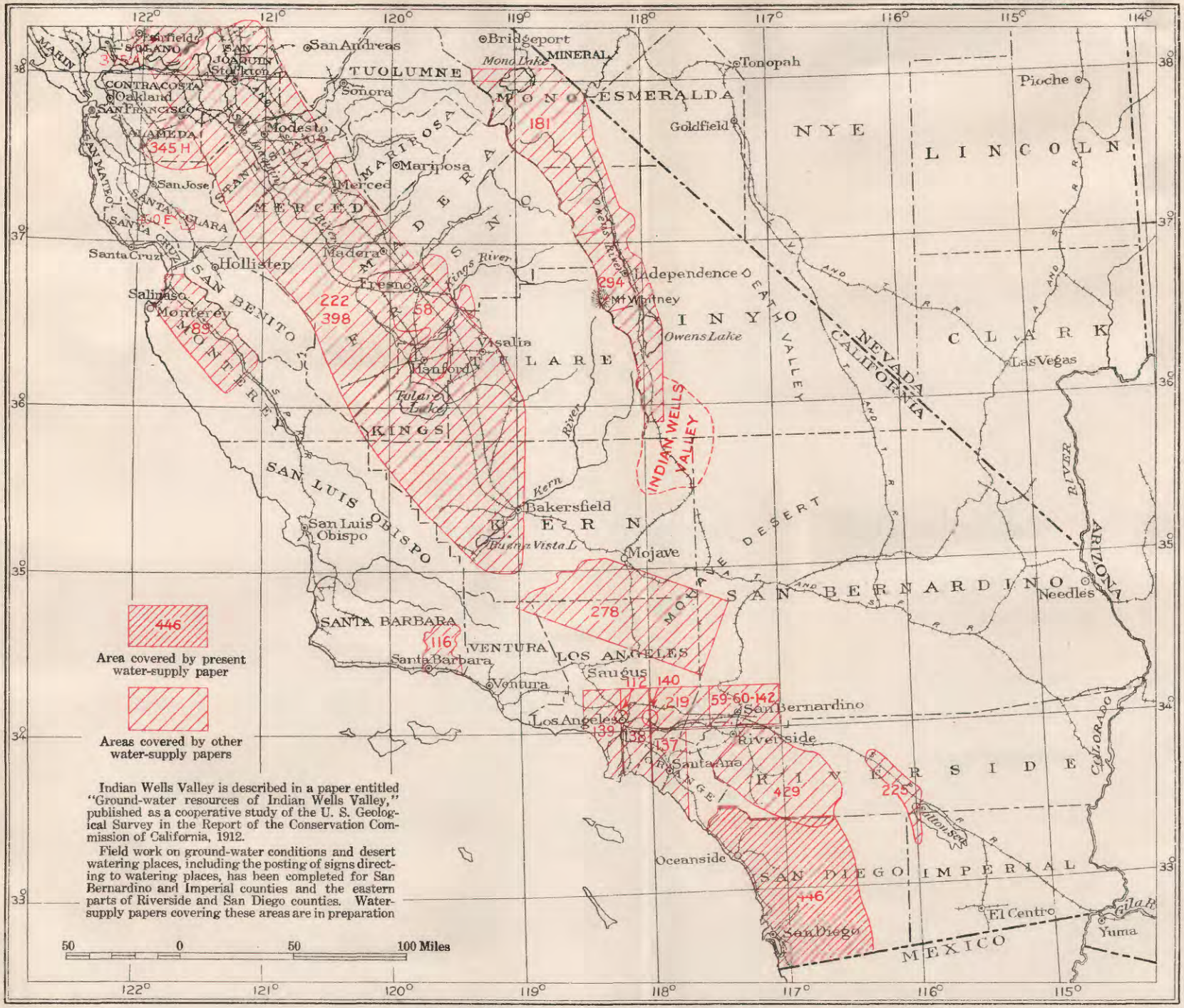


SKETCH MAP OF PART OF CALIFORNIA

Showing areas treated in the present report and in other water-supply papers of the U. S. Geological Survey relating to ground water

A. DIABASE DIKE IN EOCENE SEDIMENTS AT LA JOLLA.

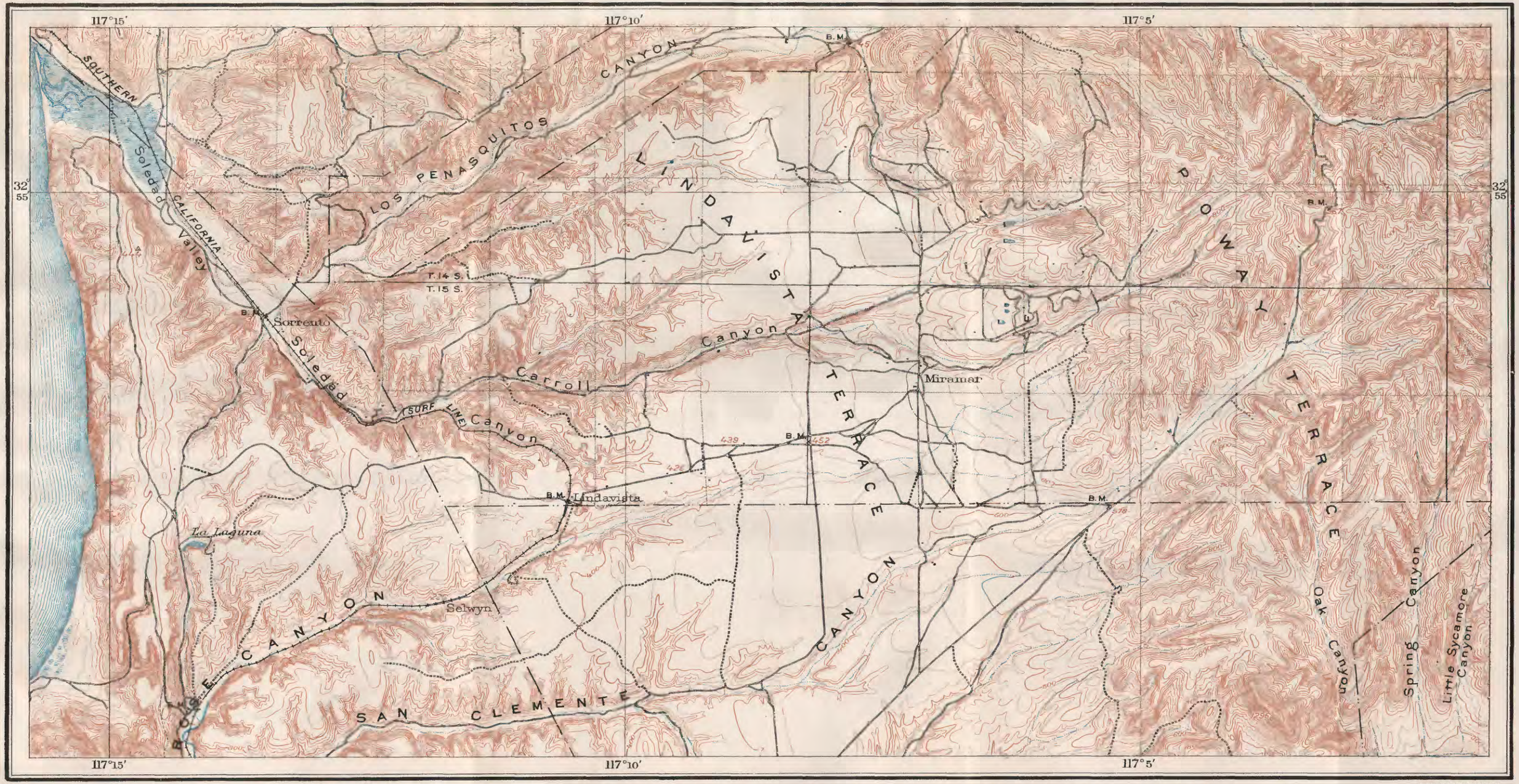
B. SEA CLIFFS OF CRETACEOUS ROCKS (CHICO FORMATION) AT LA JOLLA.

