

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

A Bibliography of the Santa Maria Province and Vicinity, South Central
Coastal California

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Open-File Report

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This report is preliminary and has not been reviewed for conformity with
U.S. Geological editorial standards and stratigraphic nomenclature.

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INTRODUCTION

This bibliography is comprised of geologic literature published prior to September 1987, on the Santa Maria Province. The Santa Maria Province has been studied extensively since the late nineteenth and early twentieth century. (Arnold and Anderson, 1907a, 1907b; Eldridge, 1903; Fairbanks, 1894, 1896). This report is a preliminary version of a comprehensive literature compilation on the Santa Maria Province. Periodic updates are planned as additional references are uncovered.

The Santa Maria Province is an area rich in mineral and petroleum resources, in the coastal region of California (Fig.1). The province is bounded on the north by the Santa Lucia Range, on the east by the San Rafael Mountains, on the south by the Santa Ynez Mountains, and on the west by the Pacific Ocean (Crawford, 1971). Literature covering offshore areas and areas adjacent to the Santa Maria Province area are included if the reference is relevant to the geologic, paleontologic, and economic development of the Santa Maria Province.

Each bibliographic reference is listed alphabetically under the last name of the principal author. Abstracts, as well as theses, are included in this alphabetical listing. Following the standard reference citation is found a subject category cross-reference in italicized print. Broad subject categories are listed first and followed by a semicolon; next, subcategories are listed and followed by a comma. The Subject Categories and Subject Index follow a similar format as the Bibliography of North American Geology. Fourteen broad subject categories have been identified: Areal geology, Economic geology, Engineering geology, Geochemistry, Geochronology, Geomorphology, Hydrogeology, Marine geology, Paleoecology, Paleontology, Palynology, Petrology, Stratigraphy, and Structural geology, and further divided into subcategories. Each reference has been indexed by author and publication date under one or more subcategories.

This bibliography of the Santa Maria Province and Vicinity is also available on the PMG VAX computer of the US Geological Survey using the UNIX bibliography program commands.

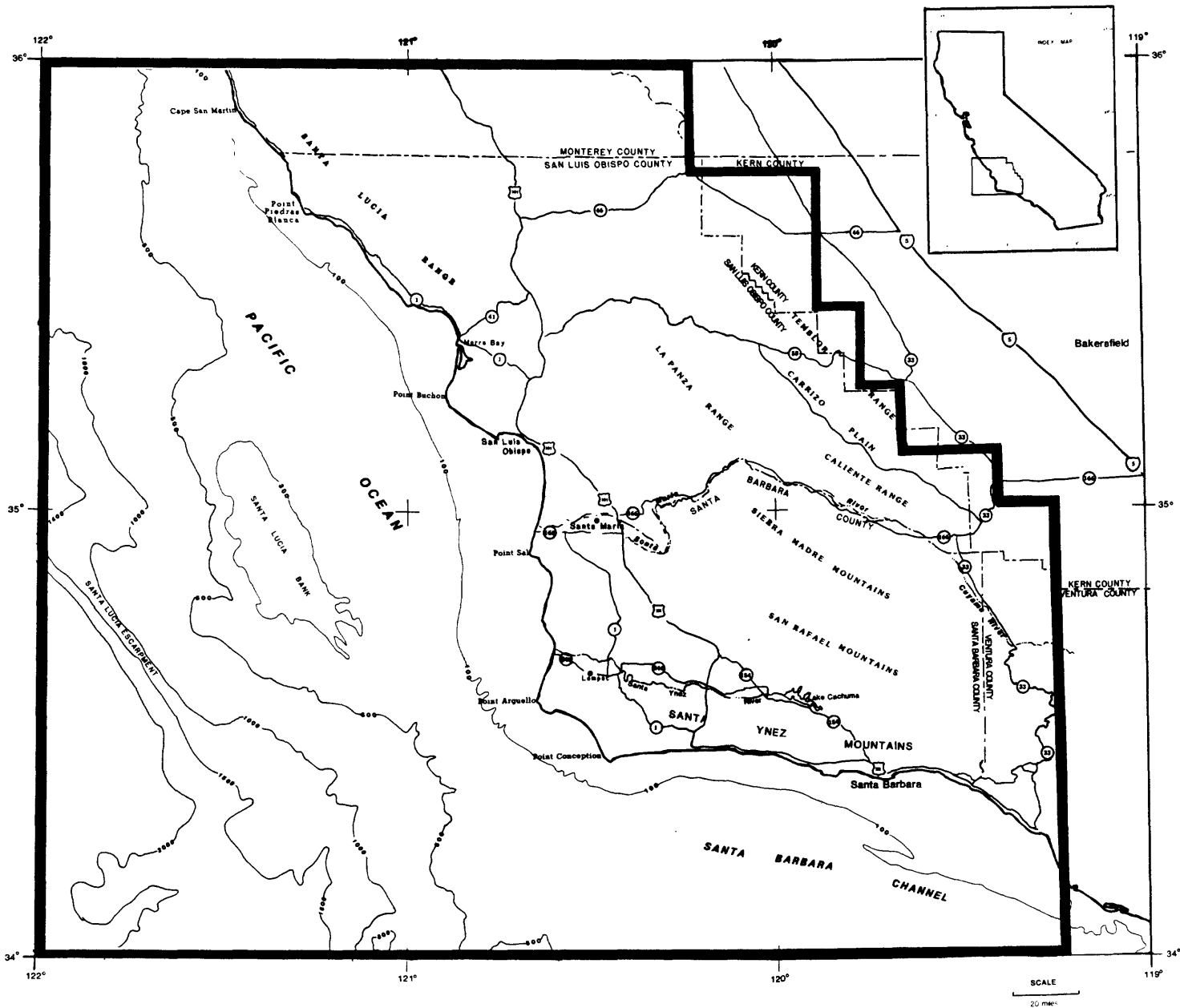


Figure 1. Index map of the Santa Maria Province and vicinity

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SUBJECT CATEGORIES

AREAL GEOLOGY

Field trips and Guidebooks

Local

Maps

Regional

Historical accounts

Geographic locations

Abel Mountain, Alamo Mountains, Antimony area, Atascadero, Avenal, Avila Beach
Bald Mountain, Bitterwater Creek, Black Mountain, Burro Mountain, Cachuma,
Caliente Range, Camatta Canyon, Cambria region, Carpinteria Basin, Carrizo Plain,
Casmalia, Cayucos, Chico Martinez Creek, Cholame, Coast Ranges, Crocker Flat,
Cuyama, Cuyama Badlands, Cuyama Basin, Cuyama Gorge, Cuyama Valley, Devil's
Den, Diablo Canyon, Dry Lakes, Edna, Figueroa Mountain, Fox Mountain, Frazier
Mountain, Fulger Point, Gaviota, Goleta, Grant Lake, Huasna Basin, Indian Creek, La
Panza Range, Lake Casitas-Red Mountain, Lake Tecopa, Las Cruces Creek, Lions
Head, Lockwood Valley, Lopez Canyon, Los Alamos, Los Olivos, Matilija area,
McKittrick, Media-Agua Creek, Mono Creek, Morro Bay, Mount Lospe, Mt. Pinos-
Sawmill, Newsome Canyon, Nojoqui Creek, Oceano, Ojai Valley, Oretga, Orocopia
Mountains, Osos Valley, Packard's Hill, Pajaro Gap, Pine Mountain, Pismo Basin,
Point Arguello, Point Buchon, Point Conception, Point Piedras Blancas, Point Sal, Pur-
isima Hills, Pyramid Hills, Quatal area, Refugio Pass, San Juan Creek, San Juan Dis-
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Rosa Hills, Santa Ynez area, Sespe Creek, Sespe-Frazier area, Shell Creek, Shuman
Canyon, Sierra Madre Mountains, Summerland, Tar Spring Ridge, Temblor Range,
Tepusquet, Transverse Ranges, Ventura area, Wheeler Springs, York Mountain, Zaca
Lake

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tain, Bryson, Caliente Mountain, California Valley, Carneros Rocks, Camatta Canyon,
Carpinteria, Chimineas Ranch, Cholame, Cuyama and New Cuyama, Elkhorn Hills,
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Yeguas Ranch, Lion Canyon, Little Pine Mountain, Lompoc, Lopez Mountain, Los
Olivos, McKittrick Summit, Morro Bay South, Mt. Pinos, Nipomo, Orchard Peak,
Packwood, Paso Robles, Piedras Blancas, Piru, Point Arguello, Point Conception, Port
San Luis, Pozo Summit, Salisbury Potrero, San Luis Obispo, San Miguel, San Rafael
Mountain, Santa Barbara, Santa Margarita Lake, Santa Maria, Santiago Creek,
Sawtooth Ridge, Shandon, Sisquoc, Tent Hills, Tepusquet Canyon, Tierra Redonda
Mountain, Twitchell Dam, Ventura, Wells Ranch, Zaca Lake

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Diatomite

Gold

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Arguello, Salt Creek, San Miguelito, Sheep Springs, South Cuyama, Sunset, Wheeler
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GEOPHYSICS

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- Paleomagnetism
- Seismology

HYDROGEOLOGY

- Ground-water conditions
- Ground-water resources

MARINE GEOLOGY

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- Oceanography
- Sediment transport
- Submarine canyons

MINERALOGY

PALEOECOLOGY

PALEONTOLOGY

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 - Cretaceous
 - Tertiary
 - Paleogene
 - Paleocene
 - Eocene
 - Oligocene
 - Miocene
 - Pliocene
 - Pleistocene
- Microfossils
 - diatoms, foraminifera, ostracodes, nannoplankton, radiolarians, silicoflagellates
- Megafossils
 - arthropoda, chordata (fish, mammals, reptiles), coelenterata, echinodermata, mollusca, stromatolites

PALYNOLOGY

PETROLOGY, IGNEOUS

basement rocks, ophiolite, volcanics

PETROLOGY, SEDIMENTARY

Sedimentary rocks

chert, diatomite, dolomite, mudstone, porcellanite, sandstone, shale

Diagenesis

Sedimentary structures

Siliceous sediments

Fluvial sedimentation

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pre-Tertiary

Tertiary

Quaternary

Paleocene

Eocene

Oligocene

Miocene

Pliocene

Pleistocene

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Biostratigraphy

Lithostratigraphy

Magnetostratigraphy

Paleoclimatology

Paleogeography

Paleomagnetism

STRUCTURAL GEOLOGY

Local

Regional

Tectonics

Tectonostratigraphic terranes

Cambria Slab

Salinian Block

Nacimiento Block

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Arroyo Parida, Banning, Big Pine, Edison, Garlock, Juncal Camp-Santa Ynez, La Panza, Las Tablas, Little Pine, Mission Creek, Nacimiento, Rinconada, San Andreas, San Gregorio-Hosgri, San Jacinto, San Juan-St Francis, San Simeon-Hosgri, Santa Cruz Island, Vincent Thrust

SUBJECT INDEX

AREAL GEOLOGY

Field trips and Guidebooks

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Local

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Las Cruces Creek

Drummond, C.H., 1941.

Lions Head

Dunham, J.B., ed., 1987; Grivetti, M.C., 1982; Pisciotto, K.A., 1981c.

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- Los Alamos
Beal, C.H., 1916.
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Mallory, V.S., 1948.
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Greenhaus, M.R. and Cox, A., 1979; Hall, C.A. Jr., 1973; Hall, C.A. Jr., Ernst, W.G., Prior, S.W., and Wiese, J.W., 1979; Hsu, K.J., 1969; Murphy, J.M. and Walter, A.W., 1984.
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Drummond, C.H., 1941.
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Woodring, W.P., Loofbourow, J.S. Jr., and Bramlette, M.N., 1945.

