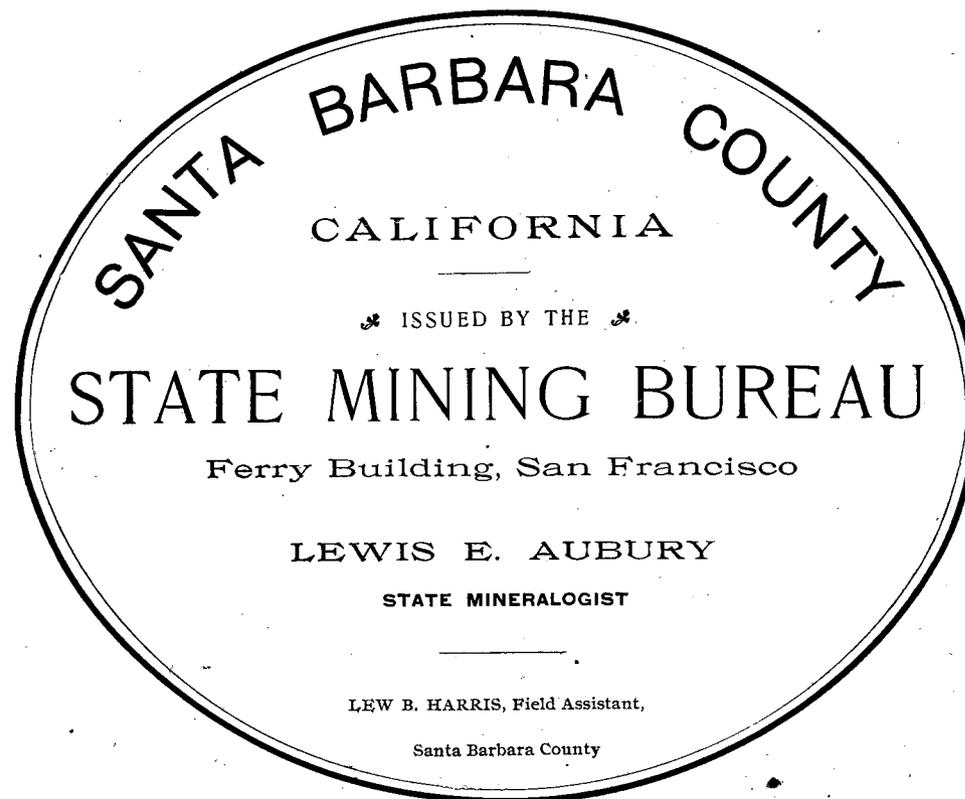


REGISTER

OF
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MINES AND MINERALS



Data Collected
March, 1906

SUMMERLAND OIL FIELD

SANTA BARBARA COUNTY, CALIFORNIA

ISSUED BY THE

STATE MINING BUREAU

LEWIS E. AUBURY

STATE MINERALOGIST

COMPILED BY LEW B. HARRIS

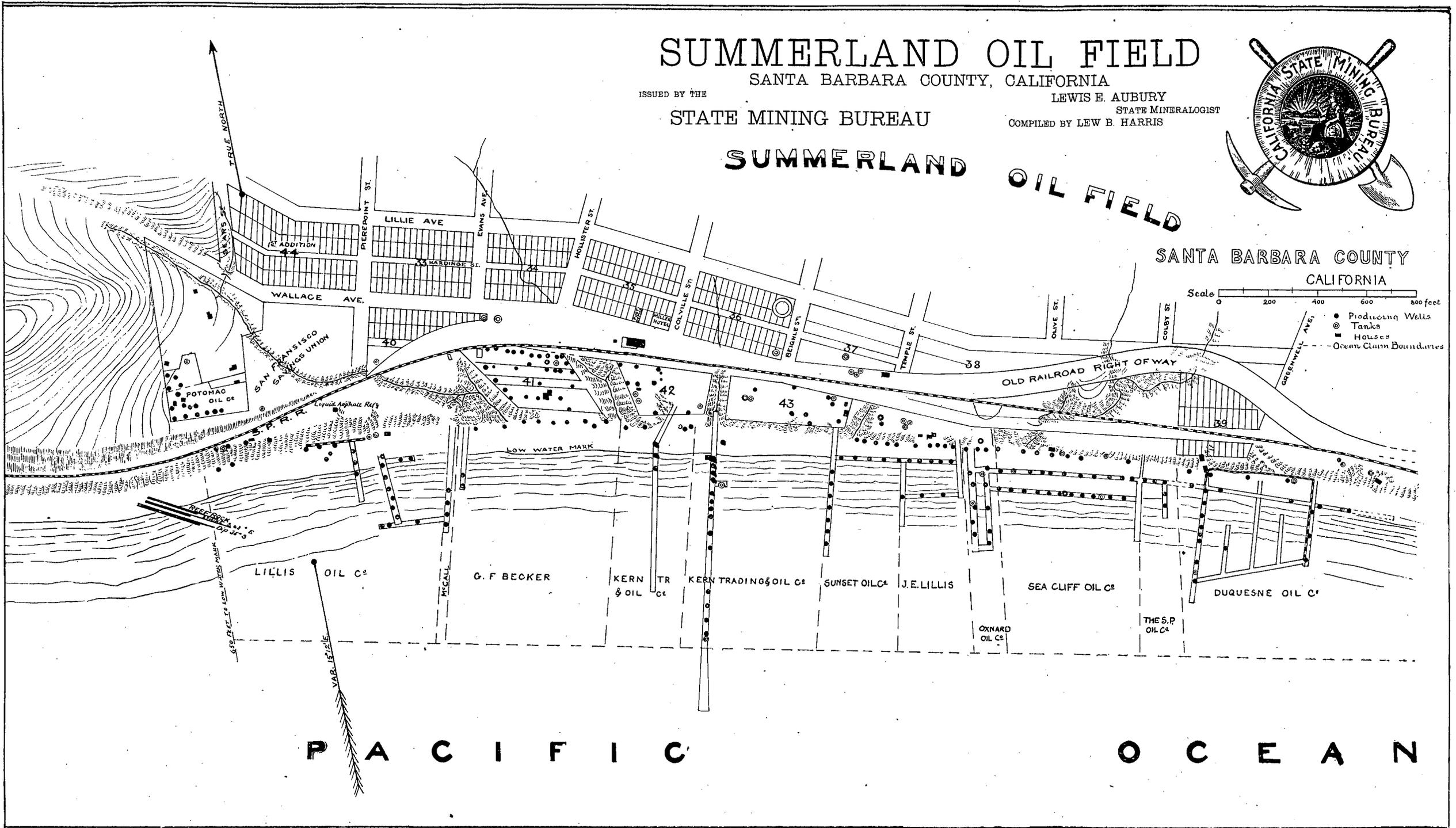


SUMMERLAND OIL FIELD

SANTA BARBARA COUNTY
CALIFORNIA

Scale 0 200 400 600 800 feet

- Producing Wells
- ⊙ Tanks
- Houses
- - - Ocean Claim Boundaries



