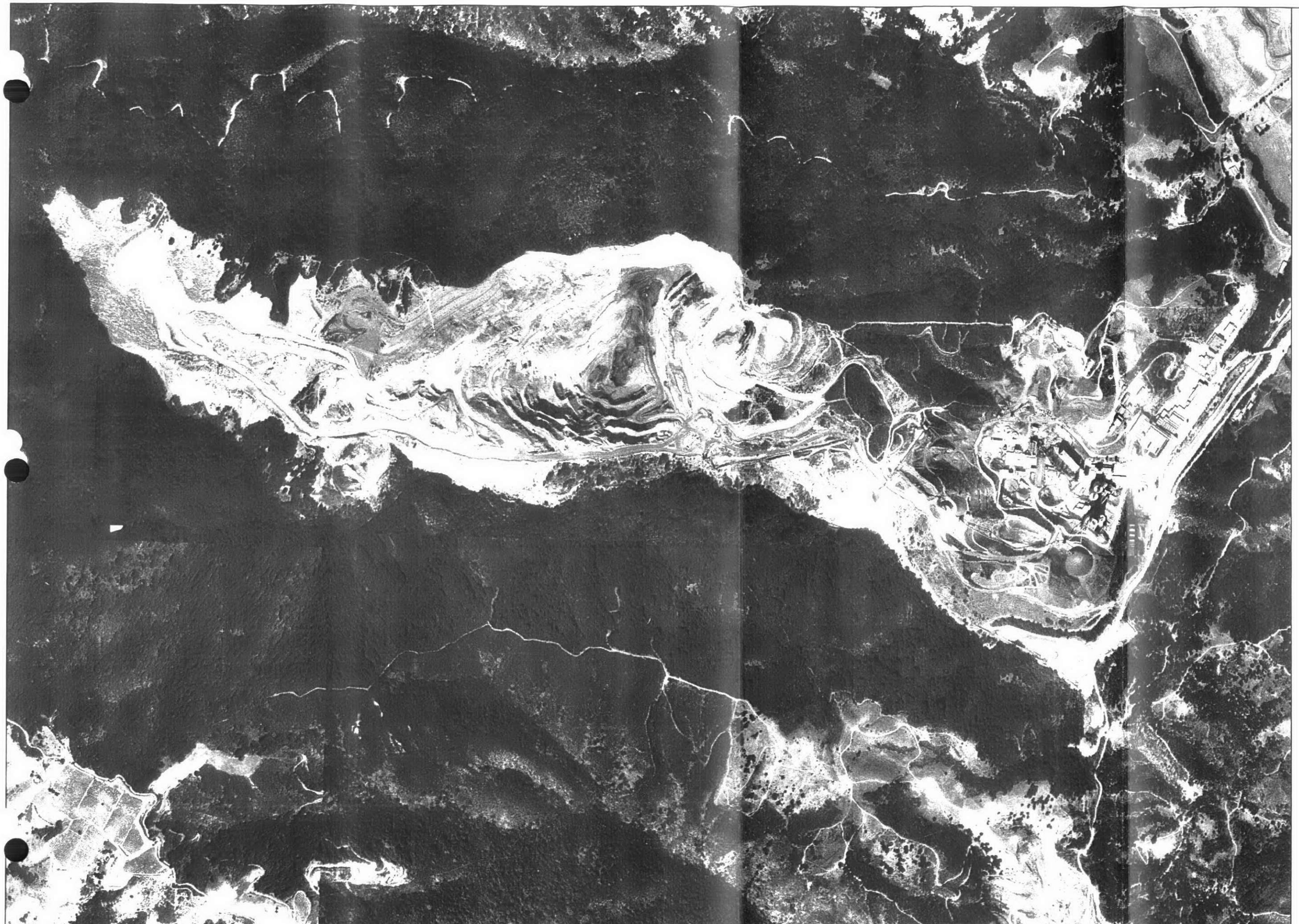
1985 RP Bndry

Feet
0 800 1,600
1 inch equals 1,600 feet

EnviroMINE

Date: September 2007
Aerial: April 1985

Permanente
1991 Aerial

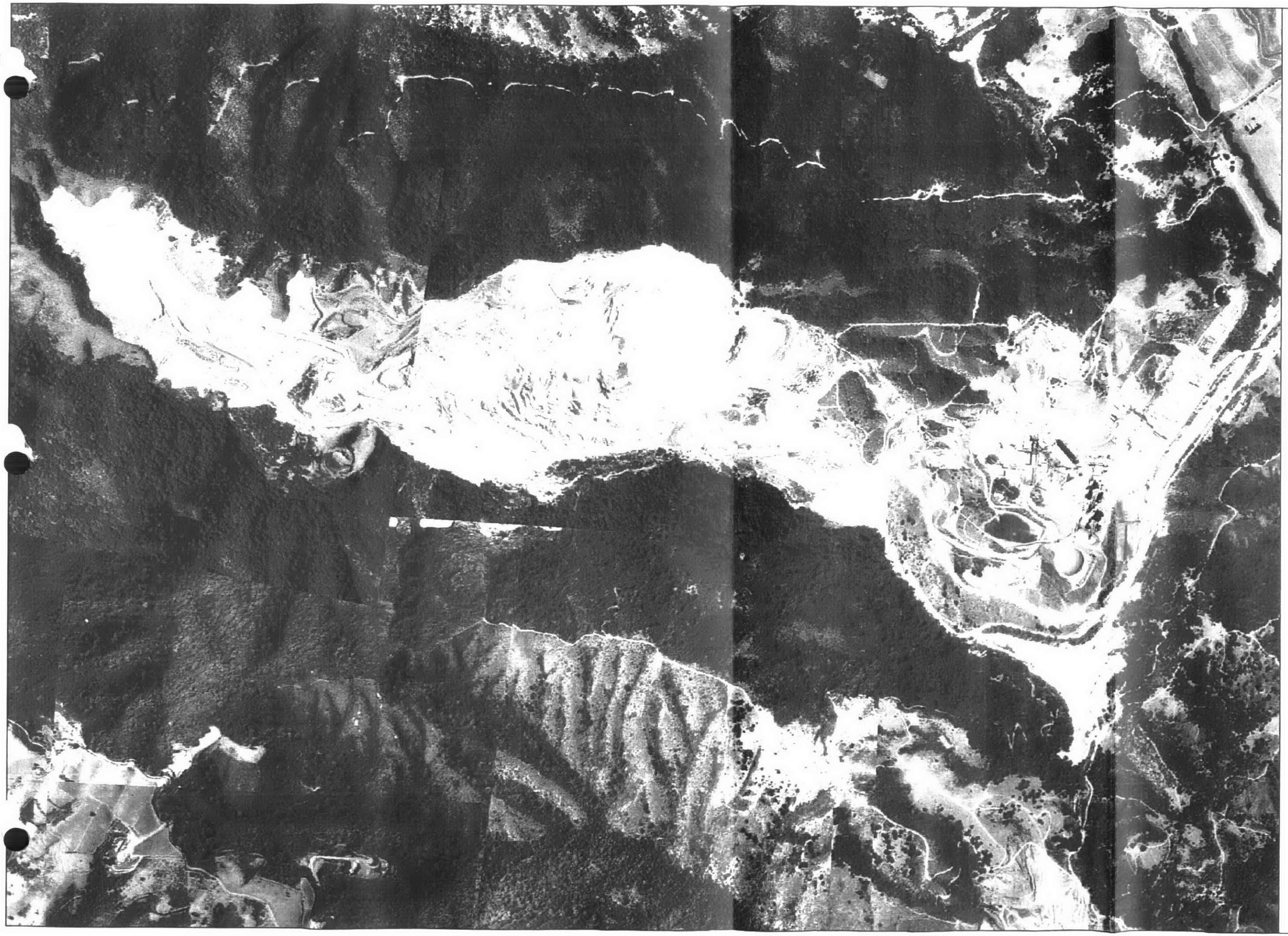


N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1991, USGS



Permanente
1993 Aerial