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Brooks, T.J., 1955.

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Anderson, F.M. and Martin, B., 1914.

San Luis Obispo area

Anderson, F.M. and Martin, B., 1914; Arnold, R. and Johnson, H.R., 1910; Asihene, E.B., 1962; Bell, H.W., 1918; Billman, H.G. and Hopkins, A.A. Jr., 1980; Blake, G.H., (ed.),

1980; Childs, T.S. Jr., 1941; Cleath, T.S., 1978; Collier, K., 1978; Collom, R.E., 1918b; Crandell, B.G., 1961; de Kehoe, J.R., 1973; Dibblee, T.W. Jr., 1962; Dibblee, T.W. Jr., 1974a; Dibblee, T.W. Jr., 1977; Eckel, E.B., Yates, R.G., and Granger, A.E., 1941; Elliot, W.J., 1966; Ernst, W.G. and Hall, C.A. Jr., 1975; Fairbanks, H.W., 1894; Fairbanks, H.W. and Peryam, R.C., 1949; Fernow, D.L., 1960; Graham, D.H., 1938; Graham, S.A., 1980; Gray, L.D., 1980; Hall, C.A. Jr., 1973; Hall, C.A. Jr., 1973; Hall, C.A. Jr., 1974; Hall, C.A. Jr., 1976; Hall, C.A. Jr., 1981a; Hall, C.A. Jr., 1966; Hall, C.A. Jr., Ernst, W.G., Prior, S.W., and Wiese, J.W., 1979; Hall, C.A. Jr. and Prior, S.W., 1975; Hall, C.A. Jr. and Surdam, R.C., 1967; Hall, N.T. and Sieh, K.E., 1977; Hart, E.W., 1976; Hart, E.W., 1977; Headlee, L.A., 1965; Hill, C.E., 1976; Ingle, J.C. Jr., 1981; Isaacs, K.N., 1951; Jennings, C.W., 1958; Maley, R.P., 1970; Marsh, O.T., 1954; Matin, A., 1982; Page, B.M., 1972; Page, B.M., Wagner, H.C., McCulloch, D.S., Silver, E.A., and Spotts, J.H., 1979a; Page, B.M., Wagner, H.C., McCulloch, D.S., Silver, E.A., and Spotts, J.H., 1979b; Page, B.M., Williams, M.D., Holmes, C.N., and Mapel, J., 1944; Peryam, R.C., 1951; Phillips, F.J., 1976; Pike, J.E.N., 1974; Price, L.C. and Prior, S.W., 1974; Repecka, A.L., 1940; Richards, G.L. Jr., 1933; Robyn, E.S., 1979; Robyn, E.S., 1980; Schussler, S.A., 1981; Schwade, I.T., 1954; Scofield, D.H., 1975; Seiders, V.M., 1982; Smith, G.W., 1978; Smith, P.B. and Durham, D.L., 1968; Surdam, R.C., 1980; Surdam, R.C. and Hall, C.A., 1982; Surdam, R.C. and Hall, C.A., 1984; Surdam, R.C., Turner, D.L., and Hall, C.A. Jr., 1970; Vedder, J.G., 1970; Weaver, J.C.B., 1986; Weber, G.E., 1983; Welby, C.W., 1949; Wilson, R.R., 1930.

San Rafael Mountains

Dibblee, T.W. Jr., 1966; Gower, H.D. Vedder, J.G., Clifton, H.E., and Post, E.V., 1966; MacKinnon, T.C., 1979; Schussler, S.A., 1981; Vedder, J.G., 1967; Vedder, J.G. and Brown, R.D., 1968; Vedder, J.G., Gower, H.D., Clifton, H.E., and Durham, D.L., 1967; Vedder, J.G., Howell, D.G., and McLean, H., 1977; Yaldezian, J.G. II, 1984.

San Simeon-Piedras Blancas region

Hall, C.A. Jr., 1976; Hall, C.A. Jr., Ernst, W.G., Prior, S.W., and Wiese, J.W., 1979; Hsu, K.J., 1969; Mashburn, L.E. and Cloos, M., 1985.

Santa Barbara area

Akpati, B.N., 1966; Arnestad, K.H., 1950; Arnold, R., and Anderson, R., 1907; Ashley, R.J., 1974; Baca, B.R., 1981; Baily, T.L., 1952; Baily, T.L., 1954; Barker, J.M., 1972; Barker, T.C., 1974; Beebe, W.J., 1986; Belfield, W.C., Helwig, J., LaPointe, P., and Dahleen, W.K., 1983; Bell, H.W., 1918; Berman, B.H., 1979; Blackmur, R., 1978; Blake, T.F., 1981; Blake, T.F., 1982; Bohannon, R.G., 1976; Byrd, J.O.D., 1983; Carson, C.M., 1965; Carson, C.M. and Whaley, H.M., eds., 1965; Carver, J.A., 1960; Chapin, D.W., 1972; Chauvel, J.P., 1958; Chevron U.S.A. Inc., 1982; Clark, J.L., 1981; Clark, M.N., 1982; Classen, W.J. Jr., 1960; Collier, K., 1978; Collom, R.E., 1918b; Collom, R.E., 1929; Comstock, S.C., 1975; Comstock, S.C., 1976; Coss, J.R., 1980; Crandell, B.G., 1961; Cross, J.R., 1980; Dailey, D.H., 1960a; Dailey, D.H., 1960b; Dailey, D.H. and Popenoe, W.P., 1966; Davis, T.L., 1983; Dibblee, T.W. Jr., 1947; Dibblee, T.W. Jr., 1950; Dibblee, T.W. Jr., 1966; Dibblee, T.W. Jr., 1978; Dolman, S.G., 1932; Donnelly, A.T., 1976; Drummond, C.H., 1941; Dunham, J.B., ed. 1987; Eaton, J.P., 1984; Edwards, L.N., 1971; Edwards, L.N. and Beal, C.H., 1915; Effinger, W.L., 1936; Evenson, R.E., 1965; Evenson, R.E. and Miller, G.A., 1963; Everhart, D.L., 1950; Fairbanks, H.W., 1894; Fedewa, W.T. and Hovland, R.D., 1981; Fisher, R.V., 1977; Foxhall, H.B., 1942; Frakes, L.A., 1959; Fritzsche, A.E., 1972; Fritzsche, A.E., 1969; Gardner, D.A., 1974; Gibson, J.M., 1972; Gibson, J.M., 1973a; Gibson, J.M., 1973b; Girard, C.M., 1949; Glover, B., 1971; Goodyear, W.A., 1888; Gore, F.D., 1923; Gray, L.D., 1980; Gray, L.D., 1981; Grivetti, M.G., 1982; Hall, C.A. Jr., 1978; Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1983; Hall, C.A. Jr. and Surdam, R.C., 1967; Hawley, H.J., 1918; Henderson, N.C., 1983; Henderson, N.C. Jr., Crawford, G.A., Durham, J.B. and Osborne, R.H., 1984; Hill, M.L., 1932a; Hill, M.L., 1932b; Hornafius, J.S., 1983; Hornday, G.R., 1961; Hornday, G.R. and Phillips, F.J., 1972; Howard, J.L., 1987; Hoyt, D.R., 1976; Isaacs, C.M., 1980; Isaacs, C.M., 1981a; Isaacs, C.M., 1981b; Isaacs, C.M., 1981c; Isaacs, C.M., 1981d; Isaacs, C.M.,

1981e; Isaacs, C.M., 1982; Isaacs, C.M., 1983; Isaacs, C.M., 1984a; Isaacs, C.M., Keller, M.A., Gennai, V.A., Stewart, K.C., and Taggart, J.E. Jr., 1983; Jacobs, D.C., 1971; James, E.W., 1986; Jeffreys, S.R., 1940; Keenan, M.F., 1932a; Keenan, M.F., 1932b; Kelley, F.R., 1943; Kempner, W.C., 1977; Kennedy, G.L. and Wehmiller, J.F., 1986; Kew, W.S.W., 1919; Kieniewicz, P.M., 1985; Kleinpell, R.M. and Weaver, D.W., 1963; Lass, G.L., 1978; Lian, H.M., 1952; Lian, H.M., 1954; Link, M.H., 1971; Link, M.H., 1972; Lissner, A., 1986; Louderback, G.F., 1912; Lownes, R.E., 1960; Macfadden, C.H., 1948; MacKinnon, T.C., 1978; MacKinnon, T.C., 1979; MacKinnon, T.C., 1983; McClure, D.V., 1969; McCulloch, R.B. and Newmann, T.R., 1982; Miller, M.G., 1983; Molander, G.E., 1956; Monassah, A.A.R., 1980; Murata, M.J., 1984; Nichols, G., 1978; Norris, R.N., 1949; Nunez, L.S., 1978; O'Brien, J.M., 1972; O'Brien, J.M., 1973; Ogle, B.A., 1984; Olson, D.J., 1983; Orwig, E.R., 1957; Page, B.M., Marks, J.G., and Walker, G.W., 1951; Patet, A., 1972a; Patet, A., 1972b; Pollard, D.D., 1979; Protzman, D.L., 1960; Redwine, L.E., 1958; Roberts, A.E. and Vercoutere, T.L., 1986; Roberts, A.E., Vercoutere, T.L., Fedewa, W.T. and Hovland, D., 1981; Robyn, E.S., 1980; Roubanis, A.S., 1963; Schroeter, C.E., 1972a; Schroeter, C.E., 1972b; Schussler, S.A., 1981; Schwade, I.T., 1954; Slade, R.C., 1975; Smith, E.L., 1969; Smith, G.D., 1985; Stafford, W.L., 1984; Stephey, A.G., 1977; Steritz, J., 1986; Stirton, R.A. and Weddle, H.W., 1929; Terres, D.A., 1984; Upson, J.E., 1949; Upson, J.E., 1951; Upson, J.E. and Thomasson, H.G. Jr., 1951; Vedder, J.G., 1968; Vedder, J.G., 1972; Vedder, J.G., Gower, H.D., Clifton, H.E., and Durham, D.L., 1967; Vedder, J.G. and Repenning, C.A., 1975; Vernon, J.W. and Slater, R.A., 1963; Walker, G.W., 1948; Walker, G.W., 1950; Walrond, H., 1952; Weaver, D.W., 1960; Weaver, D.W. and Molander, G.E., 1964; Wilkinson, N.L., 1983; Williams, M.D. and Holmes, C.N., 1945; Williams, M.D. and Holmes, C.N., and Willingham, R.C., 1982; Willott, J.A., 1972; Woodring, W.P., Bramlette, M.N., Lohman, K.E., and Bryson, R.P., 1945; Woodring, W.P., Loofbourow, J.S. Jr., and Bramlette, M.N., 1945; Yaldezian, J.G. II, 1984; Young, J.T., 1979; Zepeda, R.L., 1987.

Santa Lucia Range

Bell, G.L., 1940; Burch, S.H., 1965; Chipping, D.H., 1969; Chipping, D.H., 1970a; Compton, R.R., 1960; Compton, R.R., 1966; Davis, C.H., 1912; Doll, B., 1969; Gilbert, W.G., 1973; Grannell, R.B., 1969; Hart, E.W., 1971; Hart, E.W., 1977; McClure, D.V., 1969; Mertz, K.A. Jr., 1984a; Mertz, K.A. Jr., 1984b; Pike, R.W., 1925; Poore, R.Z., Sliter, W.V., and Link, M.H., 1977; Reiche, P., 1937; Richardson, R.W., 1924; Ross, D.C., 1976; Ruetz, J.W., 1976; Taliaferro, N.L., 1944; Vedder, J.G. and Brown, R.D., 1968; Waters, J.N., 1963.