Shows caves produced by wave erosion.

A. WEST EDGE OF LINDA VISTA MESA NEAR ENCINITAS.

Shows sea cliff. Looking north.

B. BEACH PEBBLES DEPOSITED BY STRANDED SEAWEED, ENCINITAS.



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TOPOGRAPHIC MAP OF A PART OF LA JOLLA QUADRANGLE, CALIFORNIA

Showing erosional features of Lindavista and Poway Terraces

Scale $\frac{1}{62,500}$

1 ½ 0 1 2 3 Miles

Contour interval 25 feet.

Datum is mean sea level.

1919.

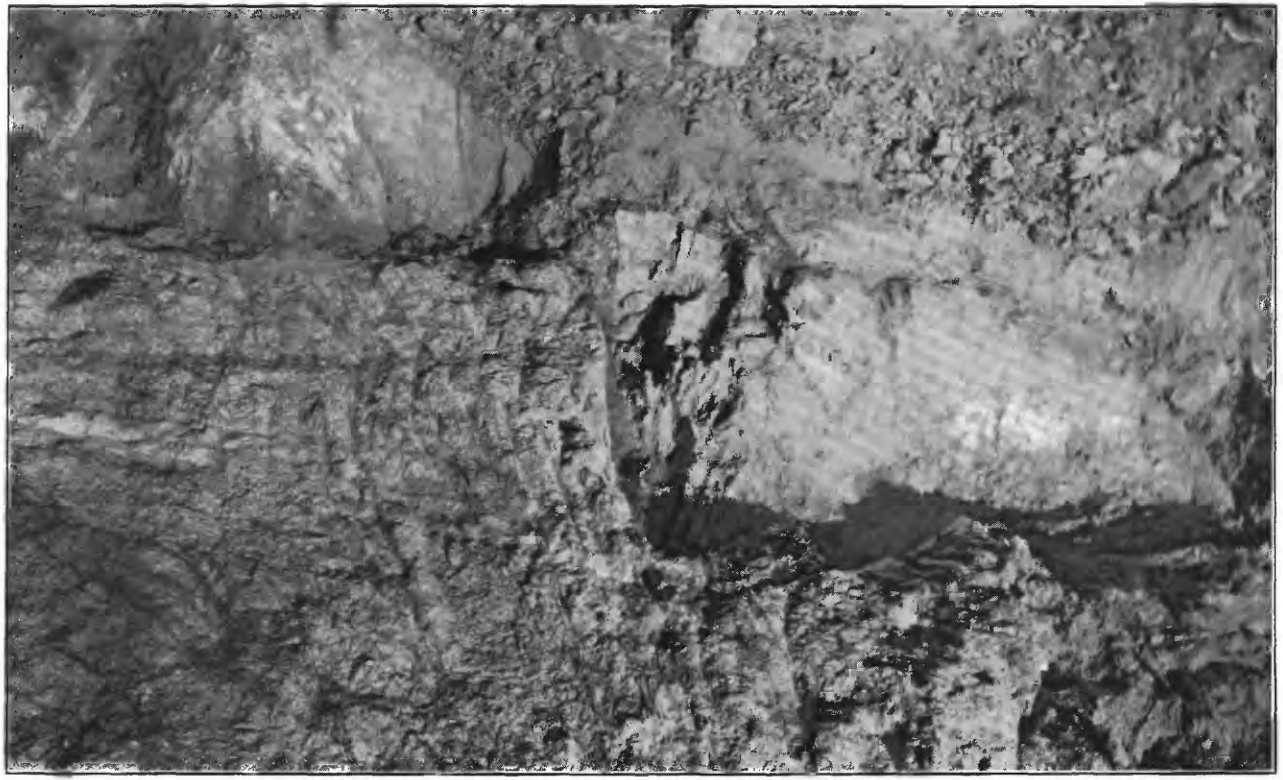
MOUNDS ON LINDA VISTA TERRACE.

SANTA MARGARITA RIVER VALLEY BEFORE THE FLOOD OF JANUARY, 1916.
View in the SE. ¼ sec. 12, T. 9 S., R. 4 W.

