

PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

January, 1969

Number 1

ASSOCIATION ACTIVITIES

CHRISTMAS DANCE - 1968

The annual Christmas Dance held on December 6, appears to have been an outstanding success! 79 couples enjoyed a pleasant evening of eating, dancing, and etc.

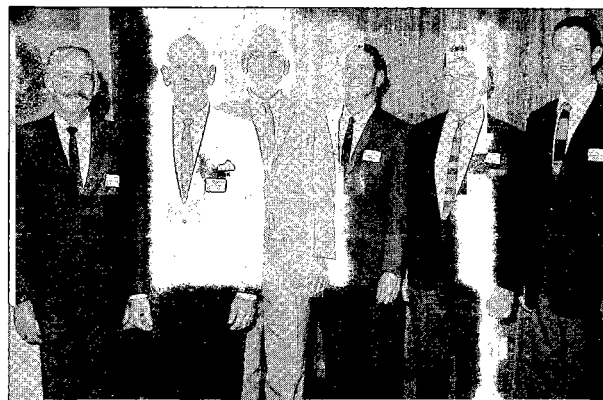
Many thanks to Bill Hunter and his crew - Bruce Barron, reservations and ticket sales, and Dennis Allen, publicity.

The "Tranquility Hour" and door prizes were sponsored by the following firms whose generous contributions are greatly appreciated.

A & A Oil Tool Service Co.
Baroid Division, National Lead Co.
Bendix-United Geophysical Corp.
Borst & Giddens, Logging Service
Boswell Perforating Co.
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Schlumberger Well Services
R. F. Smith Corp.
Tryad Service Corp.
United Directional Services, Inc.
Wellex, Inc.
Western Geophysical Co.

ALUMNI LUNCHEON

Manuel Castro, Alumni Chairman for the 1969 Pacific Section Convention, would like to hear from those wishing to set up Alumni Luncheons at that time. Anyone wishing to do so should contact him prior to Jan. 20, 1969. His address is 1508 Wilshire Blvd. Suite 201, Los Angeles, Calif. 90017. Phone: 438-2909.



CALIFORNIA SECTION AIPG
ELECTS OFFICERS

Newly elected officers of the AIPG (California Section) are from left to right:
Bennie W. Troxel - Secretary Treasurer
Jay G. Marks - President
John C. Manning - 1st Vice President
Stanford Eschner - Executive Committeeman
William B. Beatty - Executive Committeeman
Willard J. Classen Jr. - Exec. Committeeman

SEPM ELECTIONS

Lloyd C. Pray, Professor of Geology at the University of Wisconsin, has been elected President of the Society of Economic Paleontologists and Mineralogists. Other officers elected are:

Vice-President - Orville L. Bandy, USC
Counselor for Paleontology - Donald F. Toomey, Pan American Research Lab.
Counselor for Mineralogy - Robert J. Dunham, Shell Development Co.
Editors of the Journal of Paleontology - Raymond L. Ethington
Raymond E. Peck, both from the Univ. of Mo.
Secretary-Treasurer - Robert H. Dott, Jr. (Incumbent) Univ. of Wisconsin.

The above officers, together with Past-President Robert N. Ginsburg of The John Hopkins University and Gerald M. Friedman, Rensselaer Polytechnic Institute, Editor of the Journal of Sedimentary Petrology, will comprise the nine member council of the Society.

**EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS**

Louis J. Simon	President
Rodney G. Colvin	Vice President
John N. Terpening	Secretary
Willis R. Brown	Treasurer
Ted L. Bear	Past President
Bruce A. Black	Editor
Morton Polugar	San Joaquin Delegate
Frederic R. Kelly	N. Calif. Delegate
D. E. Ritzius	Coastal Delegate
J. D. Traxler	Los Angeles Delegate
Bruce D. Brooks	Sacramento Delegate
John P. Gates	Alaska Delegate

ASSOCIATED SOCIETIES
Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST

Published monthly by the Pacific Section
American Association of Petroleum Geologists

Change of Address, subscription and membership inquiries should be addressed to:
Membership Secretary, Pacific Section AAPG,
P. O. Box 17486, Foy Station, Los Angeles,
California 90017

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William J. Hughs, Texaco Inc., 1215 East
San Antonio Drive, Long Beach, Calif. 90807

Orders for Pacific Section publications and prior years' issues of the PPG should be addressed to: Pacific Section Publications,
3132 18th Street, Bakersfield, Calif. 93306

EDITOR	William J. Hughs
Assistant Editors	Neil P. Carroll Peter J. Fischer
Selected Bibliography	Lucy Birdsall

CORRESPONDENTS

Alaska	Stuart A. Keesling
Coast	
Los Angeles	
Northwest	
Sacramento	Bruce D. Brooks
San Francisco	Rod Nahama
San Joaquin	
Membership Secretary	Barbara Tetard

NOTICE: NEXT DEADLINE JANUARY 15, 1969

L.A. BASIN GEOLOGICAL SOCIETY

The L. A. Basin Geological Society 27 November meeting was highlighted by the election of new officers. Mr. Tom W. Redin, Union, was selected 1969 chairman and Mr. William G. Calkins, Standard, was selected 1969 financial advisor. Some 62 local geologists enjoyed a barbecue steak and red wine feast followed by a talk on "The Geology and Petroleum Possibilities of the San Gabriel Basin" by Howard Stark, consultant. Of particular interest were the Pliocene paleogeologic maps shown and the tectonic history with respect to source beds and reservoir rocks. The MCSMAPS combine put on the barbeque (McCulloch-Sum-Marathon-American-Petrofina-Pauley-Signal).

EXECUTIVE COMMITTEE MEETING

December 10, 1968

Highlights of the meeting follow:

Treasurer's Report--The books of the Section are under routine scrutiny by the Internal Revenue Service. No problems are anticipated.

Mr. Black expressed concern of the members in Sacramento over large expenditures by the ExCom. It was agreed that this authority is vested in the ExCom, and the local sections each have proper representation.

Vice President's Report--A four-man board has been appointed to review papers to be included in Don Weaver's Santa Barbara publication:

A. D. Warren - Mobile	(SEPM)
R. Pierce - USGS	"
R. Kraetsch - Standard	(AAPG)
J. Schoellheimer - USGS	"

President's Report--State of Constitution. Tom Baldwin, the local constitutional representative disagrees severely with the draft of the new constitution. The draft will be published in the February issue of the AAPG.

A special luncheon of all the district representatives will be held with Dr. Counselman, Nat. Pres. AAPG, during the Spring Convention at the International Hotel. At that time he will give his version of the constitution and either Bill Moran or Tom Baldwin will present theirs.

Pacific Section 1970 Convention. March 25 - 27 (approximate date). R. Knapp, site chairman, recommends either the International Hotel, Disneyland, or The Newporter Inn. It was unanimously agreed that the Newporter Inn is the place.

SPRING PICNIC

Mark Weidler, Shell Oil Co., has been appointed Chairman of the 1969 Spring Picnic.

SPRING FIELD TRIP

Bob Hacker, Chairman of the Spring Field Trip announces the following schedule:

Saturday, March 29, assemble at International Hotel at 7:30 AM to board charter buses for Ventura via Santa Monica Mountains, Conejo Valley and Oxnard Plains.

Field discussion at Ventura Avenue Oil Field covering structure and stratigraphy, and world-famous landslide control sites. This will be followed by field examination of the axial outcrop of the San Miguelito Oil Field. The trip will then continue north along the coast to Carpinteria for a beach discussion of Santa Barbara Channel offshore developments and conclude with a barbeque.

The return trip will be via the coast route Point Mugu-Malibu to International Hotel.

The cost, including guide book and barbeque, will be \$5.00 to \$7.00, and attendance will be limited to 135.

Tour guides will be: L. C. McFarland, Ed Hall, Hank Neal, Dick Haines, Bud Ogle, Ron Heck, John Truex and Bob Hacker.

AAPG EXPANDS STUDENT PROGRAM

A program of employment for geology students, successfully piloted in Oklahoma last summer by the American Association of Petroleum Geologists, is being expanded nationwide, President Frank B. Conselman announced.

During the pilot program, supported by AAPG member Gov. Dewey Bartlett of Oklahoma, 27 students from 19 out-of-state universities were employed by 14 oil companies.

Next summer, 150 universities and 300 oil companies will be invited to participate, AAPG officials said.

Dr. James L. Martin, Jr., Chief Geologist for Sinclair Oil Co.'s domestic division, heads the AAPG's student program committee. AAPG headquarters in Tulsa will serve as a clearing house to match oil company requirements with student requests.

GEOLOGICAL ATTRITION

AIPG is conducting a study of attrition among geologists, -the cause for geologists' leaving the ranks of the profession. Whom do you know that is no longer practicing geology? Those who leave with "early retirement" as well as for the more usual causes should be included. Questionnaires will later be sent the AIPG to the people you list: all we need now is the names and addresses of those who have left the profession. Send your list.

Mr. Frederick L. Stead, Chairman
AIPG (Calsection) Professional
Employment Standards Committee
22706 Pacific Coast Highway
Malibu, California 90265

WHERE YOUR MONEY GOES

For the benefit of those members who occasionally wonder where their money goes, particularly the Pacific Section dues of \$3.50 per year, we submit the following:

Approximate monthly cost of printing and mailing the PPG Newsletter \$300.00.
Eleven issues per year \$3300.00

Number of paid up members 950 +
Annual dues \$3.50 x 950 = \$3325.00

The newsletter is presently being mailed 3rd class rather than under bulk rate. This about doubles the mailing cost but cuts the distribution time from as much as 3 weeks down to a week or less.

Funds for other Pacific Section and local society expenses such as announcement cards, distinguished lecture expenses, postage, etc. must be raised by other means - conventions, picnics, monthly dinner meetings or what have you.

DISTINGUISHED LECTURE SERIES

Lewis G. Weeks, geological consultant, will present his distinguished lecture before the Los Angeles Basin Geological Society on Jan. 17, 1969 at the luncheon meeting at the Rodger Young Auditorium. Mr. Weeks will speak on Oil Exploration in Australia, With Case History Lessons.

Mr. Weeks has had a long and varied career from the time of his graduation from the University of Wisconsin in 1917 as a geologist. Starting out as a mining engineer in Mexico and the southwest United States, he eventually became Chief Geologist for the Standard Oil Company of New Jersey. Since 1958, he has been a geological consultant working on both industry and governmental assignments on a world wide basis.

PERSONAL ITEMS

We understand Bob Hacker, Spring Field Trip Chairman, hurrying to a meeting with his tour guides, ran out of gas on the freeway. Hopefully, he will not extend his organizing to his charter buses but will "leave the driving to us".

Dave Day has joined Arrowhead Exploration Co. as their California representative. His office is at 1731 - 28th Street, Bakersfield.

Wes Bruer will start on his new job the first of the year. He will become the Special Consultant to the State of Calif. Department of Conservation in Sacramento. He will be working out of the Resources Bldg., 1416 - 9th Street, Sacramento 95814.

Joe Ernst, late of Texaco, New Orleans, has returned to the west coast and is now associated with Pacific Oil and Gas Development Corporation as Vice President, and Exploration Manager. Joe will be headquartered in San Francisco and living in Danville.

Other Texaco personnel changes include Bill Bedford to Los Angeles as Assistant Division Geologist, Glen Ware to Bakersfield as District Geologist and John West to the Anchorage District in Long Beach as Special Projects Geologist.

Arthur S. Huey, Consulting Geologist, was recently elected President and a Director of Oil Securities and Metals Corp., a Utah corporation, with holdings in the Rockies and some in California. Head offices have been moved from Salt Lake City to Suite 531, Mobil Bldg., 612 South Flower St., Los Angeles, Calif. 90017 - Phone 626-6546.

Bob Saunders, District Expl. Supt. for Union in Bakersfield, has been transferred to Anchorage, Alaska to head up their newly formed Northern Alaska District. Jack Padgett, also of Bakersfield, will accompany Bob northward.

GEOLOGISTS NEED A PROFESSIONAL ORGANIZATION

Geology as a profession is not all that it could be. Some attempts are being made to improve it; but such efforts are initiated and sustained by a remarkably small percentage of the practicing geologists. Recently the geological profession in California was successful in getting a bill (the Geologist Act) passed that will at last give its qualified practitioners legal recognition. As of this date (December 17, 1968) the Act has not been put into effect because of problems raised by the department under which the proposed Board of Geologists will eventually function. A handful of geologists, members of the one small professional geological organization that does exist, are attempting with apparent success but considerable sacrifice of their time to get the Act carried into effect. Help has been offered by a firm of legislative advocates, who include in their services a watchdog surveillance of all legislation that might adversely affect the practice of geology whether it is connected with the Geologist Act or not. But alas! -the one small professional geological organization has not the finances to retain expert help of this kind. Nor will the relatively large scientific societies lend assistance, for they are forbidden to lobby. Only a professional group with a special tax status can afford to lobby for its own interest, and only a strong one can be consistently effective.

The American Institute of Professional Geologists is logically the guardian of the ethics of its members. It must be, because its principal objective is to enhance the profession, -to obtain quality. In the same vein, it seeks quality in the fees its practitioners receive, not by the device of collective bargaining, but by educating both its members and their employers to recognize that fair pay is of mutual benefit. Its approach is different from that of the Council of En-

gineering and Scientific Organizations, a recently formed group, whose avowed purpose is collective bargaining. Our professional organization studies the relations between disciplines and with government agencies in order to eliminate conflict and duplication. And it works with educators at all levels to improve the quality of education in geology. The desire for quality is presumably an attribute of every member of a profession, but only a professional organization is set up systematically to seek and cultivate quality in all its aspects.