Santa Maria Valley

Anderson, D.S., 1980; Applegate, J.K., 1968; Arnold, R., and Anderson, R., 1907; Beyer, L.A., 1983; Brown, J.A., 1967; Brown, J.A. Jr., 1968; Canfield, C.R., 1939; Canfield, C.R., 1943; Cities Service Oil and Gas Corporation and Celeron Pipeline Company of California 1986; Collom, R.E., 1917; Collom, R.E., 1928; Collom, R.E., 1929; Compton, J.S. and Seiver, R., 1984; Crawford, F.D., 1971; Curran, J.F. and others, 1959; Dryer, F.E., 1943; Epstein, S.A. and Nary, Q.L., 1982; Frame, R.G., 1941; Gray, L.D., 1980; Gray, L.D., 1981; Grivetti, M.G., 1982; Hall, C.A. Jr., 1978; Hall, C.A. Jr., 1978; Heasler, H.P. and Surdam, R.C., 1987; High, Life Helicopters, 1981; Hurst, R.W., 1986; Isaacs, C.M., 1984a; Jarvie, D.M., Dow, W.G. and Yukler, M.A., 1987; Jennings, C.W., 1959; Jennings, C.W. and Strand, R.G., 1959; Jordan, D.S. and Gilbert, J.Z., 1919; Katherman, C.E., 1983; Kieniewicz, P.M., 1985; Kieniewicz, P.M. and Luyendyk, B.P., 1986; Lissner, A., 1986; Little, A.D. Inc., 1985; Macfadden, C.H., 1948; MacKinnon, T.C., 1983; Murata, M.J., 1984; Occidental Petroleum Corporation, 1983; Ogle, B.A., 1984; Oltz, D. and Suchsland, R., eds. 1975; Petersen, N.F., 1984; Pisciotto, K.A., 1981c; Porter, W.W. II, 1932; Porter, W.W. II, 1937; Prutzman, P.W., 1915; Rademacher, R., 1915; Redwine, L., 1981; Redwine, L.E., 1975; Redwine, L.E., 1963; Redwine, L.E., Ryall, P., and Whaley, H., 1975; Regan, L.J. Jr. and Hughes, A.W., 1949; Reinhart, P.W. and Rogers, A.F., 1938; Rietman, J.D. and Beyer, L.A., compilers, 1980; Roehl, P.O. and Weinbrandt, R.M., 1985; Srivastava, S.K., 1984; Vander Leck, L., 1921; Wilkinson, N.L., 1983; Williams, M.D. and Holmes, C.N., 1945;

- Wissler, S.G. and Dreyer, F.E., 1943; Woodring, W.P. and Bramlette, M.N., 1950; Woodring, W.P., Bramlette, M.N., and Lohman, K.E., 1943; Woodring, W.P., Bramlette, M.N., Lohman, K.E., and Bryson, R.P., 1945; Worts, G.F., 1951; Ziemianski, W., Ponck, M., and Newman, B., 1983.
- Santa Paula Creek**
Johnson, B.A., 1979.
- Santa Rosa Hills**
Miller, M.G., 1983; Molander, G.E., 1956; Weaver, D.W. and Molander, G.E., 1964.
- Santa Ynez area**
Akpati, B.N., 1966; Browning, J.V., 1983; Carson, C.M., 1965; Carson, C.M. and Whaley, H.M., eds., 1965; Champeny, J.D., 1965; Clark, J.L., 1981; Coss, J.R., 1980; Crook, T.H., 1922; Cross, J.R., 1980; Curran, J.F., and others, 1959; Dailey, D.H., 1960a; Dailey, D.H., 1960b; Dibblee, T.W. Jr., 1966; Edwards, L.N. and Beal, C.H., 1915; Evenson, R.E., 1965; Exxon U.S.A. Company, 1982; Geijer, T.A.M., 1986; Gibson, J.M., 1972; Gibson, J.M., 1976; Girard, C.M., 1949; Glover, B., 1971; Hawley, H.J., 1918; Helmhold, K.P., 1980; Herlyn, H.T., 1948; Hobson, R.D., 1966; Hornafius, J.S., 1985; Hornaday, G.R. and Phillips, F.J., 1972; Kelley, F.R., 1941; Kelley, F.R., 1943; Kew, W.S.W., 1919; Krause, R.G.F., 1986; Link, M.H., 1971; Link, M.H., 1972; Miller, M.G., 1983; Nelson, R.N., 1923; Nelson, R.N., 1925; Norris, R.N., 1949; O'Brien, J.M., 1972; O'Brien, J.M., 1973; Roubanis, A.S., 1963; Stauffer, P.H., 1965; Stauffer, P.H., 1967a; Stauffer, P.H., 1967b; Sylvester, A.G. and Darrow, A.C., 1979; Upson, J.E. and Thomasson, H.G. Jr., 1951; Van de Kamp, P.C., Harper, J.D., Conniff, J.J., and Morris, D.A., 1974; Van de Kamp, P.C. and Leake, B.E., 1974; Walrond, H., 1952; Weaver, W.R., 1957; Weaver, W.R. and Weaver, D.W., 1962.
- Sespe Creek**
Chipping, D.H., 1969; Dickinson, W.R., 1969b; Ingle, J.C. Jr., 1969; Merrill, W.R., 1954; Nunez, L.S., 1978; Reid, S.A., 1978; Reid, S.A., 1979; Squires, R.L. and Fritsche, A.E., 1978; Thor, D.R., 1978.
- Sespe-Frazier area**
Frizzell, V.A. Jr. and Hale, W.N., 1984.
- Shell Creek**
Addicot, W.O., Poore, R.Z., Barron, J.A., Gower, H.O., and McDougall, K., 1978.
- Shuman Canyon**
Bartsch, P., 1911; Dolman, S.G., 1944; Gore, F.D., 1923.
- Sierra Madre Mountains**
Chipping, D.H., 1969; Chipping, D.H., 1970a; Fritsche, A.E., 1969; Fritsche, A.E., 1972; Smith, G.D., 1985; Vedder, J.G., Howell, D.G., and McLean, H., 1977.
- Summerland**
Arnold, R., 1907a; Summerhayes, C.P., 1981; Taliaferro, N.L., unpublished.
- Tar Springs Ridge**
Chapin, D.W., 1972; Heck, R.G. and Mannon, R.W., 1985; Lewin and Associates Inc., 1983; Merriam, C.W., 1931; Obradovich, J.D. and Naeser, C.W., 1981; Scofield, D.H., 1975; Stanley, K.O. and Surdam, R.C., 1984.
- Temblor Range**
Addicott, W.O., 1972; Addicott, W.O., 1973; Anderson, F.M. and Martin, B., 1914; Cushman, J.A. and Barbat, W.F., 1932; Dibblee, T.W. Jr., 1962; Elliot, W.J., 1966; Friedman, I. and Murata, K.J., 1979; Hudson, F.S. and White, G.H., 1941.
- Tepusquet**
Redwine, L.E., 1958.
- Transverse Ranges**
Bohannon, R.G., 1975; Crouch, J.K., 1979; Crowell, J.C., 1971; Crowell, J.C., 1968; Curran, J.F., 1982; Dibblee, T.W. Jr., 1982; Ehlig, P., 1982; Fredricksen, N.O., 1984; Geijer, T.A.M., 1986; Hadley, D. and Kanamori, H., 1977; Hall, C.A. Jr., 1981b; Hamilton, D.H. and Willingham, C.R., 1977; Hastings, D.S., 1976; Hornafius, J.S., 1983; Hornafius, J.S.,

1985; Irvins, E.R. and Lyzenga, G.A., 1986; Jackson, P.A., 1981; Kamerling, M.J. and Luyendyk, B.P., 1979; Keene, J.B. and Keller, B.R., 1984; Krause, R.G.F., 1986; Lajoie, K.R. and Sama-Wojcicki, A.M., 1982; Levine, P. and Yerkes, R. F., 1985; McCulloch, R.B. and Newmann, T.R., 1982; Rodgers, D.A., 1975; Roush, J., 1983; Schwing, H.F., 1982; Shlemon, R.J., 1982; Stein, R.S., 1980; Terres, D.A., 1984; Terres, R.R., Luyendyk, B.P. and Marshall, M., 1981; Up DeGraff, J.E., 1984; VonHuene, R., 1969; Weigand, P.W., 1982; Williams, M.D. and Holmes, C.N. and Willingham, R.C., 1982; Willott, J.A., 1972; Woodburne, M.O., 1975; Yeats, R.S., 1981; Yerkes, R.F. and Lee, W.H.Y., 1979.

Ventura area

Artusy, R., 1939; Baca, B.R., 1981; Baily, T.L., 1954; Berman, B.H., 1979; Berry, D.R., 1970; Bertholf, H.W., 1967; Blake, T.F., 1981; Blake, T.F., 1982; Carman, M.F., 1964; Cartwright, L.D. Jr., 1927; Cemends, I., 1977; Chipping, D.H., 1969; Clark, M.N., 1982; Dickinson, W.R., 1969a; Dreyer, F.E., 1935; Duggan, D.E., 1964; Dutton, W.G., 1962; Evans, D.L.W., 1928; Fairbanks, H.W., 1894; Fan, Pow-foong, 1963; Frakes, L.A., 1959; Givens, C.R., 1969; Givens, C.R., 1974; Gross, D.J., 1958; Hurst, R.W., 1986; Ingle, J.C. Jr., 1969; Ingle, J.C. Jr., 1981; Isaacs, C.M., 1981b; Izett, G.A., Naeser, C.W., and Obradovich, J.D., 1974; Kahle, J.E., 1966; Knutson, C.F., 1959; Larson, E.E., 1958; Lofgen, G., 1963; Merrill, W.R., 1954; Player, G.F., 1966; Putman, W.C., 1930; Putman, W.C., 1937; Reid, S.A., 1978; Reid, S.A., 1979; Schlueter, J.C., 1976; Schwade, I.T., 1954; Shmitka, R.O., 1970; Squires, R.L. and Fritsche, A.E., 1978; Thor, D.R., 1978; Vedder, J.G., 1972; Waterfall, L.N., 1927.

Wheeler Springs

Cunningham, G.M., 1926; Hagen, D.W., 1957; Trehu, A.M. and Wheeler, W.H. IV, 1987.

York Mountain

Callender, J.F., 1975; Harris, S., 1981; Ogle, B.A., 1984; Philips, W.J., 1981; Rich, P.V., 1969; Roehl, P.O. and Weinbrandt, R.M., 1985; Seiders, V.M., 1982.

Zaca Lake

Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1981a; Hall, C.A. Jr., 1983; Ziemianski, W., Ponck, M., and Newman, B., 1983.

Quadrangles

Adelaida

Durham, D.L., 1968a; Van Gundy, C.E., 1934; Wilson, R.R., 1930.

Arroyo Grande

Hall, C.A. Jr., 1973.

Bald Mountain

Hall, C.A., Jr., 1981.

Blackwells Corner

Dibblee, T.W. Jr., 1972a.

Bradley

Burch, S.H. and Durham, D.L., 1971; Dibblee, T.W. Jr., 1971b; Durham, D.L. 1968b; Taliaferro, N.L., unpublished; Taliaferro, N.L., 1943a.