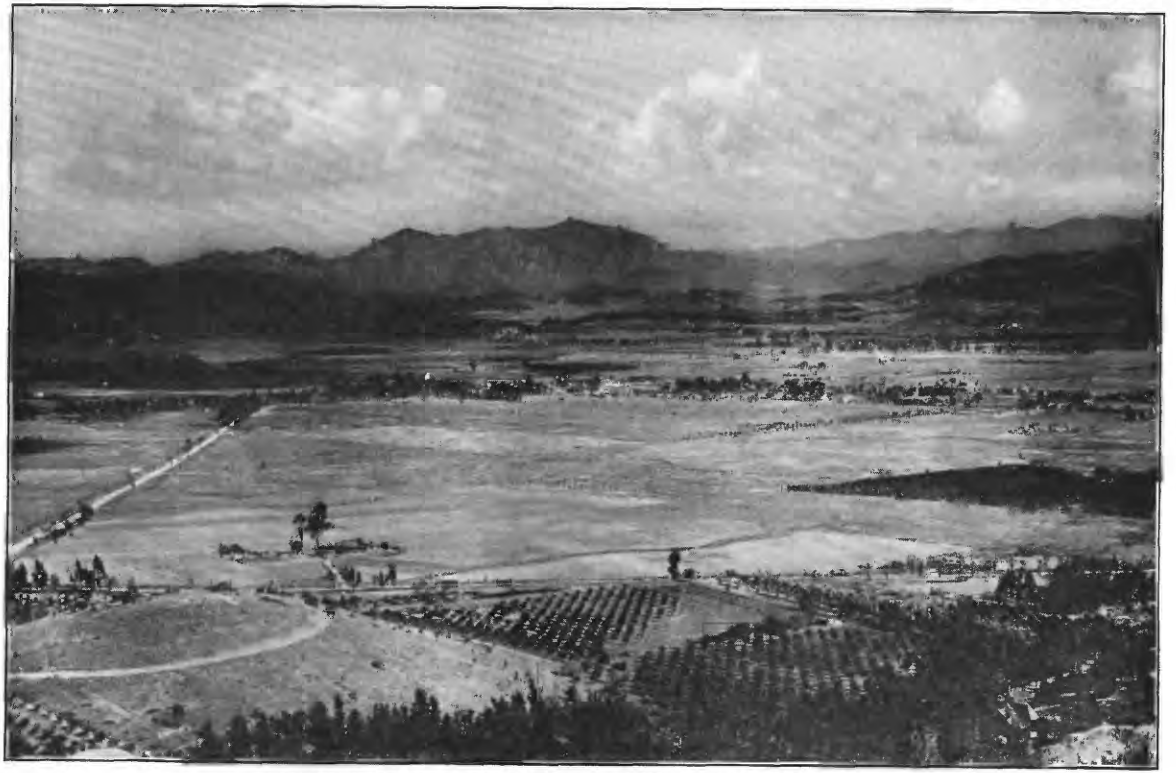
SANTA MARGARITA RIVER VALLEY AFTER THE FLOOD OF JANUARY, 1916.
View taken at same locality as that shown in Plate IX.

LANDSLIDE IN WALL OF MISSION VALLEY.

Shows a phase of erosion in arid regions.



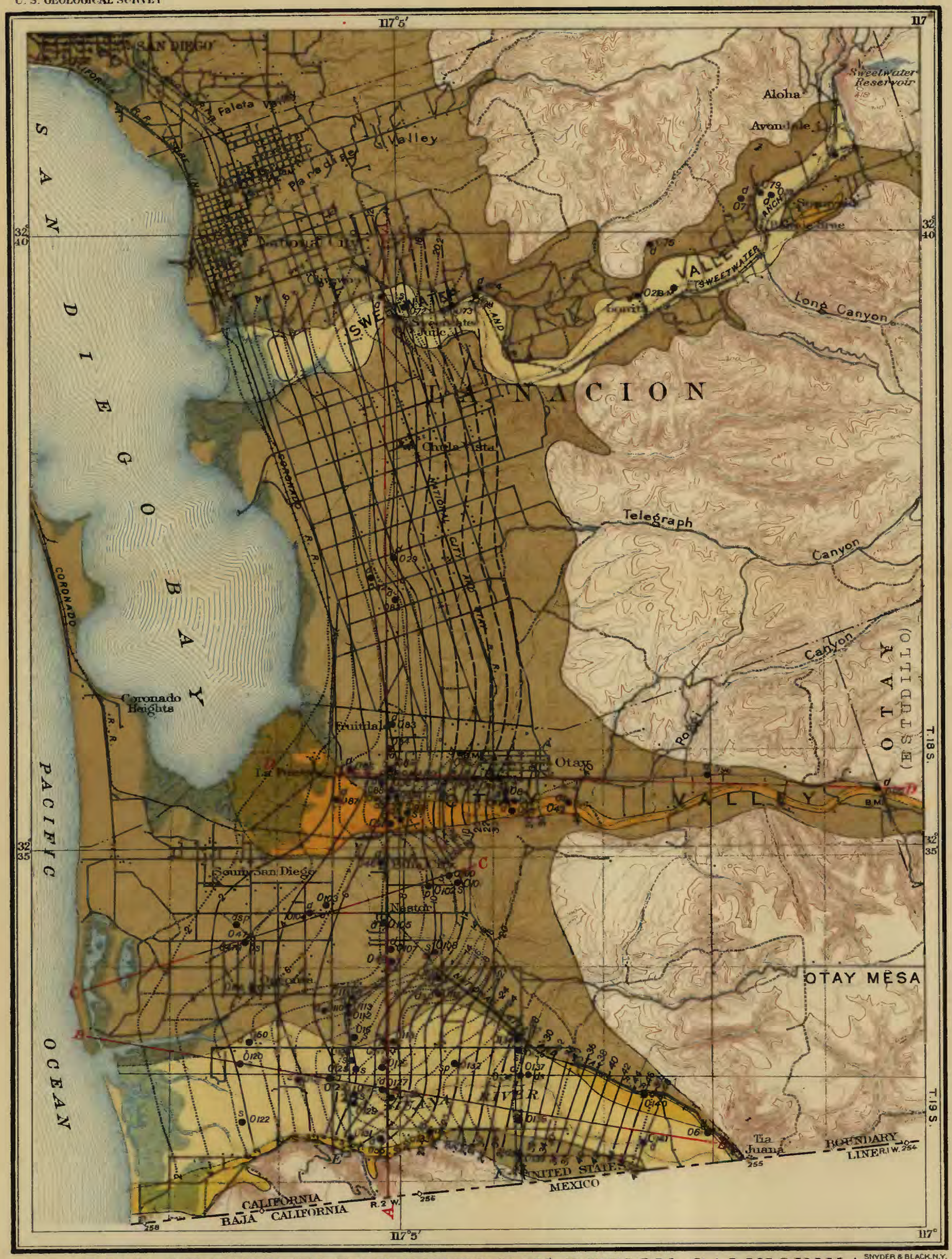
SMALL FAULT EXPOSED AT THE HIMALAYA MINE, NEAR MESA GRANDE.



EL CAJON VALLEY, LOOKING NORTHEAST FROM GROSSMONT.

