
Inventory of the Ralph Arnold Collection, 1836-1961

The Huntington Library

San Marino, California

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Descriptive Summary

Title: Ralph Arnold Collection,

Date (inclusive): 1836-1961

Creator: Arnold, Ralph

Extent: 257 boxes

Repository: The Huntington Library

San Marino, California 91108

Language: English

Provenance

Presented to The Huntington Library by Ralph Arnold, March 18, 1958, map collection in January, 1955.

Access

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Preferred Citation

[Identification of item], Ralph Arnold Collection, The Huntington Library, San Marino, California.

Scope and Content

Collection of papers, personal and professional, belonging to Ralph Arnold.

Box Boxes 1-11 **Section A - Family and Personal Papers. 1836-1961.**

Scope and Content Note

Delos Arnold, Ralph Arnold's father, was an early pioneer of Pasadena and achieved considerable distinction in scientific, political and educational fields. His son, Ralph, was a resident of California for nearly three-quarters of a century. His deep interest in local history is evinced by his sponsoring the writing and publication of Pasadena in the Gay Nineties (1950).

Box Boxes 12-15 **Section B - Business Papers. 1890-1950.**

Scope and Content Note

These pertain only to the private business affairs of Mr. and Mrs. Ralph Arnold

Box Boxes 16-12 **Section C - Correspondence, General. 1899-1960.**

Scope and Content Note

For thirty years Arnold was considered one of the leading petroleum engineers and consultants in the U.S. His prolific correspondence includes letters from practically all the leading scientists throughout the United States in his and related fields. Many of the writers were close personal friends.

Box Boxes 129-150 Section D - Field Books. 1899-1957.

Scope and Content Note

The field books which cover a period of about a half a century are extremely valuable. The earliest, kept while Arnold was getting his doctorate at Stanford, and the succeeding one, 1900-1904, written while Arnold was a member of the U.S. Geological Survey, furnish the basis for Arnold's knowledge and experience as a paleontologist and petroleum engineer and for his enviable reputation in both fields. The later books, 1944-1957, represent valuable surveys in petroleum fields in Arizona, California, Oklahoma, Oregon, Montana, Texas and Washington, as well as Alaska, Canada and Mexico.

Box Box 131 **Section E - Legal Papers. 1911-1947.**

Box Boxes 132-134 Section F - Manuscripts. 1898-1960.

Scope and Content Note

Arnold was a prolific writer and published copiously for more than fifty years. His articles appeared in all of the leading scientific journals in his field. He delivered innumerable lectures before scientific societies. In 1914 he delivered a series of lectures at the University of Chicago. In 1915 he delivered another series at Harvard and a third at Massachusetts Institute of Technology.

Box Boxes 135-136 Section G - Maps. 1890-1954.

Scope and Content Note

These furnish a valuable addenda to the Library's Manuscript map holdings. This is particularly true of the earlier ones which record the various ranchos, their boundaries, early land owners, urban communities and counties.

Box Boxes 139-196 Section H - Memoranda and Notes. 1901-1958.

Box Boxes 159-164 **Section I - Mining Papers. 1875-1946.**

Scope and Content Note

After Arnold's South American explorations (see Petroleum Papers) Arnold took up wild-cattling, both in petroleum and in every conceivable kind of mineral, i.e. he joined the Independents, in contradistinction to the big oil companies. He organized one exploratory company after another. His manipulations extended from Alaska to Mexico, all over the Far West and the South West. Arnold believed in his ventures. He believed in himself, as did his associates. The cream had long since been skimmed off the Western Mines, but the Independents were still determined to find it. When Syndicate No. 1 failed, Arnold organized Syndicate No. 2. When that failed he informed his clients blandly: Had any one of the Syndicate's leases come within a productive area, large profits would have been realized. That none were so situated is an example of the hazards of the oil industry. Syndicate members will agree that they had a good run for their money. The mining industry, too, was a game, or rather, it was a disease, like horse-racing and gambling.

Box Boxes 141-158 **Arnold Exploration Co. (Arnex) - 1875-1946**

Box Boxes 159-164 **United States: [1875]-1945**

Box Boxes 165-169 **Foreign: [1885]-1941 (Canada, Cuba, Honduras, Mexico, Misc.)**

Box Boxes 170-237 **Section J - Petroleum Papers. 1865- 1960.**

Scope and Content Note

Arnold's Petroleum Reports, numbering about 1,000 reports, extending all over the U.S., Alaska, Canada, and Mexico, are invaluable in studying the Petroleum industry during this period. In 1911-1916 Arnold made two somewhat glamorous surveys in South America. Herbert Hoover, then in London as a consulting engineer for Gold Fields, Ltd. of South Africa, recommended Arnold to that company for a survey of oil resources in Venezuela. At that time there was a single oil well in Venezuela producing 40 gallons of oil per day. In 1958, the year Arnold published his book recording his spectacular success in Venezuela, that country was producing 2,500,000 barrels of petroleum per day. The survey, the most extensive and thorough of its kind ever undertaken in South America, was widely publicized throughout the world.

The second survey, conducted for the General Asphalt Company in Northern Venezuela, employed, under Arnold's direction, a staff of 52 geologists, engineers, drillers, etc. So successful was this venture, A Royal Dutch Shell Company paid General Asphalt \$1,000,000 for 51 percent in General Asphalt's Caribbean Petroleum Co. Arnold's reputation rocketed to fresh heights.

Box Boxes 170-197 **United States [1865]-1959**

Box Boxes 198-217 **Foreign: 1910-1960**

Box Box 218 **Section K - Photographs.**

Additional Note

Also see other photographs housed in the Rare Book Department.

Box Boxes 219-229 Section L - Political Papers. 1914-1956.

Scope and Content Note

Arnold, an ardent Republican, served as chairman of three electoral committees for the Presidency in California. He was, at least in part, responsible for Herbert Hoover's election to the Presidency of the United States--not without high hopes of what his former colleague at Stanford University, might accomplish for the petroleum and Mining Industries.

Box Box 232 **Section M - Seismological Papers. 1887-1956.**

Box Box 233 Section N - Ephemera.

Box Boxes 238-250 ~~ADDENDA - Printed Material~~

A. FAMILY AND PERSONAL PAPERS

- Box 1 I. Addresses, 1915-1942
- II. Autograph Books, 1841, 1881
- Box 2 III. Biographical Papers
1. Genealogy: Arnold family, 1699-1875
2. Delos Arnold and his wife, Hannah Richardson Mercer Arnold, 1830-1907
- a. Vital Records
- b. Resignation from Pasadena Board of Education
- c. Last Will and Testament of Hannah Richardson Mercer Arnold and related papers, 1905-1907
3. Ralph Arnold and his wife: Winninette Stokes Arnold, 1901-1956
- a. Bibliographies, 1901-1956
- b. Biographical Sketches, 1875-1944
- c. Our Feathered Friends, Wilson High School, Dec. 7, 1892
- Physical Description: (manuscript)
- d. Round Table Debating Society, 1894-1896
- Physical Description: (notebook)
- e. Stanford Notebook, 1897
- f. Application for leave of absence, U.S. Geological Survey, Dec. 15, 1903
- g. Election to California, Academy of Sciences, June 29, 1929
- h. Certificates and Membership Cards, private and professional, 1904-1944
- i. Reappointment as Aide, U.S. Geological Survey, June 20, 1904
- j. Resignation from U.S. Geological Survey and Establishment of Private Practice as Consulting Geologist and Engineer, June 1, 1909
- k. Passport: Ralph Arnold, Oct. 5, 1915
- l. Passport: Winninette Stokes Arnold, April 28, 1931
- m. Pioneer Papers: Old Timers Reunion, 1924, 1930
- n. Ralph Arnold - A Happy Memorial, by C. Fred Shoop, May 10, 1961
- o. Miscellany
4. Belonging to Holmes-Locke Family, 1853-1914
- a. Excerpts from Book of the Lockes, 1853
- b. Record of Joseph and Mary Holmes visit throughout Southeast and Middle West, U.S.A., Jan. 6 - May 2, 1896
- c. Manuscript: Visit of Joseph and Mary Holmes to Imperial Valley [California], Nov. 24, 1914
- Box 3 IV. Business Papers
1. Belonging to Delos Arnold and/or his wife, Hannah Richardson Mercer Arnold 1867-1914
- a. Agreements, n.d. - 1906
- b. Bank Book, 1904-1914
- c. Certificates of Membership, 1888, 1907
- d. Certificates of Redemption, 1885, 1888
- e. Certificates of Title, 1888-1894
- f. East Riverside Water Co., 1895-1896
- g. Indentures, 1867-1901
- h. Insurance, 1877-1904
- i. Investments, 1880-1890
- j. La Mesa Packing Co., 1907-1908
- k. Ledgers (bound), 1886-1907
- l. Passports, 1873-1908
- m. Petitions, n.d.
- n. Promissory Notes, 1895-1909
- o. Receipts, 1887-1909
- p. Right of Way, 1884
- q. Satisfaction of Mortgages, 1889-1899
- r. Taxes, 1887-1906
-