N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

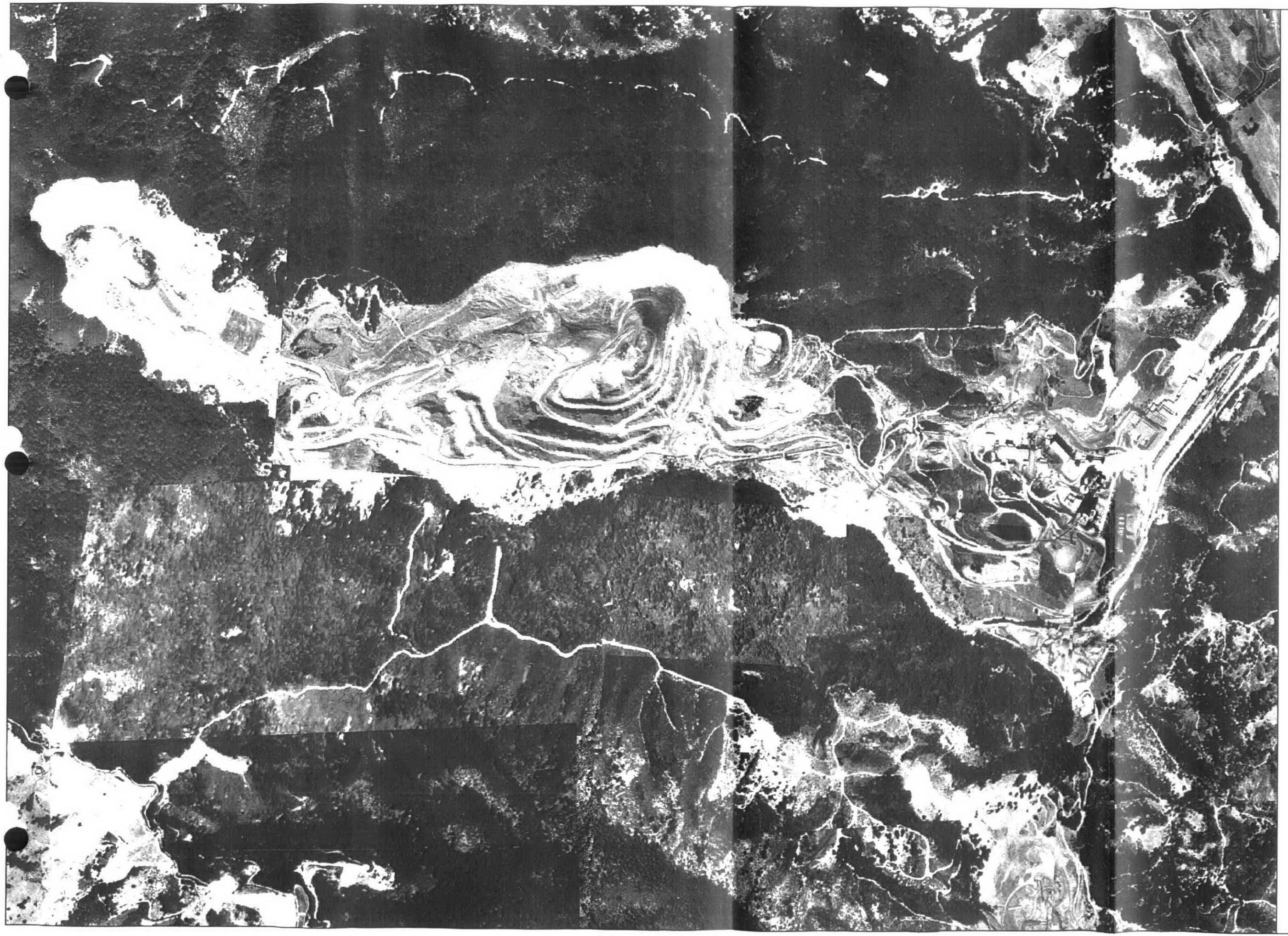
EnviroMINE

Date: July 2007
Aerial: 1993, EDR

© PACIFIC AERIAL SURVEYS
8407 EDGEWATER DRIVE
OAKLAND, CA 94621 / (510) 632-2520
THIS PHOTO IS AN ENLARGED PORTION OF FILE NEGATIVE

NEGATIVE #: KA05689#2

DATE FLOWN: 12-2-97



Permanente