Individual geologists and scientific societies tend to specialize, thereby losing the broad perspective of their profession. The petroleum geologist has little rapport with the urban geologist. But the demand for petroleum geologists is shrinking, and a new field, that of environmental geology, is developing. Environmental geology includes the work of the urban geologist, the petroleum geologist, the ground-water specialist, and a host of other disciplines. Here is a field, as yet vaguely defined, of tremendous potential, into which the highly developed talents of all kinds of geologists could logically expand. An organization that represents the entire profession of geology is the suitable vehicle for developing this new field.

The one small organization that is attempting all of these things, and many more, is the American Institute of Professional Geologists. Although small in numbers (about 1800), with many overworked committee members, it has already set about improving the scene nationally. Its California Section, consisting of approximately 260 members, has shown an ability to work together and accomplish desired ends. But neither the national nor the California group has the numbers or the finances to do the things that will ensure a full development of geology as a profession. If you are a qualified geologist, should you not lend your support, and from time to time, your talents, to the organization that can and will improve your profession, your lot and your future?

For further information about AIPG write to the headquarters office, P. O. Box 836, Golden, Colorado 80401. Members who reside in California are automatically members of the California Section.

Jay G. Marks
President, California Section,
American Institute of Professional
Geologists

DEADLINE
FOR FEB. ISSUE
Jan. 15
'69

BIBLIOGRAPHY OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

MAPS:

GQ 746: Geologic map of the Mine Mountain quad.
Nye County, Nev., by P. P. Orkild \$1.00

GQ 758: Geologic map of the Riepetown quad.
White Pine County, Nev., by A. L. Brokaw &
P. J. Barosh. \$1.00

GQ 761: Geologic map of the Ackerman Canyon quad
Lander & Eureka Counties, Nev., by E. H. Mc
Kee, \$1.00

HA 298: Average annual precipitation and runoff
in north coastal California, by S. E. Rantz.
\$.75

I-550: Surficial geologic map of Yucca Flat, Nye
& Lincoln Counties, Nev., by A. T. Fernald,
G. S. Corchary, & W. P. Williams. \$1.00

Geophysical Abstracts 262, November 1968 45¢

Abstracts of North American Geology, October, 1968
45¢

Circular 566: Tertiary gold-bearing channel gravel
in northern Nevada County, Calif., by D. W.
Peterson, W. E. Yeend, H. W. Oliver and R. E.
Mattick. (reprinted) Free.

Circular 596: Preliminary result of geological,
geochemical and geophysical studies in part of
the Virginia City quadrangle, Nevada, by D. H.
Whitebread and D. B. Hoover. Free.

AMERICAN JOURNAL OF SCIENCE, vol. 266, no. 10, 1968

Oxygen isotope study of calcite and silicates of
the River Ranch no. 1 well, Salton Sea geother-
mal field, California, by R. N. Clayton, L. J.P.
Muffler and D. E. White

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 79, no. 12, December 1968

Southern California structure, sea-floor spreading
and history of the Pacific Basin, by Robert S.
Yeats.

Tertiary tectonics of the White Pine--Grant Range
region, East-Central Nevada, and some regional
implications, by E. M. Moores, R. B. Scott and
W. W. Lumsden

Regional metamorphism, metasomatism and partial
fusion in the northwestern part of the Okanogan
Range, Washington, by James W. Hawkins, Jr.

The role of displacements in analytical structural
geology, by J. H. Howard.

Seismic evidence for the thickness of Cenozoic de-
posits in Mono Basin, California, by L. C. Paki-
ser.

Aquilapollenites: Fossil pollen as seen under the
scanning electron microscope, by Charles M.
Drew and Bernadine D. Tschudy.

CALENDAR

January 6, 1969 - Stratigraphic Seminar 7:30 P.M.
Bakersfield College, Rm. 56, Science
and Engineering Bldg. "Deep Sea
Drilling Project - JOIDES", Dr. W. R.
Riedel, Scripps Institute of
Oceanography.

January 15, 1969 - Coast Geological Society, Dinner
Meeting, Jet Room, 1994 Thompson Blvd.,
Ventura 7:00 P.M. "Structure of the
San Gabriel Valley" - Howard Stark.

January 16, 1969 - San Joaquin Geological Society
Royal Palms Motel, Union Avenue,
Cocktails 6:00 P.M., Dinner 7:00 P.M.
\$4.00.
AAPG Distinguished Lecture Tour
Lewis G. Weeks - "Oil Exploration in
Australia, with Case History Lessons".

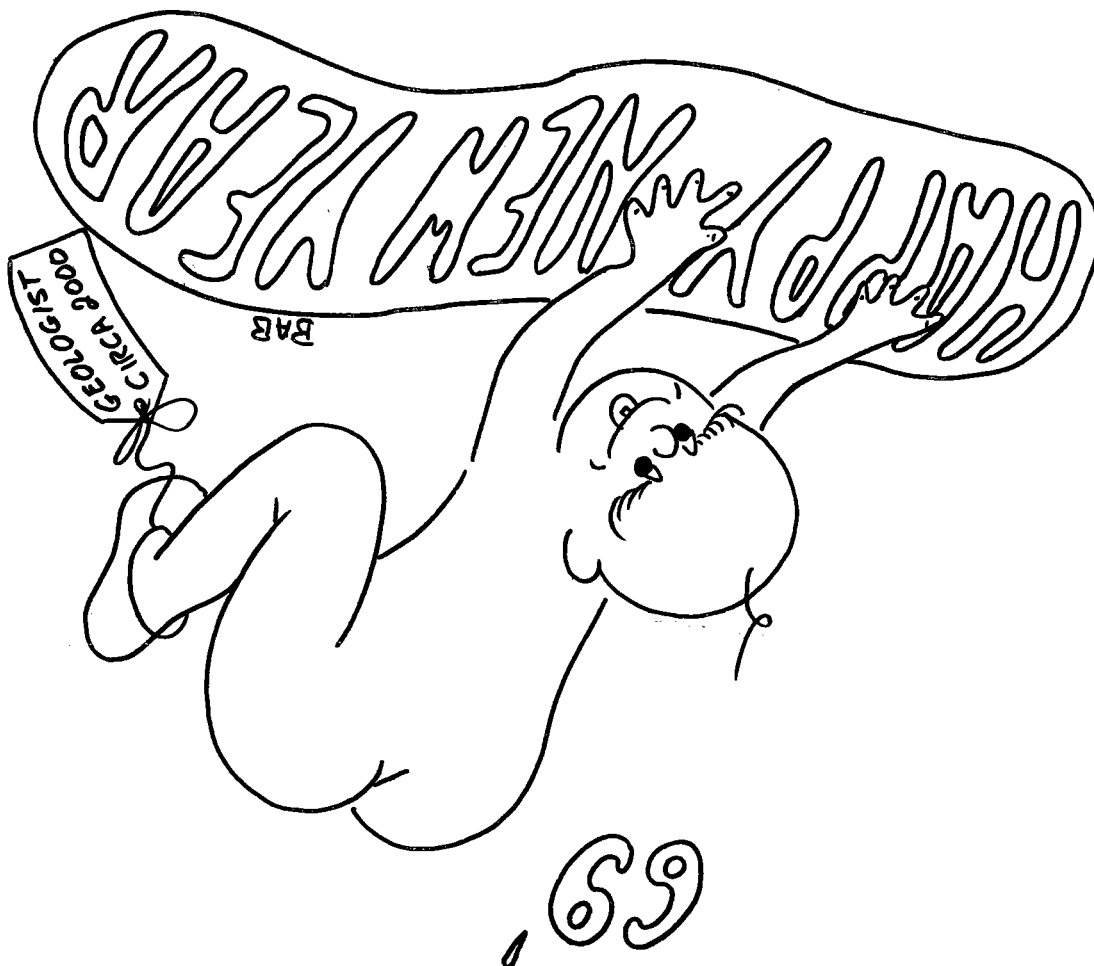
January 17, 1969 - Los Angeles Geological Society
Friday Luncheon Meeting, Roger Young
Auditorium, Washington Blvd., 12:00 Noon,
\$3.00
AAPG Distinguished Lecture Tour
Lewis G. Weeks - "Oil Exploration in
Australia, with Case History Lessons".

January 21, 1969 - Sacramento Petroleum Association &
Geological Society of Sacramento
AAPG Distinguished Lecture Tour
L. G. Weeks - "Oil Exploration in
Australia, with Case History Lessons"
Water Resources Bldg., 9th & "O" St.,
Sacramento, 8:00 P.M.

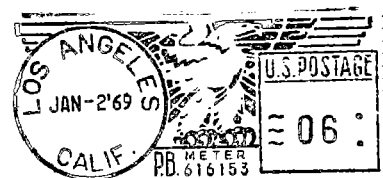
February 3, 1969 - Stratigraphic Seminar, 7:30 P.M.
Bakersfield College, Rm. 56, Science
and Engineering Bldg. "Computer
Simulation in Sedimentology and
Paleocology", Dr. John W. Harbaugh,
Stanford University.

February 20, 1969 - Los Angeles Geological Society
Luncheon Meeting, Roger Young Auditorium,
Washington Blvd., 12:00 Noon, \$3.00
"Modern Concepts of Sea Floor Spreading
and Continental Drift" - Mr. Hunter
Yarborough, Humble Oil & Refining Company.

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PERSONAL ITEMS NOT RECEIVED



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PACIFIC SECTION, A.A.P.G.
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LOS ANGELES, CAL 90067

PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

February, 1969

Number 2

ASSOCIATION ACTIVITIES

PROPOSED NEW AAPG CONSTITUTION

The January issue of the AAPG reported that Dr. Frank B. Conselman, AAPG National President, would meet with the District Representatives during the Pacific Section Convention to discuss the proposed changes to the constitution.

In order to permit the largest possible attendance, at the discussion, Dr. Conselman has consented to explain the views of National Headquarters during the regular business meeting. This business meeting will be held on Friday afternoon, March 28, during the convention at the International Hotel. It should be pointed out that this is in no way a debate, but it will permit the dissenting members of the Pacific Section to express their views. A number of our District Representatives have also expressed concern over some of the proposed changes.

In the meantime, it behooves the membership at large to read the proposed new constitution which is scheduled to be printed in the February issue of the AAPG Bulletin.

L. J. Simon
President,
AAPG Pacific Section

Below is an open letter to the Pacific Section District Representatives from Thomas A. Baldwin:

December 10, 1968

DISTRICT REPRESENTATIVES

Gentlemen:

RE: Proposed AAPG Constitution

Each of you has received from President Conselman a copy of a proposed new national constitution and a letter stating that this proposal will be presented to the Business Committee for approval during the national convention at Dallas, April 14-16, 1969. It is further indicated that amendments to the document will not be permitted from the floor.

After careful study should you feel that this document is perfect you will wish to vote its passage; if, however, you conclude that some portions are unsatisfactory I urge that you communicate with Pres. Conselman immediately and suggest changes.

I suggest that some of you may find objectionable the lack of any specified process for changing the dues particularly since the proposed constitution (Article V) provides that "Any responsibility...not otherwise specified...shall be reserved to the Executive Committee."

I hope a large proportion of our DR's will attend the Dallas convention because the Business Committee will be faced with a dilemma new in AAPG history - to vote for or against a new constitution as a "Package" with no possibility of effecting changes during our meeting. If, at Dallas, you feel that substantial faults remain in the proposal you will presumably wish to vote against it. If you conclude that the document, on balance, is good with only minor flaws then you will wish to consider whether such flaws could be corrected by later amendment (as Pres. Conselman suggests) or whether in fact later amendments would be difficult, perhaps impossible once the proposal has been accepted. In this light the all important phrases are those relative to the method of amendment of the new constitution and by laws. I summarize my own interpretation.

Amending the Constitution

1. The Executive Committee shall determine the "Legality of all proposals to amend the constitution before our delegates can discuss them (Art. VIII Sec. 3).

2. No means is provided for our delegates to propose a constitutional amendment themselves.

3. The general membership can propose a constitutional amendment by petition of 50 members (in past only 10 were required) (Art. VIII Sec. 2 (c)).

4. All amendments must be considered during the annual meeting only (only one effective meeting each year). (Art. VIII Sec. 2 (c)).

5. A 2/3 vote of our membership is required to approve an amendment (in the past, a simple majority).

**EXECUTIVE COMMITTEE, PACIFIC SECTION
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Los Angeles	Dennis R. Wiley
Northwest	
Sacramento	
San Francisco	Charles M. Cross
San Joaquin	Rod Nahama
Membership Secretary	Barbara Tetard

NEXT DEADLINE FEBRUARY 15, 1969

6. Before the delegates can transact any business a 50% quorum of elected delegates must be established (no proxies permitted).

Amending the By-Laws

1. Since no means of proposing an amendment is provided this responsibility would be "...reserved to the Executive Committee.")

2. Our elected delegates could not propose an amendment (since no discussion of amendments could occur until after the Executive Committee determined legality and approved publication in the Bulletin two months prior to the annual meeting).

3. Quorum - a majority of all elected delegates, no proxies permitted.

In my opinion these factors would mean that our elected delegates could not propose, discuss or pass amendments to the constitution or the By-Laws except at the will of the Executive Committee.

For these reasons (and many other more lengthy ones) I shall forcefully oppose passage of the new constitution and By-Laws. I hope to see the proposals soundly defeated.

Very truly yours,

T. A. Baldwin

**A.A.P.G. Study of
Subsurface Waste Disposal**

A decade-long study by members of the American Association of Petroleum Geologists has resulted in an authoritative book on subsurface waste disposal possibilities in five major structural basins in the United States.

Eighteen geologists worked on the project, requested in 1958 by the Atomic Energy Commission. The book, published by A.A.P.G. Headquarters, Box 979, Tulsa, Oklahoma, is titled, "Subsurface Disposal in Geologic Basins -- A Study of the Reservoir Strata."