s. Miscellany, 1895-1906

V. Correspondence, 1836-1960

Box 4

1. Arnold, Andrew and his wife, Lydia Wilbur Arnold to his brother, Joseph Arnold, March 19, 21, 1836
2. Arnold, Millard and his wife, Polly Arnold, to their children and grandchildren, 1843, 1852, 1853
3. Arnold, Delos: Letter book, 1888-1906
4. Arnold, Delos to A-Z, 1899-1903
5. A-Z to Delos Arnold, 1894-1909
6. Arnold, Mr. or Mrs. Delos Arnold to their son, Ralph, and/or his wife, Winninette Stokes Arnold, 1889-1909
7. Arnold, Ralph to his father and mother, Mr. and Mrs. Delos Arnold, 1905-1907
8. Arnold, Ralph to his wife, Winninette Stokes Arnold, 1912-1946
9. Arnold, Ralph to his daughter, Elizabeth, and/or her husband, W.R. McKee, 1945-1946
10. Arnold, Ralph to his daughter, Winninette, 1935-1946
11. Arnold, Ralph to his niece, Shirley Wood, 1946-1947
12. Arnold, Winninette [Mrs. Ralph] to her father-in-law, Delos Arnold, 1907.
13. Arnold, Winninette Stokes [Mrs. Ralph] to her husband, Ralph Arnold, 1912-1931
14. A-Z to Winninette Stokes Arnold, 1900-1934
15. A-Z to their cousins, Ralph and/or Winninette Stokes Arnold, 1902-1949
16. A-Z to Ralph and/or Winninette Stokes Arnold, 1899-1950
17. Holmes, M[ary] A[rnold] to her brother, Delos Arnold, 1895
18. [Holmes], Aunt Mary [Arnold] to her nephew Ralph and his wife, Winninette Stokes Arnold, 1902-1915
19. [Pierson], Aunt Libbie [Mercer] to her nephew Ralph and his wife, Winninette Stokes Arnold, 1923-1944
20. Stokes, Grandma A.E. to her granddaughter, Winninette [Mrs. Ralph Arnold], 1900
21. Stokes, Frank to his daughter Winninette and/or her husband, Ralph Arnold, 1899-1907
22. Stokes [Mr. and Mrs. Frank] to their daughter Ora, and their son-in-law, Ralph Arnold, 1924, 1928
23. Stokes, Frank, Jr. to his sister, Winninette, Mrs. Ralph Arnold, 1899
24. [Stokes], Letta Arnold to her parents, Andrew and Rebecca Colburn Arnold and her sister, Mary Arnold Holmes, 1872
25. Ora Stokes to her brother-in-law, Ralph Arnold, 1903-1904
26. Stokes, W.H. to his niece, Winninette and her husband, Ralph Arnold, 1902
27. Walsworth, Anna M. [Mrs. Avery] to her nephew, Ralph Arnold, 1908
28. Miscellaneous, 1913-1946

VI. Diaries, 1872-1906

Box 5, 6, 7, 8

1. Delos Arnold, 1872-1873, 1883, 1890-1893, 1894-1898, 1898-1903, 1904-1906

Box 9

2. Ralph Arnold, 1897, 1899, 1902, 1904-1905, 1929, 1933, 1938-1952

Box 10

3. Winninette Stokes Arnold, 1902, 1903, 1907, 1912-1920, 1922, 1934
4. Ora Stokes, 1912

Box 11

VII. Photographs - Family + Personal

A-D Material re Pasadena in the Gay Nineties

Physical Description: (also 3 scrapbooks)

B. BUSINESS PAPERS, 1890-1950

Additional Note

Belonging to Ralph and/or Winninette Stokes Arnold

- Box 12 **I. Accounts, 1890-1933**
- Box 12, 13 **II. Assets, 1916-1939**
- Box 12, 13 **III. Banks, 1908-1947**
1. Bank of America, Los Angeles, 1930-1942
 2. Chase National Bank, New York, 1929-1936
 3. Citizens National Trust & Savings Bank of Los Angeles, 1926-1932
 4. Farmers & Merchants National Bank of Los Angeles, 1923-1942
 5. First National Bank of Pasadena, 1908-1932
 6. First Trust & Savings Bank of Pasadena, 1918-1947
 7. Mechanics & Metals National Bank, New York, 1916-1919
 8. Merchants & Mechanics National Bank, Los Angeles, 1916-1919
 9. Pacific Southwest Trust & Savings, Pasadena, 1922-1925
 10. Security First National Bank, Los Angeles, 1931-1947
 11. South Pasadena National Bank, 1928-1934
 12. Union National Bank of Pasadena, 1916-1922
- Box 13 **IV. Income, 1908-1936, 1954-1955**
- Box 13 **V. Insurance, 1906-1949**
- Box 13 **VI. Investments (Other than mining and petroleum), 1908-1950**
1. Citrus Groves, 1909-1939
 2. Land, Water and Cattle Companies, 1909-1947
 3. Pan-American Hardwoods, 1912, 1920-1935
 4. Real Estate, 1908-1949
 5. Miscellaneous, 1914-1945
- Box 14 **VII. Leases, 1917**
- Box 15 **VIII. Promissory Notes, Receipts, etc., 1912-1949**
- Box 15 **IX. Taxes: Federal, State, County and Municipal, 1906-1949**

C. CORRESPONDENCE, GENERAL: 1899-1960

Box 16-128

Mr. Arnold filed various business papers, brief reports, legal papers, etc. with his correspondence for his own convenience and that of his office help. Whenever feasible, this order has been retained for the convenience of readers. Some correspondence pertaining to Mining and Petroleum companies and projects is filed with related papers under those two heads.

D. FIELD BOOKS, 1899-1957

Scope and Content Note

The early Field Books for Stanford University, 1899, and the U.S. Geological Survey, 1900-1909, furnish the basis for the work upon which Mr. Arnold established his professional reputation as a paleontologist and petroleum engineer.

Box 129

I. Arnold, Ralph:

1. Pacific Coast and Southern California, Mexico and Trinidad, 1899-1915

Box 130

2. Arizona, California, Montana, New Mexico, Oklahoma, Oregon, Texas and Washington, 1944-1957

II. Garfias, V.R.

1. California and Nevada, 1909-1910

E. LEGAL PAPERS, 1911-1947

Scope and Content Note

As with General Correspondence, legal papers pertaining to specific Mining and Petroleum companies and projects have been retained under those heads.

Box 131

I. Law Suits, 1918-1946

1. **Ralph Arnold, Alfred F. Andrews and Frank C. Tracy: Citation for contempt, 1928**
2. **J.E. Barton and E.D. Thorn vs. J.H. Pierce, Superior Court, Tulare Co., California**
3. **Big Bear Land and Water Co. vs. Ralph Arnold 1944-1946**
4. **W.S. Cazort vs. G.L. Bahner, 1924**
5. **F.C. Dougherty vs. Hilda Oschner, 1930**
6. **Pierre Estrem et al vs. Honolulu Oil Co. et al, 1940**
7. **William A. McNeil vs. W.S. Kingsbury, 1922**
8. **National Supply Co. vs. Macmillan Petroleum Corp., 1934-1935**
9. **Pan American Petroleum & Transport Co., 1924-1935**
10. **C.G. Tibbens vs. Ralph Arnold, 1918**
11. **R.M. Trevezant vs. Ralph Arnold, 1935-1939**
12. **U.S. Bureau of Internal Revenue vs. Pierce Oil Corp., 1932-1934**

II. Stereo-Annunciator Co., 1913-1916

III. Miscellaneous, 1911-1947

F. MANUSCRIPTS, 1898-1960

Box 132

I. By Ralph Arnold

Scope and Content Note

Bulletins, Editorials, Monographs, Book Reviews, Lectures and Talks, 1898-1945

1. Conservation of Oil and Gas Resources of the Americas, 1916
2. Cooperative Wildcatting in the Oil Industry, n.d.
3. Chromium (Stanford University), 1898
4. Depletion of Oil Laws, 1919
5. Depreciation of Oil Lands, n.d.
6. Derelict Custodians of our Great Natural Assets, 1927
7. Dome Structures in Conglomeration, n.d.
8. Factors Governing Occurrence of Petroleum in Certain California Fields
9. Geology of San Pedro Bay (Master Thesis for Stanford University), 1900
10. Geology of Terminal Island, 1945
11. Good Citizenship (talks before Pasadena Parents Association, 1907)
12. Interpretation of So-called Paraffin Gulf Coast Oil Fields, n.d.
13. Mineral Optics, n.d.
14. Mud Volcanoes and Fumeroles, n.d.
15. Navajo Trip: Geologic Survey by Arnold and O'Dell, 1954-1956
16. A New Fossil Crenella from California, n.d.
17. Occurrences of Petroleum in Fields of the Coastal Counties of California
18. Oil Fields of California
19. Oil Geology in Relation to Valuation, 1918-1919
20. Oil Industry and the Public, 1926
21. Oil Possibilities of the Sacramento Rancho, San Luis Obispo County, California, 1917
22. The Oil Situation (address before American Institute of Mining and Metallurgical Engineers), 1921
23. Oil Upon the Waters (address to be given Foreign Trade Council at Oakland, California, Sept. 17, 1930)
24. One Duty of the Economic Geologist (editorial for Economic Geology)
25. Petroleum Industry in California in 1910
26. Plan for Coordinating Oil Exploratory Work in Foreign Countries
27. Principles to Govern the Evaluation of Oil and Gas Lands, n.d.
28. Problems of the Oil Industry, n.d.
29. Problems of Oil Lease Valuation, n.d.
30. Proposition for Developing Oil Dome, Rock Springs, Wyoming
31. Publicity (remarks before Tulsa Meeting, American Association of Petroleum Engineers), March 24, 1927
32. Relation of Engineering Appraisals to Fair Market Value, 1918
33. Santa Maria Oil District, California, 1907
34. Some Rock from Sawtooth Range of the Olympic Mountains, Washington
35. Steam Wells at Geyser, Sonoma County, California, 1927
36. Outline for Summary of Developments in California Oil Fields for 1911
37. Two Decades of Petroleum Geology, 1903-1922
38. Valuation of Oil Properties Under Revenue Act of 1918, 1918
39. Miscellaneous
40. Fragments

Box 133

II. By Ralph Arnold as Co-Author

Scope and Content Note

Monographs, Remarks, Reports, Symposiums, etc., 1908-1929

1. Arnold and Garfias: Casing of Oil Wells, n.d.
2. Arnold and Garfias: The Cementing Process of Excluding Oil in the California Oil Fields, n.d.
3. Arnold and Garfias: Comparison of Methods Used in California for Recovering Oils, n.d.
4. Arnold and Garfias: Cost of Drilling Oil Wells in California by the Standard Method, n.d.

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5. Arnold and Pemberton: Description of the Ventura Quadrangle, 1917
 6. Arnold and Garfias: History of Oil Development in California, n.d.
 7. Arnold and Hannibal: Marine Tertiary Stratigraphy of the North Pacific Coast of America, n.e.
 8. Arnold and Clapp: Movement for Conservation of Natural Gas in the United States, 1912
 9. Arnold and Hannibal: New Mollusca from the Marine Tertiary Deposits of the North Pacific Coast of America, n.d.
 10. Arnold and Loel: New Oil Fields of the Los Angeles Basin, 1921
 11. Arnold and Garfias: Pipe Line Transportation of Oil in California, 1914
 12. Arnold, Miller and Bissell: Point Fermin Landslides, 1929
 13. Arnold and Allen: Report of the Special Committee on Mines Taxation, 1921
 14. Arnold et al: Symposium on Foreign Oil Possibilities, 1922
 15. Arnold Anderson and Eldridge: Work of the U.S. Geological Survey in California, 1908

Book Length

1. Data on the Petroleum Industry, by Arnold and Kemnitzar (published by Harper Brothers as Petroleum in the United States and Possessions), 1931
2. History of the California Oil Industry, by Arnold et al (unpublished, as a book), 1912-1959
3. The First Big Oil Hunt in Venezuela, by Arnold, McCreedy and Barrington (published by Vantage Press) 1960.