1998 Aerial

N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 1998, EDR

Permanente, CA
10/31/1991

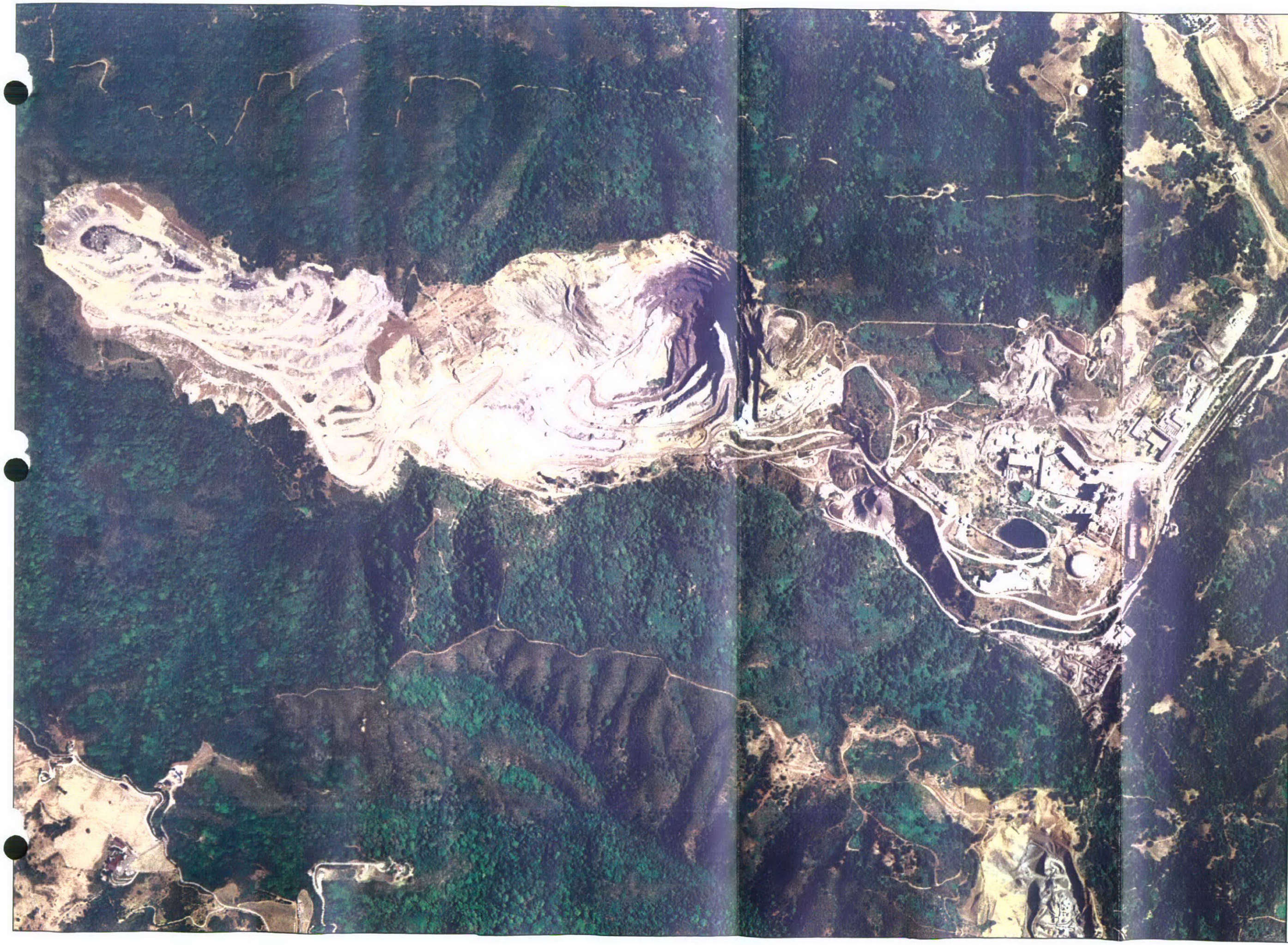
Film Source: USGS

300 0 300 Feet

N

AERO - DATA CORP.
Environmental
Remote Sensing Consulting Services
Aerial Photo Acquisition
Interpretation and Mapping
225.767.5725