SANTA MARIA OIL FIELD

SANTA BARBARA COUNTY

CALIFORNIA



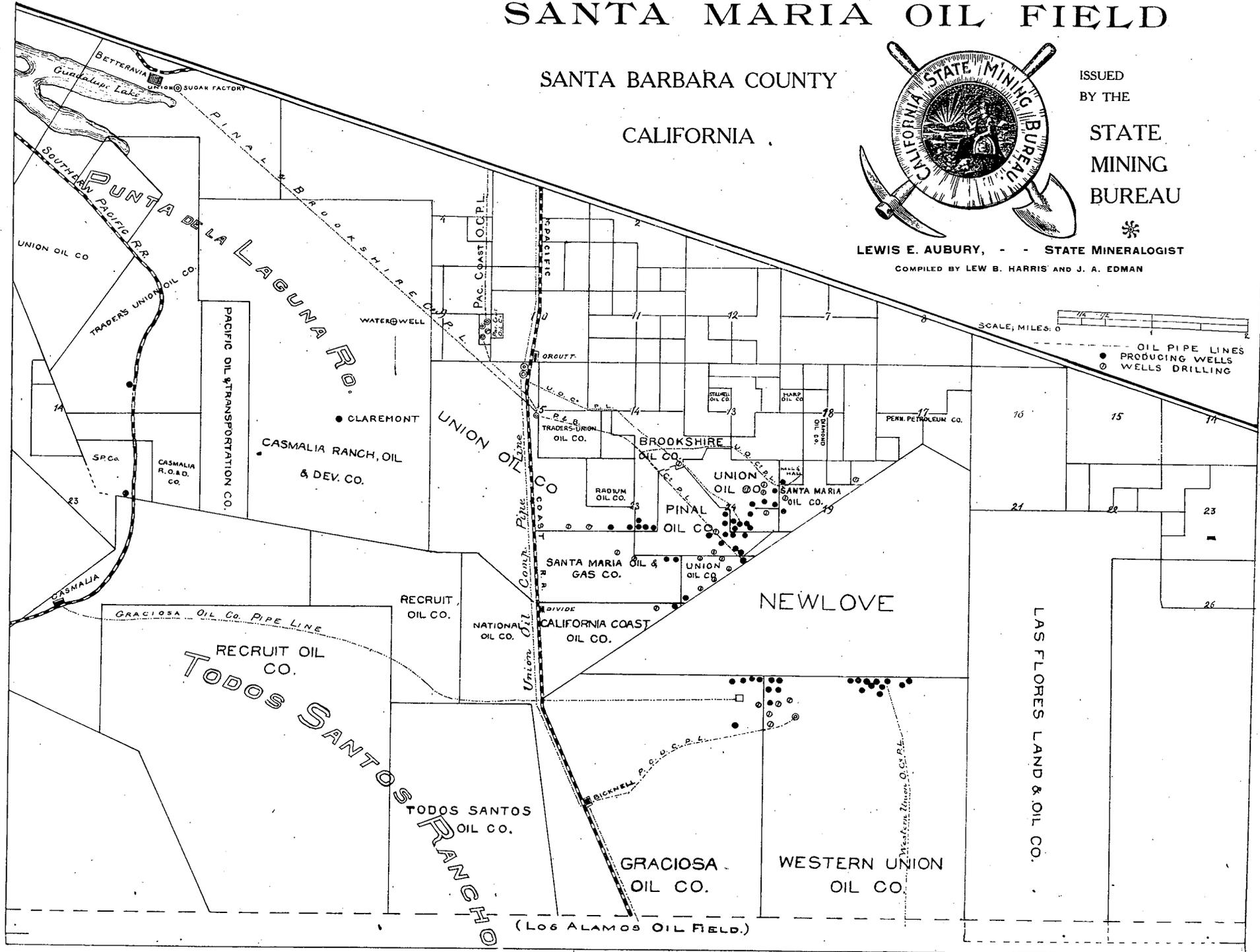
ISSUED
BY THE

STATE
MINING
BUREAU



LEWIS E. AUBURY, - - STATE MINERALOGIST

COMPILED BY LEW B. HARRIS AND J. A. EDMAN



(SANTA MARIA OIL FIELD.)

GRACIOSA OIL CO.

WESTERN UNION OIL CO.

T.8.N.
R.33W.S.B.M.

LOS ALAMOS RANCHO

Los Alamos Creek

PACIFIC COAST R.R.

CAREAGA

A. O. G. P. L. to Alcatraz Landing

TODOS SANTOS OIL CO.

COAST LINE OIL CO.

BARCA

LOS ALAMOS OIL & DEV. CO.

MISSION DE LA PURISIMA

UNION OIL CO.