John E. Galley, a geological consultant, of Kerrville, Texas, edited the book. Nine detailed papers on the subject are included in the book.

Dr. Frank B. Conselman, Abilene, Texas, President of A.A.P.G., said that the book demonstrates an awareness of social responsibility on the part of the members of the Association, and indicates the extent to which petroleum geologists have broadened their field of practice. "As a matter of fact," Dr. Conselman said, "the study itself demonstrates the constant need for geologists to be called on for studies of the sort which require reference to the subsurface for information bearing on public safety and the national economy."

Galley also noted that although the study was undertaken specifically to study potential for disposing of radioactive waste, the book emphasizes disposal of industrial wastes in general because "The techniques proposed for disposal of radioactive waste are generally applicable to many other industrial wastes."

The book includes a general discussion of the problem of deep well injection of wastes, a study of the importance of locating nuclear fuel reprocessing plants near deep formations suitable for subsurface disposal, a discussion of the fluid mechanics of deep disposal wells, and papers on the detailed subsurface geology and waste disposal prospects in the New York portion of the Appalachian Basin, a syncline in Pennsylvania, the Michigan Basin, Salina Basin of Kansas, Denver Basin of Colorado, and the San Juan Basin of New Mexico and Colorado.

C.G.S. Christmas Dance

Another fine evening of champagne, dining and dancing was enjoyed by the 101 guests who attended the annual Coast Geological Society Christmas dinner dance held at the Ventura Women's Center on December 14. LeRoy Andrews band provided the music. Gordon Anderson, Chairman, announces that many thanks are due to the following contributors:

Anderson and Nicholeris
Baroid Well Logging Services
Brost and Giddens
Caldrill, Inc.
Core Lab
Dresser Atlas
Exploration Logging
Geologic Engineering Service
Global Marine, Inc.
Goudkoff and Hughes (A. Hughes)
Johnston Testers
Munger Oil Information Service
Pacific-Oilwell Logging, Inc.
Petrolog
Scope Industries (Sun-Camay Drilling)
Schlumberger Well Services

Hope we see all again next year!

TENNECO MOVES

On December 16, 1968 Tenneco Oil Company and Kern County Land Company Oil Division will move to their new offices at 201 New Stine Road, Bakersfield, California. This move affects the following Bakersfield offices:

Pacific Coast Division 2601 F Street Post Office Box 380 Telephone 323-2985	District Thermal 18th at Oak Sts. P. O. Box 1996 Tel. 323-6037
District Production 3845 Stockdale Hwy. Post Office Box 380 Telephone 327-5544	Dist. Exploration 345 Chester Ave. P. O. Box 380 Tel. 325-5907

The new mailing address for Tenneco Oil Company and Kern County Land Company Oil Division will be Post Office Box 1996, Bakersfield, California 93303; the telephone number will be 832-9010. Please change your records accordingly.

LOS ANGELES BASIN GEOLOGICAL SOCIETY

Same 180 geologists attended the January 17 luncheon meeting of the Los Angeles Basin Geological Society to hear Lewis G. Weeks, geological consultant, speak on "Oil Exploration in Australia, With Case History Lessons".

Local geologists are to be commended for turning out in such numbers. It should be pointed out, however, that the decision to attend these meetings should be made far enough in advance to return the reservation card. When 129 reservations are received and 180 people attend, even the experienced Roger Young kitchen staff can become unglued. Unfortunately, the breakdown in service affects everyone, with or without reservations. PLAN AHEAD!

ABSTRACT

A somewhat unusual manner of handling the exploration of a 64,000 sq. mile offshore area in Bass Strait, Australia has resulted to date in seven major and two minor discoveries out of 16 "new field" wildcats. In addition, numerous stepout wells, all successful, have been drilled. All of these wells were dug offshore from a coast along which 140 dry holes had been drilled in unsuccessful exploration for oil over the past 44 years.

Reasons are explained why in spite of the discouragement onshore this particular offshore acreage was selected, and why a special manner of handling the exploration was followed.

The results of the exploration illustrate facts of oil occurrence which apply generally in young coastal basins, as is demonstrated repeatedly by the rapidly growing offshore exploration worldwide. Geological analysis, supported by various fundamental measurements, make it clear that the best part of most of the world's Cretaceous-Tertiary coastal basins lies offshore. Reasons for this are discussed.

Australia has approximately the same area as the 48 coterminous states of the United States, and it has similarly extensive sedimentary basins. Significant comparisons are made as between the largely Paleozoic basins on the land and the younger basins along the coasts.

In the search for oil on the Australian continent, some 2,000 wells have been drilled, and several tens of thousands of bores have been sunk for water in the sedimentary basins over the past 80 years. This effort was without commercial petroleum discovery prior to 1962. From 1962 on, several discoveries of oil and gas have been made on the land. The first offshore discovery was made in Bass Strait in 1965 in the first well drilled off the Australian continent.

Current Australian proved petroleum reserves are of the order of 2.5 billion barrels of crude and natural gas liquids, and 11 trillion cubic feet of gas. About 92% of the oil and 64% of the gas has been found in the Bass Strait offshore.

PRESERVATION OF SAMPLES AND CORES

An ambitious program to preserve well samples and cores has been undertaken by the A.A.P.G. Mr. John F. Harris, of Tulsa, Oklahoma, is the National Chairman for the program and A. Theodore (Ted) Lee, of Texaco Inc., has been appointed Pacific Section representative. Besides attempting to establish State operated sample and core depositories and libraries in all oil producing States, the program will attempt to establish a centrally located national depository and library for foreign samples and cores which could be made available to the Petroleum Industry and to all geologists.

Since California does not have a central core and sample storage facility, Ted states that his job appears to consist of being a watchdog to prevent mass destruction of California cores and samples. He would appreciate geologists continuing to take a personal interest in the preservation of cores and samples. If a company has an idle shed on an isolated lease and they would allow it to be used for an indefinite period of time as a standby, or when the need arises to store unwanted cores and samples, Ted would appreciate being notified. He realizes that this is a strange request, but based on experience of two previous occasions, we should be prepared to save a core and sample collection, because in the past little time has been allowed to find outside storage sheds.

Hopefully in the future, through a mutual arrangement between the Petroleum Industry and the California Division of Mines and Geology, a State operated sample and core depository and library could be established.

Anyone having an interest in the program for the Preservation of cores and samples should contact Ted Lee at Texaco.

DR. ELIOT BLACKWELDER

Dr. Eliot Blackwelder, Executive Head of the Department of Geology at Stanford University from 1922-1945 died January 14, 1969, at the age of 88. Although best known for his academic and scientific endeavors, Dr. Blackwelder served on the California Petroleum Committee in 1917, and was Chief Geologist of Argus Oil Company in Denver from 1919 to 1921.

Contributions to a book fund in Dr. Blackwelder's name at Stanford may be sent to Dr. Richard H. Jahns, current Dean of Earth Sciences at Stanford University.

SPRING FIELD TRIP

Bob Hacker, Chairman of the Spring Field Trip, wishes to update his item appearing in the January issue. The cost, including guidebook, and what he persists in calling FREE beer and barbeque, will be somewhere around \$12.00. Reproduction costs of additional maps and data necessitate this rise in price.

LEGISLATIVE BULLETIN: Board of Geologists (AB600)

The outcome of recent meetings held in Sacramento should remove all obstacles leading to the creation of the Board of Geologists.

A meeting was held between this reporter and officials of the Department of Professional and Vocational Standards (P & V) on December 10, 1968, to discuss the changes (amendments) which P & V felt were necessary to insure a totally legal and functional law.

Mr. Donald Livingston, the P & V official who has been assigned the task of guiding the establishment of the "agency", met with Assemblyman Ketchum, the author of AB 600, the following day to discuss the requested changes.

As a result of the above meetings, no changes will be made in AB 600. If, in the future, changes are deemed desirable or necessary, the Board will initiate this action.

A second important meeting was held on December 16. Those attending included a Deputy Attorney General, two attorneys from P & V and Bob Paschall, Will Peak (Sacramento Engineering Geologist) and this reporter. The Attorney General's office had been requested by P & V and the Governor's office (Appointments Secretary) to render an opinion relative to the legality of implementing AB 600. The purpose of this meeting was to clarify the intent of AB 600 specifically in the area of actual practice.

In short, the law requires that all those practicing, or offering to practice, geology for others, or who write geological reports or compile geological maps, cross sections, etc., for other must be registered. Exemptions include employees of the U.S. Government, those geologists employed by companies or corporations (as long as at least one geologist is registered), and a geologist working as a subordinate to a Registered Geologist.

As a result of this meeting, all necessary procedures will be expedited in order to permit the creation of the Board at the earliest possible date. The Attorney General's office intends to abbreviate its usual opinion writing formalities as much as possible to help reduce the time lag.

The Department of P & V is presently studying the Board's needs relative to office facilities, clerical help, budget requirements, etc. The Department is compiling a mailing list of all geologists in the state. To date, there has been significant interest shown by out-of-state geologists.

At this point, it is impossible to know just when the Board will be formally appointed by the Governor. Once the Board is activated, it is obvious that considerable time will be required to draw up the forms and literature necessary

for registration. Realistically, it would seem that the Board will not be prepared to commence the process of registration prior to this spring.

January 20, 1969

January 11, 1969

LEGISLATIVE BULLETIN

The undersigned met with Messrs. Bernier and Shirley on January 9. These gentlemen are anxious to have the geologic profession in California utilize their services as lobbyists.

Bernier and Shirley are offering geologists a limited, but effective, lobbying service. The profession should consider this proposal very seriously. This "Minimum Service" is being offered for "\$1,000 to \$2,000" a year. Additional fees would be charged for specific and active lobbying. The fee for their comprehensive lobbying service is \$15,000 a year.

Bernier and Shirley cautioned me (and the profession) about current developments within the Department of Professional and Vocational Standards (P & V). Henry Shine, the director, is planning to effect sweeping changes in P & V by means of new legislation. The gross intent of the contemplated legislation is the lessening of autonomy for the various boards in P & V. Our profession would be kept abreast of such developments via the proposed "Minimum Service".

MINIMUM SERVICE

Offered by Bernier and Shirley

1. Read and analyze all bills introduced during the 1969 session.
2. Screen those bills which in any way affect your profession.
3. Send copies of pertinent bills with analysis of same to the appropriate committee members of your association.
4. Identify pertinent bills as to likelihood of passage and interest group or agency sponsoring the particular legislation.
5. Our recommendations on what action, if any, your association should take regarding these bills.
6. Some limited contact with legislators identifying our firm as the legislative representatives for your organization.
7. Some minimal lobbying on those bills which would not require extensive time on our part.

(We emphasize that in those cases involving bills which your association should decide during the session are of crucial importance, and desire active lobbying and contact, additional negotiations would be necessary.)

LEGISLATIVE BULLETIN

The Board Of Geologists in California has not yet been appointed.

The apparently favorable legal opinion on AB 600 written by an attorney in the Attorney Generals office was still under study by other members of the staff on Friday, January 17th. The appointments will not be made until a formal favorable opinion is issued by the Attorney General's office.

The appointments will not be announced after they are made, until they are given security clearance, a procedure that usually requires about three weeks.

Respectfully submitted:

Roland J. Bain
Certified Professional Geol.
Legislative Representative

SUBMARINE GEOLOGY

During the weekend of January 11 & 12, General Oceanographics, Inc. was host to an enthusiastic group of 17 Petroleum Geologists at a demonstration of their two-man submersible NEKTON. The capabilities of the NEKTON for underwater geologic mapping and sampling were demonstrated under open-sea, diving conditions with each company representative acting as observer during one or more dives. General Oceanographics' marine geologists Jim Vernon, Dave Moore, Joe Curaray, and Larry Headlee piloted NEKTON. A total of 25 dives were made during the two-day demonstration, which took place in the Redondo-Palos Verdes area. The deepest dive made during the demonstration was to 270' in Redondo Canyon, however, the NEKTON is designed to operate comfortably to 1000'.

SPRING CONVENTION

The AAPG Pacific Section Spring Convention to be held March 26, 27 and 28, 1969 at the International Hotel, Inglewood, already gives promise of being one of the highlights of the year. We understand that William H. LeRoy, Entertainment Chairman plans on starting it off with an ice breaker New Orleans Night on Wednesday evening the 26th, and finishing at the end of the convention with a dinner dance and free champagne.

NOMINATING COMMITTEE

Ted. L. Bear, chairman, announces that the other members of the Nominating Committee for the 1969-1970 AAPG Pacific Section officers are Robert R. Knapp, John E. Kilkenny and Thomas A. Baldwin.

CALENDAR

- February 3, 1969 - Stratigraphic Seminar,
7:30 P.M., Bakersfield
College, Rm. 56, Science
and Engineering Bldg.
"Computer Simulation in
Sedimentology and Paleo-
ecology", Dr. John W. Harbaugh,
Stanford University.
- February 19, 1969 - Coast Geological Society
Dinner Meeting, Jet Room,
1994 Thompson Blvd., Ventura,
Social Hour 6:30, Dinner
7:30 P.M. "A Geologist in
Antarctica", Dr. John L.
Crowell, UCSB.
- February 20, 1969 - Los Angeles Geological
Society Luncheon Meeting,
Roger Young Auditorium,
Washington Blvd., 12:00
noon, \$3.00, "Modern Concepts
of Sea Floor Spreading and
Continental Drift", Mr.
Hunter Yarborough, Humble
Oil & Refining Company.
- March 3, 1969 - Stratigraphic Seminar,
7:30 P.M., Bakersfield
College, Rm. 56, Science
and Engineering Bldg.
"Some California Siliceous
Micro-fossils; Diatoms and
Silico Flagellates", Mr.
John W. Ruth, Standard Oil
Company of California.