Permanente
2005 Aerial

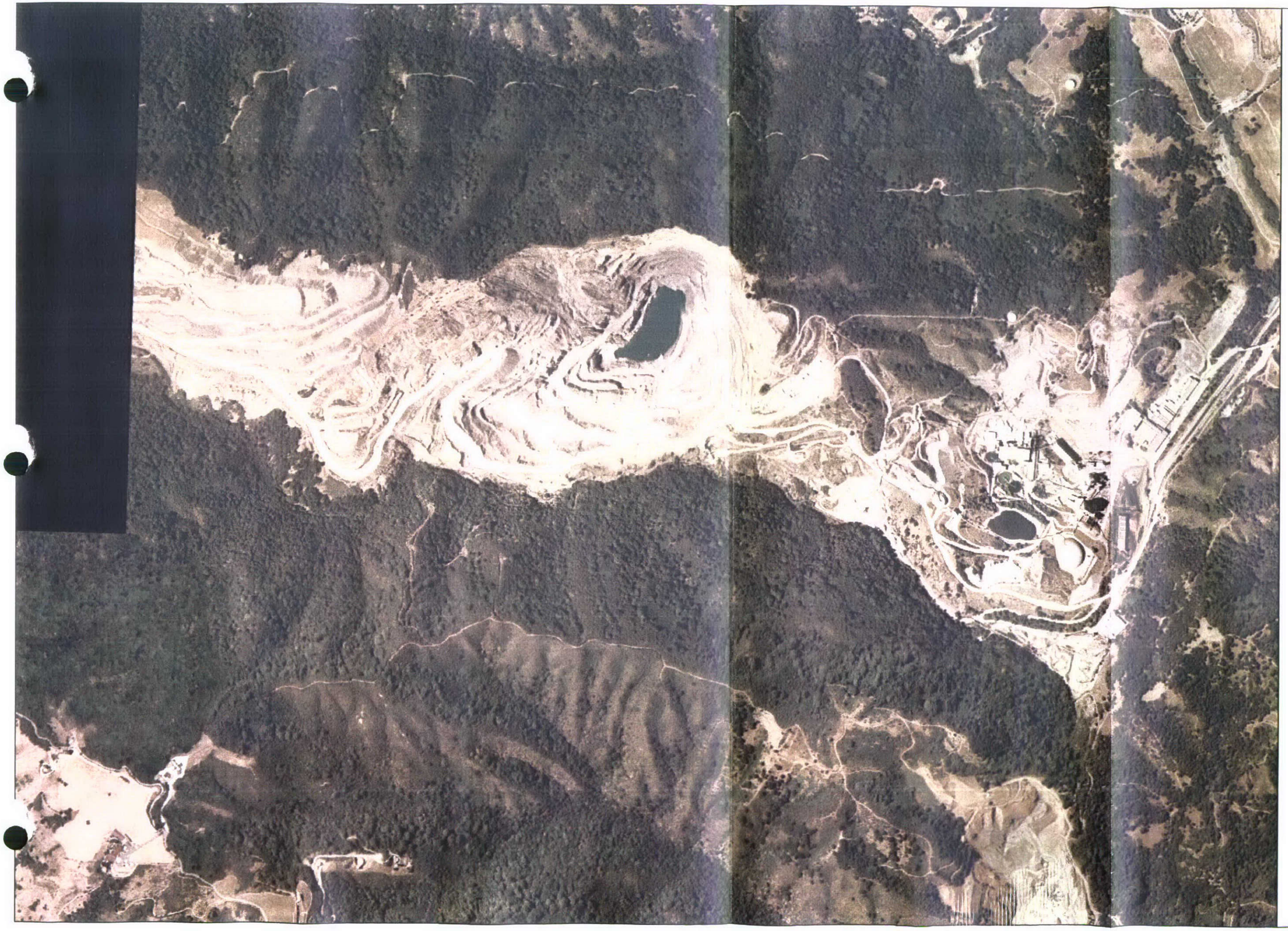


N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 2005, USDA



Permanente 2006 Aerial

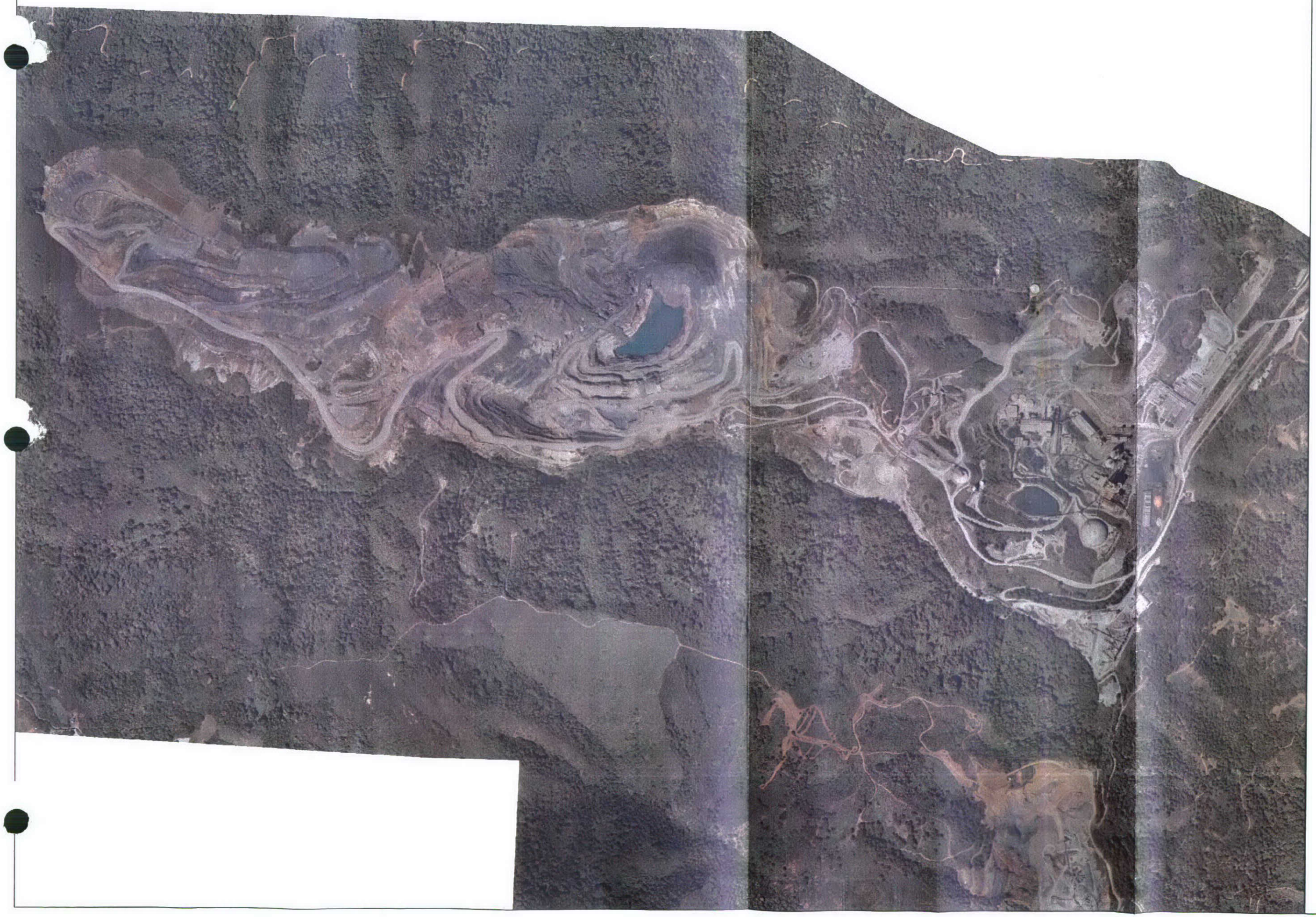
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 2006, USDA