LOMPOC OIL DEVELOPING CO.

UNION OIL CO.

UNION OIL CO.

UNION OIL CO.

UNION OIL CO.

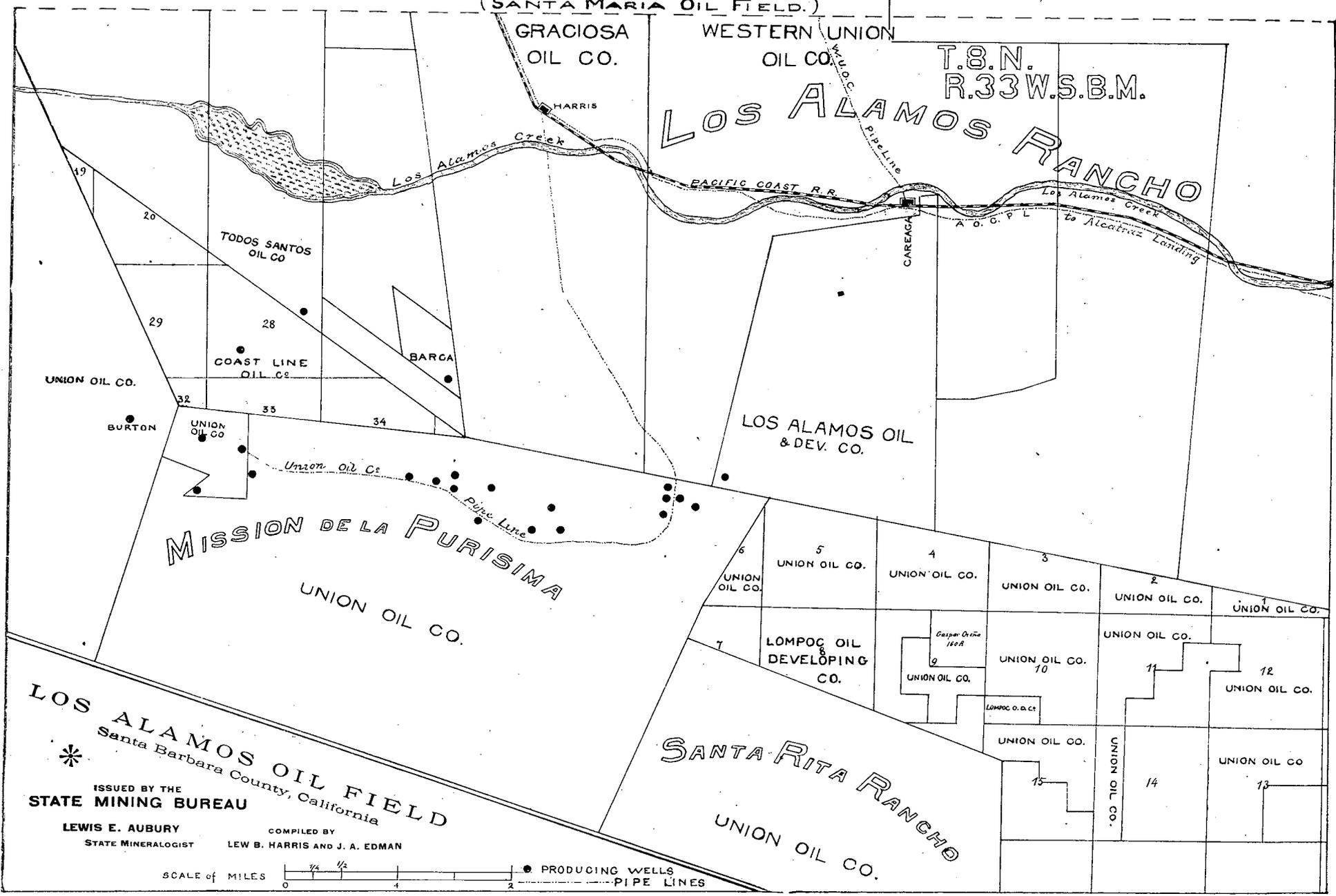
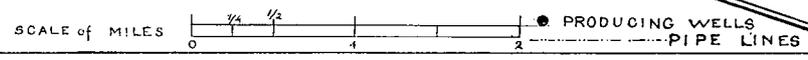
SANTA RITA RANCHO
UNION OIL CO.

LOS ALAMOS OIL FIELD
Santa Barbara County, California

ISSUED BY THE
STATE MINING BUREAU

LEWIS E. AUBURY
STATE MINERALOGIST

COMPILED BY
LEW B. HARRIS AND J. A. EDMAN



THE Register of Mines and Minerals of the State of California, issued by the State Mining Bureau, is intended to give information concerning the gold mines—quartz, hydraulic, drift, placer, etc.—as well as a list of mills and arrastras; and also to give corresponding information relating to each of the various mineral substances mined or commercially utilized in the State.

This forms practically both a State and County Directory of the mines of California, the Register being printed so that each county is represented in a separate pamphlet. The Register will answer for the guidance of those who want to look at any particular mine, or to learn the essential facts concerning it.

Of course some names may be omitted, owing to the reluctance or indifference of the owner or superintendent in furnishing the necessary data, or by being overlooked by the Field Assistant of the Bureau.

[Numbers of mines in Santa Barbara County were closed down with no one in charge at the time of the visit of the Field Assistant. Of these he was therefore unable to obtain any data, and in some instances even the name was unknown. He, however, visited all the known mines in the county, but for the reason stated some may have been omitted from the Register.]

It is intended, however, that in time such omissions will be filled in, and in that event a supplement will be published and attached to the Register of each county. Such supplements will contain not only corrections to date, but the names of all new properties and owners.

It has been the intention of the State Mineralogist to obtain the desired information concerning the mines and minerals and to publish only the essential facts in as condensed a shape as possible. For this reason the tabular form has been adopted, so as to reduce the verbiage necessary in a printed report of the ordinary character, where the essential description, slightly varied, must be repeated in each paragraph.