Branch Mountain

Clements, T.D., 1950; Dibblee, T.W. Jr., 1972b; Easton, W.H. and Imlay, R.W., 1955; Taliaferro, N.L., unpublished; Vedder, J.G., Howell, D.G., McLean, H. and Joyce, J.M., 1986.

Bryson

Dibblee, T.W. Jr., 1971c; Pike, R.W., 1925; Taliaferro, N.L., unpublished; Woodring, W.P., Bramlette, M.N., Lohman, K.E., and Bryson, R.P., 1945.

Caliente Mountain

Dibblee, T.W. Jr., 1972c.

California Valley

Vedder, J.G., Howell, D.G., and McLean, H., 1986b.

Camatta Canyon

- Isaacs, K.N., 1951.
- Carneros Rocks
Dibblee, T.W. Jr., 1977a.
- Carpinteria
Dibblee, T.W., 1966.
- Chimineas Ranch
Vedder, J.G., Howell, D.G., McLean, H. and Joyce, J.M., 1986.
- Cholame
Dibblee, T.W. Jr., 1973b;
- Cuyama and New Cuyama
Vedder, J.G. and Repenning, C.A., 1965; Vedder, J.G. and Repenning, C.A., 1975.
- Elkhorn Hills
Vedder, J.G., 1970; Vedder, J.G. and Repenning, C.A., 1965.
- Figueroa Mountain
Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1981a; Hall, C.A. Jr., 1983.
- Foxen Canyon
Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1981a; Hall, C.A. Jr., 1983; Stafford, W.L., 1984.
- Gaviota
Dibblee, T.W. Jr., 1950; Upson, J.E., 1951.
- Goleta
Dibblee, T.W. Jr., 1966; Lownes, R.E., 1960.
- Hildeth Peak
Dibblee, T.W. Jr., 1966.
- La Panza
Dibblee, T.W. Jr., 1972d; Vedder, J.G., Howell, D.G., and McLean, H., 1986b; Welby, C.W., 1949.
- Las Yeguas Ranch
Dibblee, T.W. Jr., 1977b.
- Lion Canyon
Shmitka, R.O., 1970.
- Little Pine Mountain
Dibblee, T.W. Jr., 1966.
- Lompoc
Gibson, J.M., 1973b.
- Lopez Mountain
Scofield, D.H., 1975; Vedder, J.G., Howell, D.G., and McLean, H., 1986a.
- Los Olivos
Dibblee, T.W. Jr., 1950; Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1981a; Hall, C.A. Jr., 1983.
- McKittrick Summit
Dibblee, T.W. Jr., 1972e.
- Morro Bay South
Hall, C.A. Jr., 1973.
- Mt. Pinos
Dibblee, T.W. Jr., 1982; Dreyer, F.E., 1935; Hastings, D.S., 1976; Lofgen, G., 1963.
- Nipomo
Fisher, R.V., 1977; Hall, C.A. Jr. and Corbato, C.E., 1967; Johnson, F.A., 1931; Oakeshott, G.B., 1929; Taliaferro, N.L., unpublished.
- Orchard Peak
Dibblee, T.W. Jr., 1974b; Marsh, O.T., 1954; Marsh, O.T., 1960.
- Packwood
Drouillard, E.K., 1951; Key, C.E., 1955; MacLeod, G.M., 1948
- Paso Robles
Burch, S.H. and Durham, D.L., 1971; Dibblee, T.W. Jr., 1971d; Taliaferro, N.L.,

- unpublished.
- Piedras Blancas**
Hall, C.A. Jr., 1976; Lindh, A., Matooka, C., Ball, S., and Dollar, R., 1981; Taliaferro, N.L., unpublished.
- Point Arguello**
Dibblee, T.W. Jr., 1950.
- Point Conception**
Dibblee, T.W., 1950.
- Piru**
Cemends, I., 1977.
- Port San Luis**
Hall, C.A., Jr., 1973.
- Pozo Summit**
Dibblee, T.W. Jr., 1972f; Vedder, J.G., Howell, D.G., and McLean, H., 1986a.
- Salisbury Potrero**
Dibblee, T.W. Jr., 1972h; Vedder, J.G., Gower, H.D., Clifton, H.E., and Durham, D.L., 1967.
- San Luis Obispo** (see also Geographic locations, San Luis Obispo area)
Dibblee, T.W. Jr., 1974a; Fairbanks, H.W., 1904b.
- San Miguel**
Burch, S.H. and Durham, D.L., 1971; Dibblee, T.W. Jr., 1971e; Knutson, C.F., 1959; Taliaferro, N.L., 1943a; Vedder, J.G., Gower, H.D., Clifton, H.E., and Durham, D.L., 1967.
- San Rafael Mountain**
Dibblee, T.W. Jr., 1966.
- Santa Barbara** (see also Geographic locations, Santa Barbara area)
Dibblee, T.W. Jr., 1966; Lownes, R.E., 1960.
- Santa Margarita Lake**
Vedder, J.G., Howell, D.G., and McLean, H., 1986a.
- Santa Maria** (see also Geographic locations, Santa Maria)
Hall, C.A. Jr., 1978a.
- Santiago Creek**
Dibblee, T.W. Jr., 1973c.
- Sawtooth Ridge**
Wagner, J.P., 1951.
- Shandon**
Dibblee, T.W. Jr., 1974b.
- Sisquoc**
Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1981a;
- Tent Hills**
Herrera, L.J. Jr., 1950.
- Tepusquet Canyon**
Hall, C.A. Jr., 1978a.
- Tierra Redonda Mountain**
Durham, D.L., 1968b.
- Twitchell Dam**
Hall, C.A. Jr., 1978a.
- Ventura** (see also Geographic locations, Ventura area)
Cartwright, L.D. Jr., 1927.
- Wells Ranch**
Vedder, J.G., 1970; Vedder, J.G. and Repenning, C.A., 1965.
- Zaca Lake**
Hall, C.A. Jr., 1980; Hall, C.A. Jr., 1981a; Hall, C.A. Jr., 1983; Van Wagoner, A.G., 1981.

ECONOMIC GEOLOGY

Diatomite

Beyer, L.A., 1987; Clark, W.B., 1978; Earnest, L.J., 1981.

Gold

Malan, R., 1983.

Mercury

Asihene, E.B., 1962; Eckel, E.B., Yates, R.G., and Granger, A.E., 1941; Everhart, D.L., 1950; Jacobs, D.C., 1971; Monassah, A.A.R., 1980; Stephey, A.G., 1977.

Oil fields

Arroyo Grande

Krueger, M.L., 1943; Lawrence, E.D., 1958.

Brea-Olinda

Hodges, F.C. and Johnson, A.M., 1932.

Cat Canyon

Bell, H.W., 1918; Beyer, L.A., 1987; Collom, R.E., 1917; Collom, R.E., 1918b; Cross, R.K., 1943a; Cross, R.K., 1943b; Huey, W.F., 1954; Manlove, C., 1943; McLaughlin, R.P. and Waring, C.A., 1914; Prutzman, P.W., 1915; Roehl, P.O. and Weinbrandt, R.M., 1985.

Elwood

Belfield, W.C., Helwig, J., LaPointe, P., and Dahleen, W.K., 1983; Dolman, S.G., 1931; Patet, A., 1972a; Patet, A., 1972b.

Lompoc

Bell, H.W., 1918; Collom, R.E., 1918b; Dibblee, T.W. Jr., 1943; Dolman, S.G., 1932; Hodges, F.C. and Johnson, A.M., 1932; Hoots, H.W. and Herold, S.C., 1935; MacKinnon, T.C., 1983; McLaughlin, R.P. and Waring, C.A., 1914; Prutzman, P.W., 1915.

Lost Hills

Stosur, J.J., 1976.

Orcutt

Bell, H.W., 1918; Collom, R.E., 1917; Collom, R.E., 1918b; Dryer, F.E., 1943; Eldridge, G.H., 1903; Hoots, H.W. and Herold, S.C., 1935; McLaughlin, R.P. and Waring, C.A., 1914; Prutzman, P.W., 1915; Woodring, W.P. and Bramlette, M.N., 1950.

Point Arguello

Carpetner, A.B., Seixas, W.E., and Hicks, S.L., 1984; Oil and Gas Journal, 1983; Texaco U.S.A., 1983.

Salt Creek

Huckaba, W.A., 1952.

San Miguelito

Cities Service Oil and Gas Corporation and Celeron Pipeline Company of California 1986; Knutson, C.F., 1959;

Sheep Springs

Huckaba, W.A., 1952.

South Cuyama

Eaton, J.E., 1939; Eaton, J.E., 1943; Eckis, R., 1952; English, W.A., 1916; Schwade, I.T., Carlson, S.A., and O'Flynn, J.B., 1958; Schwing, H.F., 1982; Schwing, H.F., 1984; Zurberti, J.L., 1954.

Sunset

Arnold, R. and Johnson, H.R., 1910.

Wheeler Ridge

Cunningham, G.M., 1926.

Zaca

Ziemianski, W., Ponck, M., and Newman, B., 1983.

Oil lease reports

McCulloch, D.S., Clarke, S.H. Jr., Field, M.E., Scott, E.W., and Utter, P.M., 1977; McCulloch, D.S., Greene, H.G., Heston, U.S., and Rubin, D.M., 1980; McCulloch, D.S., Clarke, S.H. Jr.,

Field, M.E., Scott, E.W., and Utter, P.M., 1982; Richmond, W.C., Burdick, D.J., and Krotser, D.J., 1981; Richmond, W.C., Cummings, L.J., Hamlin, S., and Nagaty, M.E., 1981; Texaco U.S.A., 1983; Webster, F.L., Burdick, D.J., Griggs, D.G., and Yenne, K.A. 1982; Webster, F.L. and Yenne, K.A., 1987.