Permanente
2007 Aerial



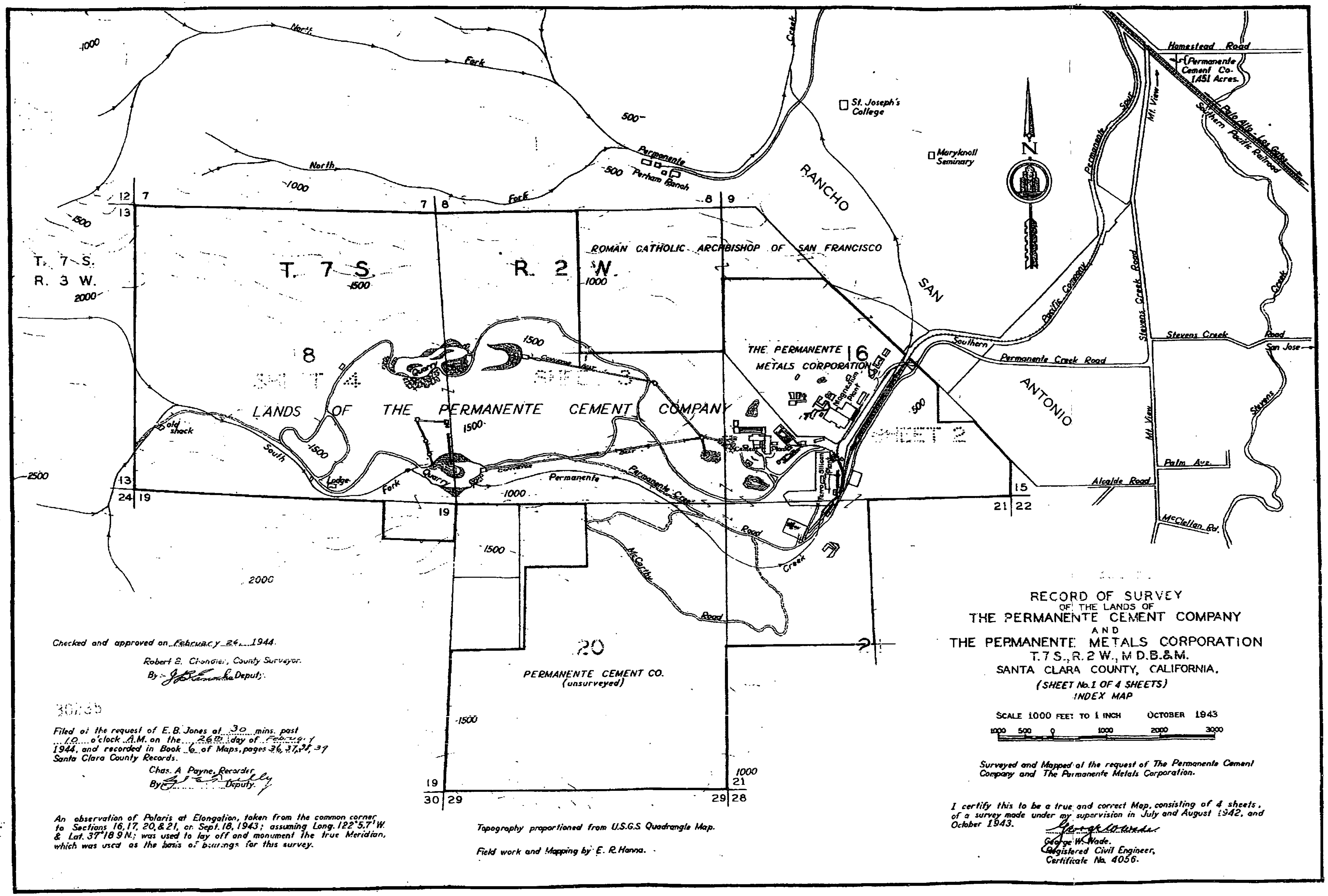
N
W E
S

Feet
0 500 1,000
1 inch equals 1,000 feet

EnviroMINE

Date: July 2007
Aerial: 2007, Flyover

36



RECORD OF SURVEY
OF THE LANDS OF
THE PERMANENTE CEMENT COMPANY
AND
THE PERMANENTE METALS CORPORATION
T. 7 S., R. 2 W., M.D.B.&M.
SANTA CLARA COUNTY, CALIFORNIA.
(SHEET No. 1 OF 4 SHEETS)
INDEX MAP

SCALE 1000 FEET TO 1 INCH OCTOBER 1943

Surveyed and Mapped at the request of The Permanente Cement Company and The Permanente Metals Corporation.