Scope and Content Note

(See Petroleum Papers, Foreign, Trinidad and Venezuela for related material).

Box 134

III. By Others, 1900-1942

1. M. Albertson: Oil of Louisiana and Texas, 1912
2. American Assoc. of Petroleum Geologists: Discoveries of California Fields, Lands, Zones and Pools, 1946
3. Armstrong, Frank C.: Effect of Exportation of Capital upon the Copper Industry, 1930
4. Associated Petroleum Engineers: Literature of the Oil Industry, Bulletins No. 2 and 3, 1920
5. [Bain]: A Review of the Oil Industry in California, 1909
6. Barber, W.B.: Petrography of the Coast Ranges of California, n.d.
7. Barton, Donald C.: Geographical Prospecting for Auriferous Gravels in California, 1931-1933
8. Bennett, Holly Reed: Petroleum Resources, Austria-Hungary, Roumania, Germany, Italy, 1914
9. Blochman, L.E.: The Santa Maria Oil Fields, 1942
10. Bryan, Barnabas: Senate Conspiracy to Pervert the Truth about Gasoline, n.d.
11. Burrell, George A.: The Condensation of Gasoline from Natural Gas, 1914
12. Chaney, Ralph Works: The Petroleum Resources and Industries of Russia, 1914
13. Clapp, Frederick G.: Contribution of Oil Geology to Success in Drilling, 1920
14. Clark, F.W.: Synthesis and Origin of Petroleum, n.d.
15. Conkling, R.A.: Oil of Canada, n.d.
16. Day, D.W.: The Utilization of Petroleum, 1914
17. Durand, W.F.: Oil Pipe Line Engineering, 1914
18. Excess Tax Board Member: Valuation of Oil and Gas Industry, 1919
19. Fairbanks, H.W.: Notes on the Writer's Geological Work in California with Especial to the Oil Bearing Formations of the Coast Ranges, n.d.
20. Fairbanks, H.W.: Review of My Early Published Investigations on the Geology of the Coast Ranges..., n.d.
21. Gibson, T.W.: Principles of Mining Taxation, n.d.
22. Goas, T. L. E.: Naptha Properties in Poland (Scheme re Acquisition), 1919
23. Gordon, C.H.: Some Features of the Geology of Magdalena and Black Range Region, New Mexico, n.d.
24. Hahn, John: Essay on Petroleum, Its Constituents and Where It Originates within the Earth's Crust in California, 1919
25. Harmon, A.K.P. Jr.: Geologic Reconnaissance of Stillwater and Mussell Steel Counties, Montana, 1913
26. Herald, J.M.: Preliminary Outline of the Petroleum Industry of Colorado, Wyoming, Montana, and Utah, [1914?]
27. Holms, W. Leonard: Proposed Manufacture of Alkaline Cyanides in the Republic of Mexico, 1935
28. Hasler, J. William: A Study of the J.H. Wilde Drill Core, 1941
29. Hoskins: Algebraic Computation of Stresses, n.d.

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30. Hoyt, W.G.: Index-Inventory Filing System for Recording and Collating Water Resources Data in Use by Land Classification Board, 1921
 31. Knight, Wilbur C.: Geology of the Oil Fields; the Development of Wyoming's Oil Resources, 1917
 32. Lemmon, A.B.: Contact Metamorphism, n.d.
 33. Lemmon, Allen B.: Mother Lode, n.d.
 34. Meinzer, O.E.: Quantitative Methods for Estimating Ground-Water Supplies, n.d.
 35. Miller, W.Z.: A Report on the Kansas-Oklahoma Oil Field, n.d.
 36. Morris, Henry C. and David White: Progress of the Petroleum Development of the World. (California, Illinois, Indiana, Virginia, W. Virginia, Central America, West Indies, Europe, Asia and Africa), 1922
 37. Morse, W.C.: Petroleum in South America, n.d.
 38. Mosonyi, E.: Values, 1933
 39. Olshansen, B.A.: The Differentiation of Igneous Magmas, 1901
 40. Olshousen, B.A.: Igneous Rocks of the California Coast Range, 1901
 41. Olshousen, B.: Ontogeny and Phylogeny in the Brochiopoda, 1900
 42. Patterson, L.C.: A Technical and Economic Appraisal of the Kalunite Process for Extracting Alumina from Alunite Ores; Aluminum Bearing Clays and Low-Grade Siliceous Bauxite, n.d.
 43. Pepperberg, Leon J.: Notes on the Geology and Oil Resources of Central Wyoming, 1913
 44. Percy, S.H.: 44 Facts Not Generally Known about the Astounding Profits the Mining Industry is Capable of Returning, n.d.
 45. Peterson, S.F.: Petroleum (Geology 45)
 46. Redwood, Sir Boverton: Notes on the Petroleum Resources of China, n.d.
 47. Rice, Archie: Rambling Notes during the Two Days, 1921
 48. Richardson, Clifford Origin of Petroleum and Asphalt, 1915
 49. Rogers, David Banks: Native Cultures along the Santa Barbara Coast, 1942
 50. Rogers, Daniel C.: The Relation of Business to Taxadion, 1919
 51. Rush, F.W.: North America During the Cretaceous Period, n.d.
 52. Sayers, R.R. (Director): Bureau of Mines Activities, 1942
 53. Shaw, Eugene Wesley: Principles of Natural Gas Valuation, n.d.
 54. Slaker, F.L.: The Physical Geography of the Palaeozoic, 1901
 55. Spaulding, M.H.: The Morphology of the Cephalopod Shell, 1901
 56. Stacy, Paul S.: A Kind Word for Shallow Gas Drilling, n.d.
 57. Tansey, V.O.: The Petroleum Industry in Japan and the Philippine Islands, 1914
 58. Taylor, W.G.: Electric Drive for Oil Wells, 1914
 59. Thompson, W.E.: Proposed Mining Expedition in Yukon Territory, 1933
 60. [U.S. Geological Survey]: Possible Oil Territory in So. Oklahoma, 1912
 61. W., B.: Petroleum in Argentina, n.d.
 62. Washburne, C.W.: Capillary Concentration of Gas and Oil, 1915
 63. Wells, J.M. and J.I. Johnstone: Treatment of Boiler Feed Water in K.T. & O. Co. Plants at Coalinga, n.d.
 64. Wells, S.W.: Petroleum in Pennsylvania, New York and West Virginia, n.d.
 65. Woolsey, L.H.: What the State Department Can Do to Aid in Foreign Oil Development, 1922
 66. Yewell, Capt. P.R.: Dry Concentration; Technical Data and Proposed Operations, 1941-1942
 67. n.a.: Generation and Distribution of Power, n.d.
 68. n.a.: Influence of California Fuel Oil on the Mining Industry of the West, n.d.
 69. n.a.: Mine Taxation, n.d.

G. MAPS, 1890-1954

Additional Note

*: see Preliminary List of Maps

Box 135

I. Alaska, 1898

1. U.S. Geological Survey, 1898

II. Arizona, 1883, 1886

1. U.S. Geological Survey, 1883, 1886

III. Arkansas, 1929

1. U.S. Geological Survey, 1929

IV. California, 1890-1954

1. Index of Topographic Maps

2. State of California, compiled from official records of General Land Office, 1900

3. Northern Section, 1928

4. Southern Section

5. Northern Section Showing Faults

6. Southern Section Showing Faults

7. Mono Lake

8. Reclamation District, Colusa and Glenn Counties, 1920

9. San Francisco and Suisson Bays

10. San Joaquin Valley, 1914, 1938

11. Santa Barbara Area (Bulletin [321]), 1905

Box 136

California Counties

1. Fresno County

a. Geological and Structural Maps, 1907-1927

2. Imperial and Riverside Counties

a. Palo Verde Valley, 1926

3. Kern and Kings Counties, 1904 -

a. Coalinga Field, Geological and Structural

b. Kettleman Hills

4. Lassen County, 1908-1910

a. Lassen County, 1910 (bound)

b. Susanville Land District

5. Los Angeles County, 1893-1933

a. Corona Quadrangle

b. Fernando Quadrangle, 1897

c. Long Beach Harbor, n.d.