Petroleum

Arnold, R. and Anderson, R., 1907b; A.D. Little Inc., 1985; Baily, T.L., 1947; Baldwin, T.A., 1971; Bally, A.W. and Snelson, S., 1980; Belfield, W.C., Helwig, J., LaPointe, P., and Dahleen, W.K., 1983; Bell, H.W., 1918; Bell, H.W., 1920; Bertholf, H.W., 1967; Byer, L.A., 1987; Bilo-deau, B.J., Haug, G.A., and Thurston, S.P., 1986; Cabeen, W.R. and Sullwold, H.H. Jr., 1946; Canfield, C.R., 1939; Canfield, C.R., 1943; Carpetner, A.B., Seixas, W.E., and Hicks, S.L., 1984; Chevron U.S.A. Inc., 1982; Collins, K.M., McCord, C.A., Stadnychenko, A., and Yoskin, P., 1982; Cities Service Oil and Gas Corporation and Celeron Pipeline Company of California 1986; Collom, R.E., 1917; Collom, R.E., 1918a; Collom, R.E., 1918b Collom, R.E., 1928; Collom, R.E., 1929; Cook, H.E., ed., 1979; Cooke, L.W., 1985; Crain, W.E. and Mero, W.E., 1985; Crain, W.E. and Thurston, S.P., 1986; Crawford, F.D., 1971; Crawford, J.J., 1894; Cross, R.K., 1943a; Cross, R.K., 1943b; Curiale, J. A., Cameron, D., and Davis, D.V., 1985; Curran, J.F. and Hall, K.B., and Curray, J.R., 1966; Curran, J.F., 1982; Deprat, G.C., 1981; Dibblee, T.W. Jr., 1943; Dolman, S.G., 1931; Dolman, S.G., 1932; Doyle, W.T., 1964; Dryden, J.E., Erickson, R.C., Off, T., and Yost, S.W., 1965; Eaton, J.E., 1939; Eaton, J.E., 1943; Eckis, R., 1952; Eldridge, G.H., 1901; Eldridge, G.H., 1903; Emery, K.O. and Rittenberg, S.C., 1952; English, W.A., 1916; Exxon U.S.A. Company, 1982; Frame, R.G., 1941; Gore, F.D., 1923; Graham, D.H., 1938; Heasler, H.P., 1984; Heasler, H.P. and Surdam, R.C., 1984a; Heasler, H.P. and Surdam, R.C., 1984b; Heasler, H.P. and Surdam, R.C., 1985; Heasler, H.P. and Surdam, R.C., 1987; Heck, R.G. and Mannon, R.W., 1985; Hickey, D.E.P., 1985; Hodges, F.C. and Johnson, A.M., 1932; Hoots, H.W. and Herold, S.C., 1935; Hoots, H.W., 1943; Hoskins, E.G. and Griffiths, J.R., 1971; Hubbert, M.K. and Willis, D.G., 1955; Huey, W.F., 1954; Isaacs, C.M., 1984e; Isaacs, C.M. and Garrison, R.E., eds., 1983; Isaacs, C.M. and Petersen, N.F., 1987; Jarvie, D.M., Dow, W.G., and Yukler, M.A., 1987; Jenkins, O.P., ed., 1943; Kablanow, R.I. II and Surdam, R.C., 1984; King, J.D. and Claypool, G.E., 1983; King, V.L., 1943; Knutson, C.F., 1959; Krueger, M.L., 1943; Lawrence, E.D., 1958; Lewin and Associates Inc., 1983; Magoon, L.B. and Isaacs, C.M., 1983; Maher, J.C., Carter, R.D. and Lantz, R.J., 1975; Malan, R., 1983; Manlove, C., 1943; McCulloch, D.S., Clarke, S.H. Jr., Field, M.E., Scott, E.W., and Utter, P.M., 1977; McCulloch, D.S., Clarke, S.H. Jr., Field, M.E., Scott, E.W., and Utter, P.M., 1982; McCulloch, D.S. and Vedder, J.G., 1978; McCulloch, D.S., Greene, H.G., Heston, U.S., and Rubin, D.M., 1980; McLaughlin, R.P. and Waring, C.A., 1914; Merriam, C.W., 1931; Mertz, K.A. Jr., 1984a; Mertz, K.A. Jr., 1984b; Murata, M.J., 1984; Occidental Petroleum Corporation, 1983; Ogle, B.A., 1984; Ogle, B.A., Wallis, W.S., Heck, R.G., and Edwards, E.G., 1987; Oil and Gas Journal, 1983; Petersen, N.F., 1984; Porter, W.W. II, 1933; Porter, W.W. II, 1937; Porter, W.W. II, 1943; Prutzman, P.W., 1915; Redwine, L., 1981; Redwine, L.E., 1958; Regan, L.J. Jr. and Hughes, A.W., 1949; Roehl, P.O., 1981; Roehl, P.O. and Weinbrandt, R.M., 1985; Schwade, I.T., Carlson, S.A. and O'Flynn, J.B., 1958; Schwing, H.F., 1982; Schwing, H.F., 1984; Shirley, K., 1987; Surdam, R.C. and Stanley, K.O., 1984b; Texaco U.S.A., 1983; Vander Leck, L., 1921; Webster, F.L., Burdick, D.J., Griggs, D.G., and Yenne, K.A., 1982; Webster, F.L. and Yenne, K.A., 1987; Williams, B., 1987; Williams, L.A., 1984; Williams, M.D. and Holmes, C.N., 1945; Wissler, S.G. and Dreyer, F.E., 1943; Woodring, W.P., Boundy, P.V., and Farnsworth, H.R., 1932; Woodring, W.P., Bramlette, M.N., and Lohman, K.E., 1943; Woodring, W.P., Bramlette, M.N., Lohman, K.E., and Bryson, R.P., 1945; Woodring, W.P., Loofbourow, J.S. Jr., and Bramlette, M.N., 1945; Woodring, W.P. and Bramlette, M.N., 1950; Ziemianski, W., Ponck, M., and Newman, B., 1983; Zulberti, J.L., 1954.

Phosphorite

Dietz, R.S., 1939; Fedewa, W.T. and Hovland, R.D., 1981; Garrison, R.E., Kastner, M., and Kolodny, Y., 1987; Roberts, A.E., 1979; Roberts, A.E. and Vercoutere, T.L., 1986; Roberts, A.E., Vercoutere, T.L., Fedewa, W.T., and Hovland, D., 1981; Snyder, W.S., 1987; Tyson, R.M.,

Granata, J.S., Hemphill, W.R., and Theisen, A.F., 1985.

ENGINEERING GEOLOGY

Environmental geology

Agnew, D.C., 1979; Bezore, S.P., 1984; Hall, C.A. Jr., 1975; Loftus, S.R., 1980; McCulley, B.L., 1978; Richmond, W.C., Burdick, D.J., and Krotser, D.J., 1981; Richmond, W.C., Cummings, L.J., Hamlin, S., and Nagaty, M.E., 1981.

Landslides

Borchardt, G., Rice, S., and Treiman, J., 1982; Simonson, R.R. and Krueger, M.L., 1942.

GEOCHEMISTRY

Isotopes

Bureckner, H.K. and Snyder, W.S., 1985; Grossman, E.L., 1982; Haimson, M., 1983; Hennessy, J., 1983; Knauth, L.P., 1973; Lass, G.L., 1978; Mattinson, J.M., 1983; Murata, M.J., 1984; Murata, K.J., Friedman, I., and Gleason, J.D., 1977; Ng, C.A., 1982; Vidal, F.V., Welhan, J., and Vidal, V.M.V., 1982.

Mass properties-density, porosity

Beyer, L.A., 1983; Duggan, D.E., 1964; Hurd, D.C., 1986; Isaacs, C.M., 1981; Levine, P. and Yerkes, R. F., 1985.

GEOCHRONOLOGY

Fission Track

Izett, G.A., Naeser, C.W., and Obradovich, J.D., 1974.

Radiometric dating

Bandy, O.L. and Ingle, J.C. Jr., 1970; Hurst, R.W., 1986; Turner, D.L., 1970; Veeh, H.H. and Valentine, J.W., 1968.

GEOMORPHOLOGY

Coastal features

Bunnell, D. and Vesely, C., 1982; Glover, B., 1971; Hamilton, D.H. and Willingham, C.R., 1979; Muehlberger, E.B., 1955; Patterson, R.H., Wehmiller, J.F., and Hare, P.E., 1982; Putman, W.C., 1930; Richardson, R.W., 1924; Tresselt, P., 1960; Upson, J.E., 1951.

GEOPHYSICS

Electrical surveys

Lopez, V.J. Correa, 1981; Philips, W.J., 1981.

Gravity surveys

Beyer, L., 1979; Burch, S.H. and Durham, D.L., 1971; Burch, S.H., Grannell, R.B. Hanna, W.F., 1968; Hanna, W.F., Oliver, H.W., Sikora, R.F., and Robbins, S.L., 1974; Hanna, W.F. and Burch, S.H., 1968; Hanna, W.F., Burch, S.H., and Dibblee, T.W. Jr., 1972; Hanna, W.F., Rietman, J.D., and Biehler, S., compilers, 1974; Jachens, R.C. and Griscom, A., 1984; Kieniewicz, P.M., 1985; Kieniewicz, P.M. and Luyendyk, B.P., 1986; Roberts, C.W., Jachens, R.C., and Oliver, H.W., 1981; Up DeGraff, J.E., 1984.

Magnetic surveys

Beebe, W.J., 1986; Champion, D.E. and Gromme, C.S., 1984; Greenhaus, M.R. and Cox, A., 1979; Hanna, W.F. and Burch, S.H., 1968; Hanna, W.F., Burch, S.H., and Dibblee, T.W. Jr., 1972; High Life Helicopters, 1981; Hornafius, J.S., 1985; Kamerling, M.J. and Luyendyk, B.P., 1979; Kempner, W.C., 1977; Lopez Correa, V.J., 1981; Luyendyk, B.P., Kammerling, M.J., Terres, R.R., and Hornafius, J.S., 1985; McCulloch, D.S. and Chapman, R.H., 1977; Morris, L.K., Lund, S.P., and Bottjer, D.J., 1986; Pike, S.J., 1981; Terres, R.R. and Luyendyk, B.P., 1985.

Paleomagnetism

Beebe, W.J., 1986; Champion, D.E. and Gromme, C.S., 1984; Greenhaus, M.R. and Cox, A.,

1979; Hornafius, J.S., 1985; Kamerling, M.J. and Luyendyk, B.P., 1979; Kempner, W.C., 1977; Luyendyk, B.P., Kammerling, M.J., Terres, R.R., and Hornafius, J.S., 1985; Morris, L.K., Lund, S.P., and Bottjer, D.J., 1986; Pike, S.J., 1981; Terres, R.R. and Luyendyk, B.P., 1985.

Seismology

Applegate, J.K., 1968; Asquith, D.O., 1982; Clark, D.H., Hamilton, D.H., Hall, N.T., and Heck, R.G., 1987; Crouch, J.K. and Bachman, S., 1984b; Eaton, J.P., 1984; Ewing, J., Talwani, M., Williams, J., Meltzer, A., Levander, A., and Gibson, B., 1987; Gawthrop, W.H., 1975; Gawthrop, W.H., 1977; Gawthrop, W.H., 1978; Gawthrop, W.H. and Engdahl, E.R., 1975; Green, S.M., 1983; Hadley, D. and Kanamori, H., 1977; King, J.L., 1981; Levander, A.R. and Putzig, N.E., 1987; Howie, J.M. and Savage, W.U., 1987; Lindh, A., Matooka, C., Ball, S., and Dollar, R., 1981; Maley, R.P., 1970; McCulloch, D.S., 1987; McIntosh, K.D., Silver, E.A., and Reed, D.L., 1987; McLaren, M.K. and Savage, W.U., 1987; Meltzer, A.S. and Levander, A.R., 1987; Mooney, W.D., Walter, A.W., Sharpless, S., and Levander, A.R., 1987; Murphy, J.M. and Walter, A.W., 1984; Nason, R.D., 1971; Nichols, G., 1978; Page, B.M., 1987; Savage, J.C. and Prescott, W.H., 1978; Silver, E.A., McIntosh, K.D., and Reed, D.L., 1987; Spitz, H.M., 1986; Talwani, M., Mooney, W., Savage, W.U., Thompson, G.A., Levander, A., and Trehu, A., 1987; Teng, L.S.Y., 1985; Trehu, A., Shay, J., Miller, G., and Brown, B., 1987; Tuttle, M.P., 1985; Wagner, H.C., 1974; Walter, A. 1987; Walter, A.W. and Mooney, W.D., eds., 1985; Willingham, C.R. and Rietman, J.D., 1987; Yeats, R.S. and Lee, W.H.Y., 1979.

HYDROGEOLOGY

Ground-water conditions

Cleath, T.S., 1978; Evenson, R.E., 1965; Gardner, D.A., 1974; Matin, A., 1982; Slade, R.C., 1975; Upson, J.E. and Thomasson, H.G. Jr., 1951; Upson, J.E. and Worts, G.F. Jr. 1952; Valentine, J.W., 1958; Wood, P.R. and Davis, G. H., 1959.