I certify this to be a true and correct Map, consisting of 4 sheets, of a survey made under my supervision in July and August 1942, and October 1943.

George W. Wade
George W. Wade.
Registered Civil Engineer,
Certificate No. 4056.

Checked and approved on February 26, 1944.

Robert E. Chandler, County Surveyor.

By: [illegible] Deputy.

30735

Filed at the request of E. B. Jones at 30 mins. past 10 o'clock A.M. on the 26th day of February 1944, and recorded in Book 6 of Maps, pages 36, 37, 38, 39 Santa Clara County Records.

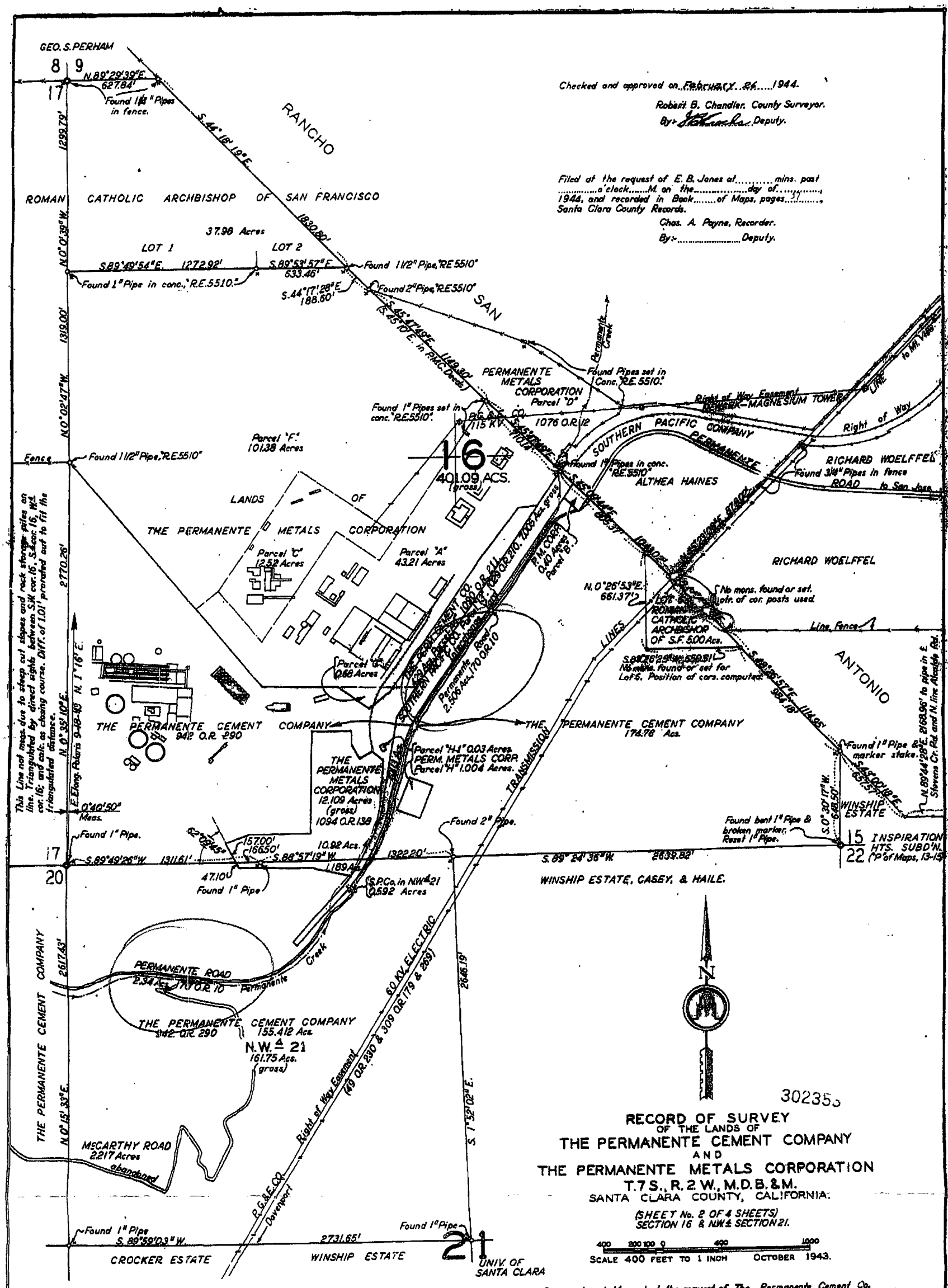
Chas. A. Payne, Recorder
By [illegible] Deputy.

An observation of Polaris at Elongation, taken from the common corner to Sections 16, 17, 20, & 21, on Sept. 18, 1943; assuming Long. 122°5.7' W. & Lat. 37°18.9 N.; was used to lay off and monument the true Meridian, which was used as the basis of bearings for this survey.

Topography proportioned from U.S.G.S. Quadrangle Map.

Field work and Mapping by E. R. Hanna.

11/23



Checked and approved on February 26 1944.