PERSONAL ITEMS

Irving T. (Irv.) Schwade, associated for the past 25 years with Richfield Oil Corp. and Atlantic Richfield, has been appointed Vice President, Energy and Mineral Resources, of Texfel Petroleum Corp. He will be responsible for the geological aspects of exploring and developing Texfel's existing properties located in North America, Europe and Africa, as well as evaluating new properties.

Ex PPG Editor, Bruce Black, Shell Oil Co., reports himself and family comfortably settled in the Sunset Heights area of Farmington, New Mexico, where, each evening, he can watch the sun slowly set behind Shiprock, which certainly must beat the same event taking place over the houses across the street in Lakewood.

William B. Beatty, geologist and mining engineer of Menlo Park, is now affiliated with L. Kenneth Wilson and Associates, Land and Mineral Exploration, of San Francisco.

NURSERY NEWS

The J. R. Maytums (Jim and Sandy), Texaco, added a Thanksgiving Day daughter to their family.

BIBLIOGRAPHY OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

- Professional Paper 542-J: Effects of the earthquake of March 27, 1964, in the Homer area, Alaska, by R. M. Waller, with a section on: Beach changes on Homer Spit, by K. W. Stanley. 1966. (Reprinted 1968) 65¢
- Professional Paper 610: Principal gold-producing districts of the United States, by A. H. Koschman and M. H. Bergendahl. \$4.75
- Bulletin 1271-A: Middle Miocene foraminifera and stratigraphic relations in the Adelaida quadrangle San Luis Obispo County, Calif., by P.B. Smith and D. L. Durham. 20¢
- Geophysical Abstracts 263, December 1968 45¢
- Abstracts of North American Geology, November, 1968 (Subscription price of 12 monthly issues is \$9.00/year; single copies are 45¢.
- Circular 563: Favorable areas for prospecting adjacent to the Roberts Mountains thrust in southern Lander County, Nev., by J. H. Stewart & E. H. McKee. (reprinted 1968) Free
- Circular 602: Sand and gravel on the continental shelf off the northeastern United States, by John Schlee. Free.
- Circular 603: Gold in meteorite and in the earth's crust, by R. S. Jones. Free
- Circular 606: Anomalous concentrations of gold, silver, and other metals in the Mill Canyon area, Cortez quadrangle, Eureka and Lander Counties, Nevada, by J. E. Elliott and J. D. Wells. Free

MAPS:

- HA-314: Floods in Waimanalo area, Oahu, Hawaii, by Reuben Lee and W. C. F. Chang. 75¢
- Map I-547: Geologic map of Fox Mountain quadrangle Santa Barbara County, Calif., by J. G. Vedder \$1.00
- Map I-556: Reconnaissance geologic map of the Dufur quadrangle, Hood River, Sherman, and Wasco Counties, Oregon, by A. C. Waters 75¢
- Map I-561: Geologic map of the Twentynine Palms quadrangle, San Bernardino and Riverside Counties, Calif., by T. W. Dibblee, Jr. 75¢
- Map I-562: Geologic map of the southwest quarter of the Black Mountain quadrangle, Nye County, Nevada, by D. C. Noble and R. L. Christiansen. \$1.00

CALIFORNIA DIVISION OF MINES AND GEOLOGY

- Special Report 94: Geology of the Desert Hot Springs--Upper Coachella Valley area, Calif., by Richard J. Proctor \$2.50
- Map Sheet 10: Geology of the Lakeport Quadrangle, Lake County, California, by James R. McNitt \$1.50

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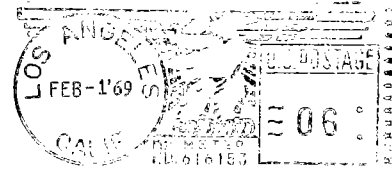
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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

March, 1969

Number 3

ASSOCIATION ACTIVITIES

PACIFIC SECTION CONVENTION

Registration at the convention will be in the lobby of the International Hotel starting Wednesday afternoon, March 26, 1969. The phone number of the convention answering service is Area Code (213) 670-5724.

The entertainment schedule is as follows: Wednesday, March 26, 1969, International Hotel - Ballroom. 'A Night in New Orleans' Admission is \$4.00 per person. Starts 6:30 PM with free drinks and beer. The free bar closes at 8:30. There will be strolling vendors a la Bourbon Street and fresh oysters, crab and shrimp flown in from the Gulf of Mexico. A Dixie Land band, Billy and the Bachelors, will entertain and there will be door prizes during the evening.

For the ladies who are not attending the sessions there will be a brunch in the Penthouse at the International Hotel on Thursday morning. On Friday a tour of Ports of Call with its newly added shops representing most of the imports of the world and a luncheon on the ship 'Princess Louise' on Terminal Island. The Regency Room will be the ladies hospitality room. Thursday evening there will be a no host cocktail party starting at 6:30 in the International Ballroom where the two free drink tickets that came with registration can be used. This is followed by the annual SEPM dinner at 8:00 with Dr. Kleinpell of the University of California as the speaker. See the SEPM notice regarding this important address.

On Friday the following alumni meetings will be held in the Gold Room of the International Hotel. The luncheons are from 12:00 to 2:00, are \$4.50 per person and there will be speakers.

1. University of California - Berkeley
2. University of California - Los Angeles
3. Southern California
4. Stanford
5. California Tech - Pasadena
6. San Diego State College

The chairman will be M. J. Castro

Friday evening the champagne dinner dance in the Ballroom of the International Hotel. A no host bar from 7 to 8:00 PM. A strolling trio to play requests. Dinner with champagne from 8:00 to 9:00 and dancing to the music of the I. Newton Perry Orchestra. The cost is \$14.00 per couple and includes a chance on a pair of

round trip tickets via National Airlines to some lucky couple to New Orleans from Los Angeles.

Thanks to Harold Sullwold, a handy schedule of Convention talks has been incorporated in this issue.

Dr. Robert M. Kleinpell of the University of California at Berkeley will be guest speaker at the annual dinner meeting of the SEPM on Thursday evening, March 27, in the International Ballroom. He will give a talk entitled, A Semipro Revisits the Middle Tertiary Foraminiferal Sequence of the California Coast Ranges. This great pioneer of West Coast biostratigraphy will undoubtedly have much to say which will be of vital interest to nonmembers as well as members of SEPM. Everyone is welcome. Just let them know you are coming by way of your attendance estimate card.

BULLY FOR HUMBLE

The Humble Oil & Refining Company has donated \$30,000 to the American Association of Petroleum Geologists, to be granted in three annual \$10,000 payments, AAPG President Dr. Frank B. Conselman announced.

Dr. Counselman said the grant would be applied toward AAPG expenses for the June, 1969, edition of the AAPG BULLETIN, which contains the statistics of drilling for 1968.

"Contributions of this sort, together with donations to AAPG's research-oriented Foundation, greatly enhance the Association's ability to serve the science of petroleum geology and the petroleum industry," Dr. Conselman said.

CALIFORNIA FIELD & POOL NAMES

The AAPG Classification Committee and the Conservation Committee have announced their new lists of "California Oil Field and Pool Names" and "California Gas Fields and Pools" effective January 1, 1969. Copies may be obtained by contacting M. C. Barnard, Jr., Atlantic Richfield Co., 5900 Cherry Avenue, Long Beach, 90805, or telephone 423-7921.

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L. A. BASIN GEOLOGICAL SOCIETY

There will be no meeting of the Los
Angeles Basin Geological Society during the
month of March because of Convention
conflict.

Tom Redin, chairman of the Society, re-
ports that the group will strive to hold
meetings on the third Wednesday of each
month. Present plans are for an April
barbeque, speaker to be announced later.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

Some 40 members and wives of the
Northern California Geological Society
met January 22, to hear distinguished
lecturer Lewis G. Weeks speak on Oil
Exploration in Australia With Case His-
tory Lessons.

On January 31, the Society elected
the following officers for the calendar
year 1969.

President:	David Cerkel, Independent
Vice President:	Gladys Lauke, Independent
Secretary-Treasurer:	Livingston Porter, Jr. Chevron Overseas Co.

February 10, 1969

LEGISLATIVE BULLETIN--Board of Geologists

It was learned today that the Attorney
General's office has informed the Governor's
Appointments Secretary that there are no
legal barriers preventing the creation of
the Board of Geologists. The Appointments
Secretary's office informed this reporter
today that the Board should be announced
within a 4 to 5 weeks period.

The long awaited formal opinion from the
Attorney General's office has not yet been
issued--in fact, it might be dispensed with
entirely. Following many weeks of studying
the preliminary opinion, it was decided that
the Appointments Secretary be notified that
the selection of the Board should no longer
be delayed.

According to the Attorney General's of-
fice, there remain "other problem areas"
relative to AB 600, however, these can best
be resolved once the Board has been estab-
lished. A representative from the Attorney
General's office will meet with the Board
at the appropriate time to review these
"problem areas".

Whatever objections to AB 600 that the
Attorney General's office might have will
not obstruct the registration process.

The Appointments Secretary's office has
a tremendous back-log of positions that
must be filled. Accordingly, the time
necessary to select and appoint the Board
of Geologists will be somewhat protracted,
requiring between 4 and 5 weeks.

Respectfully submitted,

Roland J. Bain, AIPG
Legislative Representative

To: AAPG District Representatives

From: John A. Taylor, Chairman, Business
Committee

A matter has just arisen that calls for the issuance of this Newsletter and concerns the new Constitution which will be presented to the Annual Meeting of the Business Committee for approval in Dallas this April. The matter of the new Constitution, of course, is paramount among the objectives of this administration. The officers of the Association are most anxious that you, the District Representatives, and the total membership, be as well informed as humanly possible on the merits of this plan so that they may have benefit of your suggestions during this interim before the Annual Meeting. This new Constitution is the result of a number of years of work by various committees and individuals, and the plan to be presented is the best of this effort. The Executive Committee considers this to be a good step, that it is a marked improvement over our present constitutional arrangement, and that it accommodates the present purpose and direction of the AAPG in an improved fashion.

Now the real point of this Newsletter is in response to a letter that I believe all of you received about the middle of December from Mr. T. A. Baldwin regarding the proposed AAPG Constitution wherein a number of points are raised concerning the the Constitution and its Bylaws, and most specifically concerned with the vesting of authority in amending the Constitution and Bylaws. It is most commendable that Mr. Baldwin has taken his time to go over the Constitution and to raise points of issue, but unfortunately these points seem to involve considerable misunderstanding of the documents.

I should, therefore, be most derelict of duty as your Chairman if I did not address myself to the categorical remarks raised by Mr. Baldwin. Mr. Baldwin's statement will be quoted and then followed with my statement.

Amending the Constitution

1. "The Executive Committee shall determine the 'legality' of all proposals to amend the Constitution before our delegates can discuss them (Art. VIII, Sec. 3).

Comment: This is no change at all from the present Constitution and previous practice. To my knowledge this has never been found a handicap or an onerous situation before. Somebody has to determine the legality and unless we set up an independent judiciary of some kind, the Executive Committee with the aid of its Advisory Council is in an excellent position to determine the legality of the proposed amendments. After all, the Executive Committee are elective officials also and have a vested interest in representing the membership as fairly as possible. You may refer to Article VIII of our present Constitution for this provision. If there was no apparatus for determining the legality of an amendment and it was passed by the

House of Delegates and later found to be illegal, such action would need to be reversed.

After all, the Executive Committee and the House of Delegates, all being elected officials of the Association, being in a cooperative posture one with the other, should be able to work together toward the mutual good of the Association. Surely the new Constitution contains enough checks and balances to insure that no one segment of the total administration will get too far out of line.

2. "No means is provided for our delegates to propose a Constitutional amendment themselves."

Comment: This statement is untrue. Article III, Sec. 1 (a) of the Bylaws says "All of the Legislative function...shall be vested in a House of Delegates". The Delegates have sole legislative authority, and any legislative body can propose legislation. Incidentally, this is the identical wording in the present Constitution as you may find in Article VIII, and the Business Committee has to my knowledge not had any difficulty in originating changes in the Constitution or Bylaws in the past under the method outlined in the present Constitution. Note that the organizational diagram of the proposed Constitution carries the following descriptive words for the House of Delegates, "Originates or approves changes in dues, Constitution, and Bylaws, Member requirements, etc."

3. "The general membership can propose a constitutional amendment by petition of 50 members (in the past only 10 were required). (Article VIII, Sec. 2(c))."

Comment: The AAPG was a much smaller organization until recent years and 10 signatures was in line with the total membership at that time. Proportionately, the AAPG has so grown since that time that 50 signatures ~~was~~ should not be too difficult to obtain if the amendment is worth considering at all.

4. "All amendments must be considered during the annual meeting only (only one effective meeting each year). (Art. VIII, Sec. 2(c))."

Comment: There is no change here from the present Constitution. I should not think that one should need to consider the matter of amending the Constitution more often than once a year at the Annual Meeting, although there is nothing in the new Constitution that says that it cannot meet more often. In fact, Article III, Section 6 states that the House of Delegates meets at least once a year; it can meet as often as it wishes.

5. "A 2/3 vote of our attending delegates is required to approve an amendment (in the past a simple majority)."

Comment: This is not true. A simple majority of the attending delegates is all that is required in the proposed Constitution. A 2/3 majority favorable vote of mail ballots must be had upon submission of the amendment to the membership after approval by the House of Delegates.

6. "Before the delegates can transact any business a 50% quorum of elected delegates must be established (no proxies permitted)."

Comment: Under the new Constitution a quorum consists of 50% of the Delegates or elected alternates. In the past, some of our lack of communication has been due to low attendance by Representatives, and the use of proxies with no prior knowledge of problems at stake. Delegates are expected to be responsible people who will attend, or see to it that their alternates attend. This is all toward the end of strengthening the House of Delegates, which I'm sure Mr. Baldwin will applaud as there appears to be a feeling on his part that the position and actions of the House of Delegates should be strengthened.