A. PALA CONGLOMERATE AT PALA.

B. PORPHYRITIC DIKE CUTTING TERTIARY SEDIMENTS, LOS PENASQUITOS CANYON.



EXPLANATION

Deep fill of major valleys

Shallow fill of major valleys

Fill of minor valleys

San Diego formation underlying Nestor and Chula Vista terraces

Contours of water table, Jan. 6, 1915
Contour interval 2 feet
Datum is mean sea level

Approximate contours of water table, Jan. 6, 1915
Contour interval 2 feet
Datum is mean sea level

Contours of water table, Mar. 1, 1915
Contour interval 2 feet
Datum is mean sea level

Observation well

Well for which log is available

Tested pumping plant

Geologic cross section

Section showing water table

MAP OF PART OF SAN DIEGO BAY REGION, CALIFORNIA

Showing principal water-bearing formations, contours of water table, and tested pumping plants

Scale 1/62500

1 ½ 0 1 2 Miles

Contour interval 25 feet.

Datum is mean sea level.

1919.

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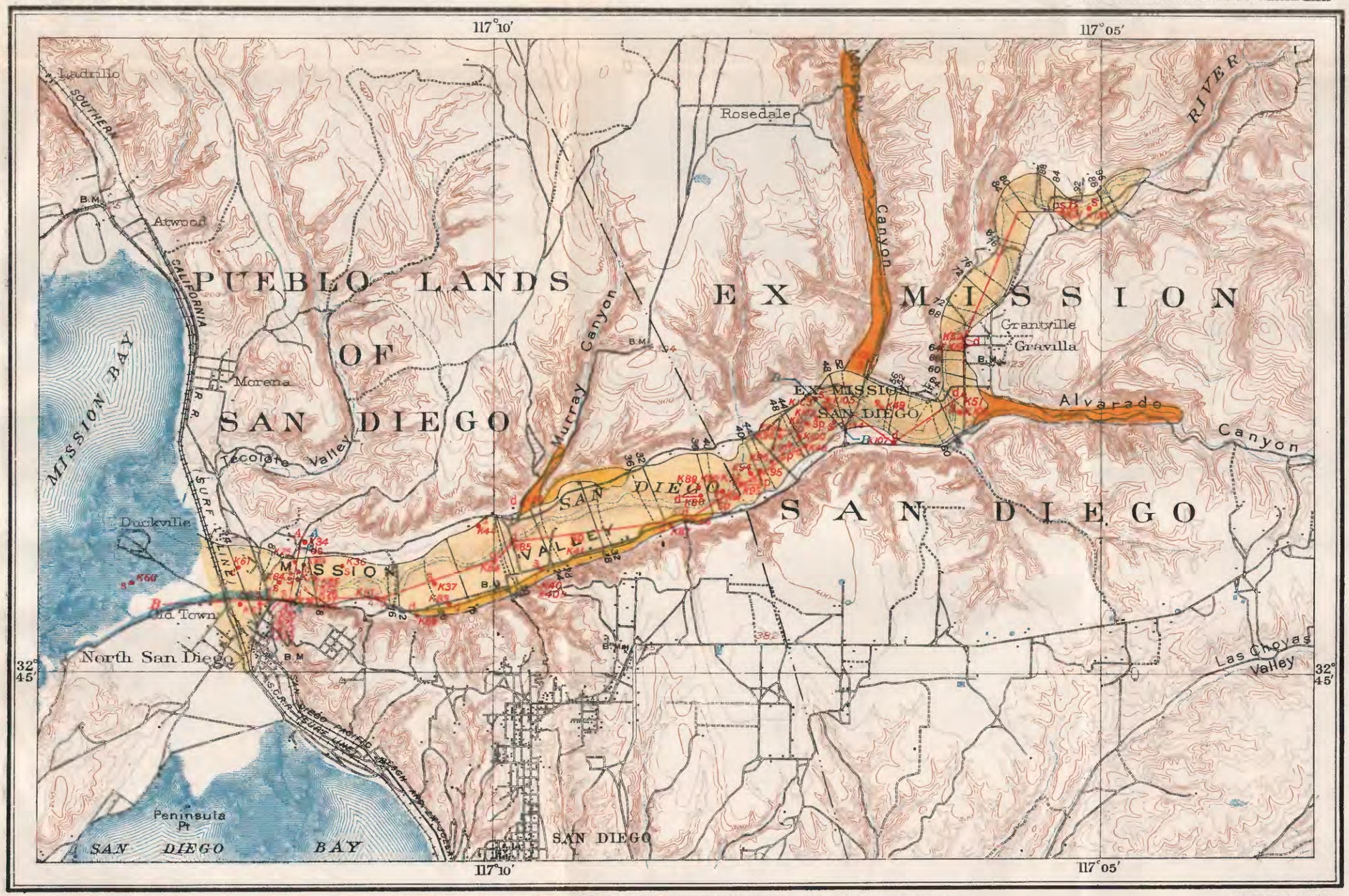


EXPLANATION

- Deep fill of major valleys
- Shallow fill of major valleys
- Fill of minor valleys
- Contours of water table October 18, 1914
- Contours of water table February 18, 1915
- d — Observation well
- s — Well for which log is available
- p — Tested pumping plant
- A — A — Geologic cross section
- A — A — Section showing water table

MAP OF MISSION VALLEY, CALIFORNIA

Showing principal water-bearing formations, contours of the water table, observation wells, and tested pumping plants