Ground-water resources

Evenson, R.E. and Miller, G.A., 1963; Terres, D.A., 1984; Worts, G.F., 1951.

MARINE GEOLOGY

Ocean basins

Bradford, W.T., 1969; Crain, W.E. and Thurston, S.P., 1986; Epstein, S.A. and Nary, Q.L., 1982; Filloux, J.H., 1967; Ingle, J.C. Jr., 1987; Ogle, B.A., 1984; Thurston, S.P., 1986.

Oceanography

Chelton, D.B. Jr., 1980; Filloux, J.H., 1967; Grossman, E.L., 1982; Hendrickson, D.E., 1976; Steinker, D.C., 1969; Summerhayes, C.P., 1981; Vidal, F.V., Welhan, J., and Vidal, V.M.V., 1982.

Sediment transport

Davis, C.C., 1980; Hogan, P.J., 1986; Hoyt, D.R., 1976; Reynolds, S., Yasuda, Y., and Gosline, D.S., 1983.

Submarine canyons

Crowell, J.C., 1952; Shepard, F.P., and Emery, K.O., 1941.

MINERALOGY

Eckel, E.B., Yates, R.G., and Granger, A.E., 1941; Ernst, W.G. and Hall, C.A. Jr., 1975; Fan, Pow-foong 1963; Fernow, D.L., 1960; Fleisher, P., 1970; Frizzell, V.A. Jr. and Hale, W.N., 1984; Gower, H.D., Vedder, J.G., Clifton, H.E., and Post, E.V., 1966; Hart, E.W., 1971; Hein, J.R., Vanek, E., and Allen, M.A., 1979; Hennessy, J. and Knauth, L.P., 1985; Keene, J.B. and Malan, R., 1983; Mashburn, L.E. and Cloos, M., 1985; McCulloch, R.B. and Newmann, T.R., 1982; Morris, E.C., 1962; Murata, K.J. and Randall, R.G., 1975; Page, N.J., 1966; Smith, C.T., 1943; Van de Kamp P.C. and Leake, B.E., 1974.

OCEANOGRAPHY

Blake, G.H., 1985; Chelton, D.B. Jr., 1980; Filloux, J.H., 1967; Grossman, E.L., 1982; Hendrickson, D.E., 1976; Matthews, J.L., 1966; Norris, R.N., 1949; Pearson, R.T., 1975; Schultejan, P.A., 1984; Steinker,

D.C., 1969; Summerhayes, C.P., 1981; Tibby, R.B., 1944; Vidal, F.V., Welhan, J., and Vidal, V.M.V., 1982.

PALEOECOLOGY

Bandy, O.L., 1953b; Berry, D.R., 1970; Browning, J.V., 1983; Collier, K., 1978; Donegan, D. and Schrader, H., 1981; Govean, F.M., 1980; Johnson, C.J., 1968; Lagoe, M.B., 1982c; McDougall, D.A., 1979.

PALEONTOLOGY

Ages

Cretaceous

Dailey, D.H. and Popenoe, W.P., 1966; Gibson, J.M., 1976; Kew, W.S.W., 1920.

Tertiary

Arnold, R., 1906; Arnold, R., 1907b; Cushman, J.A. and Adams, B.C., 1935; Donnelly, A.T., 1976; Herlyn, H.T., 1948; Molander, G.E., 1956; Natland, M.L., 1940; Poore, R.Z., Sliter, W.V., and Link, M.H., 1977; Schenck, H.G. and Childs, T.S. Jr., 1942; Schmidt, R.R., 1970.

Paleogene

Addicott, W.O., 1970; Bandy, O.L., 1972; Gibson, J.M., 1976; Squires, R.L. and Fritsche, A.E., 1978.

Paleocene

Kennedy, G.L. and Wehmiller, J.F., 1986; Wigley, C.R., 1984.

Eocene

Cifelli, R., 1951; Classen, W.J. Jr., 1960; Crowell, J.C. and Susuki, T., 1959; Dickerson, R.E., 1914; Givens, C.R., 1974; Hornaday, G.R., 1954; Kelley, F.R., 1941; Lawson, D.A., 1977; Mallory, V.S., 1948; Narasimhan, T., 1960; O'Brien, J.M., 1972; Sparks, D.D., 1924; Vaughan, J.L., 1976; Weaver, W.R., 1957; Weaver, W.R. and Weaver, D.W., 1962.

Oligocene

Addicott, W.O., 1973; O'Brien, J.M., 1972; Waters, J.N., 1963; Weaver, W.R. and Weaver, D.W., 1962; Wiedey, L.W., 1929.

Miocene

Addicott, W.O., 1972; Bagg, R.M., 1905; Bandy, O.L., 1972; Barron, J.A., 1975; Barron, J.A., 1976; Barron, J.A., Keller, G., and Dunn, D.A., 1985; Billman, H.G. and Hopkins, A.A. Jr., 1980; Blake, G.H., 1981; Branner, J.C., 1905; Cushman, J.A., 1918; Cushman, J.A. and Galliher, E.W., 1934; Cushman, J.A. and Kleinpell, R.M., 1934; Dougherty, J.F., 1939; Dumont, M.P., 1986; Dumont, M.P., 1984; Finger, K.L. and Gaponoff, S.L., 1986; Jordan, D.S. and Gilbert, J.Z., 1919; Lagoe, M.B. and McDougall, K., 1986; Loel, W.F., 1917; Loel, W. and Corey, W.H., 1932; Patet, A., 1972a; Patet, A., 1972b; Phillips, F.J., 1976; Smith, P.B. and Durham, D.L., 1968; Squires, R.L. and Fritsche, A.E., 1978; Turner, D.L., 1970; Weaver, J.C.B., 1986; Wiedey, L.W., 1928; Wiedey, L.W., 1929; Woodburne, M.O. and Whistler, D.P., 1973; Woodring, W.P., Bramlette, M.N., and Kleinpell, R.M., 1936; Wornardt, W.W. Jr., 1972.

Pliocene

Artusy, R., 1939; Barron, J.A., 1975; Barron, J.A., 1976; Barron, J.A. and Bauldauf, J.G., 1986; Blake, G.H., 1981; Carson, C.M., 1925; Carson, C.M., 1926; Demere, T.A., 1978; Dorf, E., 1930; Dumont, M.P., 1986; Dumont, M.P., 1984; Grant, U.S. IV and Gale, H.R., 1931; Hall, C.A. Jr., 1966; Reinhart, P.W. and Rogers, A.F., 1938; Rich, P.V., 1969; Wornardt, W.W. Jr., 1972; Wornardts, W.W. and Wright, F.F., 1967; Young, J.T., 1979.

Pleistocene

Blake, G.H., 1976; Demere, T.A., 1978; Grant, U.S. IV and Gale, H.R., 1931; Lance, J.F., 1946; Miller, W.E.I., 1962; Upson, J.E. and Worts, G.F. Jr. and Valentine, J.W., 1958; Veeh, H.H. and Valentine, J.W., 1968; Webber, I.E.S., 1927; Young, J.T., 1979.

Microfossils

- Diatoms**
 Barron, J.A., 1975; Barron, J.A., 1976; Barron, J.A., 1986a; Barron, J.A., 1986b; Barron, J.A. and Bauldauf, J.G., 1986; Barron, J.A., Keller, G., and Dunn, D.A., 1985; Dumont, M.P., 1986; Govean, F.M. and Garrison, R.E., 1981; Hanna, G.D., 1956; Hornafius, J.S. and Lagle, C.W., 1984; Keller, G. and Barron, J.A., 1981; Narasimhan, T., 1960; Rowell, H.C., 1981; Wornardts, W.W. and Wright, F.F., 1967.
- Foraminifera**
 Bagg, R.M., 1905; Bandy, O.L., 1972; Bandy, O.L., 1953a; Bandy, O.L., 1953b; Bandy, O.L. and Ingle, J.C. Jr., 1970; Berry, D.R., 1970; Billman, H.G. and Hopkins, A.A. Jr., 1980; Blaisdell, R.C., 1955; Blake, G.H., 1976; Blake, G.H., ed., 1980; Blake, G.H., 1981; Blake, G.H., 1985; Branner, J.C., 1905; Canfield, C.R., 1939; Cifelli, R., 1951; Classen, W.J. Jr., 1960; Cushman, J.A., 1918; Cushman, J.A., 1926; Cushman, J.A. and Adams, B.C., 1935; Cushman, J.A. and Barbat, W.F., 1932; Cushman, J.A. and Galliher, E.W., 1934; Cushman, J.A. and Kleinpell, R.M., 1934; Donnelly, A.T., 1976; Finger, K.L. and Gaponoff, S.L., 1986; Gibson, J.M., 1976; Gifford, C.D., 1924; Herlyn, H.T., 1948; Hornaday, G.R., 1954; Hornaday, G.R., 1961; Jeffreys, S.R., 1940; Keller, G. and Barron, J.A., 1981; Kelley, F.R., 1941; Lagoe, M.B. and McDougall, K., 1986; Mallory, V.S., 1948; Molander, G.E., 1956; Natland, M.L., 1940; Patet, A., 1972a; Patet, A., 1972b; Phillips, F.J., 1976; Poore, R.Z., Sliter, W.V., and Link, M.H., 1977; Schmidt, R.R., 1970; Smith, P.B. and Durham, D.L., 1968; Sparks, D.D., 1924; Steinker, D.C., 1969; Turner, D.L., 1970; Vaughan, J.L., 1976; Waters, J.N., 1963; Weaver, J.C.B., 1986; Weaver, W.R., 1957; Weaver, W.R. and Weaver, D.W., 1962; Wilson, E.J., 1950; Wilson, E.J., 1954; Woodring, W.P. and Bramlette, M.N., 1950; Woodring, W.P., Bramlette, M.N., and Lohman, K.E., 1943; Wornardt, W.W. Jr., 1972; Young, J.T., 1979.
- Ostracodes**
 Duncan, D.C., 1969.
- Nannoplankton**
 Narasimhan, T., 1960.
- Radiolarians**
 Pessagno, E.A. Jr., 1973; Stanley, E.M., 1981; Wigley, C.R., 1984.
- Silicoflagellates**
 Barron, J.A., 1976.
- Megafossils**
- Arthropoda**
 James, G.T., 1963; Loel, W. and Corey, W.H., 1932; Reinhart, P.W. and Rogers, A.F., 1938.
- Chordata (fish, mammals, reptiles)**
 Jordan, D.S. and Gilbert, J.Z., 1919; Dougherty, J.F., 1939; James, G.T., 1963; Miller, W.E.I., 1962; Stirton, R.A. and Weddle, H.W., 1929; Woodburne, M.O. and Whistler, D.P., 1973; Camp, C.L., 1942.
- Coelenterata**
 Loel, W. and Corey, W.H., 1932.
- Echinodermata**
 Grant U.S. IV and Hertlein, L.G., 1938; Hall, C.A. Jr., 1966; Kew, W.S.W., 1920; Loel, W., Corey, W.H., 1932.
- Mollusca**
 Addicott, W.O., 1970; Addicott, W.O., 1972; Addicott, W.O., 1973; Arnold, R., 1906; Arnold, R., 1907b; Bartsch, P., 1911; Carson, C.M., 1925; Carson, C.M., 1926; Dailey, D.H. and Popenoe, W.P., 1966; Givens, C.R., 1974; Grant, U.S. IV and Gale, H.R., 1931; Kennedy, G.L. and Wehmiller, J.F., 1986; Lawson, D.A., 1977; Loel, W. and Corey, W.H., 1932; Reinhart, P.W., 1943; Reinhart, P.W. and Rogers, A.F., 1938; Repenning, C.A. and Vedder, J.G., 1961; Squires, R.L. and Fritsche, A.E., 1978; Wiedey, L.W., 1929; Woodring, W.P. and Bramlette, M.N., 1950; Woodring, W.P., Bramlette, M.N., and Lohman, K.E.,

1943.
Stromatolites
Williams, L.A., 1984.

PALYNOLOGY

Clark, J.L., 1981; Fredricksen, N.O., 1984; Srivastava, S.K., 1984.