Amending the Bylaws

1. "No means of proposing an amendment is provided."

Comment: Here again, the House of Delegates has sole legislative authority, and legislation includes proposing legislation. Further, the Advisory Council is charged with constantly reviewing and recommending appropriate amendments (Art. IV, Sec. 5); the Executive Committee can propose amendments; but in all cases the House of Delegates has to approve them. My dictionary defines "legislative" as follows: "having the power to legislate; that makes and enacts laws; distinguished from administrative and judicial; the law making power in government". Incidentally, the Latin "legis" is the genitive of "lex", a law; and "latio" means bringing or proposing.

2. "Our elected delegates cannot propose an amendment (since no discussion of amendments can occur until after the Executive Committee has determined legality and approved publication in the BULLETIN two months prior to the Annual Meeting)."

Comment: As has already been noted above, Delegates can meet as often as they wish; they can propose amendments either at an Annual Meeting or at any subsequent meeting, refer for legality and printing, then take action at the next Annual Meeting. One of the principal objections I've heard around the country which came to a head in the 1968 Oklahoma City Annual Meeting was the statement by many that they were not properly informed. This is the principal reason for reserving two months prior to the meeting for publication in the BULLETIN.

3. "Quorum - a majority of all elected delegates, no proxies permitted."

Comment: This remark is answered in Number 6 above.

Mr. Baldwin in a closing statement says, "In my opinion, these factors would mean that our elected delegates could not propose, discuss or pass amendments to the Constitution or Bylaws except at the will of the Executive Committee." It is difficult to see how Mr. Baldwin arrives at this conclusion if one goes through each of the points raised above, looks up the matter in the present Constitution and then the new Constitution, and considers the logic involved. In my understanding of the new Constitution, there has been a considerable attempt to strengthen

the hand of the House of Delegates. Such matters as the House of Delegates electing its own Chairman is a case in point of the strengthening in this group. Other points could be mentioned.

When Association leaders accepted the responsibility to update our governing documents, they voluntarily elected to inform the members of significant changes involved by means of visits at personal expense. Of the 51 affiliated societies contacted, 33 responded with an invitation for an AAPG official to discuss the proposed Constitution and Bylaws. By year's end, all but seven of the societies responding had been visited; all will have been visited by the end of February. It is estimated that well over 9,000 active members (of about 10,000 in the United States and Canada) will have had the opportunity to hear the documents discussed, and to offer recommendations. This is a good example of the effort made by our elected officials to keep the membership informed. The rest is up to the members.

PERSONAL ITEMS

Recent transfers involving Cities Service personnel include the following:

A. J. Keller, transferred from Midland, Texas to the California District as District Geologist.

H. B. Carleton, transferred from San Antonio, Texas to the Los Angeles Regional Staff as Regional Staff Geophysicist.

D. D. Mitchell, transferred from Midland, Texas to the California District as Field Development Geologist.

D. L. Thompson, transferred from the California District to the Alaska District as District Geologist.

Glen W. Specht of Humble has been transferred from the Los Angeles office to Goose Creek, Texas.

Elmo Speckles, formerly a scout with Getty Oil Co., is now in Sacramento as a landman with Union Oil Co.

We understand that Lee McFarland, consultant, Los Angeles, is presently sponsoring a "Holiday in Denver" for some of Denver's finest. Seems that Lee walked into his motel office to register during a recent trip to Colorado and interrupted a holdup. He was forced to lie on the floor with the other victims and relieved of his wallet containing money and credit cards. The robbers were apprehended almost immediately and taken into custody along with all the loot. Inasmuch as the loot is also the evidence, it is still in the hands of the police. Reports indicate that Lee retained his composure throughout and wishes he could have done the same with his money.

PACIFIC SECTION A.A.P.G. - S.E.P.M. - S.E.G. 1969 ANNUAL MEETING, 1969

INTERNATIONAL HOTEL, LOS ANGELES

WEDNESDAY EVENING * NEW ORLEANS ICE BREAKER * 6:30 - 9:30 BALLROOM

THURSDAY, MARCH 27, 1969

JOINT SESSIONS - BALLROOM

8:30	1	Opening Address "Applied Geology" - Frank Conselman, President, A. A. P. G.
8:45	2	Pacific Margin Fault Tectonics - Katz
9:15	3	Pleistocene Sea Level Fluctuations - Dill
9:45	4	Long Beach Unit of Offshore Wilmington - Szasz, Fantozzi, and Adent
10:15	5	Advances in Interpretation of Offshore Seismic Data - Hughes, Harris, and Patterson
10:45	6	International Law and Technology for the Sea Floor - Albright et al
11:15		Clear the Ballroom for lunch

JOINT LUNCHEON - BALLROOM - SPEAKER: KENNETH H. CRANDALL

A.A.P.G. - BALLROOM		S.E.P.M. - ROSE ROOM	S.E.G. - BLUE ROOM	
2:00	1	Distribution of Biogenic Sediment - Harman	Doppler Sonar Navigation - Maxwell & Gaechter	2:00
2:30	2	Sublittoral Sed-Foram Relationships - Echols	Velocity Anisotropy of Upper Mantle - Morris, Raitt, & Shor	2:30
		Paleocurrent Analysis, Sespe Fm. - McCracken	Gravity & Chemical Anomalies - McCulloh	3:00
		Variance of Shelf Sed. Texture - Kelly & McManus		
		Heavy Mins., Bering Sea - Venkatarathnam, McManus		
3:50	3	Suspended Matter at Columbia R. - Conomos	Gravity of Northern Channel Islands - Aldrich	3:45
4:10	4	Sand Transport in Waves - Cook	Bouguer Reduction Technique - Berkman & LeFehr	4:15
4:40	5	Computer Simulation of Sed. Transport - Carter		4:45
	6			
5:10				
5:30				

NO HOST COCKTAIL HOUR - BALLROOM - 6:00 to 8:00

S.E.P.M. DINNER - BALLROOM - 8:00 - SPEAKER: R. M. KLEINPELL

"A Semi-pro Revisits the Middle Tertiary Foraminiferal Sequence of the California Coast Ranges"

FRIDAY, MARCH 28

A.A.P.G. - BALLROOM		S.E.P.M. - ROSE ROOM	S.E.G. - BLUE ROOM
8:30	Recent Developments in Santa Barbara Channel - Hall, Curran		
9:00	Geologic Mapping by Submarine - Vernon	Lower Paleogene Planktonic Foraminifera - Steineck	Continuous Reflection Parameter Selection - Carter et al 9:00
9:30	Anacapa Rift - Yeats	L. Plio of Calif. & Italy - Bandy, Yen, & Wright	Seismic Record at Depth - Hornsby 9:30
10:00	Miocene Volcanics, No. Channel Islands - Wolf	Size-depth Variation of <u>Cyclammina cancellata</u> - Theyer	Searching for Stratigraphic Traps - Dix 10:00
10:30	Miocene Volcanics, West. Sta. Mon. Mts. - Blackerby	Secondary Calcification in <u>Globorotalia menardii</u> - Fleisher	Marine Reconnaissance Techniques - Dobrin 10:45
11:00	L. Tert. Paleocurrent Trends, Sta. Cruz Is. - Yeats & Merschat	Foraminifera on Alaskan and Siberian Cont'l. Shelves - Harman & Cooper	
11:30	Field Geology in a Marine Environment - Osborn	Foraminiferal Trends in the Oregon Sublittoral - Fowler & Boettcher	
12:00		Tertiary Biostratigraphy of Oregon Cont'l. Margin - Fowler & Muehlberg	
		Ultrastructure Studies of Selected Benthic Forams - Stapleton	
		Significance of <u>Prunopyle titan</u> - Bandy, Casey, Wright	

COLLEGE LUNCHEONS

2:00	Seds. on Inner Cont'l Shelf, No. Washington - Venkatarathnam and McManus	Middle Tertiary Stages - Bandy & Wilcoxon	Seis. Survey of Gold Placers, Nome - Greene 2:00
2:30	Santa Cruz Basin - Barnes	Sedimentation in Santa Barbara Basin - Soutar	Seismic Survey, Nome, Alaska - Tagg & Greene 2:30
3:00	Compaction of Meganos Gorge Fill - Edmondson	Mid-Tertiary Stratigraphy of Santa Rosa Island - Avila	Cont'l. Shelf off Southern Oregon - Bales & Kulm 3:00
3:30	A.A.P.G. Business Meeting with Discussion of Proposed New Constitution by Frank B. Conselman	Paleogene Stratigraphy of Northern Channel Islands - Doerner	Continental Slope off Oregon - Kulm & Bales 3:30
4:00		Miocene Biostratigraphy of SW Santa Cruz Island - Bereskin	Profiling on the Cont'l Shelf off Washington - Bennett 4:00
4:30			
5:00	Santa Barbara Channel Panel Moderated by Donald W. Weaver		
5:30			

DINNER DANCE, NEW ORLEANS STYLE, Ballroom - 7:00 to 1:00

SATURDAY: FIELD TRIP. BUSES LEAVE HOTEL ENTRANCE AT 7:30 AM

Frank E. (Gene) Hill of Mobil just returned from a company sponsored, all-expense cruise on the "Wild Goose", John Wayne's luxury yacht. Sure beats the Mesco I, doesn't it Gene.

Lynn Bogue Hunt, also of Mobil, after surviving the wilds of New York, is about to re-enlist for duty in Sumatra. Rumor has it that Bogue is about ready for his booster shots.

We of the Pacific section of the AAPG would like to welcome Kurt Johnson and Jim Parkinson of Standard of California to the L.A. Basin. Both of these gentlemen were recently transferred to La Habra from Bakersfield. To offset the loss of Kurt and Jim, Bakersfield will receive William H. Smith and Thomas J. McCroden from La Habra. Tom, currently District Geologist for the L.A. Basin, will become District Superintendent of the Bakersfield office effective March 1.

Robert A. Seltzer will also be leaving La Habra to go to Chevron Overseas in San Francisco. Bob will be in charge of geophysics for North Africa and Europe.

George B. Pichel of Union, currently Manager of Exploration for the Western region, is to become Chief Geologist of the Union Oil and Gas Exploration Staff effective February 1, 1969.

Dennis R. Mett, of Union, currently Chief Geophysicist of International Division, will become Chief Geophysicist of the Union Oil and Gas Exploration Staff, effective February 1, 1969.

John Forbes also of Union, has recently been transferred to Santa Fe Springs from Santa Maria.

Al Winfrey is a new geophysicist for Atlantic Richfield in Bakersfield.

Wesley G. (Wes) Bruer, recently General Manager for Richard S. Rheem is now with the California Department of Conservation in Sacramento. Phone No. 916-445-9378.

Wayne Estes, of Atlantic Richfield, has just been assigned to the Long Beach office after completing training in Dallas. Wayne is a recent graduate of the University of Arizona.

NURSERY NEWS

Rod Nahama, Geological Consultant, Bakersfield, and his wife, Lily, a baby boy, David, on Feb. 4, 1969.

John H. (Jack) and Bonnie Pigg, Texaco, Bakersfield, a baby boy, Todd, on Dec. 9, 1968.

Jim and Tafi Coli, Humble, are the proud parents of a baby boy born Jan. 22, 1969.

The Jim Wildharber's, Mobil, recently became the proud parents of a baby girl.

CALENDAR

- Mar. 3, 1969 Stratigraphic Seminar, 7:30 P.M., Bakersfield College, Rm. 56, Science and Engineering Bldg. "Some California Siliceous Micro-fossils; Diatoms and Silico Flagellates", Mr. John W. Ruth, Standard Oil Company of California.
- Mar. 11, 1969 San Joaquin Geological Society Barbeque Meeting, American Legion Hall, Bakersfield. Social hour 5:30 p.m. Dinner, 7:30 p.m. "Geologic Effects Produced by Compaction of the Eocene Meganos Gorge Fill," William F. Edmondson, Geological Consultant, Bakersfield.

NO MEETING WILL BE HELD IN MARCH FOR THE COAST GEOLOGIC SOCIETY & THE LOS ANGELES BASIN GEOLOGICAL SOCIETY. ATTEND THE PACIFIC SECTION CONVENTION.

- April 7, 1969 Stratigraphic Seminar, 7:30 P.M., Bakersfield College, Rm. 56, Science and Engineering Bldg. "European Studies of Fossil Vertebrates, Paleozoic-Mesozoic Cenozoic Continental Stratigraphy and Vertebrate Chronology, History of Earth Sciences, etc.", Dr. Joseph T. Gregory, Univ. of California, Berkeley.