Scale 1/62500

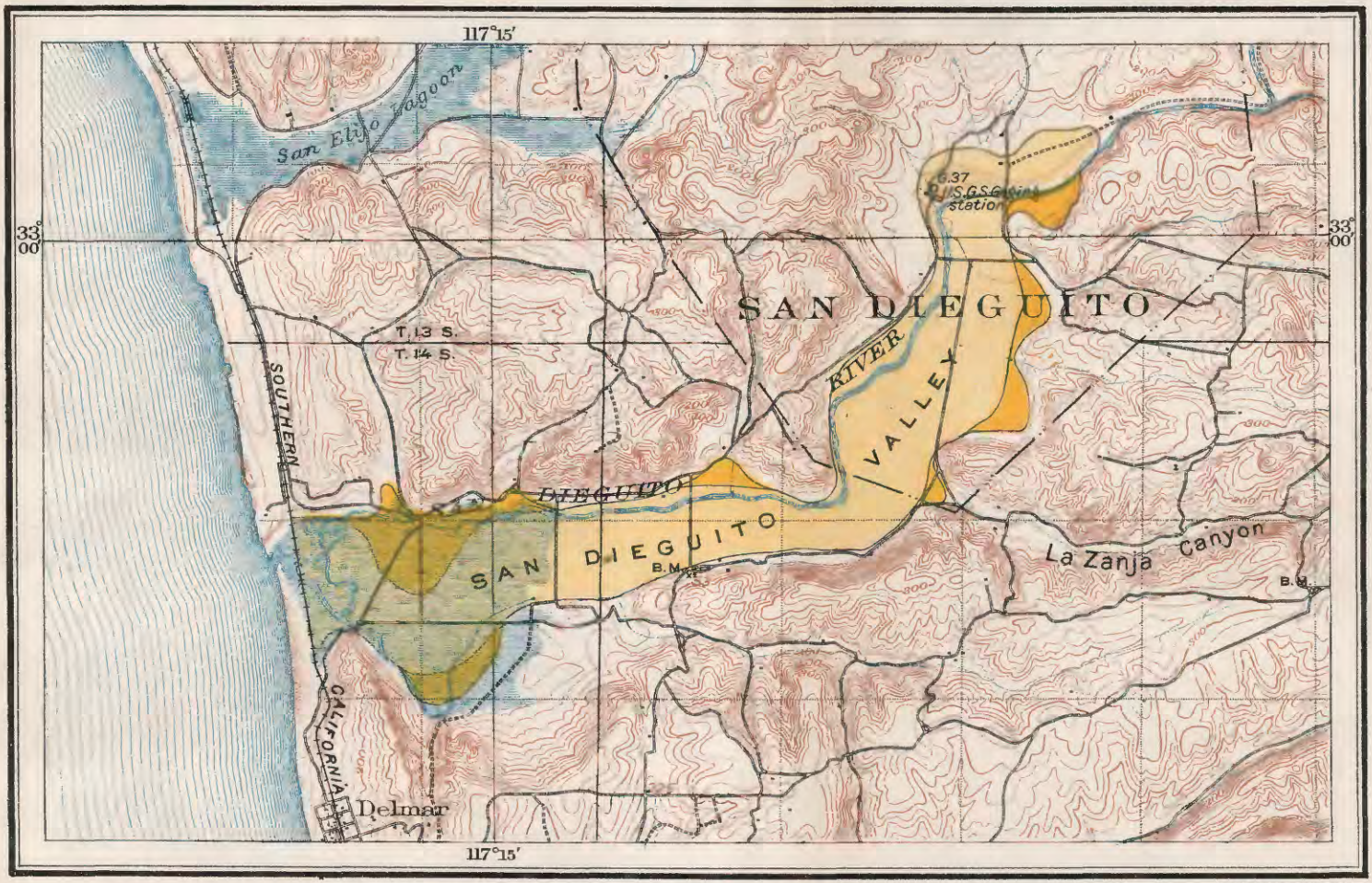
1 ½ 0 1 2 Miles

Contour interval 25 feet.

Datum is mean sea level.

1919.

SNYDER & BLACK, N.Y.



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MAP OF SAN DIEGUITO VALLEY, CALIFORNIA

Showing valley fill and location of observation well and gaging station

Scale 1/62,500

1 ½ 0 1 2 Miles

Contour interval 25 feet.
Datum is mean sea level.
1919.

EXPLANATION

Deep valley fill

Shallow valley fill

G37 Observation well

MAP OF SAN PASQUAL AND SANTA MARIA VALLEYS CALIFORNIA

Showing principal water-bearing formations and observation wells

Scale 1/62,500

1 ½ 0 1 2 Miles

EXPLANATION

Deep fill of principal valley

Fill of minor valleys

Decomposed granite

d Observation well

s Well for which log is available

ESCONDIDO

RINCON DEL DIABLO

SAN BERNARDO

VALLE DE PAMO

SAN PASQUAL VALLEY

SANTA MARIA VALLEY

San Pasqual

Bernardo

Ramona

Rincon Reservoir

Durasnitos Spring

Woodson Mtn

Bernardo Mtn

Battle Mtn.

San Pasqual

Santa Maria

Pamo Valley

Roden Canyon

Ysabel Creek

Holmes Creek

San Dieguito

R. 1 W.

R. 1 E.

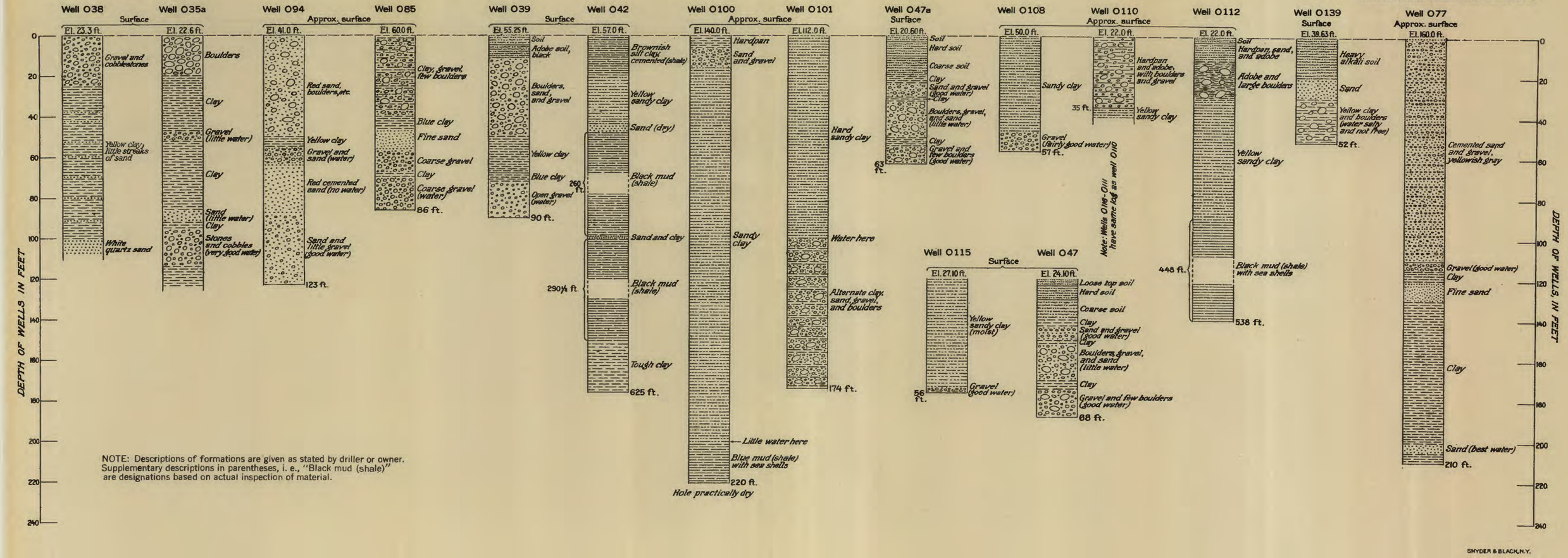
T. 12 S.