d. Los Angeles - Calabasas

e. Los Angeles Harbor, 1935

f. Los Angeles Tract, No. 9520

g. Pasadena Sheet, 1894

h. Pomona Sheet

i. Puente Hills, 1913

j. Puente Sheet

k. Redondo Villa Tract, 1921

l. Salt Lake, Plate 9

m. San Pedro Sheet

n. Santa Fe Springs, 1923

o. Santa Fe Springs Supplement

p. Santa Monica Sheet, 1898

q. Santa Monica - Ocean Park, 1931

r. Santa Monica - Rebok Lease

s. Santa Monica

t. Santa Ynez Quadrangle, 1905

u. Signal Hill, Long Beach

v. Southern Pacific Land Grants, 1921

Box 137

- w. Torrey-Wiley Canyon
 - x. Venice Tract No. 4321, 1921
 - y. No. Whittier Heights, 1913, 1915
 - z. Zelzah Quadrangle, 1932-1933
 - 6. Orange County, 1901, 1906, 1939
 - a. Anaheim Quadrangle, 1901
 - b. Bolsa-Chica Area, Land and Fault Map, 1906, 1939
 - 7. San Benito County, 1910
 - a. Vallecitos Valley. Sections 1 and 2
 - b. Arnold District, 1910
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- Box 141 I. Arnold Exploration Co. (Arnex), 1933-1939
1. Prospectus
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- Box 142 7. Correspondence (See also Arnex Reports below), 1933-1937
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 - (9) Carson Hill Mine, San Bernardino County, California, 1932-1935
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 - (13) Gold Hill Mine, Siskiyou County, California, 1933
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 - (21) Larson Gold Mine & Milling Co., Boundary County, Idaho, n.d.
 - (22) Boise Basin, Idaho, 1933-1934
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 - (25) Prickly Pear Placer, Lewis and Clark County, Montana, 1933
 - (26) Wickes Amalgamation, Wickes, Montana, 1933
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 - (29) Alton Tunnel Property, Boulder County, Colorado, 1933
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 - (31) Dayton Mine, Comstock Mining District, Nevada, 1933
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 - (33) Hillsboro Mines, Hillsboro, New Mexico, 1933
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- (46) Empire Mines, Lewis and Clark County, Montana, 1933
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 - (106) Fortuna Mine, No location, 1933
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 - (115) Golden Messenger, York, Montana, 1933-1934
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 - (119) Green Mountain-Jackson Mine, Plumas County, California, 1933
 - (120) Gross Street Mine, Tuolumne County, California, 1931
 - (121) Grubstake, Sierra Nevada, California, 1933
 - (122) John F. Guest Properties, Silimakeen District, British Columbia, 1932-1933
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 - (124) Hardway Mine, Amador County, California, 1933
 - (125) Pamlico Paulo Mines, Mineral County, Nevada, 1932-1934
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 - (133) Kelsey Ranch Mine, Merced County, California, 1931
 - (134) Kelly Mine, San Bernardino County, California, 1932
 - (135) Kernick Mine, Mino, Nevada, 1933
 - (136) Keystone-Gold Field Consolidated, Flathead County, Montana, 1933
 - (137) A.B. Lee Mine, Copper Basin, Arizona, 1931-1932
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 - (148) Gates Mine, Trinity County, California, 1933-1934
 - (149) Moffitt Placers, Tuolumne County, California, 1933
 - (150) Greene Mine, Pima County, Arizona, 1932-1934
 - (151) Mountain Monarch Mine, Inyo County, California, 1933
 - (152) Mountain Springs Canyon Mine, Inyo County, California, 1931
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 - (156) Niagara Summit Mine, no location, 1932
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 - (158) Nuevo Callo Mine, Callao Mining District, Venezuela, 1932
 - (159) Oker Properties, Lewis & Clark County, Montana, 1932
 - (160) Ophir Gulch Mine, Powell County, Montana, 1933
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 - (163) Palmer Mine, Gold Hill, Utah, 1932
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 - (166) Plymouth Mine, Amador County, California, 1931
 - (167) Poorman Creek Placer, Lewis & Clark County, Montana, 1933
 - (168) Quesnel River Placer, Caribou District, British Columbia, 1933
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 - (170) Red Cloud Mine, Tuolumne County, Calif, 1934
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 - (173) Selway National Forests, Lewiston, Idaho, 1932.
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 - (176) Shenandoah Mine (Map only), Nevada, n.d.
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 - (190) Western Merger Mines, Yavapai County, Arizona, 1933
 - (191) Wharton Placer, Boise County, Idaho, 1925
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 - (193) Winterville Placers, no data, 1932
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 - (209) Engles Copper Mine, Plumas County, Montana, 1933
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 - (212) Bullfrog Mines Company, Nye County, Nevada, 1936
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 - (216) Blazing Star Mine, Calaveras County, California, 1934
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- (220) Oro Grande Mine, Yavapai County, Arizona, 1902, 1932-1937
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 - (225) Silver King Mine, Pinal County, Arizona, 1934-1937
 - (226) Aetna and Great Western Mines, Lake County, California, 1932-1933
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 - (229) Vandalia Mine, Eldorado County, California, 1934
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 - (231) Mendrum Tunnel & Mining Properties, San Miguel and Ouray Counties, Colorado, [1896]-1935
 - (232) Gray Eagle-Oro Belle Mines, Yavapai County, Arizona, 1935
 - (233) Jumper Mine (Amalgamation with Mezeppa and New Ezra Mines), Yavapai County, Arizona, 1934-1935
 - (234) Clark Ranch Gold Placer, Douglas County, Colorado, 1933-1936
 - (235) Missing
 - (236) Cimmaron Mine, Eldorado County, California, 1934-1936
 - (237) "Jack Tardy" Mining Claims, Soledad, Kern County, California, 1932-1935
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 - (240) D. & B. Steptoe Mine, Cherry Creek Region, Nevada, 1935-1936
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 - (242) Stewart Gravel Mines, Placer County, California, 1932-1938
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 - (249) Companero Gold Mining Group, Sonora, Mexico, 1934-1935
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 - (258) Diamond Mining & Engineering Co., Arkansas, 1935
 - (259) Peterson Ridge, Yuma County, Arizona, n.d.
 - (260) H.B. Bardue re Mining Properties, California, Oregon, 1933-1936
 - (261) Apex Mine, Gila County, Arizona, 1936
 - (262) Wild Rose Group of Mines, Lyon County, Nevada, 1935
 - (263) Bendick, Louis G. re Mining Properties, Inyo Co., Calif., 1935-1936
 - (264) Boulder & Gopher Mines, Eldorado County, California, 1935-1936
 - (265) Molybdenum Mines, Clark and Esmeralda Counties, Nevada, 1932-1938
 - (266) Bland Mines, Sandoval County, New Mexico, 1920-1936
 - (267) Montizona Copper Co., Pima County, Arizona, 1920-1937
 - (268) McKinley Lake Gold Mine, Cordova, Alaska, 1935-1936
 - (269) Eureka Mine, Republic District, Washington, 1917-1938
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 - (276) Summit Mine, Shasta County, California, 1932
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- (278) Paragon Mine, Placer County, California, 1938
- (279) Quilp Mine, California, 1938
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- (281) Russell Mine, Tucson, Arizona, 1938
- (282) South San Francisco-Silver-Lead-Zinc Mine, San Francisco, California, 1937-1938
- (283) Smith, P.F., Corresp. re various Mines, Alaska, Brit.Columbia, California, Washington, 1936-1937
- (284) Same, 1938
- (285) Kougarok Placer, Taylor, Alaska, 1936-1938
- (286) Lost Eureka-Idaho-Maryland Lode, Nevada County, Calif., 1937-1938
- (287) Mayflower Drift Mine, Amador County, California, 1937-1938
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- (289) Red Elephant Mines, Lawson, Colorado, 1937
- (290) Mongellon Mining Properties, Catron County, N.Mexico, 1938
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- (292) Carpender Mine, El Dorado County, California, 1933-1935
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- (294) Missing
- (295) Bard Creek Mine, Gilpin County, Colorado, 1934
- (296) La Plata Gold Mining Proper, Durango, Colorado, n.d.
- (297) Miscellaneous Arnex Correspondence, 1933-1938
- (298) Potash, 1924-1936
- (299) Negroia Arch, Emery & Wayne Counties, Nevada, New Mexico, Utah, n.d.
- (300) Miscellaneous, 1933-1936
- (301) East Fork Area, Ventura County, California, 1936
- (302) See Petroleum Reports
- (303) Missing
- (304) Missing
- (305) Reports:
 - a. Mogul & Monitor Mining Dists., Alpine Co., Calif., 1915
 - b. Curtz Consolidated Mines Co., Alpine Co., Calif., 1915
 - c. Hercules Mining Property, Alpine Co., Calif. 1915
 - d. So. Peacock Mining Claims, Weiser, Idaho, 1905 (missing)

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- (306) Missing
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- (308) Verner, A.E., British Columbia, 1935-1938 2 folders
- (309) Missing
- (310) Missing
- (311) Missing
- (312) Missing
- (313) Summary of Mining Reports, 1933
- (314) Tilden Mines, Clear Creek and Gilpin Counties, Colorado, 1938
- (315) Baron Mine, Boulder Mining Dist., Colorado, 1937
- (316) Missing
- (317) Quigley Mine, Kantishna, Alaska, 1937-1938
- (318) Trinity River Placer, California, 1937
- (319) Moorehead Mine, Caribou District, Br. Columbia, 1937
- (320) Missing
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- (322) Missing
- (323) Missing
- (324) Missing
- (325) Old Mining Reports to 1916
 - a. Montreal, Copper Canyon, Copper Basin & Adelaide Bearer Co., Utah
 - b. Copper Canyon Property, Lander Co., Nevada
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 - d. Grand Mountain Group, Big Bug Dist., Arizona
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- a. Castle Peak Mining Co., Storey Co., Nevada, n.d.
 - b. Rinconada Quicksilver Mine, San Luis Obispo Co., California, 1940
 - (327) Rex Montis Mining Claims, Inyo Co., California, 1935
 - (328) Oklahoma Salted Mine, 1932
 - (329) Silver Crown Mine, Yavapai Co., Ariz., n.d.
 - (330) Gold Mt. Mines, Colusa Co., Calif., 1927
 - (331) Mineral Resource Co., Grant Co., Ariz., 1938-1939
 - (332) Mt. View Mine, Tuolumne Co., Calif., 1939
 - (333) Pioneer Chief Mine, Calaveras Co., Calif., 1939
 - (334) Ortiz Mine Grant, Santa Fe Co., New Mexico, 1937-1939
 - (335) Bennett Dredge, San Luis Obispo Co., Calif., 1934-1937
 - (336) Ilmenite Iron Titanium, So. Wyoming, 1940
- Box 157 9. Late Reports: Alaska, Calif., Idaho, Mont., Nev., Utah, 1933-1938
- Box 158 10. Mother Lode Consolidation, California, 1928-1937
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Scope and Content Note

Those numbered were included in an Arnold list of Petroleum Reports. Others were unnumbered. All reports are alphabetically arranged by States and Counties.

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 - a. Hillabee Mine, 1931

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- 1. Alaska Copper Proposition, 1916

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 - a. Arizona Lead Mines, 1942
 - b. Cochise Group of Mines, 1942
 - c. Melgren Mines, 1928
- 2. Gila County
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- 3. Graham & Pinal Counties
 - a. Coal Mines, 1922, 1927
- 4. Mohave County
 - a. Ark & San Antonio Mines, 1927
 - b. Blue Bell Mining Claims, 1911-1918
 - c. Golden Door Mine, 1945
 - d. Malco Gold Mining Co., 1939
 - e. San Francisco Gold Mines Co., 1916, 1926-1929
 - f. Tom Reed - Gold Road Mining District, 1915
- 5. Pima County
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 - XVII. Montana, Wyoming, and Canada
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 - 2. Kevin-Sunburst Field, Toole Co., Mont., 1926-1930
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 - 7. San Juan County
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 - a. Hacienda Mina Brea, n.d.
 - b. Peru Syndicate, Ltd., Mancora Properties (500 1/2), 1920
 - c. Peruvian & Ecuadorian Oil Fields, 1921
 - 6. Trinidad & Venezuela
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 - a. Historical Background for Development of Petroleum Industry, 1870-1916
 - b. Oil Fields and Concessions
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 - bb. Oil Fields of Eastern Venezuela, 1914, 1937
 - cc. Concessions Held by Principal Oil Companies in Venezuela, 1933
 - dd. Key Map to Oil Concessions in Northern Venezuela, 1912
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 - ii. Perija and Limon Fields, Western Venezuela, 1914
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 - aa. General Asphalt Co., 1911-1919
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- d. Manuscripts
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 - gg. Macready, "Petroleum Resources in Northeastern Venezuela," 1922
 - e. Maps, 1912-1916
 - f. Memoranda and Notes, 1913-1916
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(See also Photograph Albums below under K.)