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BIBLIOGRAPHY OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

Professional Paper 516-F: Airborne measurements of terrestrial radioactivity as an aid to geologic mapping by J. A. Pitkin. 45¢

Professional Paper 543-J: Effects of the Alaska earthquake of March 27 1964 on shore processes and beach morphology, by K. W. Stanley. 45¢

Professional Paper 600-A: Geological Survey Research 1968, Chapter A. \$3.50

Professional Paper 600-D: Geological Survey Research 1968, Chapter D. \$3.25

Bulletin 1255: Geology of the Tierra Redonda-Mountain and Bradley quadrangles, Monterey and San Luis Obispo Counties Calif., by D. L. Durham. \$2.00

Bulletin 1272-B: Geology of magnesite deposits in northern Okanogan County; Wash.--A preliminary report, by K. F. Fox, Jr., and C. D. Rinehart. 60¢

Water-Supply Paper 1798-E: Sedimentation in the Piru Creek watershed, southern California, by K. M. Scott, J. R. Ritter, and J. M. Knott. 35¢

Water-Supply Paper 1859-E: Hydrology of Crater, East, and Davis Lakes, Oregon, by K. N. Phillips with a section on Chemistry of the lakes, by A. S. Van Denburgh. 40¢

Geophysical Abstracts 264, January 1969 45¢

Abstracts of North American Geology, December 1968. 75¢

Circular 525: Tectonic creep in the Hayward fault zone, by D. H. Radbruch, M. G. Bonilla, and others (Reprinted 1968) Free

Circular 604: Distribution of gold, copper, and some other metals in the McCarthy B-4 and B-5 quadrangles, Alaska, by E. M. MacKevett, Jr. and J. G. Smith. Free

Circular 605: Gold distribution on the sea floor off the Klamath Mountains, Calif., by G. W. Moore and E. A. Silver. Free

MAPS:

Map I-555: Reconnaissance geologic map of the Madras quadrangle, Jefferson and Wasco Counties, Oregon, by A. C. Waters. 75¢

Map I-566: (LAC-77: RLC-13). Geologic map of the Ptolemaeus quadrangle of the Moon by K. A. Howard and Harold Masursky. \$1.00

OPEN FILED REPORTS (Inspection only)

Regional geologic map of San Andreas fault from Cholame area to Cuyama-Maricopa area, San Luis Obispo, Kern, and Kings Counties California, by T. W. Dibblee, Jr. 1 map, 1 explanation (2 sheets), scale 1:125,000.

Summary of geologic effects of the Boxcar event, Nevada Test Site. by D. D. Dickey, F. A. McKeown, and W. L. Ellis. 4 p., 2 pl., 1 Fig.

U. S. GEOLOGICAL SURVEY: CONTINUED

Aeromagnetic map of Monitor Valley and vicinity, Lander and Eureka Counties, Nevada, by the U. S. Geological Survey. 1 sheet, scale 1:62,500.

Bathymetry and isopach map of stratified Holocene sediments of Nuka Bay, Alaska, by Erk Reimnitz and Roland von Huene. 2 maps, explanation (3 sheets).

Geologic map of the Wilbur Springs quadrangle, Calif. by Ernest I. Rich. 1 map, explanation, cross-sections (2 sheets), scale 1:48,000.

Preliminary geologic map of Mt. Michelson quadrangle Alaska, compiled by H. N. Reiser and I. L. Tailleux. 1 sheet, scale 1:200,000.

Continuous seismic profiling investigation of the southern Oregon continental shelf between Cape Blanco and Coos Bay, by Angus James Mackay. 129 p. (incl. 27 p. tables), 1 pl, 17 figs.

Post-earthquake infrared imagery, Parkfield-Cholame California, earthquakes of June-August 1966, by Robert D. Brown, Jr.,

Geologic evaluation of radar imagery, Caliente and Temblor Ranges, southern California, by Edward W. Wolfe.

Infrared survey of the Pisgah Crater area, San Bernardino County, Calif.--a geologic interpretation by Stephen J. Gawarecki.

JOURNAL OF SEDIMENTARY PETROLOGY, vol. 38, no. 4, December 1968

Wheeler Gorge turbidite-conglomerate series, California; Inverse grading, by Richard V. Fisher and James M. Mattinson

Petrology of Domengine Formation (Eocene) at Potrero Hills and Rio Vista, California, by Thomas W. Todd and William A. Monroe.

Carbonate turbidites, Gulf of Mexico, by David K. Davies.

Comparison of sedimentation in the Bavarian Flysch (Cretaceous) and Recent San Diego Trough (California), by Ulrich von Rad

Positions of empty pelecypod valves on the Continental Shelf, by K. O. Emery

Petrology and depositional environments of the Beck Spring Dolomite (Precambrian), Kingston Range, California, by Allan M. Gutstadt.

The role of iron sulfides in the diagenetic formation of iron-poor manganese nodules by E. S. Cheney and L. D. Vrendenburgh

Experimental study of rock fragments, by Sam Boggs Jr.

NEVADA BUREAU OF MINES

Map 36: Gravity map of the Tonopah, Baxter Spring, Lone Mountain and San Antonio Ranch quadrangles, Nevada, by John W. Erwin. \$1.00

OREGON STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

Miscellaneous Paper 12: Index to published geologic mapping in Oregon, 1898-1967, compiled by R. E. Corcoran.

WORLD OIL, vol. 167, no. 7, December 1968

New ideas in deep water oil production systems. Part 1: The manned approach, by André Brun.

WORLD OIL, vol. 168, no. 1, January 1969

New Ideas in deep water oil producing systems. Part 2, by André Brun

The occurrence of oil in sedimentary basins. Part 1--Historical geological studies integrated with petroleum geology reveal information on productive potential of a given basin, by Carl A. Moore.

Waterflooding will make Barrow, Australia's biggest oil producer, by William A. Scholes

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 80, no. 2, 1969

Experiments on formation of contorted structure in mud, by Edwin D. McKee and Moshe Goldberg.

Earthquake effects on fill of Scripps Submarine Canyon, by Robert F. Dill.

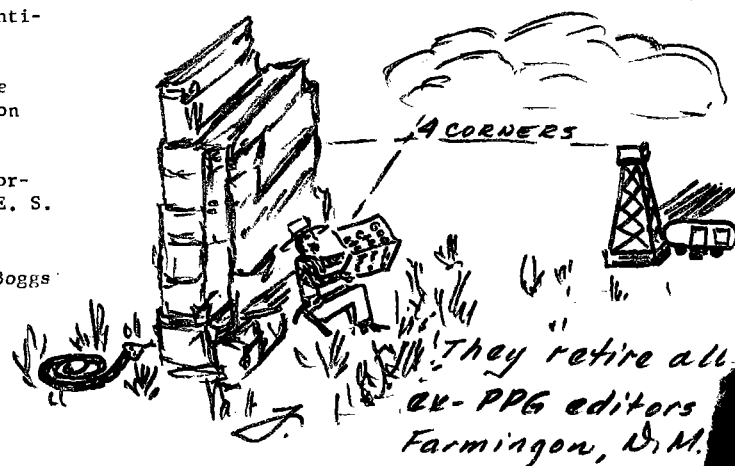
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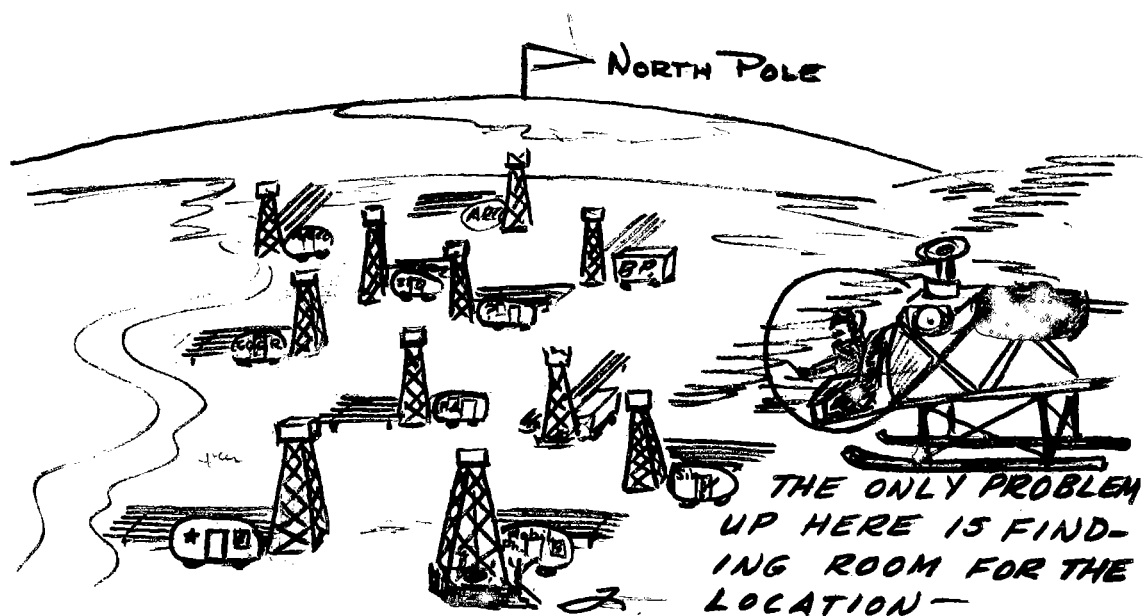
Map Sheet 9: Geology of the Kelseyville quadrangle Lake and Sonoma Counties, California, by James R. McNitt \$1.50

Map Sheet 10: Geology of the Lakeport quadrangle, Lake County, California, by James R. McNitt \$1.50

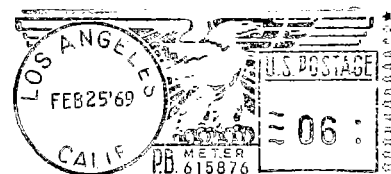
Bulletin 180: Sand and gravel in California, Part C: Southern California, by Harold B. Goldman. \$2.00

Bulletin 190: Geology of Northern California (Reprinted) \$6.00





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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

April, 1969

Number 4

ASSOCIATION ACTIVITIES

THE CONSTITUTION ISSUE: SOME SERIOUS QUESTIONS

Louis J. Simon, President
Pacific Section, AAPG

For several weeks, I have been reviewing the controversy which has been seething within the AAPG over the proposed constitution and bylaws. Let me try to present a brief summary.

There is no question that the national AAPG needs a new constitution. This fact was recognized in May, 1965, when then president Grover Murray appointed a blue-ribbon committee to study the problem. This committee, which included past officers of the Association and others long dedicated to AAPG affairs, operated with various changes in composition under presidents Murray, Childs, Halbouty, and Carsey. After much hard work, which included consultation with and detailed review by many District Representatives and local society officers, the committee came up with a draft which had President Halbouty's approval. Responsibility for final approval was left to President Carsey's Executive Committee. One of the principal critics of the Constitution Committee's work was Norman Smith, AAPG Executive Director. The Carsey Executive Committee tabled the Constitution Committee's report and in an unusual move disbanded the committee prior to the Oklahoma City national meeting; as a result, the chairman's report was not accepted at the Oklahoma City Business Committee meeting, and was not published in the transactions of that meeting.

Meanwhile, a new "in-house" constitutional committee consisting of Carsey, Halbouty, and Conselman took up the job. They set up the presently suggested "reorganizational framework", and in the words of President Conselman, "set Mr. Smith, our Executive Director, and Mr. Leroy Blackstock, our counsel, to work 'putting meat on the bones'".

It is their work, and not that of the previous Constitution Revision Committee, which has been published for review in the AAPG Bulletin for January, 1969, (pp. 223-231). Some 50 different objections to this constitution were raised by various groups around the U.S. Amendments correcting seven of the objectionable passages were made by the Executive Committee in Albuquerque in February, 1969. These few amendments were made too late to be published in the Bulletin. However, elsewhere in this issue of the PPG, Vice-President John Kilkenny has reported on these proposed changes.

As members of the AAPG, we should take time to consider the Smith-Conselman version of the new constitution. At the Dallas Meeting in April, your District Representatives will be voting whether or not to present the constitution to the membership for their approval. They will appreciate your comments beforehand.

If this constitution is recommended for adoption, it will be up to each member to decide what is best for our organization. Should we adopt this entirely new version or continue for the time being with the present constitution? I urge all of you to take the time to compare in detail the choices which are offered to us. The present constitution may be found in the November, 1968, Bulletin Supplement (the green Membership Directory issue, pp. 327-334).

HANDS ACROSS THE BORDER

As gesture of goodwill and friendship, the recently established Canadian Association of Petroleum Geologists has offered affiliate membership in CAPG to AAPG members. Affiliate members receive the BULLETIN OF CANADIAN PETROLEUM GEOLOGY at the reduced cost of \$5 per year. The Association will make its membership list available for this purpose in the interest of cooperating with the Canadian geologists however possible.

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Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST

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Sacramento	
San Francisco	Charles M. Cross
San Joaquin	Rod Nahama
Membership Secretary	Barbara Tetard

GEOLOGICAL HIGHWAY MAP NO. 3

Geological Highway Map No. 3 - Pacific Southwest Region, is completed and will be on sale at the Annual Meeting of the Pacific Section March 26-28. The price for this California-Nevada map will be \$1.50 folded and \$1.75 rolled. Copies can also be purchased by mail from the AAPG Tulsa headquarters.

NORTHWEST GEOLOGICAL SOCIETY

At the last Northwest Geological Society meeting (February 13) Dr. Luciano Ronca of the Boeing Research Center gave a very interesting talk on Lunar Geology.

The next meeting, which will also be held at the Sherwood Inn in Seattle, will be on March 18. Dr. Robert F. Dill, A.A.P.G. Distinguished Lecturer will speak on Pleistocene Sea Levels and Continental Margin Sedimentation.

SALINAS VALLEY GEOLOGICAL SOCIETY

Those surviving members of the Salinas Valley Geological Society who recall with considerable nostalgia the meetings held at Joe Guidotti's in San Lucas, will be pleased to learn that Joe's son, Jeppi, has purchased the business from his father and will continue serving the same fine meals and beverages. Joe is reported to be taking it easy in Hawaii. We have no word on Jeppi's vocal talents, but hope they are at least equal to Joes, and preferably better. Remember having to fight your way past Bingo on the way to and from the John in the backyard?

AMERICAN INSTITUTE OF PETROLEUM GEOLOGISTS

A.I.P.G. L.A. Basin monthly luncheon meetings are held at the Roger Young Auditorium, the last Wednesday at 12 noon sharp. General interesting discussion and occasionally a guest speaker. Next meeting, April 30. Of especial interest is the coming June 12th luncheon when President R. Dana Russell will be present. Please notify Bruce Barron, 213-427-8750 (P.O. Box 7611, Long Beach 90807), if you plan to be present. These luncheons are the only scheduled A.I.P.G. functions, please attend if possible!!!