T. 13 S.

117°

116°50'

33°05'



NOTE: Descriptions of formations are given as stated by driller or owner. Supplementary descriptions in parentheses, i. e., "Black mud (shale)" are designations based on actual inspection of material.

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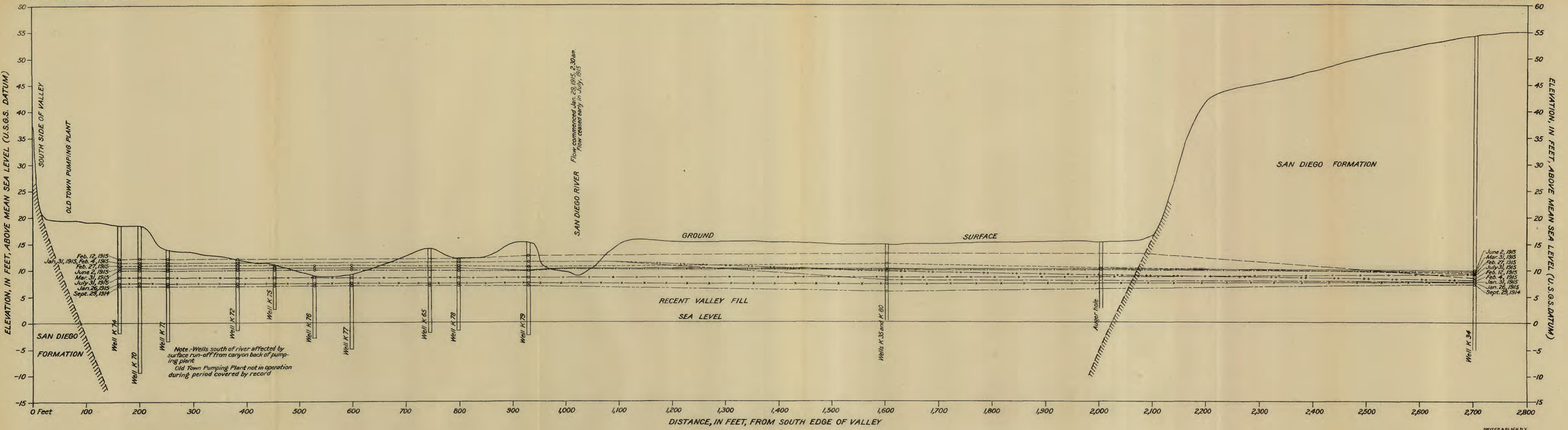
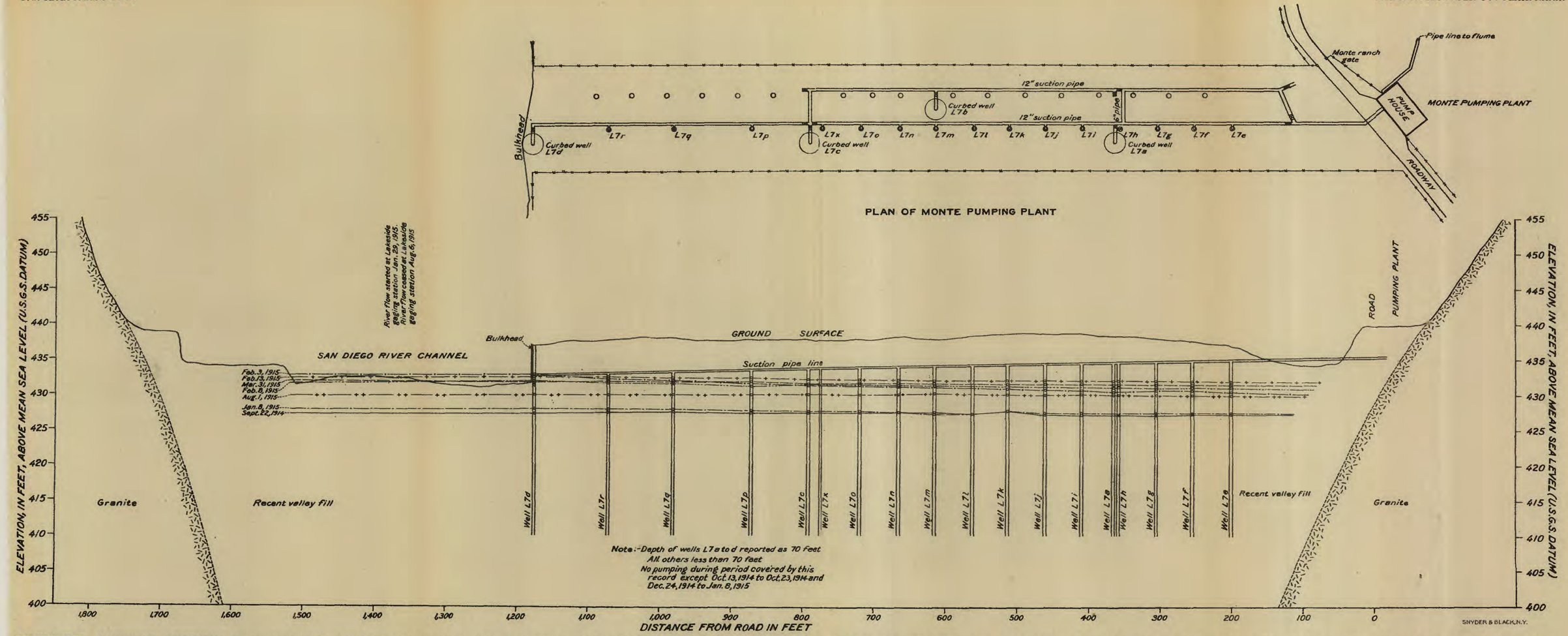
SECTIONS OF WELLS IN SAN DIEGO FORMATION IN VICINITY OF SAN DIEGO BAY.