Robert B. Chandler. County Surveyor.
By: J. Kokinocha Deputy.

Filed at the request of E. B. Janes at ..... mins. past ..... o'clock ..... M. on the ..... day of ....., 1944, and recorded in Book ..... of Maps, pages ..... Santa Clara County Records.

Chas. A. Payne, Recorder.
By: ..... Deputy.

RECORD OF SURVEY
OF THE LANDS OF
THE PERMANENTE CEMENT COMPANY
AND
THE PERMANENTE METALS CORPORATION
T.7 S., R.2 W., M.D.B.&M.
SANTA CLARA COUNTY, CALIFORNIA.

(SHEET No. 2 OF 4 SHEETS)
SECTION 16 & NW¼ SECTION 21.

400 200 100 0 400 1000
SCALE 400 FEET TO 1 INCH OCTOBER 1943.

BASIS OF BEARINGS: An observation of Polaris at Elongation, taken from the common corner to Sections 16, 17, 20, & 21, on Sept. 18, 1943: assuming Long. 122°5.7' West and Lat. 37°18.9' North; was used to lay off and monument the true Meridian, which was used as the basis of bearings for this Survey.

NOTE:- Monuments shown thus ⊗ have been witnessed by a 4"x4" post, painted white, and standing 30" above ground and 12" from the monument on the side indicated.

Surveyed and Mapped at the request of The Permanente Cement Co. and The Permanente Metals Corp.

I certify this to be a true and correct Map, consisting of 4 sheets, of a survey made under my supervision in July and August 1942, and October 1943.

Geo. H. Wade.
Registered Civil Engineer,
Certificate No. 4056.

37

1123

38

FRANCES B. & GEO. S. PERHAM 235 Acres.

Found 1" Pipe and Marker Stake in heavy brush.

Found 1 1/2" Pipe at fence corner.

Found 1 1/4" Pipes in fence.

RANCHO SAN ANTONIO

N. 89°50'50" E. 2609.14' N. 89°35'10" E. 2627.10' N 89°29'30" E. 627.84'

Fence

THE PERMANENTE CEMENT COMPANY
942 O.R. 290
N.W.4
LOTS 1, 2, 3, & 4.
152.07 Acres

ROMAN CATHOLIC ARCHBISHOP OF SAN FRANCISCO
N.E.4
157.58 Acres

N. 3°07'40" W. 1349.89'

N. 3°06'40" W. 1291.87'

N. 0°14'20" E. 1298.71'

N. 0°16'50" E. 1300.10'

1299.79'

S. 0°03'30" E.

S. 0°02'47" E. 1318.00'

Found 1" Pipe.

Found 1" Pipe in fence.

Found 1" Pipe in conc. "R.E. 5510"

Found 1" Pipe. Since Survey, pipe has been removed in quarrying.

Upper QUARRY

Crusher

Found 1" Pipe. Pipe removed and reset after construction of conveyor.

Road

Conveyor

S. 88°50'50" W. 2454.12'

N. 89°53'30" W. 2640.13'

PERMANENTE METALS CORPORATION

Found 1 1/2" Pipe, "R.E. 5510"

624.05 ACS.

Clay Pit

THE PERMANENTE CEMENT COMPANY
942 O.R. 290
S.2
314.40 Acres (gross)
309.83 Acres net

This line triangulated by direct sights between E¼ cor. & S.E. cor. Section 17 & S¼ cor. Section 16. (see Sheet No. 2)

2770.26'

UPPER 2676.20'

This line triangulated by direct sights between W¼ cor., S.W. cor. and center, of Section 17.

Private Roads

Lower Road

Crusher

Conveyors

Roman Catholic Archbishop to Permanente Cement Company
6-20-41 1046 O.R. 265

Tunnel

Conveyor

Rock Storage

CEMENT

PLANT

PERMANENTE

County Road 4.57 Acres. 170 O.R. 10

ROAD Abandoned

Mesa

Water Tank

Pond

Crusher

Found 1" Pipe & scribed 4"x4" Post

N. 89°22'40" W. 4919.94'

Found 1" Pipe.

Sena Campbell 74.95 Acres

Jules Marius Bernard 42.33 Acres

THE PERMANENTE CEMENT COMPANY
8-6-42

NOTE: On the south line of this Section, so many monuments were found, that it was impossible to definitely identify the quarter and quarter-quarter corners without a survey of Section 20. Shown hereon is a plat of the field notes for this line.

NOTE: Monuments shown thus ⊙ have been witnessed by a 4"x4" post painted white and standing 30" above ground and 12" from the monument on the side indicated.

BASIS OF BEARINGS: An observation of Polaris at Elongation, taken from the common corner to Sections 16, 17, 20, & 21, on Sept. 18, 1943; assuming Long. 122°5.7' West and Lat. 37°18.5' North; was used to lay off and monument the true Meridian, which was used as the basis of all bearings for this Survey.

Filed at the request of E. B. Jones at ..... mins. past ..... o'clock ..... M. on the ..... day of ....., 1944, and recorded in Book ..... of Maps, pages 37 ..... Santa Clara County Records.

Chas. A. Payne, Recorder.
By: ..... Deputy.

Checked and approved on February 26, 1944.