Those things only are published which are of general interest and which the mine-owner has no reason to object making public. It is not considered the province of the Bureau to "expert" mining properties or to pass on their standing or value one way or another. Should more detailed information be desired by any individual, the addresses of owner and superintendent are given, and they may be communicated with.

At the same time the figures given under "developments" will show at once whether the mine is a fully developed one or a prospect, so that any possible misrepresentation may be checked.

The information printed is of such a character that it can not do any injury to the reputation of the mine described, but will be of service to the owners and to the public.

To accompany the printed Register is a map of each county, showing all mineral locations, etc. These maps are on a large scale and produced in two colors. The map of Santa Barbara County has been compiled from all the maps obtainable in the county. The mines are numbered in the table, and a corresponding number on the map indicates the exact location. One may find from this approximately how far he must go from any specified town or station to reach any particular mine, and may learn the location of railroads, roads, trails, etc.

Bound in the Register are three maps showing the principal Oil Fields of Santa Barbara County.

The object of this publication is to give in as condensed and convenient form as possible such information concerning the mines of California as is generally sought by intending investors or others interested, and to show the location of each mine in the respective counties.

Registers of all the counties of the State will be given to the public as soon as the work in each is completed and can be published.

It is earnestly requested, if any errors or omissions are noted, that the proper corrections will be sent at once to the State Mineralogist, State Mining Bureau, Union Ferry Building, San Francisco, Cal.

LEWIS E. AUBURY,
State Mineralogist.

SANTA BARBARA COUNTY.

Santa Barbara County is one of the coast counties, and lies between parallels $34^{\circ} 22'$ and 35° north latitude, having a coast line of about 100 miles, and including the islands of Santa Cruz, Santa Rosa, and San Miguel.

The area of the county, exclusive of the islands of Santa Cruz and Santa Rosa, which contain about 190 square miles each, is about 2,450 square miles.

The population of the county, according to the census of 1900, was 18,934, and the assessed valuation in 1905 was \$20,000,000.

The Channel Islands lie off the coast, forming a natural breakwater and leaving between them and the main land a stretch of water called the Santa Barbara Channel, having an average width of 20 miles and about 70 miles long and comparatively smooth water, which has been selected by the United States Government as a trial speed course for Government vessels. The city of Santa Barbara, the county seat, lies on the shores of this channel and is noted for its equable climate, and the fertility of the country around it, and since the recent construction of the coast line of the Southern Pacific Railroad, has about doubled in population. It is connected with San Francisco, distant 370 miles by rail, and also by water, distant 280 miles, it being a port of call for a regular line of steamers plying between San Francisco and San Diego.

The county is traversed by the coast line of the Southern Pacific Railroad, with branch lines from Surf to Lompoc, and from Guadalupe to Betteravia, and by the Pacific Coast Railroad, a narrow gauge running from Los Olivos in the fertile Ballard Valley, through the Los Alamos and Santa Maria valleys, with a branch to Betteravia, and connected with the Southern Pacific Railroad at San Luis Obispo and from thence to tide water at Port Harford.

The principal industries are grain and stock raising and horticulture.

The principal towns in the county are Santa Maria, Lompoc, Carpenteria, Orcutt, Los Alamos, Los Olivos, Santa Ynez, and Guadalupe. Santa Maria and Orcutt are in the Santa Maria Valley, on the line of the Pacific Coast Railroad, and are distributing points for the Santa Maria oil field.

Lompoc is in the Lompoc Valley, and at the terminus of the branch line of the Southern Pacific Railroad from Surf. The most valuable deposits of infusorial earth found in the State are mined a few miles distant from the town.

The principal valleys of the county are the Santa Maria, the Los Alamos, the Lompoc, the Cuyama, the Ballard, the Santa Ynez, and the Coastal Valley or plain, lying between the southern slopes of the Santa Ynez mountains and the sea.

Auriferous beach sands exist between Point Pedernales and Point Sal and are worked during favorable seasons. The black sands carry considerable platinum. The work is carried on intermittently, and only when a southwester blows, creating a surf heavy enough to displace the barren sands overlying the black sand.

The larger portion of the county is composed of hills and mountains, ranging from the low rolling hills immediately bordering the valley and susceptible to cultivation, to the high and rugged mountains of the San Rafael and the Santa Ynez ranges, which are so broken and precipitous as to have deterred the prospector from making as careful an examination of the county as has been made in regions more accessible. Peaks rise to altitudes of 7,000 feet in the San Rafael Range in the eastern part of the county, and in the Santa Ynez Range, which is parallel to the coast, elevations are reached over 7,000 feet in height. The Santa Ynez River flows between these two ranges, has a length of about 80 miles, and empties into the Pacific Ocean about 12 miles west of Lompoc, after traversing the fertile valley of that name. The San Rafael Mountains are north of the Santa Ynez River, and contain more evidences of mineral than any other portion of the county. In this range have been found cinnabar, gold, iron, magnesite, manganese, chromite, gypsum, bituminous rock, and petroleum. The quicksilver mines on the Upper Santa Ynez, known as the Los Prietos, were worked 35 years ago, but owing to the decline in price of quicksilver were abandoned, and parties are now engaged in reopening these mines with satisfactory prospects of success.

The mineral wealth of Santa Barbara County, however, lies chiefly in her productive oil fields. The Santa Maria and the Lompoc fields are adjacent and promise to be among the most productive fields on the coast. The wells are deep, varying from 2,500 feet to 4,300 feet, the latter being the deepest producing oil well in the world. The limits of the productive area have not been defined as yet, and it is estimated that the present field could easily produce 30,000 barrels a day, if it was necessary to call on the field for that amount.