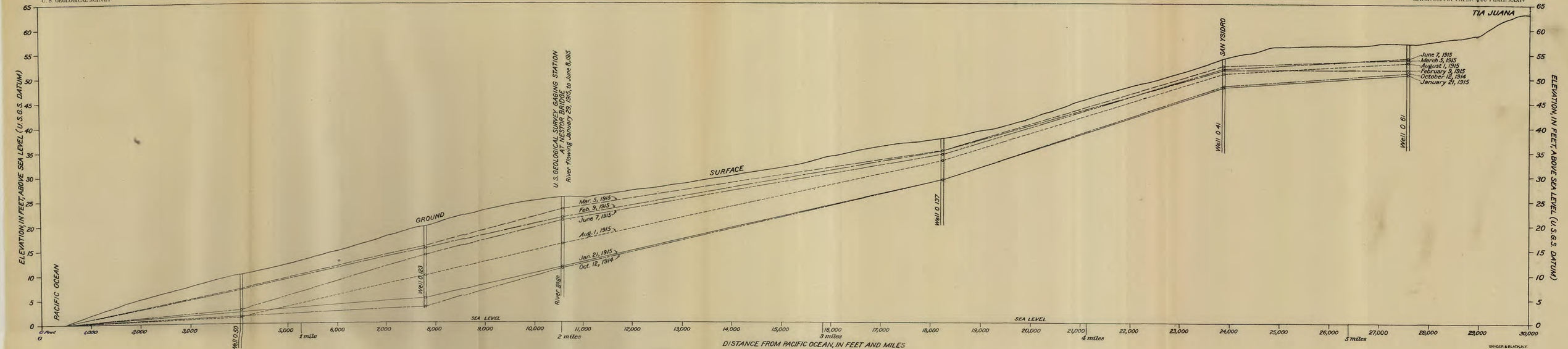


SECTION ACROSS MISSION VALLEY AT OLD TOWN PUMPING PLANT, SHOWING PROFILES OF WATER TABLE IN DIFFERENT SEASONS OF THE YEAR, 1914-1915. (Red line A-A, Plate XXI)



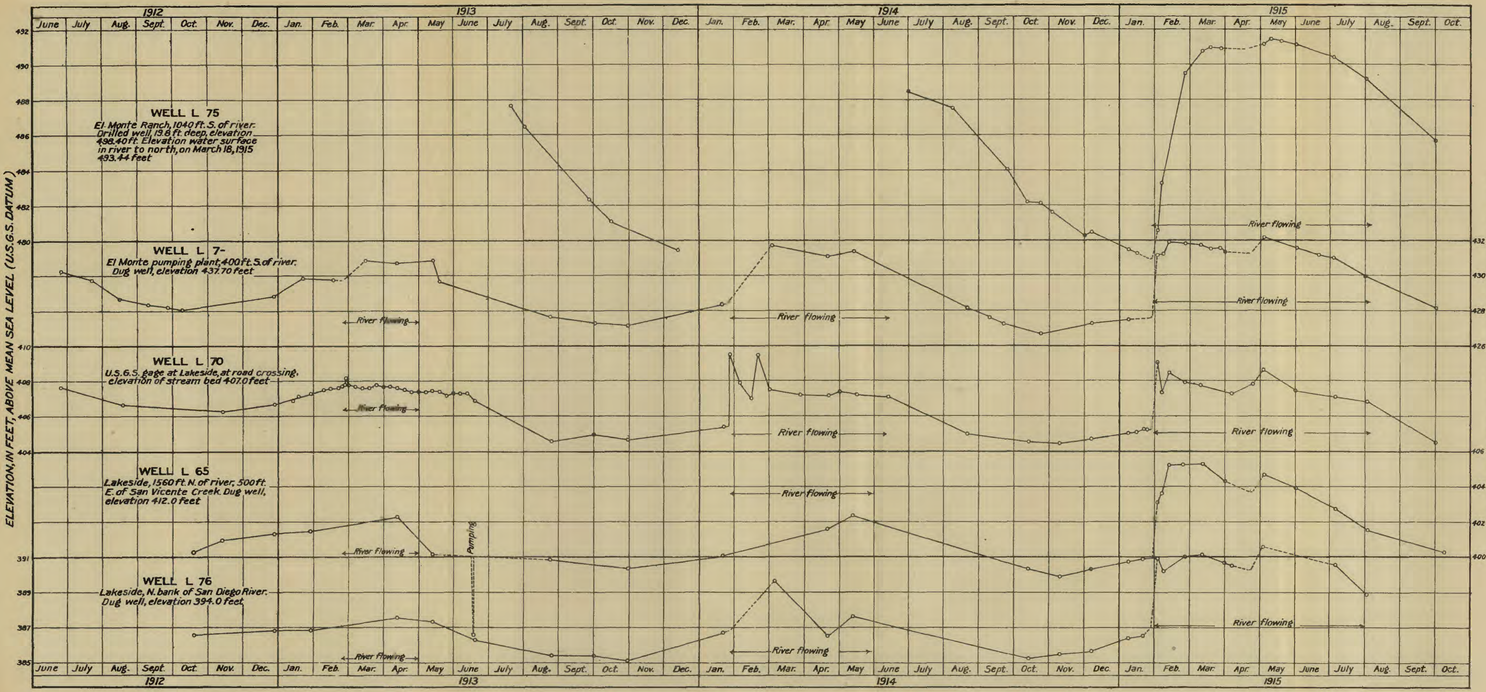
SECTION ACROSS UPPER SAN DIEGO RIVER VALLEY AT MONTE PUMPING PLANT, SHOWING FLUCTUATIONS OF WATER TABLE, SEASON 1914-1915, AND PLAN OF PUMPING PLANT.

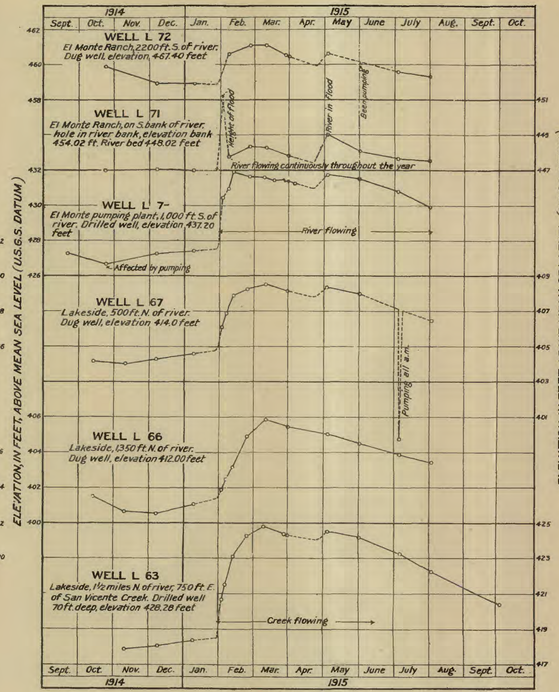
(Line A-A, Plate XXII)



LONGITUDINAL PROFILES OF TIA JUANA VALLEY, SHOWING FLUCTUATIONS OF WATER TABLE, SEASON 1914-1915.