LEGISLATIVE BULLETIN

Board of Geologists

From sources in the Governor's Appointments Secretary's office it has been learned that the Secretary and his staff are reviewing the names submitted for consideration as candidates on the Board of Geologists. It is unknown if names other than those supplied by the geological groups in California (the master list submitted by AIPG) have been submitted or are being considered.

The final make-up of the Board could be reviewed at the Appointments Secretary's weekly meeting on March 20.

The Department of Professional and Vocational Standards has received approximately 400 requests for information relative to registration. Half of the inquiries are from out-of-state sources.

March 16, 1969

Roland J. Bain, AIPG
Legislative Rep.

The A.A.P.G. Executive Committee met in Albuquerque on February 22 and 23, 1969 to consider comments and recommendations on the draft of the proposed new constitution from A.A.P.G. sections, affiliated societies and Members. The response was gratifying as letters were received from all of the five sections and nearly all of our 52 affiliated societies, as well as from many Members. The Pacific Coast was well represented with consensus letters from the chairman of the Pacific Section District Representatives (Bob Orwig), the Los Angeles Basin Geological Society (Doug Traxler), and the San Joaquin Geological Society (Bob Horton), as well as a number of letters from individual District Representatives and Members. The substance of these letters indicated that much time and thought had been given to the new document and the consensus was that there were some changes and clarification of wording needed before the proposed constitution could be adopted.

Accordingly, your Executive Committee has made revisions in the wording of the proposed constitution to include the important changes that were recommended. The most important change is a clarification of the articles dealing with amending the Constitution and By-Laws. The revised wording spells out that the House of Delegates may introduce legislation and has the power to change or modify the wording of any proposed amendment. The determination of legality will be made before the proposed amendments are published in the Bulletin and considered at the Annual Meeting and will be made again if necessary by changes or modification by the House of Delegates.

It should be emphasized that the House of Delegates will be a stronger body and have more authority than the present Business Committee as it cannot be overruled by the Annual Business Meeting which has been eliminated. In addition the Chairman of the House will be elected by the Delegates themselves and he will be a full-fledged member of the Executive Committee.

Another change was made in the method of electing Delegates. It will now be optional. A society may elect its Delegates at its own meetings or have it done as it is now by the National organization. We believe that this system, along with the election of alternates, will improve attendance at the Annual Meetings, which has averaged only 75% (including proxies) in the past.

The Executive Committee has been expanded from five to seven members and will actually not have any more power than it does under the present constitution. The new ties with the House of Delegates and the creation of the Advisory Council will make a very equitable working arrangement. The Advisory Council will provide wisdom and experience to help guide the Executive Committee's decisions. It will also give more sectional representatives an opportunity to participate in the affairs of the Association.

In summary the proposed constitution should be a definite improvement over our present document. It represents the work of many people, incorporating what we believe to be the best features of the present constitution, the Moran Committee's work and other versions. Executive Committee members have appeared before dozens of geological societies, study groups and regional sections to explain the plan. The draft has been reviewed and revised twice and comments have been solicited from society officers, District Representatives and Members.

President Conselman will attend the Annual Pacific Section Business Meeting at 3:30 p.m. Friday, March 28 and will be happy to discuss the constitution and answer any further questions that you may have.

John E. Kilkenny
Vice President, A.A.P.G.

R E W A R D

1000 Clams

Any person supplying information regarding the whereabouts of the renowned geologic philosopher Jean B. Senteur de Boue is offered the reward of 1000 clams (Mytilus californianus). Any suggestions such as seagull counting in the Channel has been thoroughly investigated and found to be untrue. This project is being adequately accomplished by other organizations outside the industry. Also, Jean's original research project in the Searles Lake study on a micro-organism Coccolithophoridae in Dinoflagellidae recovered from lake-playa deposits was quietly dropped after his controversial conclusions were published in Vol. 16 No. 11 of the Pacific Petroleum Geologist.

Telephone calls to his last known address (4 long rings on the Sidewinder line out of Trona) bring forth an angry reply from the bartender on duty at Wildrose Station, who states "he never heard of the guy".

Please address any communiques to P.O. Box 17486, Foy Station, Los Angeles, Calif. 90017.

OFFSHORE TECHNOLOGY CONFERENCE

The first Offshore Technology Conference will be held in Houston, May 19-21, 1969. The Executive Committee will watch with interest the participation in this unique environmental Conference with the possibility that interest in marine geology may justify organization of a technical division within AAPG to provide liaison and support with this and other related meetings. The continued interest and application of earth science to the sea is pointing up the need for the AAPG to make some effort in this direction.

NATURAL GAS SYMPOSIUM

An epic two-volume symposium on the natural gases of North America has been published by The American Association of Petroleum Geologists.

The 2,493-page work, largest book publication effort ever made by the Association, is the most comprehensive treatment of the geological and engineering aspects of natural gas exploration and production available. Some 225 authors contributed 146 papers to this effort.

B. W. Beebe of Boulder, Colo., independent geologist and vice president of M. M. & B., Inc., edited the volumes. Bruce F. Curtis of the University of Colorado served as associate editor.

The two-volume set is available through The American Association of Petroleum Geologists, Box 979, Tulsa, Oklahoma 74101.

CONSELMAN GOES ABROAD

Dr. Frank B. Conselman, president of the AAPG, will wind up his three week speaking tour of four continents with his speech before the Pacific Section Convention, March 27.

Dr. Conselman's tour included London, Paris, Milan, Ankara, Tripoli and Madrid.

SHORT COURSES ON OCEAN ENGINEERING SET AT UCLA

Two courses of interest to engineers, scientists or managers studying, surveying or exploiting the oceans and to members of companies with offshore exploration and exploitation capabilities will be offered by UCLA Extension in April at UCLA.

Both classes will meet 8:15 a.m. to 5 p.m.

"Offshore Exploration and Mining" will be presented Monday through Friday, April 7 to 11, in Room 4442 Boelter Hall. The five-day course will acquaint interested groups and individuals with the known economic potential of mineral deposits of the sea, and with techniques now available and under consideration for exploring and mining these deposits.

Topics for discussion include mechanics and chemistry of the formation of marine mineral deposits, techniques available for exploring and mining oceanic mineral deposits and techniques under consideration for exploitation of deep ocean mineral deposits.

Instructor will be John L. Mero, president, Ocean Resources, Inc. and consultant in ocean mining and mineral exploration. Guest lecturer will be Jeffery S. Hanor, post doctoral fellow, Scripps Institution of Oceanography, University of California at San Diego.

"Ocean Centered Transport and Logistics Systems," April 21 to 25, in Room 5704 Boelter Hall, will provide an overview of maritime transportation and other logistics with emphasis on new uses and future prospects.

Ship and other ocean centered logistics systems, systems approach to the role, function, nature and principle of systems design; barge and container carriers, tankers, marsupial ships, surface-effect ships, underseapipelines, nuclear power and automated control are among the subjects for study.

Instructor will be Edward M. MacCutcheon, director, Systems Development, Coast and Geodetic Survey, Environmental Sciences Services Administration, U.S. Department of Commerce, Washington Science Center, Rockville, Maryland.

Further information is available by writing P.O. Box 24902, Engineering and Physical Sciences Extension, University Extension, UCLA, Los Angeles, California 90024, or telephone 825-3344 or 825-1295.

ARCTIC SYMPOSIUM

A proposal is being considered by the AAPG Executive Committee to sponsor an Arctic Geological Symposium, inviting participants from all countries involved in Arctic exploration, such as Russia, Norway, Sweden, Canada, etc. Because of wide interest in the North Slope of Alaska and Canada, it is believed that an enthusiastic response will be received especially if the Symposium can be scheduled at an early date within the Arctic Circle. Mr. Max Pitcher has agreed to serve as Chairman of the Steering Committee investigating feasibility.

PROFESSIONAL DIVISION - AAPG

Dr. George R. Gibson, an independent geological consultant from Midland, Texas, has been appointed president of the Professional Division of The American Association of Petroleum Geologists, Dr. Frank B. Conselman, AAPG president, announced.

Dr. John T. Rouse, regional geologist for Mobil Oil Corp. in Houston, is the new vice president and Ted L. Bear, consulting geologist with Bear and Kistler in Los Angeles, is secretary-treasurer.

The Professional Division of the AAPG consists of petroleum geologists who have been certified by a five-man board appointed by the Professional Division president. The purpose of the division, as stated in its by-laws, is to strengthen the professional qualifications and require high standards of competence in the profession.

Dr. Gibson, who holds degrees of Bachelor of Science and Doctor of Philosophy from the University of Minnesota, has international experience as a geologist and teacher. He served on the faculties of Carleton College and Ohio State University, was a geologist in Cairo, Egypt, for Socony Vacuum Oil Co., and worked in Texas for Magnolia Petroleum Co., Richfield Oil Corp. and Seaboard Oil Co., before entering independent consulting.

Dr. Rouse received bachelor and master degrees from the University of Cincinnati and a doctorate from Princeton. He taught at Hamilton College and Ohio State University before joining Magnolia Petroleum Co. in Dallas. He has been with the company and its successor, Mobil, in Dallas, Millings, Montana, and Pittsburg, before taking the Houston position.

Mr. Bear, a graduate of UCLA, has worked as a consulting geologist with Stanley & Stolz and is now with Bear and Kistler. He also is an instructor in petroleum geology at UCLA.

PERSONAL ITEMS

Texaco's exodus from Bakersfield is now complete. Bakersfield merchants did a "land-slide business" on sales of suits, ties, and white shirts-----also shoes!

The "Sock it To Me" Club may soon be declared the new meeting place for the San Joaquin Geological Society. The staff at Tenneco who seem particularly adept at obtaining front row seats, will certainly support this move. With so many geologists in attendance, the monthly card charge should certainly be a legitimate expense account item.

Bill Edmondson's talk on "Geologic Effects Produced by Compaction of the Meganos Gorge" was enthusiastically received by 130 geologists and guests at the regular monthly meeting at Bakersfield.

Gene Tripp, Texaco, has lately been sporting a rather ill concealed smirk as his cohorts in the Bakersfield office glumly made preparations for their now completed move to Los Angeles. Gene lucked out and was transferred to the Anchorage office where he could care less about car pools, smog and other such metropolitan problems.

Ed Gribi, Lesh Forrest and Max Payne make up a temporary triumvirate now working for Ken O'Brien and Associates of Long Beach. They are presently doing geological studies throughout the United States in connection with an Air Force contract.

Recent Personnel changes at Texaco include the following:

W. E. Bauer promoted to Assistant Division Geologist, Denver, Colorado.

F. S. McCutcheon, promoted to District Geologist, Ventura, California.

W. B. Head, transferred to Los Angeles Division office.

Harry Feder, Father of the Bakersfield Society Bar-B-Q is at the helm again. 20 oz. steaks, refreshments AND pretty girls are in vogue at the regular monthly meetings.

Al Winfrey is a new geophysicist for Atlantic Richfield in Bakersfield.

Elmo Speckles, formerly a scout with Getty Oil Company, is now in Sacramento as a landman with Union Oil Company.

The Standard Oil Explorers Bowling Team (La Habra) is fighting for 1st place in the local Men's Commercial Handicap League. After 9 weeks of winning 27 and losing 9 games, the team is a title contender. Aply Captained by Greg Calkins, other team members are Gery Ward, Bill Kardos, Bob McCrae, Bob Lindblom, Clancy Schesser, and Gary Gassaway.

The Standard Oil Inter-Company Golf League (Southern Division) is led by the Exploration Team after 3 months play. The team went into 1st place after a match played March 1st at Costa Mesa Country Club. Bob Lindblom shot 1 over par 71 for low gross honors. Captained by Art Gilbert, other team members are John Jacobson, Ray Perry and Dick Golden.

Jim L. Wildharber and Don H. Bollwinkle of Mobil were both transferred from the California District to the Alaska District.

Robert G. (Kern River Fats) Lindblom, of Standard of California, shot a gross 69 in the recent Standard Oil inter-district golf tournament held at Costa Mesa.

Dean Johnson, also of Standard, was recently transferred to La Habra from Libya.

Michael W. Zaikowsky, well known Texaco geologist and paleontologist passed away on the night of March 10, 1969. Mike had 32 years of service with Texaco and worked in Venezuela, Columbia and the United States. His quick humor and warm personality will be greatly missed by his many friends and associates.

Merwin Guy Edwards, long time AAPG member and until his retirement, Chief Geologist of the Shell Oil Co. in Los Angeles, died of emphysema February 25, 1969.