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h. Reports

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- bb. Arnold, Ralph: Geology of Western Venezuela, 1913
- cc. Arnold, Ralph: Onia Region, Merida, Venezuela, 1916
- dd. Arnold, Ralph: Perijá-Rio Limón Region of Zulia, Western Venezuela, 1915
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- ff. Boyd, Harold: Geology of Punceres and Neighboring Region, 1913
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K. PHOTOGRAPHS

Bound: Transferred to the Rare Book Department, 9/7/74, 66 volumes.

I. First Series, Vols. 1-6 - Ralph Arnold's Photo Books, largely California Petroleum photos taken while Mr. Arnold was in the service of the U.S. Geological Survey, 1903-1908

II. Second Series, Vols. 1-3 Venezuela, 1912-1914; Vols. 4-5 Trinidad, 1914-1918

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Physical Description: (numbered in red),

IV. Fourth Series, Vols. M. (1-11), California, the West, Eastern U.S., Southern U.S., Panama, 1913-1927

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VIII. Eighth Series, U.S. and Mexico - Petroleum (but includes many personal photographs), 1923-1935

IX. Ninth Series, 9 Volumes, (chronologically marked), California, The West, Mexico, 1936-1954

X. Miscellaneous Petroleum, Montana, Wyoming, and British Columbia, 1927

I. Loose: Personal and Professional

Box 218

1. Adams, Thomas, Professor of Economics at Yale University, Chairman of Income Tax Board, Bureau of Internal Revenue, Greatest tax expert in U.S.

2. Amau, Charles, Petroleum Engineer and Business Associate

3. Anderson, Robert Van Gleck, Petroleum Engineer

4. Archdeacon, W.H., President Pasadena Chamber of Commerce

5. Barneson, Capt. John, Organized General Petroleum Co.

6. Barneson, Lionel T., President, General Petroleum Co.

7. Biscailluz, E.W., Sheriff, Los Angeles County, 1933

8. Blackwelder, Eliot, Head Geology Department, Stanford University

9. Bledsoe, Benjamin F., President, Stanford Alumni Association, 1915, Judge, U.S. Court

10. Bourdette, John W., Attorney for Spreckles Family, 1932

11. Bridge, Norman A., Pasadena Physician, Chairman Board of Trustees, Throop Polytechnic Institute, Partner of E.L. Doheny Oil Operation

12. Brooks, Alfred, U.S. Geological Survey, Alaska

13. Burge, R.A., President, Standard Oil Co. of California

14. Burnham, Major Fred R., Scout during Boer War, 1925

15. Burrage, Albert C., President, Texas Graphite Co.

16. Chamberlain, Thomas Gassner, Professor of Geology, University of Chicago, Director of Walker Museum

17. Champlin, H.H., President, Champlin Oil Company

18. Clark, Charles H., Texas Oil Operator, 1926

19. Cochran, George I., President, Pacific Mutual Life Co.

20. Crocker, William H., San Francisco Banker, 1960

21. Culliman, J.S., Organized Texas Oil Co., 1928

22. Daers, W.W., Professor of Physical Geography, Harvard University, 1923

23. Dallas, Roderick W., Secretary, Coalinga Oil Producers' Association, 1924

24. Daly, R.A., Head, Geology Department, Harvard University

25. Darnell, J.L., Internal Revenue Bureau, 1919

26. Darton, R.A., Exploratory Geologist, Greatest in the U.S., 1930

27. Davis, James J., Chief of Police, Los Angeles, California, 1931

28. Day, Arthur L., Geophysicist, Carnegie Geophysical Laboratory

29. Doherty, Henry L., Oil Producer, Operator Gas & Electric Companies

30. Erb, E.T., Head Geologist, Shell Oil Co., 1925

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32. Erickson, John G., Associate Kalispeel Oil Co., Montana

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34. Fairchild, Herman LeRoy, Geologist

35. Foy, Harvey M., Business Associate

36. Franklin, Wirt, Oil Producer

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37. Fry, Elsie V., Arnold's Secretary, 1918
 38. Garfias, Valentina, Stanford Classmate, Petroleum Engineer
 39. Gillan, Silas Lee, Mining Engineer, 1926
 40. Glasser, Harry, Attorney, 1933
 41. Golyer, E. De, "Most Noted Petroleum Engineer and Geologist in the World."
 42. Gordon, F.V., Pioneer California Oil Operator
 43. Graham, S.C., Los Angeles Oil Economist
 44. Graton, Louis C., Geologist
 45. Graves, Jackson W., Los Angeles Banker and Oil Producer
 46. Gregory, T.C., Stanford Classmate and Attorney
 47. Grinnell, Joseph, "Greatest authority on birds and mammals in California;" organized Museum of Vertebrate Zoology, University of California, Berkeley.
 48. Guiberson, "Nat" - Oil Operator
 49. Hammon, W.P., "Father of Gold Dredging."
 50. Hammond, John Hays, Mining Engineer
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 55. Hollingsworth, C.B., Business Associate
 56. Holmes, J.A., First Director U.S. Bureau of Mines (R.A. organized Petroleum Division of U.S. Bureau of Mines under his direction), 1913
 57. Hoover, Theodore J., brother of Herbert Hoover
 58. Horne, I.S., Collector of Wild Animals, Used in Motion Pictures
 59. Hostetter, Edward, 1931
 60. Hudson, Spencer W., Stanford Classmate, 1924
 61. Hyde, James M., Mining Engineer
 62. Inverforth, Lord, Organized General Petroleum Co.
 63. Jewett, Frank B., Boyhood Friend, Communications Engineer, Throop Institute
 64. Johnson, Wilson, Financier
 65. Jones, Edward, Petroleum Operator, 1931
 66. Jordan, Frank C., Astronomer, 1925
 67. Knopf, Adolph, U.S. Geological Survey, 1906
 68. Lindgren, Waldemar, Geologist, 1914
 69. Loel, Wayne, Geologist, 1924
 70. Lonagan, B.
 71. Long, Percy Waldron, Harvard University
 72. Lowell, Albert Lawrence, President, Harvard University, 1909-1933
 73. Lucey, Capt. J.F., President, Lucey Petroleum Co.
 74. Manning, Van H., and Petroleum Engineer
 75. Matthewson, E.P., Metallurgist, President American Institute Mining and Metallurgical Association
 76. May, Ernest H., Stanford Roommate, 1886, President First National Bank, Pasadena
 77. McCorkle, Roy L.
 78. Mendenhall, W.C., Director U.S. Geological Survey, 1922
 79. Merriman, John O., and Smith, James Perrin, Paleontologists
 80. Messerschmidt, George, American Consul, Maracaibo, 1929
 81. Metson, M.C., San Francisco Oil Operator
 82. Millard, J.
 83. Mudd, Seeley W., Mining Engineer and Financier, 1920
 84. O'Connor, Basil, Head, Infantile Paralysis Assoc., 1917
 85. O'Donnell, A.O., First President, American Petroleum Institute
 86. Oldroyd, Mr. & Mrs. T.S., Owners, Conchological Collection Presented to Stanford University
 87. Osborne, Henry Fairchild, Paleontologist, Head, American Museum of Natural History, 1933
 88. Peeler, Gen. R.L., Oil Operator, 1938
 89. Pepperburg, Leon, Geologist, U.S. Geological Survey
 90. Ransome, F.L., Geologist, U.S. Geological Survey, 1933
 91. Roberts, John C., Oil Operator
 92. Roosevelt, Theodore and Barrington, T.W. at Brighton Field, Trinidad, 1916
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93. Scattergood, E.F., Hydraulic Engineer
 94. Schmidt, E.E., Mayor, San Francisco, California, 1922
 95. Scott, R.J., Chief, Los Angeles Fire Department
 96. Segerstrom, Charles H., Mining Engineer
 97. Shaw, Eugene Wesley, Geologist, U.S. Geological Survey, 1907-1921
 98. Smith, James Perrin, Paleontologist, Stanford University, 1930
 99. Son, Charles A., Oil Producer, Snowlene Oil Co., 1929
 100. Starrett, Paul, Engineer, U.S. Internal Revenue Dept.
 101. Stewart, W.L., President, Union Oil Co., 1925
 102. Storey, Thomas Anderson, Stanford Roommate, "nationally-known gymnasium instructor, authority on venereal diseases and fatigue," 1927
 103. Stoughton, Bradley, Mining Engineer, Secretary, American Metallurgical Society
 104. Strong, A.M., Stanford Classmate, Chemist and Conchologist
 105. Surveying Squad, Stanford University (includes Herbert Hoover) 1893
 106. Timmons, Joseph, Stanford Classmate, Journalist Hearst Newspapers, 1925
 107. Traeger, William J., Sheriff, Los Angeles County
 108. Ulrich, Edward Oscar, Paleontologist, U.S. Geological Survey, 1897-
 109. U.S. Geological Survey Staff, 1864 (includes photograph of Clarence King)
 110. Vaughan, Thomas Wayland, Business Associate
 111. Walcott, Charles, Seismologist, Director, U.S. Geological Survey, 1904
 112. Warren, Gracer Tower, Reporter
 113. Warren, J.T., Honolulu Photographer
 114. Weller, Stuart, Geologist
 115. Wheat, Walter R., Oil Producer
 116. Whitley, Henry A., San Francisco Geologist
 117. Whittier, H.W., Civic Leader
 118. Wilson, E.C., Stanford Classmate, Manufacturer Oil Tools
 119. Winchell, Horace V., Geologist
 120. Wishon, T. Emory, Electrical Engineer, Head San Joaquin Valley Power Co.
 121. Wood, John A. and Gerhardt, Alvin, Mining Engineers
 122. de Mercado, Ingeniero Francisco Vasquez, Head of Committee on Immigration and Communication under President Cardenas of Mexico, 1935