(Red line B-B, Plate XX)





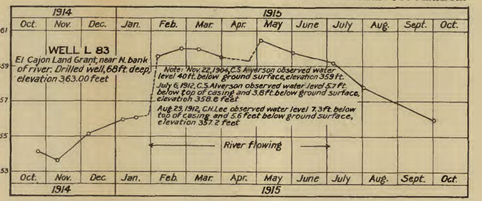


DIAGRAM SHOWING
FLUCTUATIONS OF WATER TABLE
IN OBSERVATION WELLS
IN UPPER SAN DIEGO RIVER VALLEY
1912 - 1915

NOTE: Dotted lines connecting observations indicate approximate fluctuations during periods for which record is insufficient to show detail.

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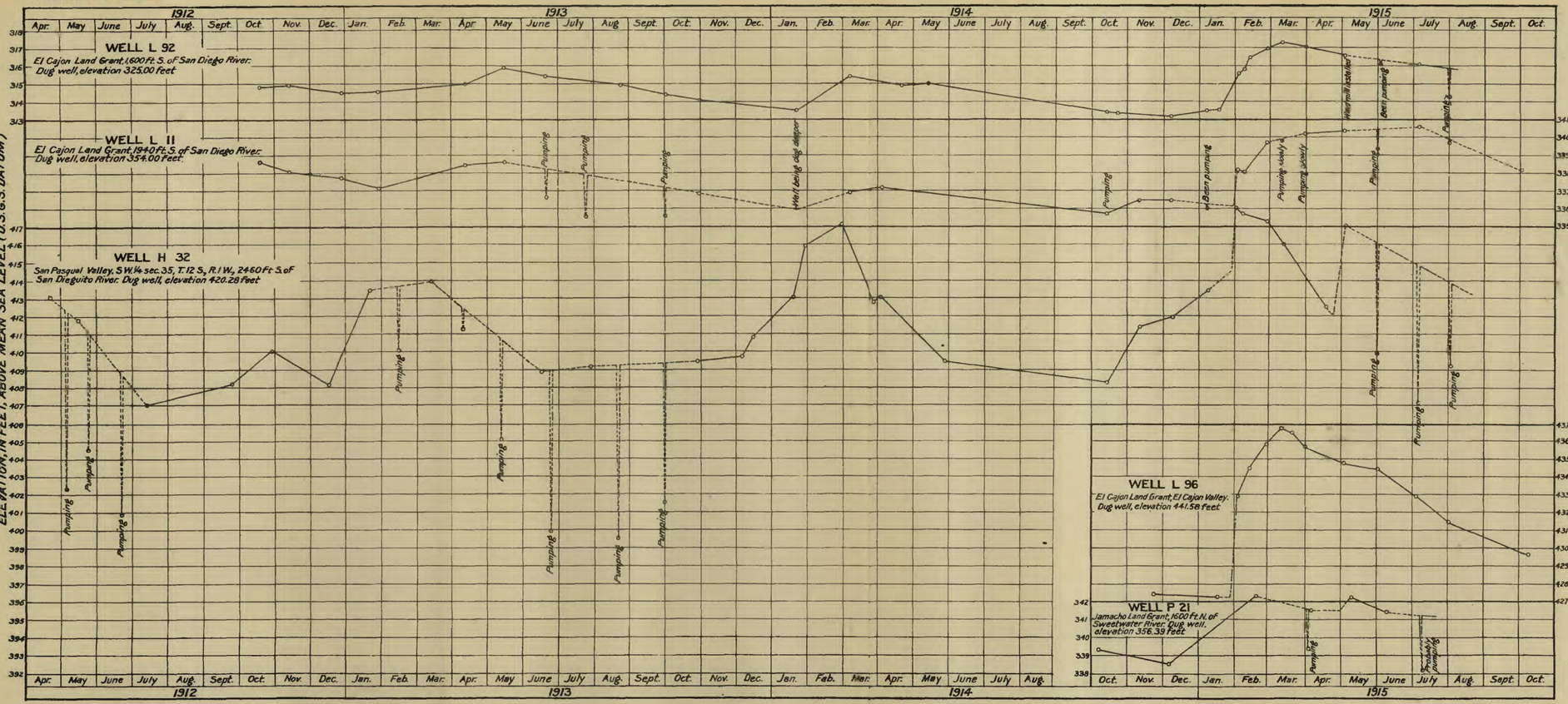

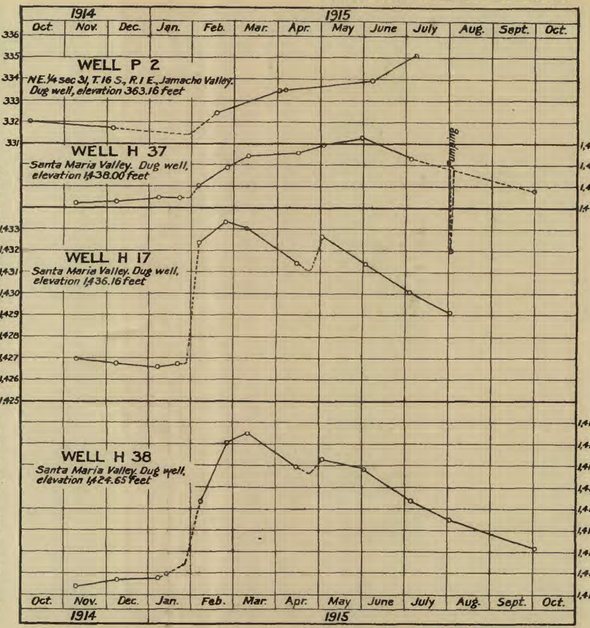

DIAGRAM SHOWING FLUCTUATIONS OF WATER TABLE IN OBSERVATION WELLS IN GRANITE AREAS

1912 - 1915

NOTE: Dotted lines connecting observations indicate approximate fluctuations during periods for which record is insufficient to show detail.

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