The Summerland field, lying just south of the city of Santa Barbara, on the Santa Barbara Channel, is unique, inasmuch as the productive area is under the sands of the ocean bed. The wells are sunk from wharves jutting out from the shore, and present the novel sight of oil issuing from the depths of the sea.

Elevations, Santa Barbara County.

U. S. G. S. represents United States Geological Survey; S. P. R. R. represents Southern Pacific Railroad;
P. C. Ry. represents Pacific Coast Railway; W. B. represents Weather Bureau.

Locality.	Authority.	Feet.	Locality.	Authority.	Feet.	Locality.	Authority.	Feet.
Arguello	U. S. G. S.	161	La Patera	S. P. R. R.	24	San Miguel Island	W. B.	500
Ballard	U. S. G. S.	675	Las Cruces	U. S. G. S.	339	San Marcos Pass	U. S. G. S.	2,224
Big Pine Mountain	U. S. G. S.	6,828	Loma Paloma	U. S. G. S.	4,439	San Rafael Mountain	U. S. G. S.	6,581
Blue Cañon Pass	U. S. G. S.	3,338	Loma Alta	U. S. G. S.	2,745	Santa Anita	U. S. G. S.	64
Bone Mountain	U. S. G. S.	2,784	Lompoc	S. P. R. R.	93	Santa Barbara	S. P. R. R.	2
Brush Peak	U. S. G. S.	3,059	Lompoc Landing	U. S. G. S.	158	Santa Barbara Hot Springs	U. S. G. S.	1,414
Carpenteria	S. P. R. R.	7	Los Alamos	P. C. Ry.	592	Santa Maria	P. C. Ry.	213
Casmalia	S. P. R. R.	283	Los Olivos	P. C. Ry.	835	Santa Ynez	U. S. G. S.	600
Conception	S. P. R. R.	108	Los Cochos Mountain	U. S. G. S.	3,004	Santa Ynez Mission	U. S. G. S.	495
Condor Point	U. S. G. S.	3,000	Lospe Mountain	U. S. G. S.	1,624	Santa Ynez Peak	U. S. G. S.	4,292
Cuyama Peak	U. S. G. S.	6,915	Manzanita Mountain	U. S. G. S.	3,125	San Ysidro	U. S. G. S.	600
Divide	U. S. G. S.	518	McKinley Mountain	U. S. G. S.	6,228	Snowball Mountain	U. S. G. S.	1,695
El Tranquillon	U. S. G. S.	2,170	McPherson Peak	U. S. G. S.	5,763	Strawberry Peak	U. S. G. S.	6,548
Gaviota	S. P. R. R.	92	Naples	S. P. R. R.	92	Sudden	U. S. G. S.	85
Gaviota Pass	U. S. G. S.	1,150	Old Mission Santa Barbara	U. S. G. S.	325	Summerland	S. P. R. R.	47
Gaviota Peak	U. S. G. S.	2,451	Orcutt	P. C. Ry.	316	Sulphur Ridge	U. S. G. S.	1,258
Goleta	S. P. R. R.	37	Peak Mountain	U. S. G. S.	5,837	Surf	S. P. R. R.	45
Guadalupe	S. P. R. R.	79	Pine Crest	W. B.	1,000	Tepasquet Peak	U. S. G. S.	3,235
Harris	U. S. G. S.	308	Point Pedernales	U. S. G. S.	146	Waldorf	S. P. R. R.	201
Honda	U. S. G. S.	110	Redrock Mountain	U. S. G. S.	1,968	Zaca Lake	U. S. G. S.	2,350
Lakeview	U. S. G. S.	1,451						