Box 219

II. Loose: Miscellaneous

123. Berryessa Valley Oil Fields, Napa County, California
124. Big Muddy Dome, Wyoming, 1915
125. Buena Vista Hills, 1912
126. Chamber of Mines and Oil, Los Angeles: Annual Banquet, February 8, 1923
127. Class: Geology of Petroleum, University of Chicago, 1914
128. Class: Geology of Petroleum, Harvard University, 1915
129. Coalinga Oil Fields
130. Committee on Petroleum Awards, Pan-Pacific Exposition, 1915
131. Durham Mine
132. Frannie Structure, Wyoming, 1927
133. Glendive-Baker Anticline, Montana
134. Hughes Mine, Leadville, Colorado
135. Jacolitos Dome, Santa Barbara County, California (R.A.'s Partners)
136. Kettleman Hills (First Oil Camp)
137. Lost Hills, So. Kettleman Hills
138. New Mexico Petroleum Photos (taken by G.A. Mau)
139. Ocean Park Fossils
140. Remains of San Francisco Dam
141. Shoe Factory

Box 233 A

III. Loose: Political Associates, Local, State and National, 1922-1928

1. Armstrong, Robert Burns, Washington Correspondent, Los Angeles Hoover Organization
 2. Bainbridge, Alexander Gilbert, Mayor of Minneapolis, Minn. Republican, 1933-1935
 3. Barr, Wesley M., Los Angeles Herald, Republican, 1924
 4. Barthel, J.C., Republican County Central Committee, 1924
 5. Bartlett, Alfred L., Los Angeles Attorney, Chairman Republican County Central Committee, 1924
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6. Baruch, Bernard M., Economist, Republican, 1934
 7. Baum, Willis M., Executive Secretary, Ninth District, Congressional Committee, 1924
 8. Beatty, Fred T., Editor, Montebello News, Republican, 1924
 9. Bowen, W.M., Secretary, University of So. California, Republican, 1924 (responsible for getting R.A. Doctorate at U.S.C.)
 10. Boynton, Albert E., Chairman, Republican State Central Comm., 1924
 11. Brinkoff, Walter, Los Angeles Realtor, Republican, 1924
 12. Bull, Ingall W., Jurist, Superior Court of Los Angeles, Republican
 13. Burdette, Mrs. Clara (Mrs. Robert J.), Delegate to Republican National Convention, Chicago, 1920
 14. Bush, George B., Secretary, Coolidge Republican Club, Los Angeles County, 1924
 15. Butler, Nicholas Murray, Educator, Chairman Republican National Committee, 1924
 16. Chandler, Harry, Editor, Los Angeles Times, Republican
 17. Chandler, Harry, with Hearst, William R., Governor Richardson, Louis B. Mayer, Republicans, c.1920-1922
 18. Chapman, Charles C., Capitalist, Orange Grover, Republican
 19. Clark, Edward Hardy, San Francisco Banker, Republican
 20. Clark, Eli P., Treasurer Coolidge Republican Club of Los Angeles County, 1924; Vice-Pres. Hoover-for-President Club, 1929
 21. Collier, Daniel C., San Diego Republican, 1925
 22. Coolidge, President Calvin (autographed)
 23. Craemer, Justus, Orange County Republican, 1924
 24. Crail, Joseph, Los Angeles County Central Republican Committee, 1924, Congressman from California, 1927-1929
 25. Crease, J.F., Los Angeles Physician, Chairman, Kern County Central Republican Committee, 1925
 26. Culver, Harry H., Banker and Realtor, 1926, Republican Speaker, Hoover-for-President Campaign, 1926
 27. Cryer, George E., Republican Mayor, Los Angeles, 1921-1929
 28. Cushman, R.A., Santa Ana Physician, Republican
 29. Davis, Howard, Journalist, New York Tribune, Republican
 30. Dawes, Rufus Cutler, Statesman, Advisor to Commission Dawes Plan for Reparations, Republican
 31. Dickinson, W.R., Pharmacist, Republican, State and County Central Committee
 32. Dodge, Thomas L., California Assemblyman, Republican
 33. Dollar, Robert, San Francisco Shipowner, Republican, 1931
 34. Eckman, Arthur Wilson, Attorney, Member Los Angeles County Central Republic Committee, 1924
 35. Eckscher, A.H., New York Financier, Republican
 36. Evans, Herbert J., Monrovia Republican, 1924
 37. Evans, S.C., Mayor, Riverside, California, Republican, 1924
 38. Evans, William E., Republican Member U.S. Congress from California, 1927-19
 39. Ferguson, Morris M., Los Angeles Attorney, Member L.A. County Central Republican Committee, 1924
 40. Fitts, Buron Rogers, Los Angeles District Attorney, Republican, 1924
 41. Fowler, William Eric, Succeeded Arnold as Chairman, Los Angeles County Central Committee, Republican, 1928
 42. Fredericks, John Donnau, U.S. Congressman from California 10th District, Republican, 1923-1927
 43. Gabbert, J.R., Editor, Riverside *Enterprise*, 1924, Republican
 44. Garland, William M., Los Angeles Realtor, President of Coolidge Republican Club of Los Angeles, 1924
 45. Giddings, W.W., Vice-President and Manager, Modesto, California Bank, Republican, 1924
 46. Goodcell, Rex Bennette, Attorney, Republican, 1925 (Los Angeles)
 47. Graves, Sidney T., Vice-Chairman, All Parties Reapportionment Committee, 1926-1931
 48. Hale, Marshal, San Francisco, Organized Republican Club of San Francisco, 1923, President of League of Coolidge Republican Clubs of Calif., 1923-2
 49. Harding, President and Mrs. Warren G. (during visit to Los Angeles)
 50. Hearst, William Randolph and Harry Chandler, prominent newspaper man. Hearst a Democrat.
 51. Heartwell, Charles L., Long Beach Banker, Republican, 1924
 52. Hert, Alvin T., Republican
 53. Hert, Sallie A. (Mrs. Alvin T.), Vice-Chairman, Republican National Committee, 1924
 54. Hollingsworth, William J., Chairman, Republican County Central Finance Committee, 1924
 55. Hoover, Herbert (autographed)
 56. Hoover, Herbert (upon receiving honorary degree, Columbia University)
 57. Hoover, Lou Henry (Mrs. Herbert, Sr.) and sons, Herbert, Jr. and Allan) (3)
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58. Hoover, Lou Henry (Mrs. Herbert, Sr.), after receiving degree of Doctor of Literature from Whittier College, Aug. 17, 1928
 59. James, William P., Jurist, U.S. District Court, Republican, 1923
 60. Johnson, A. Burlingame, Pasadena Republican Senator, Legislature of California, 1924
 61. Johnson, Charles G., State Treasurer of California, 1922-.03p, Republican.
 62. Johnson, Hiram Warren, U.S. Senator from California, 1917-1929; Candidate for nomination for Presidency, 1924
 63. Kelley, Nellie E., Organized Republican Women's Federation of California, 1925; Secretary Coolidge Republican Club of Los Angeles, County, 1924
 64. Kiesling, Francis B., San Francisco Attorney, Republican, 1921
 65. Kilgore, William R., Insurance Broker, 1st Vice-Pres. Republican County Central Committee, 1923, 1927, Chairman Finance Committee, Republican County Central Committee, 1925.
 66. Kilgore, William R. and Ralph Arnold
 67. von Kleinsmid, Rufus, President, University of Southern California, 1921-47
 68. Koverman, Mrs. Ida R. (2), Exec. Sec. Republican County Central Comm., 1924
 69. Langdon, William Henry, Jurist, Supreme Court of California, 1915-1939, Republican
 70. Langworthy, Mary L., Republican, 1920
 71. Lindauer, Samson Arthur, California Senator. Secretary Make-Hoover-President Club, 1920
 72. Lineberger, Walter Franklin, Member U.S. Congress from California 9th District, 1921-1927
 73. Little, Walter J., Member California State Assembly. Republican
 74. Lyman, Edward D., 1st Vice-Pres. Automobile Club of So. Calif., Republican
 75. Matthews, J.L., Chairman Publicity, Republican County Central Comm., 1928
 76. Mayer, Louis B., Motion Picture Director, Republican, 1925
 77. McComb, Marshall F., Los Angeles Jurist, Republican
 78. McNabb, Samuel W., San Bernardino, U.S. District Attorney, So. District, California, 1925-1933, Republican
 79. McPherson, A.W., First National Bank, Santa Monica, Republican, 1928
 80. Miller, Frank A., Proprietor, Mission Inn, Riverside, Calif., Republican
 81. Mines, William W., Prominent Los Angeles Real Estate Operator, Republican
 82. Moore, Chas., defeated Republican candidate for U.S. Senator from California, 1922
 83. Morgan, Thomas, Los Angeles Transportation official, Republican, 1926
 84. Neuner, Martin C., Los Angeles Printer, All Parties Reapportionment Committee, 1924
 85. New, Harry Stewart, Postmaster General, U.S.A., 1923-1929
 86. O'Brien, P.P., Los Angeles Postmaster, Republican, 1924
 87. O'Brien, William J., Los Angeles Attorney, Republican
 88. Pearce, Thomas, Governor of Wyoming, Republican
 89. Porter, Florence Collins, Delegate to Republican Nat'l. Convention 1924

Scope and Content Note

(seconded the nomination of Calvin Coolidge for President)