PETROLOGY, IGNEOUS

Basement rocks

Cabeen, W.R. and Sullwold, H.H. Jr., 1946; Gray, L.D., 1980; Gray, L.D., 1981; Kieniewicz, P.M. and Luyendyk, B.P., 1986; Mattinson, J.M., 1983; Ross, D.C., 1974;

Ophiolite

Beebe, W.J., 1986; Hopson, C.A. and Franco, C.J., 1979; Hopson, C.A., Frano, C.J., Pessagno, E.A., and Mattinson, J.M., 1975; Kempner, W.C., 1977; Lass, G.L., 1978; Nichols, G., 1978; Pike, J.E.N., 1974.

Volcanics

Clifton, H.E., 1967; Robyn, E.S., 1979; Robyn, E.S., 1980.

PETROLOGY, SEDIMENTARY

Sedimentary rocks

Chert

Kastner, M., Mertz, K., Hollander, D., and Garrison, R., 1984.

Diatomite

Clark, W.B., 1978; Earnest, L.J., 1981; Govean, F.M. and Garrison, R.E., 1981 ; Ingle, J.C. Jr., 1981; Stosur, J.J. and David, A., 1976.

Dolomite

Compton, J.S., 1986; Hennessy, J. and Knauth, L.P., 1985; Hornafius, J.S., 1984; Isaacs, C.M., 1984a; Kablanow, R.I. II, Surdam, R.C., and Prezbindowski, D., 1984a; Kablanow, R.I. II, Surdam, R.C., and Prezbindowski, D., 1984b; Kastner, M., Mertz, K., Hollander, D., and Garrison, R., 1984; Kushnir, J. and Kastner, M., 1984; Reeder, R.J., 1980; Roehl, P.O., 1981.

Mudstone

Granata, J.S., Tyson, R.M., Theisenu, A.F., and Hemphill, W.R., 1984.

Porcellanite

Ernst, W.G. and Calvert, S.E., 1969; Murata, K.J. and Nakata, J.K., 1974.

Sandstone

Crandell, B.G., 1961; Hart, E.W., 1977; Lane, C., 1987; Link, M.H., 1972; Link, M.H., 1974; Page, B.M., Williams, M.D., Holmes, C.N., and Mapel, J., 1944.

Shale

Branner, J.C., 1905; Cannon, D.E., 1981 ; Gore, F.D., 1923; Krystinik, L.F., 1981; Lagoe, M.B. , 1981; Murata, K.J., Friedman, I., and Gleason, J.D., 1977; Murata, K.J. and Nakata, J.K., 1974.

Diagenesis

Baker, P.A., 1981; Brueckner, H.K. and Snyder, W.S., 1985; Compton, J.S., 1986; Compton, J.S. and Siever, R., 1986; Dickert, P.F., 1966; Emery, K.O. and Rittenberg, S.C., 1952; Ernst, W.G. and Calvert, S.E., 1969; Fedewa, W.T. and Hovland, R.D., 1981; Flowers, G.C., 1979; Heasler, H.P., 1984; Heasler, H.P. and Surdam, R.C., 1985; Hein, J.R., Vanek, E., and Allen, M.A., 1979; Helmholt, K.P., 1980; Henderson, N.C., 1983; Hurd, D.C., 1986; Ingle, J.C. Jr., 1981; Isaacs, C.M., 1980; Isaacs, C.M., 1981b; Isaacs, C.M., 1981e ; Isaacs, C.M., 1982; Isaacs, C.M., 1983; Isaacs, C.M., Pisciotto, K.A., and Garrison, R.E., 1983; Kablanow, R.I. II, 1983; Kablanow, R.I. II, 1986; Kastner, M., Mertz, K., Hollander, D., and Garrison, R., 1984; Keller, M.A., 1982; Keller, M.A. and Isaacs, C.M., 1985; Krystinik, L.F., 1981; Matthews, R.B., 1985; Mertz, K.A. Jr., 1984a; Mertz, J'K.A. Jr., 1984b; Murata, K.J. and Larson, R.R., 1975; Murata, K.J. and

Nakata, J.K., 1974; Murata, K.J. and Randall, R.G., 1975; Pisciotto, K.A., 1981a; Pisciotto, K.A., 1981b; Pisciotto, K.A., 1981d; Ranson, B., in progress; Surdam, R.C., 1980; Surdam, R.C. and Hall, C.A., 1984; Surdam, R.C. and Stanley, K.O., 1984b.

Sedimentary structures

Clifton, H.E., 1981; Galehouse, J.S., 1966a; Galehouse, J.S., 1966b; Harper, J.O., Coniff, J.J., Morris, P.A., 1974; Kahle, J.E., 1966; Ramirez, P., 1987.

Siliceous sediments

Casey, R.E. and Barron, J.A., eds. 1986; Demere, T.A., 1978; Garrison, R.E., Douglas, R.G., Pisciotto, K.A., Isaacs, C.M. and Ingle, J.C. Jr., eds., 1981; Garrison, R.E., Kastner, M. and Zenger, D.H., 1984; Taliaferro, N.L., 1933.

Fluvial sedimentation

Ballance, P.F., 1984.

PETROLOGY, METAMORPHIC

Ross, D.C., 1976; Ross, D.C., 1977.

STRATIGRAPHY

Ages

Cretaceous

Browning, J.V., 1983; Champeny, J.D., 1965; Chipping, D.H., 1970a; Chipping, D.H., 1970b; Curran, J.F., and others, 1959; Kidson, E.J., 1965; Krause, R.G.F., 1986; Smith, G.D., 1985; Taliaferro, N.L., 1944; Van Gundy, C.E., 1934; Vedder, J.G., Howell, D.G., and McLean, H., 1980; Vedder, J.G., Howell, D.G., and McLean, H., 1983.

Pre-Tertiary

Howell, D.G. and McDougall, K.A., eds., 1978; Ingersoll, R.V., 1978.

Tertiary

Arthur, M.A., 1974; Chipping, D.H., 1972; Donnelly, A.T., 1976; Graham, S.A., 1979; Howell, D.G. and McDougall, K.A., eds., 1978; Ingersoll, R.V., 1978; Malan, R. and Malory, V.S., 1959; Molander, G.E., 1956; Reid, S.A., 1978; Smith, M., 1974; Warren, A.D. and Newell, J.H., 1980.

Quaternary

Kennedy, G.L. and Wehmiller, J.F., 1986.

Paleocene

Berggren, W.A. and Van Couvering, J.A., 1974; Champeny, J.D., 1965; Clark, J.L., 1981; Huang, C., 1980; Ingle, J.C. Jr., 1987; Kennedy, G.L. and Wehmiller, J.F., 1986; Taliaferro, N.L., 1944; Vincent, E. and Berger, W.H., 1985.

Eocene

Chipping, D.H., 1970a; Clark, J.L., 1981; Crowell, J.C. and Susuki, T., 1959; Curran, J.F., 1942; Geijer, T.A.M., 1986; Givens, C.R., 1974; Givens, C.R., 1969; Kelley, F.R., 1941; Kelley, F.R., 1943; Lawson, D.A., 1977; McDougall, D.A., 1979; Vaughan, J.L., 1976; Warren, A.D. and Newell, J.H., 1980; Weaver, D.W. and Molander, G.E., 1964.

Oligocene

Kleinpell, R.M. and Weaver, D.W., 1963.

Miocene

Arthur, M.A., 1974; Bandy, O.L., 1972; Barron, J.A., 1975; Billman, H.G. and Hopkins, A.A. Jr., 1980; Clifton, H.E., 1967; Compton, J.S. and Seiver, R., 1984; Donegan, D. and Schrader, H., 1981; Dumont, M.P., 1984; Eaton, J.E., Grant, U.S., and Allen, H.B., 1941; Fedewa, W.T. and Hovland, R.D., 1981; Fritsche, A.E., 1977; Graham, S.A., 1980; Ingle, J.C. Jr., 1967; Isaacs, C.M., Stewart, K.C., and Jackson, L.L., 1986; Kleinpell, R.M., 1980; Kleinpell, R.M., 1938; Lagoe, M.B., 1982a; Lagoe, M.B., 1987a; Smith, G.D., 1985; Vincent, E. and Berger, W.H., 1985; Woodring, W.P., Bramlette, M.N., and Kleinpell, R.M., 1936.

Pliocene

Barron, J.A., 1975; Berggren, W.A. and Van Couvering, J.A., 1974; Demere, T.A., 1978; Dumont, M.P., 1984; Ingle, J.C. Jr., 1967; Isaacs, C.M., Stewart, K.C., and Jackson, L.L., 1986; James, B., 1985; Porter, W.W. II, 1932; Wornardts, W.W. and Wright, F.F., 1967.

Pleistocene

Demere, T.A., 1978; Upson, J.E., 1949.

Units

Alegria Formation

Protzman, D.L., 1960;

Anita Formation

Gibson, J.M., 1973a.

Bealville Funglomerate

Dibble, T.W. Jr., Warne, A.H., 1986;

Buckhorn Sandstone

Crandell, B.G., 1961.

Cambria Felsite Formation

Smith, G.W., 1978.

Coldwater Formation

Blaisdell, R.C., 1955.

Cozy Dell Formation

Berman, B.H., 1979; Blaisdell, R.C., 1955.

Foxen Formation

Stafford, W.L., 1984; Woodring, W.P., Bramlette, M.N., 1950.

Franciscan Formation

Curran, J.F. and others, 1959; Krammes, K.F. and Curran, J.F., and others, 1959; Page, B.M., 1970b; Schussler, S.A., 1981.

Great Valley Sequence

Berggren, W.A. and Van Couvering, J.A., 1974; Berry, D.R., 1970; Johnson, B.A., 1979; MacKinnon, T.C., 1978; Miller, M.G., 1983; Page, B.M., 1970b; Weaver, D.W. and Molander, G.E., 1964.

Jalama Formation

Browning, J.V., 1983; Dailey, D.H., 1960a; Dailey, D.H., 1960b.

Knoxville Formation

Cabeen, W.R. and Sullwold, H.H. Jr., 1946; Easton, W.H. and Imlay, R.W., 1955; Merriam, C.W., 1931.

Lospe Formation

Anderson, D.S., 1980; Arnold, R. and Anderson, R., 1907; Woodring, W.P., Bramlette M.N., Lohman, K.E., 1943.

Martinez Formation

Curran, J.F., 1942; Glover, J.J.E. and Goudy, C.L., 1937; Van Gundy, C.E., 1934.

Matilija Formation

Blaisdell, R.C., 1955.