REGISTER OF MINES AND MINERALS

NAME OF COMPANY OR CORPORATION.	NEAREST TOWN OR P. O.	LOCATION.				INCORPORATED UNDER LAWS OF WHAT STATE.	ELEVATION.	CHARACTER OF FORMATION YIELDING OIL.	TOTAL NUMBER OF WELLS.	NUMBER OF WELLS BEING PUMPED.												
		SECTION.	TOWNSHIP.	RANGE.	MAP No.					No. 1. DEPTH.	GRAVITY OIL (BAUME).	No. 2. DEPTH.	GRAVITY OIL (BAUME).	No. 3. DEPTH.	GRAVITY OIL (BAUME).	No. 4. DEPTH.	GRAVITY OIL (BAUME).	No. 5. DEPTH.	GRAVITY OIL (BAUME).			
Burea Oil Co.	Lompoc	Todos	Santos	Rancho	3	California	800	Shale and sand	1													
Burton Oil Co.	Lompoc	Jesus	Maria	Rancho	4	California	300	Shale and sand	1													
Brookshire Oil Co.	Santa Maria	23	9 N	34 W	5	California	600/800	Shale and sand	4	2600'	to	2900'			25°	to	27°					
California Coast Oil Co.	Orcutt	Santa	Maria	Field	6	California	700	Shale and sand	1	3300	28°											
Claremont Oil Co.	Orcutt	Laguna	Rancho		7	California	500	Shale and sand		One water well and one oil well drilling												
Coblentz Oil Co.	Orcutt	19	9 N	34 W	8	California	700	Shale and sand		One well drilling												
Coast Line Oil Co.	Lompoc	28	8 N	34 W	9	California	600															
Columbian Oil, Asphalt & Refining Co.	Orcutt	Laguna	Rancho		7	California	500	Shale and sand		One well drilling												
Dome Oil Co.	Santa Maria	24	9 N	34 W	11	California	700	Shale and sand	18		from	200'	to	400'						14°		
Duquesne Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	3		from	2600'	to	2800'						20°		
Eefson	Lompoc	Purisima	Rancho		13	California	500	Shale and sand	3		from	2600'	to	2800'						20°		
G. F. Becker	Summerland	Summerland	Field		12	California	Sea level	Sand	24		from	200'	to	400'						14°		
Graciosa Oil Co.	Orcutt	Harris	Rancho		14	California	800	Shale and sand	5	3200'	28°	3000	28°	3100	28°	3300	28°	3300	28°			
Hall & Hall Oil Co.	Orcutt	19	9 N	33 W	15	California	750	Shale and sand	1	2500	28°											
Hill Camp	Lompoc	Purisima	Rancho		16	California	800	Shale and sand	4		from	2600'	to	3000'						20°	to	28°
J. C. Wilson	Summerland	Summerland	Field		12	California	Sea level	Sand	6		from	250'	to	300'						14°		
J. E. Lillis	Summerland	Summerland	Field		12	California	Sea level	Sand	12		from	250'	to	300'						14°		
J. F. Miller	Summerland	Summerland	Field		12	California	Sea level	Sand	23		from	250'	to	400'						14°		
J. F. Miller & Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	4		from	250'	to	300'						14°		
Kern Trading and Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	19		from	200'	to	350'						14°		
Lillis Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	7		from	200'	to	350'						14°		
Lompoc Oil Developing Co.	Lompoc	8	7 N	33 W	17	California	1000	Shale and sand	1	3730												
Los Alamos Oil & Dev. Co.	Los Alamos	Los Alamos	Rancho		18	California	1100	Shale and sand	1	4300	32°											
New Penn. Petroleum Co.	Orcutt	19	9 N	33 W	19	California	1100		1		from	250'	to	350'						14°		
North Star Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	6		from	250'	to	350'						14°		
Oxnard Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	12		from	200'	to	350'						14°		
Pinal Oil Co.	Santa Maria	24	9 N	33 W	20	California	700	Shale and sand	11		from	2200'	to	3400'						26°	to	29°
Potomac Oil Co.	Summerland	Summerland	Field		12	California	100	Sand	13		from	229'	to	270'						14°		
Purisima	Lompoc	Purisima	Rancho		21	California	700	Shale and sand	8		from	2600'	to	2800'						20°		
Radium Oil Co.	Orcutt	23	9 N	34 W	22	California	750		1													
Recruit Oil Co.	Los Alamos	Todos	Santos	Rancho	23	California	800	Sand and shale	1	3665	18°											
Rice Ranch Oil Co.	Orcutt	19	9 N	33 W	24	California	1000	Sand and shale	1	2630	28°											
Santa Maria Oil Co.	Orcutt	19	9 N	33 W	25	California	900	Sand and shale	1	2550	28°											
Sea Cliff Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	20		from	200'	to	350'						14°		
Seaside Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	20		from	200'	to	350'						14°		
Sunset Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	13		from	200'	to	350'						14°		
Southern Pacific Oil Co.	Summerland	Summerland	Field		12	California	Sea level	Sand	9		from	200'	to	350'						14°		
Todos Santos Oil Co.	Lompoc	Todos	Santos	Rancho	26	California	1000		1													
Union Oil Co.	Orcutt	Santa	Maria	Field	61	California	600/800	Shale and sand	25		from	2500'	to	3500'						25°	to	29°
Union Oil Co.	Lompoc	Lompoc	Field		62	California	300/800	Shale and sand	11		from	2600'	to	3600'						25°	to	29°
Western Union Oil Co.	Los Alamos	Careaga	Rancho		27	California	700/900	Shale and sand	22		from	1600'	to	4000'						17°	to	26°

OF CALIFORNIA—PETROLEUM.

RESERVOIR OR TANKAGE CAPACITY.	PIPE LINE, LENGTH.	NAME OF SHIPPING STATION.	NO. OF MEN EMPLOYED.	COMPANY, OWNER OR SUPERINTENDENT.		REMARKS.
				NAME.	ADDRESS.	
56,000 3,000		Graciosa and Betteravia Orcutt	25	National Supply Co.	Orcutt	Drilling operations suspended at present. Drilling. Uses same pipe line as the Pinal Oil Company. One well drilling. Union Oil Company.
				Union Oil Co. J. F. Goodwin, Superintendent. T. T. Hill, Superintendent	Los Angeles Santa Maria Orcutt	
2,500 3,600		Summerland Orcutt	7 2	W. A. Irwin	Orcutt	Union Oil Company.
				Coblentz & Schwabacher R. P. Williams	Santa Maria San Luis Obispo	
4,500 40,000	8 miles	Summerland Casmalia	3	A. Satler, Superintendent	Carpenteria	One well drilling. Pumped on the jack.
				J. F. Goodwin, Superintendent R. A. Phelps, Superintendent Union Oil Co.	Santa Maria Summerland Los Angeles	
7,400		Orcutt Orcutt		G. F. Becker	Summerland	Pumped on the jack. Well No. 6 drilling; well No. 7 in course of construction.
				Adolph Phillips, Superintendent	Orcutt	
500 700		Summerland Summerland	1 1	Frank Hill	Orcutt	Wells are sunk from wharf, and pumped on the jack. Wells are sunk from wharf, and pumped on the jack.
				Union Oil Co.	Los Angeles	
9,000 600		Summerland Summerland	1 1	J. C. Wilson	Summerland	Wells are sunk from wharf, and pumped on the jack. Wells are sunk from wharf, and pumped on the jack.
				J. E. Lillis	Summerland	
1,500		Summerland	2	J. F. Miller	Summerland	Wells are sunk from wharf, and pumped on the jack. Wells are sunk from wharf, and pumped on the jack.
				J. F. Miller	Summerland	
2,000		Summerland	2	Mr. Belton	Summerland	In oil and still drilling. The deepest producing oil well in the world.
				John Williamson	Summerland	
4,000		Careaga		H. C. Dimock, Secretary	Lompoc	
				W. P. Batchelder, Superintendent	Los Alamos	
600		Summerland	2	Jos. McDonald	Santa Maria	Drilling. Pumped on the jack (sea well).
				John Williamson	Summerland	
1,400		Summerland	1	C. C. Newman	Santa Barbara	Pumped on the jack (sea well).
30,000 580 15,000	8 miles	Graciosa	30	J. F. Goodwin	Santa Maria	One well drilling. Pumped on the jack. Nos. 9 and 10 drilling.
		Summerland Orcutt	1	F. Woodruff Union Oil Co.	Summerland Los Angeles	
1,500 2,000 1,500 1,500		Summerland Summerland Summerland Summerland		Max Grossmeyer	Santa Maria	Drilling. Well not completed. (Associated Oil Company.)
				Wm. O. Maxwell, Superintendent Charles Off, Superintendent	Los Alamos Santa Maria	
2,000,000 15,000	32 miles 15 miles	Orcutt and Port Harford	150	Union Oil Co.	Los Angeles	Sea wells; pumped on the jack. Sea wells; pumped on the jack. Sea wells; pumped on the jack. Sea wells; pumped on the jack. 4035' deep, and drilling. 1,500,000 barrels reservoir and 500,000 steel tankage. Pipe line connects with Union Oil Company's line at Orcutt, thence to Port Harford.
		Orcutt and Port Harford	40	C. C. Newman H. C. Cook J. C. Hassinger F. J. Hickey	Santa Barbara Summerland Summerland Summerland	
				T. T. Hill, Superintendent	Orcutt	
				T. T. Hill, Superintendent	Orcutt	
				Morris Albee, Secretary	Los Angeles	

