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COAST ROUTE

From Los Angeles, California, to San Francisco, California

Base compiled from United States Geological Survey Atlas Sheets, from railroad alignments and profiles supplied by the Southern Pacific Company and from additional information collected with the assistance of this company

UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, DIRECTOR

David White, Chief Geologist

R. B. Marshall, Chief Geographer

BULLETIN 614

1915

Each quadrangle shown on the map with a name in parenthesis in the lower left corner is mapped in detail on the U. S. G. S. Topographic Sheet of that name.

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CALIFORNIA Scale 500,000 Approximately 8 miles to 1 inch Contour interval 200 feet ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL The distances from Los Angeles, California are shown every 10 miles The crossties on the railroads are spaced I mile apart Kester PACIFIC Port Los Angeles Santa Monica Port Ballona EXPLANATION Sea-beach deposits (sand and gravel) and stream deposits (mainly fine alluvium) Quaternary Early Quater-nary, Pliocene, and late Miocen Soft conglomerates, sands, and clays (Fernando formation) Mainly light-colored shale of Monterey group, underlain by sandstone and conglomerate (Vaqueros sandstone) of Monterey group and reddish-brown and green sand (Sespe Miocene and Los Alamitos ## 15 .P D Lava and intruded masses (basalt), with fragmental volcanic material (tuffs) Chiefly Miocene Sandstone with some conglomerate and shale (Topatopa formation) Eocene Conglomerate overlain by sandstone and shale (Chico formation) Cretaceous G Granite, gneiss, schist, and slate uncon-formably underlying the Cretaceous Pre-Cretaceous 118°30

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; 63d Cong., 3d Sess.

SHEET 1A



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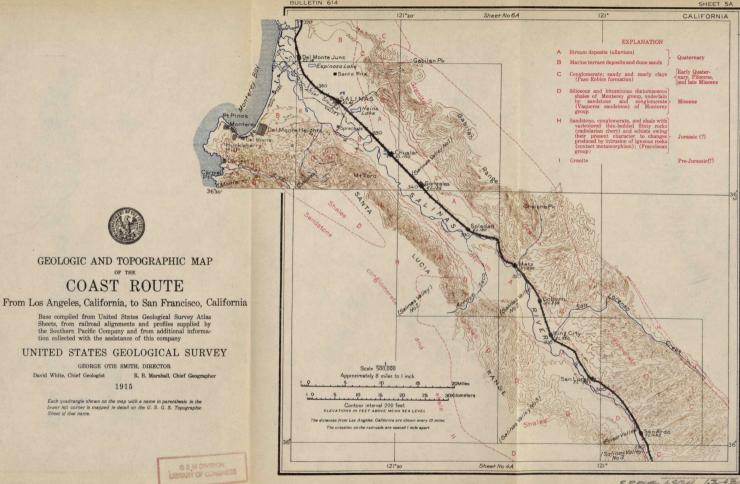
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G & M DIVISION LIBRARY OF CONGRESS **BULLETIN 614** SHEET 4A 121° Sheet No 5A 120'30' CALIFORNIA EXPLANATION A Stream deposits (gravel and fine alluvium) Marine terrace deposits and dune sand Conglomerate, sandy and marly clays (Paso Robles formation), sandstone, flinty shale, and volcanic ash (Pismo and Santa Margarita formations) D Siliceous and bituminous diatomaceous shales of Mon-terey group underlain by sandstone and conglomerate (Vaqueros sandstone of Monterey group) Lava flows and fragmental volcanic material (rhyolite tuff) in shale of Monterey group, with various intrusive dike rocks Chiefly Mioceney Sandstone with some conglomerate and shale (Chico for-mation), underlain by dark thin-bedded sandstones (Knoxville formation) Cretaceous Intrusive igneous rocks and derivatives (diabase and serpentine) (pre-Chico but post-Franciscan) Jurassie (?) Sandstone, conglomerate, and shale, with varicolored thin-bedded flinty rocks (radiolarian chert), and schists owing their present character to changes produced by intrusion of igneous rocks (contact metamorphism) (Franciscan group) 1 Granite Point Ester Scale 500,000 Approximately 8 miles to 1 inch Contour interval 200 feet ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL The distances from Los Angeles. California are shown every 10 miles The crossties on the railroads are spaced I mile apart Sheet No 3A 120°30 SPEAL 6824 H DOG 1696 LANDENG LAME LABORATE OBBY IL House Doc. ; 63d Cong., 3d Sess.



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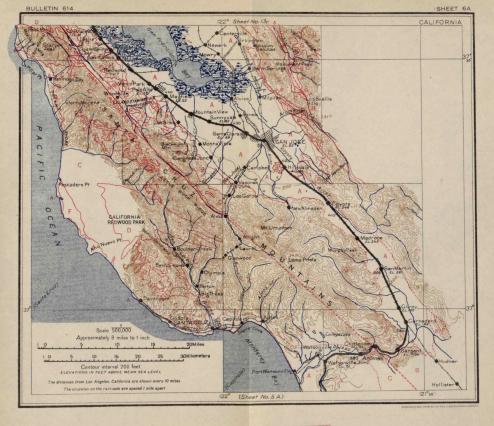
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EXPLANATION A Stream deposits (alluvium), sand dunes, and beach sands Quaternary

В	Fresh-water gravels, sands, and clays (Santa Clara for- mation); marine clay, sandstone, and conglomerate (Merced formation)	Early Qua- ternary and Pliocene
С	Conglomerate, anadatone, and shale (Purisima and Santa Margarita formations), underlain by chalky bituminous shale, in places containing flinty layers, and by massive anadatone (upper part of Monterey group); underlain by heavy-bedded sandatone and conglomerate (Vaqueros sandatone) of Monterey group (Moonene). At base clayer shales with some fine-grained sandatone (San Loremos formation, Oligoenee)	Miocene and Oligocene
D	Hard sandstone (Tejon formation); chiefly conglom- erate with sandstone; underlain by shale and thin limestone (Martinez formation)	Eocene
E.	Lava flows (basait and rhyolite)	Tertiary
F	Massive yellowish sandstone with conglomerate at bottom (Chico formation, Upper Cretaceous), underlain	
	by limy and sandy shale (Knoxville formation, Lower Cretaceous)	Cretaceous
G	by fimy and sandy shale (Knoxville formation, Lower	Jurassic (?)
G H	by firmy and sandy shale (Knoxville formation, Lower Cretaceous) Intrusive rocks and derivatives (diabase, gabbro,	

Pre-Jurassic(?)



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