90. Pratt, Ruth Sears Baker, First woman elected to Congress from New York State, member Republican National Committee 1929
 91. Reid, Whitelaw, Journalist and Diplomat, Republican
 92. Requa, Mark Laurence, Assistant to Herbert Hoover, U.S. Food Administration 1917-1918; General Director Oil Division, U.S. Fuel Administration, 1918-1919
 93. Richardson, Friend William, Governor of California, 1923-1927, Republican
 94. Riley, William L., Republican, 1926
 95. Rolph, James Jr., Mayor of San Francisco, 1911-1932, Republican
 96. Roper, Daniel Calhoun, Commissioner Internal Revenue, U.S. Secretary of Commerce, 1917-1920, Democrat
 97. Rowland, A. Lincoln, Pasadena Attorney, Republican, 1925
 98. Salinas, C.H., President Hermosa Beach Chamber of Comm., Republican, 1925
 99. Sanders, Everett, Attorney, President Coolidge's Secretary, 1925-1929 Republican
 100. Sargent, John Garibaldi, U.S. Attorney-General, 1926-1929, Republican
 101. Scott, Joseph, Republican, Member Board of Directors, Los Angeles Chamber of Commerce, 1907-1918; Delegate Republican Nat'l. Convention, Chicago, 1920
 102. Sheppard, Morris, U.S. Senator from Texas, 1913-1931, Democrat
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103. Shortridge, Samuel Morgan, U.S. Senator from California, 1921-1932. Prominent Political figure in California. Great Hoover booster. Repub.
 104. Shoup, Paul, President So. Pacific R.R., Republican, 1924.
 105. Spannogel, Mrs. Lillian, Long Beach Republican, 1924
 106. Spreckles, John B., President Spreckles Companies, Republican, 1924
 107. Starling, H., Head White House Secret Service, 1929
 108. Stearns, Frank W., Boston Merchant, Republican, 1923
 109. Stephens, William Dennison, Republican Governor of California, 1917-1923
 110. Stimson, Marshall, Los Angeles Attorney, Republican
 111. Swain, Robert Eckles, Stanford classmate, acting President of Stanford University, 1929-1933, when President Wilbur served on President Hoover's Cabinet, Republican
 112. Swing, Philip David, U.S. Congressman from California, 1921-1929, 11th District, Republican
 113. Taylor, Cadet, Prominent Republican politician from Pomona. Hoover booster, 1924. Vice-Chairman, 9th Dist. Republican Congressional Committee
 114. Toll, Charles H., Banker, politician from Glendale. Vice-President Glendale Security Trust & Savings Bank, Republican
 115. Upham, Fred W., Republican, Treasurer, County Central Committee, 1924
 116. Van Antwerp, William C., San Francisco Banker, Republican, 1933
 117. Van deWater, Mrs. Edith W. (Mrs. C.F.), Long Beach, Member Executive Committee, 9th Republican Congressional District, 1924
 118. Waldo, George E., Pasadena Jurist, Republican, 1924
 119. Whiteside, C.E. ("Doc"), Republican County Central Committee, 1925
 120. Wilbur, Curtis Dwight, Ralph Arnold's cousin, Chief-Justice Supreme Court of California, 1922-1924; Sec. of Navy under Coolidge, 1924-1929
 121. Willebrandt, Mabel Walker, Asst. Attorney-General, U.S.A., 1921-1929 (2)
 122. Wood, J.W., Pasadena Attorney, Republican
 123. Work, Hubert, Secretary of Interior, U.S.A., 1923-1928; Chairman, Republican National Committee, 1928-1929
 124. Works, Harriet W., 2nd Vice-Chairman, Los Angeles County Central Republican Committee, 1924
 125. Young, Clement Calhoun, Governor of California, 1919-1927, Republican
 126. de Young, M.H., Founder San Francisco Chronicle, Republican National Convention Delegate, Chicago, 1920.

GROUP PHOTOGRAPHS

Box 233B

127. California Supreme Court, 192-?
128. Hoover-for-President Campaign: Offices and Committees (19)
129. Hoover-for-President Club of Southern California. Luncheon in honor of California delegates to Republican Nat'l. Convention, April 4, 1928
130. Republican Central Committee Banquet, honoring Galen H. Welch, Collector of Internal Revenue, April 27, 1926
131. Republican Victory Banquet, City Club, Los Angeles, November 8, 1924
132. Southern California Republican 1926 Victory Dinner, November 10, 1926
133. Testimonial Dinner tendered Sen. William M. Butler by Republican County Central Committee, April 25, 1927

Loose: IV. The Gay 90's

Scope and Content Note

Photographs collected by Ralph Arnold in compilation of material for *Pasadena in the Gay Nineties*, 1955

Box 11D

1. Alhambra (looking east on Main St. at Garfield), 1899
 2. Arrowhead Springs Hotel
 3. Bishop, Charles A.
 4. Bishop (R.F.) Home, 1886
 5. Brown, Ethelyn
 6. Brown, Jason and Owen (John Brown's Sons) near a cabin on Brown's Trail
 7. Butterfly Tea held at Carlton Hotel on Colorado Ave. between Raymond and Fair Oaks for benefit of Universalist Church, 1890
 8. Camp "We-Do" - July 30-Aug. 7, 1896
 9. Catalina Picnic Group, 1880's (See p.58, Eudora Chambers)
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10. Church of the Angels
11. Citrus Fruit Fair, Pasadena's first, Mar. 24, 1880
12. Clemson College
13. Coleman, Jennie, "Most loved teacher that ever lived in Pasadena, 1845-1923"
14. Coleman, Theodore, Pres. Throop Polytechnic Institute, 1847-1925
15. Columbia Hill Tennessee Club, S.W. corner Orange Grove and Columbia on Columbia Hill
16. Conger Family Photos
17. Conger Residence, "Conger Hill" - Orange Grove Avenue opposite Carmelita Gardens, built in 1888
18. Cooper Club, 1925
19. Founders' Day, Pasadena, Jan. 28, 1924

Physical Description: (clippings)

20. Glen Rosa Ranch, Orange Grove Avenue
21. Gnome Club, about 1889-1891
22. Jones, Dr. E. Edward, first principal of Garfield School, 1912-1932
23. Leithead Family Photos
24. Lloyd's (P.W.) Fruit Dryer, Pasadena, 1889
25. Martin (Clarence) Residence, Orange Grove Ave., 1888
26. McCormack, Dean of Episcopal Church (married Ralph Arnold and Winninette Stokes)
27. McMaster, Alonzo Jones, ca.1880 to 1890 Camping Car (forerunner of modern Trailer)
28. Mission Road, San Gabriel
29. Moneyian Institute (on Mission Rd., south of Las Tunas, San Gabriel)
30. Mountains and Cañons near Pasadena (printed)
31. Nelmes, Thomas
32. Nelmes Group Photos, 1891
33. Orange Grove Ave., 1874
34. Orange Grove Ave., ca. 1880
35. Pasadena High School: Class of 1894 Fifty-ninth Anniversary, June 26, 1953
36. Pasadena Panoramas
37. Pierce, Prof. Edward T., Early Superintendent of Pasadena Schools
38. San Gabriel Valley Bank
39. School Group, 1899 (Photo belonged to George Pierson)
40. Sierra Madre Villa, young orange grove with mountains at back.
41. Spinsters' Club
42. Tournament of Roses, Jan. 1, 1894, Jeanie Nelmes on horseback
43. Tournament of Roses, 1896
44. Universalist Church
45. "Wyngate" - So. Pasadena Home of the Grahams, meeting-place for many distinguished guests

Physical Description: (clipping)

46. Unidentified photograph (some class or school)
47. Photograph Album belonging to Edson S. Turner (See p.240 of Pasadena in the Gay Nineties)

L. POLITICAL PAPERS

Box 221-230

I. Correspondence, 1914-1956

Box 231

II. Manuscripts

1. "Laying the Foundation Stones" or "My Eight Years in Politics," by Ralph Arnold, Published in Southern California Historical Bulletin, August, September and December, 1955.
2. Account of Herbert Hoover's Rise to the Presidency, by Ralph Arnold.
3. Ralph Arnold's Trip as Vice-Chairman, Hoover National Republican Club, to California and Return, March 15 to April 15, 1920.
4. "Present Status of Reapportionment and State Division in California," by Ralph Arnold (paper read before the Elinor Toll Association, Los Angeles, February 5, 1927.
5. "My Interview with Senator Johnson," by Ralph Arnold, September, 1922
6. Ralph Arnold's Visit to the White House, November 5, 1930

Scope and Content Note

(portraying President Hoover's rejection at the polls on November 4, 1930).

7. "Development of the Republican Party," by Mrs. M.J. Magauran.

8. "The Rise and Fall of the Hiram Johnson Political Machine," by T.J.A.

Box 232

III. Calvin Coolidge's Political Campaign for the Presidency in California, 1920-1924.

IV. Harding World Court Plan, 1923

V. Herbert Hoover-for-President Papers

1. Herbert Hoover's Candidacy for the Presidency, 1920
2. Republican National Convention at Chicago, June 8, 1920
3. Hoover-Johnson Graph showing political popularity, 1920-1928
4. Republican Organizations
 - a. Hoover National Republican Club, 1920
 - b. Republican State Central Committee in California, 1920-1928
 - c. Republican County Central Committee, Los Angeles County, California, 1922-1928
 - d. Republican Club of Los Angeles County, 1920-1922
 - e. Republican Woman's Federation of California
5. Campaign Accounts, 1920-1922
6. Entertainment, 1922-1928
7. Publicity
 - a. California County Newspapers
 - b. California Republican, edited by Ralph Arnold, 1923-1924
 - c. Daily News Letters to Hoover Clubs, Nos. 1-27, 1920
 - d. Social News Bureau, Nos. 3-34, 1923

Box 233

VI. Miscellaneous Political Papers

1. All-the-Year Republican Organization
2. Appointments and Endorsements, 1924-1926
3. Legislation, 1926-1928
4. Lineburger (Walter F.)-for-Congress Campaign, 1922
5. Moore (Charles C.)-for-Senator Campaign, 1922
6. Reapportionment in California, 1926, 1931
7. Miscellany

Physical Description: (Photographs)

M. SEISMOLOGICAL PAPERS

Box 234

I. Correspondence, 1919-1922, 1935-1937

II. Manuscripts

1. Earthquake of April 21, 1918 in California: Location, Topography, Geology and Structure
2. Earthquakes (Addresses delivered at banquet of Southern California Section, American Institute of Mining and Metallurgical Engineers), September 3, 1920
3. The Earthquake Hazard in the United States, n.d.
4. An Explanation of the California Earthquakes, by Ralph Arnold, n.d.
5. Geology and Seismic Conditions of Site for Naval Base on Eastern Portion of Terminal Island, 1944
6. An Island Producing Gas Volcano in Trinidad, West Indies, 1956
7. Location and Characteristics of the Faults Producing Earthquakes
8. "Recent Earthquakes at Los Angeles, California," 1920
9. Renaissance of Seismological Activity, n.d.
10. Santa Barbara Earthquake, 1921
11. Southern California Geology and Los Angeles Earthquakes, by R.T. Hill (reviewed by Ralph Arnold), 1920
12. The Willis Prophecies, n.d.