REGISTER OF MINES AND MINERALS

NAME OF MINE, ETC.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION.	CHARACTER.
		SECTION.	TOWNSHIP.	RANGE.	MAP. No.			
ASPHALT.								
Alcatraz Mine	Carpenteria				31	Yes	10	8 to 10 inches thick; in layers, worked by open pit
Sisquoc Mine	Los Olivos	Sisquoc	Rancho		56		1500	Immense lens-formed bodies of bituminous sandstone
Harris Asphalt Mine	Orcutt	Harris	Rancho		32			
Kaiser Asphalt Mine	Santa Maria				33	Yes	800	Lies in irregular masses at unknown depths. Covers about 200 acres
La Patera Asphalt Mine	Goleta				34	Yes	40	Large vein like deposits; 65% bitumen
More Asphalt Mine	Goleta				35	Yes	50-150	Occurs in masses of from 50 to 1,500 tons. Worked by quarry
Telford Asphalt Mine	Lompoc	17	7 N.	33 W.	36	Yes	1600	Has been worked by open pit
Waldorf Asphalt Mine	Guadalupe				37	Yes	200	1150 acres; occurs in kidneys. Has not been worked since July, 1902
Barytes	Los Alamos	13	10 N.	30 W.	37	No	3000	Large deposit
Chromite	Guadalupe				38		500	Chromite of high grade said to occur in the serpentine at Point Sal
COPPER.								
Copper King	Los Olivos	5	7 N.	29 W.	39		3600	Ore occurs in kidneys; walls, silicified shale
GYPSUM.								
Point Sal Mine	Casmalia	Casmalia	Rancho		40	Yes	1000	Large crystalline deposit. Formerly shipped from Point Sal Landing
Quartel Mine	Quartel		8 N.	25 W.	41		3500	Very large deposit of gypsum and alabaster
Santa Rosa Island	Santa Barbara				42			
INFUSORIAL EARTH.								
Balaam Mine	Lompoc	Lompoc	Rancho		43		575	Very light (26 pounds to the cubic foot), white and flaky. Worked by quarry
Dimock Mine	Lompoc				44		900	Very thin layers
Sunnyside Mine	Lompoc				45		500	Has not been worked for the last four years
LIME.								
Lompoc Lime Quarry	Lompoc	Lompoc	Rancho		46		1150	A very large deposit of fossiliferous limestone
Loma Blanca Lith. Stone Co.	Santa Barbara	4	6 N.	26 W.	47		4000	Deposit of fine grained limestone
Lind Deposit	Lompoc	Lompoc	Rancho		48		1100	Undeveloped
More's Ranch	Goleta				49		100	A four-foot vein of calcite
Magnesite	Santa Barbara				50			Hydro-magnesite on the Moraga Ranch
Platinum	Guadalupe				1 & 2			Found in washing beach sand for gold
QUICKSILVER.								
Horseshoe Q. M. Co.	Santa Barbara	11	5 N.	27 W.	51	No	1400	Mineralized serpentine; vein 8 feet wide; strike S. 45° W., dip 45° E.
Idalee Q. M. Co.	Santa Barbara	10	5 N.	27 W.	52	No	1950	Mineralized serpentine; vein 1 foot wide; strike E. and W., dip south
Red Rock Q. M. Co.	Los Olivos	2	7 N.	29 W.	53	Yes	2800	Mineralized serpentine and shale; vein 30 feet wide; strike N. 40° W., dip 50° E.; foot wall sandstone, hanging wall shale.
Snow & Co.	Santa Barbara	9	5 N.	27 W.	54	No	1100	Mineralized serpentine
Stewart Q. Mine	Los Olivos	3	7 N.	29 W.	55	No	2650	Mineralized serpentine; vein 50 feet wide; strike N. 20° W., dip 70° E.; foot wall serpentine; hanging wall shale.
SANDSTONE.								
Hogan Quarry	Santa Barbara		4 N.	27 W.	58			Three grades of excellent sandstone, fine, medium, and rough, gray in color
Arellanes Quarry	Casmalia				59		300	Rough gray sandstone, in strata 20 to 25 feet thick; dips 45° E.
Mission Contracting and Bldg. Co.	Santa Barbara	33	5 N.	27 W.	60		1000	Sandstone and Conglomerate

OF CALIFORNIA—MISCELLANEOUS.