Robert B. Chandler, County Surveyor.
By: ..... Deputy

N

302350

RECORD OF SURVEY
OF THE LANDS OF
THE PERMANENTE CEMENT COMPANY
AND
THE PERMANENTE METALS CORPORATION
T. 7 S., R. 2 W. M.D.B. & M.
SANTA CLARA COUNTY, CALIFORNIA.
(SHEET No. 3 OF 4 SHEETS)
SECTION 17

SCALE 400 FEET TO 1 INCH OCTOBER 1943

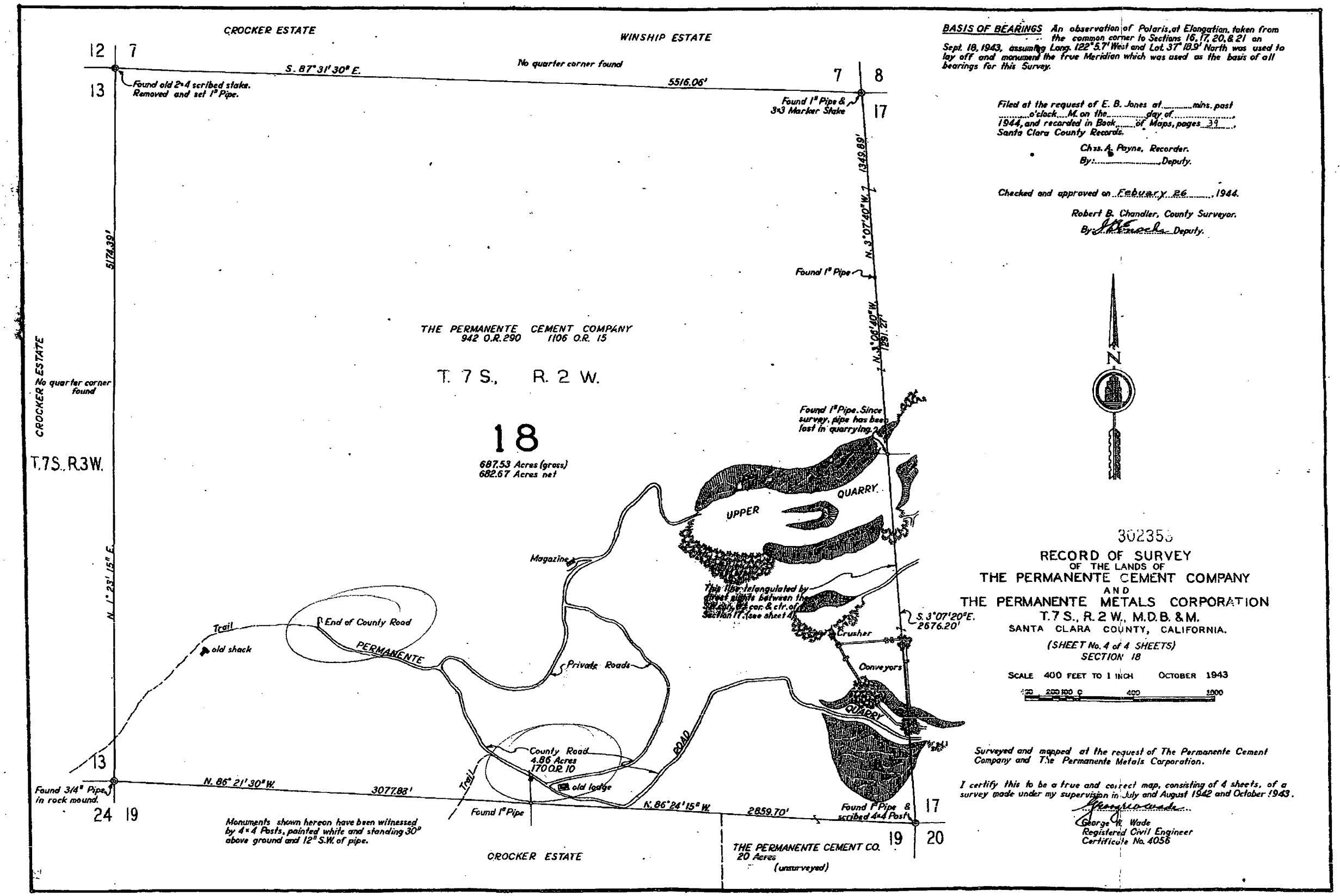
400 200 100 0 400 1000

Surveyed and mapped at the request of The Permanente Cement Company and The Permanente Metals Corporation.

I certify this to be a true and correct map, consisting of 4 sheets, of a survey made under my supervision in July and August 1942 and Oct. 1943.

George W. Wade.
Registered Civil Engineer.
Certificate No. 4056.

11/23



BASIS OF BEARINGS An observation of Polaris, at Elongation, taken from the common corner to Sections 16, 17, 20, & 21 on Sept. 18, 1943, assuming Long. 122° 5.7' West and Lat. 37° 18.9' North was used to lay off and monument the true Meridian which was used as the basis of all bearings for this Survey.

Filed at the request of E. B. Jones at ..... mins. past ..... o'clock ..... M. on the ..... day of ..... 1944, and recorded in Book ..... of Maps, pages 39 ..., Santa Clara County Records.

Chas. A. Payne, Recorder.
By: ..... Deputy.

Checked and approved on Febuary 26 ..... 1944.

Robert B. Chandler, County Surveyor.
By: J. B. Kruschke Deputy.

302353

RECORD OF SURVEY
OF THE LANDS OF
THE PERMANENTE CEMENT COMPANY
AND
THE PERMANENTE METALS CORPORATION
T. 7 S., R. 2 W., M.D.B. & M.
SANTA CLARA COUNTY, CALIFORNIA.

(SHEET No. 4 of 4 SHEETS)
SECTION 18

SCALE 400 FEET TO 1 INCH OCTOBER 1943

200 100 0 400 1000

Surveyed and mapped at the request of The Permanente Cement Company and The Permanente Metals Corporation.

I certify this to be a true and correct map, consisting of 4 sheets, of a survey made under my supervision in July and August 1942 and October 1943.

George W. Wade
Registered Civil Engineer
Certificate No. 4056

11/23