Monterey Formation

Anderson, A.T., Arnold, R., and Anderson, R., 1907; Bagg, R.M., 1905; Barron, J.A., 1986a; Barron, J.A., 1986b; Belfield, W.C., Helwig, J., LaPointe, P., and Dahleen, W.K., 1983; Bell, H.W., 1918; Beyer, L.A., 1983; Blake, G.H., 1981; Bradford, W.T., 1969; Bramlette, M.N., 1946; Branner, J.C., 1905; Brueckner, H.K. and Snyder, W.S., 1985; Cannon, D.E., 1981; Casey, R.E. and Barron, J.A., eds. 1986; Collom, R.E., 1918b; Compton, J.S., 1986; Compton, J.S. and Seiver, R., 1984; Compton, J.S. and Siever, R., 1986; Curiale, J. A., Cameron, D., and Davis, D.V., 1985; Cushman, J.A., 1926; Donegan, D. and Schrader, H., 1981; Dunham, J.B., ed. 1987; Eaton, J.P., 1984; Eckel, E.B., Yates, R.G., and Granger, A.E., 1941; Eldridge, G.H., 1903; Fairbanks, H.W., 1894; Finger, K.L. and Gaponoff, S.L., 1986; Friedman, I. and Murata, K.J., 1979; Garrison, R.E., Douglas, R.G., Pisciotto, K.A., Isaacs, C.M. and Ingle, J.C. Jr., eds., 1981. Garrison, R.E., Kastner, M. and

Zenger, D.H., 1984; Gifford, C.D., 1924; Govean, F.M., 1980; Govean, F.M. and Garrison, R.E., 1981; Grivetti, M.G., 1982; Haimson, M., 1983; Hanna, G.D., 1928; Heck, R.G. and Mannon, R.W., 1985; Henderson, N.C. Jr., Crawford, G.A., Durham, J.B., and Osborne, R.H., 1984; Hendrickson, D.E., 1976; Hennessy, J., 1983; Hennessy, J. and Knauth, L.P., 1985; Hickey, D.E.P., 1985; Hill, C.E., 1976; Hornafius, J.S., 1983; Hornafius, J.S., 1984; Hornafius, J.S., 1985; Hornafius, J.S. and Lagle, C.W., 1984; Hurd, D.C., 1986; Hurst, R.W., 1986; Ingle, J.C. Jr., 1969; Ingle, J.C. Jr., 1981; Isaacs, C.M., 1980; Isaacs, C.M., 1981a; Isaacs, C.M., 1981c; Isaacs, C.M., 1981d; Isaacs, C.M., 1981e; Isaacs, C.M., 1982; Isaacs, C.M., 1983; Isaacs, C.M., 1984a; Isaacs, C.M., 1984b; Isaacs, C.M., 1984c; Isaacs, C.M., 1984e; Isaacs, C.M., 1987a; Isaacs, C.M., 1987b; Isaacs, C.M., 1987c; Isaacs, C.M. and Garrison, R.E., eds., 1983; Isaacs, C.M. and Petersen, N.F., 1987; Isaacs, C.M., Pisciotto, K.A. and Garrison, R.E., 1983; Jarvie, D.M., Dow, W.G. and Yukler, M.A., 1987; Jordan, D.S. and Gilbert, J.Z., 1919; Kablanow, R.I. II, 1983; Kablanow, R.I. II, 1986; Kablanow, R.I. II and Surdam, R.C., 1984; Kablanow, R.I. II, Surdam, R.C., and Prezbindowski, D., 1984a; Kastner, M., Mertz, K., Hollander, D., and Garrison, R., 1984b; Katherman, C.E., 1983; Keller, G. and Barron, J.A., 1981; Keller, M.A., 1982; Keller, M.A. and Isaacs, C.M., 1985; King, J.D. and Claypool, G.E., 1983; Kushnir, J. and Kastner, M., 1984; Lagoe, M.B., 1981; Lagoe, M.B., 1982b; Lagoe, M.B., 1982c; Lagoe, M.B., 1984a; Lagoe, M.B., 1984b; Lagoe, M.B., 1985; Lagoe, M.B. and McDougall, K., 1983; Louderback, G.D., 1913; MacKinnon, T.C., 1983; Malan, R. and Mallory, V.S., 1959; Marsh, O.T., 1954; Martin, B., 1912; Matthews, R.B., 1985; Mertz, K.A. Jr., 1984a; Mertz, K.A. Jr., 1984b; Murata, K.J., Friedman, I., and Gleason, J.D., 1977; Murata, K.J. and Randall, R.G., 1975; Murata, M.J., 1984; Obradovich, J.D. and Naeser, C.W., 1981; Patet, A., 1972a; Patet, A., 1972b; Pearson, R.T., 1975; Pike, R.W., 1925; Pisciotto, K.A., 1978; Pisciotto, K.A., 1981a; Pisciotto, K.A., 1981b; Pisciotto, K.A., 1981c; Pisciotto, K.A., 1981d; Pisciotto, K.A. and Garrison, R.E., 1981; Poore, R.Z., McDougall, K., Barron, J.A., Brabb, E.E., and Kling, S.A., 1981; Redwine, L., 1981; Roehl, P.O., 1981; Roehl, P.O. and Weinbrandt, R.M., 1985; Rowell, H.C., 1981; Scofield, D.H., 1975; Smith-Evernden, R.K., 1985; Snyder, W.S., Brueckner, H.K., and Schweickert, R.A., 1983; Soutar, A., Johnson, S.R., and Baumgartner, T.R., 1981; Srivastava, S.K., 1984; Stanley, K.O. and Surdam, R.C., 1984; Summerhayes, C.P., 1981; Surdam, R.C., 1980; Surdam, R.C., ed. 1984; Surdam, R.C. and Hall, C.A., 1984; Surdam, R.C., Prezbindowski, D., and Kablanow, R.I., 1984; Surdam, R.C. and Stanley, K.O., 1984a; Surdam, R.C. and Stanley, K.O., 1984b; Vincent, E. and Berger, W.H., 1985; Weaver, J.C.B., 1986; Wigley, C.R., 1984; Williams, L.A., 1984; Ziemianski, W., Ponck, M., and Newman, B., 1983.

Munson Creek Formation

Player, G.F., 1966.

Obispo Tuff

Robyn, E.S., 1979; Robyn, E.S., 1980.

Orcutt Sand

Collom, R.E., 1917; Woodring, W.P. and Bramlette, M.N., 1950.

Paso Robles Formation

Burch, S.H. and Durham, D.L., 1971; Dibblee, T.W. Jr., 1971d; Galehouse, J.S., 1966a; Galehouse, J.S., 1966b; Taliaferro, N.L., unpublished. Woodring, W.P. and Bramlette, M.N., 1950; Woodring, W.P. and Bramlette, M.N., Lohman, K.E., 1943.

Pico Formation

Artusy, R., 1939; Cartwright, L.D. Jr., 1927; Izett, G.A., Naeser, C.W., and Obradovich, J.D., 1974.

Plush Ranch Formation

Kahle, J.E., 1966.

Point Sal Formation

Arnold, R., Anderson A.R., 1907; Woodring, W.P. and Bramlette, M.N., 1950; Woodring, W.P. Bramlette, M.N., and Lohman, K.E., 1943.

- Rincon Formation
Snedden, L.B., 1931.
- Ricardo Formation
Whistler, D.P., 1969.
- Sacate Formation
Hornday, G.R., 1961.
- Saltos Shale Member
Lagoe, M.B., 1981; Lagoe, M.B. and McDougall, K., 1983.
- San Pablo Group
Clark, B.L., 1924; Johnson, F.A., 1931.
- Santa Margarita Formation
Collier, K., 1978; Granata, J.S., Tyson, R.M., Theisenu, A.F., and Hemphill, W.R., 1984; Hart, E.W., 1976; Hill, C.E., 1976; Ingle, J.C. Jr., 1969; Richards, G.L. Jr., 1933; Roberts, A.E., 1979; Scofield, D.H., 1975; Thor, D.R., 1978.
- Sespe Formation
Belvea, R.R., 1985; Howard, J.L., 1987; Protzman, D.L., 1960; Reid, S.A., 1978;
- Sierra Blanca Limestone
Johnson, C.J., 1968; Schroeter, C.E., 1972a.
- Simmler Formation
Blake, T.F., 1981; Blake, T.F., 1982.
- Sisquoc Formation
Arnold, R. and Anderson, R., 1907a; Barron, J.A. and Bauldauf, J.G., 1986; Beyer, L.A., 1983; Dolman, S.G., 1944; Eldridge, G.H., 1903; Gore, F.D., 1923; Henderson, N.C., 1983; Henderson, N.C. Jr., Crawford, G.A., Durham, J.B., and Osborne, R.H., 1984; Isaacs, C.M. and Magoon, L.B., 1984; Porter, W.W. II, 1932; Ramirez, P., 1987. Woodring, W.P. and Bramlette, M.N., 1950.
- Tejon Formation
Bagg, R.M., 1905.
- Temblor Formation
Addicott, W.O., 1973; Cushman, J.A. and Barbat, W.F., 1932; Wiedey, L.W., 1928a; Wiedy, L.W., 1928b.
- Toad Springs Breccia
Barker, J.M., 1972.
- Toro Formation
Repecka, A.L., 1940.
- Tranquillon Volcanics
Robyn, E.S., 1979; Robyn, E.S., 1980.
- Vaqueros Formation
Arnold, R. and Anderson, R., 1907; Baca, B.R., 1981; Bartow, J.A., 1974; Childs, T.S. Jr., 1941; Edwards, L.N., 1971; Glover, J.J.E., and Goudy, C.L., 1937; Grender, G.C., 1960; Hobson, R.D., 1966; Loel, W.F., 1917; Loel, W. and Corey, W.H., 1932; Orwig, E.R., 1957; Patet, A., 1972a; Patet, A., 1972b; Reid, S.A., 1979; Schenck, H.G., 1935; Schenck, H.G. and Childs, T.S. Jr., 1942; Thorup, R.R., 1943; Wiedey, L.W., 1928.
- Vasquez Formation
Terres, R.R., Luyendyk, B.P., and Marshall, M., 1981;
- Wagonwheel Formation
Smith, H.P., 1956.
- Biostratigraphy
Addicot, W.O., Poore, R.Z., Barron, J.A., Gower, H.O., and McDougall, K., 1978; Bandy, O.L., 1972; Barron, J.A., 1975; Barron, J.A., 1976; Barron, J.A., 1986b; Berggren, W.A. and Van Couvering, J.A., 1974; Berman, B.H., 1979; Berry, D.R., 1970; Billman, H.G. and Hopkins, A.A. Jr., 1980; Blake, G.H., ed., 1980; Demere, T.A., 1978; Dumont, M.P., 1984; Gibson, J.M., 1973a; Givens, C.R., 1974; Givens, C.R., 1969; Graham, S.A., 1980; Hornafius, J.S. and Lagle,

C.W., 1984; Huang, C., 1980; Key, C.E., 1955; Kidson, E.J., 1965; Kleinpell, R.M., 1980; Kleinpell, R.M., 1938; Kleinpell, R.M. and Weaver, D.W., 1963; Lagoe, M.B., 1987a; Lissner, A., 1986; Malan, R. and Mallory, V.S., 1959; McDougall, D.A., 1979; Pessagno, E.A. Jr., 1977; Smith, M., 1974; Vaughan, J.L., 1976; Warren, A.D. and Newell, J.H., 1980; Weaver, D.W. and Molander, G.E., 1964; Wissler, S.G. and Dreyer, F.E., 1943; Woodring, W.P. and Bramlette, M.N., 1950; Woodring, W.P., Bramlette, M.N., and Lohman, K.E., 1943.

Lithostratigraphy

Isaacs, C.M., 1981c; Isaacs, C.M., 1984d; Keller, M.A., 1982.

Magnetostratigraphy

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