SHAFT.	INCLINE.	OPEN CUT.	TUNNEL.	DRIFT.	POWER.	NO. OF MEN EMPLOYED.	COMPANY, OWNER, OR SUPERINTENDENT.		REMARKS.
							NAME.	ADDRESS.	
							Columbian Oil, Asphalt and Refining Company	Carpenteria	A. Sattler, Manager. Formerly the Los Conchas Asphalt mine. Work discontinued on account of decline in price of asphalt.
500'			12 2550'				Alcatraz	Orcutt	
							L. Harris	Santa Maria	Equipped with machinery and refinery. Has not been worked since 1900.
			50'				J. Kaiser	Santa Barbara	
							A. H. Den	Santa Barbara	This deposit has been worked for 30 years.
							John F. More	Santa Barbara	
							F. F. Fox	Lompoc	
							E. J. LeBreton	San Francisco	
							J. Victor Jesse	Santa Maria	See 10th Annual Report State Mineralogist.
			150'			4	Mr. Canfield	Santa Barbara	Development work going on.
							Stevenson & Marshall	Casmalia	Has not been worked for some years.
							Chas. D. Fox	San Francisco	In the Cuyama Valley, about 5 miles south of Quartel.
			150'				Magne Silica Company	Lompoc	G. B. Hannaman.
							Magne Silica Company	Lompoc	G. B. Hannaman.
							Miss Jessie Telford	Lompoc	
							G. E. Badgely, Supt.	Lompoc	Union Sugar Company; Betteravia, owners.
							José Moraga	Santa Barbara	
							T. C. Lind	Lompoc	
							John F. More	Goleta	See 8th Annual Report State Mineralogist.
							José G. Moraga	Santa Barbara	
			75 150'				R. H. Fulwider et al.	Santa Barbara	Engaged in developing property; 5-pipe retort.
60 40'			200 1000'				H. E. Fox et al.	Santa Barbara	Developing property; has a 10-pipe retort.
							Acachuma Q. M. Co.	Los Angeles	C. F. Bicknell, Secretary; Byrne building, Los Angeles. Putting up retorts. Developing.
							E. Snow et al.	Summerland	Horseshoe, Idalee, and Snow mines worked 35 years ago, and known as the Los Prietos Q. mines.
							C. W. H. Stewart	Ballard	Developing.
							Thos. Hogan	Santa Barbara	Has also a conglomerate quarry adjacent to the sandstone.
							J. B. Arellanes	Santa Maria	
							W. L. McDonald, Mgr.	Santa Barbara	

REGISTER OF MINES AND MINERALS OF CALIFORNIA—Placer and Beach Mines.

NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION.	AREA.	LENGTH OF DITCHES.	LENGTH OF BEACH.	MANNER OF WORKING.	COMPANY, OWNER, OR SUPERINTENDENT.		NOTE.
		SECTION.	TOWNSHIP.	RANGE.	MAP No.							NAME.	ADDRESS.	
Casmalia	Casmalia	Along	the beach	.....	.....	Sea level	.....	.....	.....	.....	Washing over plates ..	H. C. Dimond et al.	Lompoc .....	.....

REGISTER OF MINES AND MINERALS

I—IODIDE. O—OXIDE. B—BORATE. 2 B—BIBORATE. C—CARBONATE. 2 C—BICARBONATE

NAME OF SPRING.	NEAREST TOWN OR P. O.	LOCATION.				ELEVATION.	OWNER.		ANALYST.	FLOW DAILY.	TEMPERATURE FAHR.	TOTAL SOLIDS.	GRAINS IN U. S. OR IMPERIAL GALLONS, PERCENTAGE	SODIUM.
		SECTION.	TOWNSHIP.	RANGE.	MAP No.		NAME.	ADDRESS.						
Veronica	Santa Barbara	Las Positas	Rancho	.....	28	50	T. S. Hawley	Santa Barbara	E. W. Hilgard	.....	.....	.....	.....	{ C 36.57 S 152.38 Cl 243.38
Pinkham S. B. Min. Water.	Santa Barbara	.....	.....	.....	29	250	S. C. Pinkham	Santa Barbara	J. M. Curtis & Son	7,500	.....	.....	.....	{ S 662.34 Cl 45.42 C 8.65
San Pedro Spring	Goleta	31	5 N.	28 W.	30	500	Chas Weile	Santa Barbara	G. E. Colby, University California.	.....	.....	.....	.....	{ S 2.17 Cl 1.69 C 14.80

REGISTER OF MINES AND MINERALS OF CALIFORNIA—Placer and Beach Mines.

NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION.	AREA.	LENGTH OF DITCHES.	LENGTH OF BEACH.	MANNER OF WORKING.	COMPANY, OWNER, OR SUPERINTENDENT.		NOTE.
		SECTION.	TOWNSHIP.	RANGE.	MAP NO.							NAME.	ADDRESS.	
Point Sal.....	Guadalupe.....	Along	the beach			Sea level				Washing over plates	N. Marsh et al.	Guadalupe.....		

OF CALIFORNIA—MINERAL SPRINGS.

N—NITRATE. P—PHOSPHATE. S—SULPHATE. BR—BROMIDE. CL—CHLORIDE. F—FLUORIDE.

POTASSIUM.	MAGNESIUM.	CALCIUM.	IRON.	FERROUS.	FERRIC.	SILICA.	ALUMINA.	MANGANESE.	ARSENIC.	BARIUM.	STRONTIUM.	LITHIUM.	BORATES.	BROMINE.	ORGANIC MATTER.	SULPHURET HYDROGEN.	CARBONIC ACID.	CARBURET HYDROGEN.	IODINE.	SULPHURIC ACID.	BORACIC ACID.	NOTE.
S 152.38	C 26.76 Z 415.66 S 966.59	S 57.12 P trace				trace																
S 98.55	Cl 35.40 S 50.40	Cl 108.03 S 32.64 P 1.97 C 90.03	C. 1.02			.87						Cl .23		trace					trace			
S trace	C 4.16	C 4.00				trace									1.16							