III. Maps and Slides, 1940-1945

IV. Reports

1. Preliminary Report of the Advisory Committee in Seismology, Carnegie Institute, 1921-1922
2. Study of Seismic Phenomena of May 3, 1887 (extract)
3. Terminal Island Subsistence, June 30, 1945

V. Photographs, 1911

VI. Miscellaneous

N. SHELLS, FOSSILS, etc.

Box 235

General

O. EPHEMERA

Box 236-237 **General**

Box 238

I. Societies and Organizations

Scope and Content Note

(Amer. Institute of Mining and Metallurgical Engineers, Geological Society of America, Gridiron Club, Cosmos Club, etc.)

Box 239-242

II. Maps

Scope and Content Note

(Misc. contour, geological, road maps, etc.)

Box 243-245

III. Mining Papers

Scope and Content Note

(Papers concerning silver, gold, graphite, zinc, mercury, water, etc.)

IV. Petroleum Papers

Box 246-251

A. North America and Europe

Box 252

B. Central and South America

Box 253

C. Trinidad and West Indies

Box 254-255

V. Political Papers

Scope and Content Note

(Misc. papers concerning the National Tax Association, bills pending and passed by Congress, etc.)

Box 256

VI. Seismological Papers

Scope and Content Note

(Earthquakes, fault lines, faulty building practices, etc.)

Box 257

VII. Misc. Advertisements

Scope and Content Note

(Pumps, steam shovels, drills, etc.)

I. NORTH AMERICA

1. Coast chart no. 137: From Cape Henry to Curribuck Beach.

Physical Description: 1 piece

2. Geologic maps of North America by Willis.

Physical Description: 4. pieces

3. Geological survey of Canada.

Physical Description: 10 pieces

4. Glacial map of North America published by U.S. Geological society, 1945.

Physical Description: 2 pieces

5. Tertiary deposits of North Pacific coast

Physical Description: 11 pieces

II. UNITED STATES

1. Geologic atlases: Arigon, California, Montana

Physical Description: 3 pieces

2. Geologic map by U. S. Geologic survey, 1918.

Physical Description: 1 piece

3. Geologic map by U.S. Geologic survey, 1932

Physical Description: 3 pieces

4. Meridians base lines and areas governed thereby, 1915

Physical Description: 1 piece

5. Pipe line route.

Physical Description: 2 pieces

6. United States

Physical Description: 8 pieces

III. CALIFORNIA

1. Amador County

a. Fremont mine

Physical Description: 2 pieces

b. Mother lode

Physical Description: 2 pieces

2. Buick Oil Company

a. Bakersfield production curves, 1912

Physical Description: 10 pieces

3. California (State)

a. Minerological map

Physical Description: 1 piece

b. Location of withdrawal of oil lands, 1914

Physical Description: 2 pieces

c. Oil and gas fields

Physical Description: 1 piece

d. Tertiary paleo-geography

Physical Description: 14 pieces

e. Topographical

Physical Description: 4 pieces

f. U.S. Dept. of the Interior, 1913.

Physical Description: 7 pieces

g. U.S. Geological survey, 1929.

Physical Description: 4 pieces

h. U.S. Dept. of the Interior, 1944

Physical Description: 1 piece

4. Coalinga oil fields, Fresno, Calif.

a. Cross sections

Physical Description: 40 pieces

b. Geological and topographic map

Physical Description: 1 piece

c. Midway-Sunset oil fields

Physical Description: 4 pieces

d. Well logs

Physical Description: 19 pieces

5. Igneous rocks in coast ranges: Correlation of rocks, Calif. and New York

Physical Description: 2 pieces

6. Inca-Wabash Wells: U.S. Bureau of Mines.

Physical Description: 1 piece

7. Kern River district: Peerless well logs

Physical Description: 14 pieces

8. Kettleman Hills, Kings County

Physical Description: 10 pieces

9. La Belle Oil Co.

Physical Description: 5 pieces

10. Laguna Beach, 1893

Physical Description: 1 piece

Los Angeles Basin Oil Fields

Physical Description: 1 piece

Los Angeles County: Rancho San Pedro (2), Rancho Tajuta (2), and Rancho Santo Gertres (2)

Physical Description: 6 pieces

Los Angeles and Ventura Counties, geologic, (1)

Physical Description: 1 piece

11. Montebello Oil Co.

Physical Description: 2 pieces

12. Monterey County

Physical Description: 1 piece

13. Panoche

Physical Description: 1 piece

14. Panorama Hills Oil Field

Physical Description: 7 pieces

15. Pasadena, 1893

Physical Description: 1 piece

16. Petroleum development company

Physical Description: 1 piece

17. Philips-Egermeier lease

Physical Description: 9 pieces

18. Pipe line routes between McKittrick, Midway and Arila Beach, Calif.

Physical Description: 1 piece

19. Puente Hills

Physical Description: 2 pieces

20. Rancho Cabrian: San Luis Obispo and Santa Barbara counties.

Physical Description: 2 pieces

21. Rancho Cienega: EL Paso de la Tijera

Physical Description: 1 piece

22.] Rancho La Ballowa: allotment to Francisco Machado, 1914.

Physical Description: 1 piece

23. Rancho Los Coyotes

Physical Description: 1 piece

24. Rancho San Pedro

Physical Description: 2 pieces

25. Salt Lake Fields, Los Angeles

Physical Description: 1 piece

San Fernando Valley, La Crescenta Valley, Burbank and Glendale

Physical Description: 1 piece

San Joaquin Valley Oil Fields

Physical Description: 1 piece

26. San Luis Obispo County, 1890

Physical Description: 1 piece

Santa Ana Valley and adjacent territory: geologic map

Physical Description: 1 piece

27. Santa Clara oil fields

Physical Description: 4 pieces

28. Santa Maria logs, etc.

Physical Description: 3 pieces

Seal Beach Oil Field, 1933

Physical Description: 1 piece

29. Southern Pacific Railroad: Production curves

Physical Description: 1 piece

30. Summerland sections.

Physical Description: 2 pieces

31. Union Oil Co.

Physical Description: 4 pieces

32. Vallecito Valley oil fields

Physical Description: 2 pieces

33. Whittier oil fields

Physical Description: 1 piece

IV. CANADA

1. Geologic maps of Alberta and Saskatchewan

Physical Description: 6 pieces

2. American and Midland oil companies

Physical Description: 5 pieces

V. COLORADO

1. Carter Mine, Gunnison County

Physical Description: 16 pieces

2. Carter and Golden Islet mines, Gunnison County

Physical Description: 13 pieces

VI. DELAWARE

1. Nomad geologic units, U.S. Geologic survey, 1937.

Physical Description: 1 piece

VII. HOUSTON AND COHN PROPOSITION

Physical Description: 9 pieces

VIII. KANSAS AND NEBRASKA

1. Modern classification of the Pennsylvania rocks of Eastern Kansas and Southeastern Nebraska, 1936.

Physical Description: 1 piece

2. Modern classification of Permean rocks, 1936.

Physical Description: 1 piece

IX. MONTANA

1. Boyes oil structure, Carter and Powder River counties

Physical Description: 10 pieces

2. Troy mines, Troy, Montana

Physical Description: 4 pieces

X. NEVADA

1. Quinn Mine: Silver City Mining District, Lyon Co.

Physical Description: 10 pieces

XI. NEW JERSEY

1. Topographical maps

Physical Description: 6 pieces

XII. NEW MEXICO

1. Dayton Oil region, Eddy County

Physical Description: 7 pieces

2. Prospective oil region west of Carlsbad, Eddy Co.

Physical Description: 5 pieces

3. San Juan Basin, 1933

Physical Description: 1 piece

4. Township plats, Eddy Co.

Physical Description: 5 pieces

5. Township plats, Rocky Arroyo

Physical Description: 6 pieces

6. Township plats

Physical Description: 6 pieces

XIII. OKLAHOMA

1. Oil maps: Muskogee

Physical Description: 5 pieces

XIV. OREGON

1. Oaks Mine near Grants Pass

Physical Description: 1 piece

XV. TENNESSEE

1. Geologic map.

Physical Description: 1 piece

XVI. WYOMING

1. Byron - Garland district, Big Horn Co.

Physical Description: 8 pieces

2. Copper Mt. oil fields

Physical Description: 2 pieces

3. Coyote Spring group: Schoening oil placer mining claims

Physical Description: 1 piece

4. Oil pipe line, Fremont County

Physical Description: 2 pieces

5. Plunkell Field, Lander oil district, Fremont, County

Physical Description: 1 piece

XVII. MEXICO

1. Geological

Physical Description: 7 pieces

2. Lower California

Physical Description: 11 pieces

3. Vera Cruz

Physical Description: 5 pieces

XVIII. SOUTH AMERICA

1. Bermudez county: Guanoco Concession

Physical Description: 17 pieces

Cachiri seepages, 1914

Physical Description: 1 piece

Caracas, Perija to Limon, 1914

Physical Description: 1 piece

2. Guanoco oil district: Geologic map

Physical Description: 1 piece

Macda: topographic map

Physical Description: 1 piece

3. Mene Grande Field, Pauji region: Plan, 1915

Physical Description: 1 piece

Paredones-Rodeo Arimpia topographic map of region between

Physical Description: 1 piece

4. Pedernales and Guanipa oil districts

Physical Description: 4 pieces

Perija: Plan of northern part

Physical Description: 1 piece

Perija oil fields, 1913

Physical Description: 1 piece

5. Perija - Rio Limon Maracaibo region; Zulia western Venezuela

Physical Description: 1 piece

6. Trinidad Island

Physical Description: 10 pieces

7. Venezuela

Physical Description: 10 pieces

8. Venezuela: Key map to northern part, 1912

Physical Description: 1 piece

9. Venezuela: Northern part, 1914

Physical Description: 1 piece

10. Zulia: Estado

Physical Description: 9 pieces

11. Unidentified

Physical Description: 3 pieces

XIV. MISCELLANEOUS

1. Bedford reciprocating motion furnaces.

Physical Description: 4 pieces

2. Lost Hills

Physical Description: 2 pieces