LONG BEACH GEOLOGISTS LUNCHEON

The Long Beach Geologists' luncheon is going strong the second Wednesday of each month at the Long Beach Elks Club, 4101 East Willow, Long Beach, good buffet, good company--call Bruce Barron to get on mailing list, 213-427-8750

NURSERY NEWS

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CALENDAR

- April 7, 1969 - STRATIGRAPHIC SEMINAR,
7:30 P.M., Bakersfield College,
Rm. 56, Science and Engineering
Bldg. Dr. Joseph T. Gregory, UCB,
"European Studies of Fossil Verte-
brates, Paleozoic-Mesozoic-Cenozoic
Continental Stratigraphy and Verte-
brate Chronology."
- April 8 - SAN JOAQUIN GEOLOGICAL SOCIETY
Bar-B-Que Dinner Meeting, Legion
Hall, Bakersfield. Social Hour
5:30 p.m., Dinner 7:30 p.m.
"San Andreas and the New Global
Tectonics"- Mason Hill
- April 14-16 - NATIONAL AAPG-SEPM CONVENTION,
Memorial Auditorium, Dallas, Texas
"An Ocean of Information About
the Continental Margins."
- April 16, 1969 - COAST GEOLOGICAL SOCIETY,
Dinner Meeting - Jet Room,
1994 Thompson Blvd., Ventura,
Social Hour - 6:00 PM; Dinner -
7:00 PM. Dr. Floyd Sabin, Chevron
Research, "Infrared Imagery and
Other Remote Sensing."
- LOS ANGELES BASIN GEOLOGICAL SOCIETY,
Bar-B-Que Dinner meeting; Standard
Oil Co., Northam Station - LaMirada
Social Hour - 6:00 PM; Dinner -
7:00 PM, Mr. George Tuttle, Jr.,
Program Manager, Beaver Submersibles,
North American Rockwell Corp.,
"The Beaver IV and Its Work Capa-
bilities".
- May 5, 1969 - STRATIGRAPHIC SEMINAR,
7:30 PM, Bakersfield College,
Rm. 56, Science and Engineering
Bldg. Dr. Donn Gorsline, USC,
"Sedimentation on the Continental
Borderline".
- May 5,6,& 7 - LOS ANGELES BASIN GEOLOGICAL SOCIETY,
Continuing Education Course,
Dr. D. R. Baker, "Origin and Migra-
tion at Hydrocarbons", Mobil Aud-
itorium, 612 S. Flower, Los Angeles,
2-6 PM, T.L. Wright, S.O.Co.
La Habra, Chairman.
- May 14, 1969 - LOS ANGELES BASIN GEOLOGICAL SOCIETY,
Noon Luncheon Meeting - Roger Young
Auditorium, Dr. Donn Gorsline,
Subject to be announced.
- May 21, 1969 - COAST GEOLOGICAL SOCIETY,
Dinner Meeting, Jet Room,
1994 Thompson Blvd., Ventura,
Social Hour - 6:00 PM, Dinner -
7:00 PM, Mr. James Stewart,
Scripps Institute of Oceanography,
"The Sealab Project."

BIBLIOGRAPHY
OF RECENT PUBLICATIONS

U. S. GEOLOGICAL SURVEY

- Bulletin 1251-H: Geology of the Magruder Mountain
area, Nevada-California, by E. H. McKee 75¢
- Bulletin 1275: Coal resources of the United States,
January 1, 1967, by Paul Averitt 65¢
- Circular 556: Estimated use of water in the United
States, 1965, by C. R. Murray Free.
- Maps:
GQ 770: Geologic map of the Spencer Hot Springs
quadrangle, Lander Co., Nevada, by E. H.
McKee \$1.00
- GQ 774: Geologic map of the Trail Ridge quad-
rangle, Nye County, Nevada, by R. L. Christian-
sen and D. C. Noble. \$1.00

OPEN FILED REPORTS: (Inspection only)

- Summary of microearthquakes along the San Andreas
fault system in central California, January 1
to March 31, 1968, by John C. Roller, Jerry P.
Eaton, and William H. K. Lee. 24 pages (19
p. tabular material, 1 fig.)
- Summary of microearthquakes along the San Andreas
fault system in central California, April 1 to
June 30, 1968, by John C. Roller, Jerry P.
Eaton and William H. K. Lee. 24 p. (20 p.
tabular material, 1 fig.)
- Summary of microearthquakes along the San Andreas
fault system in central California, July 1 to
September 30, 1968, by John C. Roller, Jerry P.
Eaton, and William H. K. Lee. 22 pages (17 p.
tabular material, 1 fig.)
- Summary of microearthquakes along the San Andreas
fault system in central California, October 1
to December 31, 1968, by John C. Roller, Jerry
P. Eaton, and William H. K. Lee. 19 pages (15
p. tabular material, 1 fig.)
- Geologic effects of the Greeley event, Nevada
Test Site, by D. D. Dickey, E. C. Jenkins, F. A.
McKeown and W. H. Lee. 2 pl., 1 fig.
- GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 80,
no. 1, January 1969
- Age and chemistry of Mesozoic and Tertiary plutonic
rocks in south-central Alaska, by Bruce L. Reed
and Marvin A. Lanphere
- Times of metamorphism in the Franciscan terrain of
the Northern Coast Ranges, Calif., by John Suppe.
- GEOLOGIC SOCIETY OF AMERICA BULLETIN, vol. 80, no. 3
March 1969
- Thermal infrared imagery and its application to struc-
tural mapping in Southern California, by Floyd F.
Sabins, Jr.
- Source of sand dunes of southeastern California and
northwestern Sonora, Mexico, by Richard Merriam.
- Depositional and non-depositional carbonate breccias,
Chiantla quadrangle, Guatemala, by Don N. Blount
and Clyde H. Moore, Jr.
- Burial metamorphism of the Late Mesozoic Great Valley
Sequence, Cache Creek, California, by William R.
Dickinson, Richard W. Ojakangas and Richard J.
Stewart.

GEOTIMES, vol. 13, no. 10, December 1968

Debate about the earth: A revolution in earth science, by J. Tuzo Wilson

GEOTIMES, vol. 14, no. 2, February 1969

The Deep Sea Drilling Project, by Elizabeth L. Gealy and T. A. Davies

AMERICAN JOURNAL OF SCIENCE, vol. 267, no. 2, February 1969

Chemistry of fresh and altered basaltic glass from the Upper Triassic Hound Island Volcanics, southeastern Alaska, by L. J. Patrick Muffler, James M. Short, Terry E. C. Keith and Vertie C. Smith

Origin of cleavage in folded rocks, by James H. Dieterich

Stress-history of folding, by James H. Dieterich and Neville L. Carter

Source fluids for the Salton Sea geothermal system by Harmon Craig.

PETROLEUM ENGINEER, vol. 41, no. 1, January 1969

Big unknowns in geology, by the Petroleum Engineer Staff.

WORLD OIL, vol. 168, no. 2, February 1, 1969

Occurrence of oil in sedimentary basins--Part 2, by Dr. Carl A. Moore

Brazil develops new fields and stresses offshore exploration, by Dr. J. E. Rassmuss

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Special Report 94: Geology of the Desert Hot Springs--Upper Coachella Valley area, California, by Richard J. Proctor \$2.50

Bulletin 180: Sand and gravel in California. Part C--Southern California, by Harold B. Goldman. \$2.00

WASHINGTON DIVISION OF MINES AND GEOLOGY

Bulletin 58: Chemical and physical controls for base metal deposition in the Cascade Range of Washington, by Alan Robert Grant \$1.50

Map GM-5: Geology of the Chewelah Mountain quadrangle, Stevens County, Washington \$1.00

THE ORE BIN, vol. 30, no. 12, December 1968

Reconnaissance geology of the Snake River Canyon between Granite Creek and Pittsburg Landing, Oregon & Idaho, by Tracy L. Vallier

THE ORE BIN, vol. 31, no. 1, January 1969

Oil and gas exploration in Oregon, by V. C. Newton, Jr.

THE ORE BIN, vol. 31, no. 2, February 1969

Geology of the Newport area, Oregon, by Park D. Snavelly, Jr., Norman S. MacLeod and Weldon W. Rau

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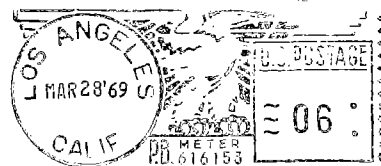
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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

May, 1969

Number 5

ASSOCIATION ACTIVITIES

REGISTRATION FOR GEOLOGISTS

Legislative Bulletin - Board of Geologists

The first Board of Geologists for the State of California has been appointed by Governor Ronald Reagan.

The Board is made up of six geologists and one public member. The members are:

- District 1 - Wilferd W. Peak
(Engineering Geologist,
Resources Agency, State
of Calif., Sacramento)
- District 2 - Ian Campbell
(State Geologist, Division
of Mines and Geology, San
Francisco)
- District 3 - Gardner M. Pittman
(Geologist, Getty Oil Co.,
Bakersfield)
- District 4 - John F. Curran
(Geological Consultant,
Santa Barbara)
- District 5 - Ted L. Bear
(Geological Consultant,
Bear and Kistler, Los
Angeles)
Glenn A. Brown
(Engineering Geologist,
Glenn A. Brown & Assoc.,
Tujunga)

Public Member - Joe Cosby

A substantial amount of time will be required to organize the physical facilities necessary for the operation of the Board, as well as to compile the application for registration and the attendant literature. It is recommended, in the interim, that geologists interested in registering make their interest known to the Department of Professional and Vocational Standards. Those persons contacting the Department will have their names added to the master list which the Department has been compiling. The Board will use this mailing list to contact and notify geologists.

Interested persons contact:

State Board of Registration For
Geologists
1021 O Street Room A 198
Sacramento, California 95814
Attention: Audria Stirn

Respectfully Submitted, Roland J. Bain
Roland J. Bain
Legislative Representative

Note: The master list referred to in the above letter is being compiled from the membership list of the Pacific Section, A.A.P.G. If you have not been a member of the Pacific Section and want your name placed on the Department's mailing list, contact the State Board. (Incidentally, you might join the Pacific Section at the same time).

Registration in California is open to qualified geologists from any part of the world.

PACIFIC SECTION AAPG ANNUAL SPRING BARBEQUE, FIELD TRIP, AND GOLF TOURNAMENT

General Chairman Mark Weidler, Shell, has announced that the annual spring golf tournament, field trip and barbeque will be held again this year at the Elkins Ranch Golf Course, Fillmore, on Friday, June 6, 1969. Golf starting times are available from 7 to 11:30 AM, cost is \$3.50 per person for green fees and prizes. Golf carts are available for \$7.00. Jim Taylor, Shell, is chairman for this event.

An outstanding field trip in the Sespe Creek field area has been arranged for non-golfers under the leadership of Stan Eschner, Occidental, assisted by Dave Ritzius of the Division of Oil and Gas. Some of the most interesting geology in California will be seen on this trip, including such features as the San Cayetano Fault, Coldwater Anticline, Topa Topa Anticline, a complete section of Tertiary sediments from Eocene to Pleistocene and one of the oldest and most unique oil fields in the state. The field trip will originate from the Elkins Ranch Golf Course about 8:30 AM and will return to the barbeque about 4:00 PM. There will be a maximum of geology and a minimum of riding on this trip. Field trip cost, although not yet finally set will be about \$4.00 including transportation, guide-book and lunch.

Charcoal broiled steaks and beer will be featured at the late afternoon barbeque dinner. Cost will be about \$4.00 per person.

This will be an event you won't want to miss. Last year 122 golfers, 121 field trippers and 281 eaters enjoyed the day. Lets have another big turn out. Reservation notices will be out shortly.

EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

Louis J. Simon	President
Rodney G. Colvin	Vice President
John N. Terpening	Secretary
Willis R. Brown	Treasurer
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D. E. Ritzius	Coastal Delegate
Tom W. Redin	Los Angeles Delegate
Bruce D. Brooks	Sacramento Delegate
John P. Gates	Alaska Delegate

ASSOCIATED SOCIETIES
Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST

Published monthly by the Pacific Section
American Association of Petroleum Geologists

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3132 18th Street, Bakersfield, Calif. 93306

EDITOR	William J. Hughs
Assistant Editors	Neil P. Carroll Peter J. Fischer
Selected Bibliography	Lucy Birdsall

CORRESPONDENTS

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Coast.....	Thomas K. Bjorkland
Los Angeles.....	Dennis R. Wiley
Northwest.....	Gerald W. Thorsen
Sacramento.....	
San Francisco.....	Charles M. Cross
San Joaquin.....	Rod Nahama
Membership	
Secretary.....	Barbara Tetard

PACIFIC SECTION CONVENTION - 1971

For those of you well organized enough to plan ahead of tomorrow we offer the following:

The Pacific Section, AAPG Convention - 1971 will be held in the Civic Auditorium in Bakersfield on March 31, April 1, 2 and 3, 1971 and not March 24-27 as previously reported. This avoids a conflict with the G.S.A. meeting in Riverside.

A.A.P.G. CONSTITUTION

At the meeting of the District Representatives in Dallas on April 13, 1969, the much discussed new constitution was adopted by a vote of 142 for and 7 against. Of the 19 Pacific Section Representatives, only 7 attended the meeting. Pacific votes were 4 for and 3 against. Final approval of the new constitution will be voted on by the general membership. We understand that an amendment committee has already been set up.

The following letter is published at the request of Bob Orwig so that all Pacific Section members may be aware of the feelings of their District Representatives.

April 9, 1969

Mr. Louis J. Simon
3350 Wilshire
Los Angeles, California

Dear Louis:

At the luncheon meeting held at the Pacific Section convention last month featuring a discussion by Dr. Conselman, there were in attendance fourteen District Representatives of the national AAPG. I consider this an excellent representation, especially in view of the conflict with GSA at Eugene, which expressed the avid interest on the part of West Coast District Representatives in society affairs. Subsequently I have polled these people as to their reaction to Dr. Conselman's explanations of the modified Constitution. By far, the majority are now in favor of approving this document in the Dallas meeting, after each had discussed the pros and cons with his constituents to the best of his ability.

It appears to me that the District Representatives are truly representing the will of the membership by their unbiased approach to this problem. In summary, most feel that the proposed Constitution, with the modifications published in the March issue of the Bulletin, is a vast improvement over the present one, and has ample provisions for amending as future conditions require. Should the revised Constitution fail to pass, it is the consensus that many years will pass before the momentum required to draft another version will be attained. Fortunately the issue of who authored this draft was put aside in favor of objectivity.

I earnestly request that this matter be reported on in some manner in the PPG so that members at large will understand the position taken by their representatives in Dallas, and will be fully knowledgeable of the issue when adoption of the Constitution comes to ballot.

E. R. Orwig, Acting Chairman
West Coast District Representatives

SAN JOAQUIN GEOLOGICAL SOCIETY

Newly elected officers for the San Joaquin Geological Society are:

President: Ernest W. Rennie, Jr.,
Consultant

Vice President: George H. Webb, Jr.,
Standard Oil Co.

Secretary: Bob Sanem,
Standard Oil Co.

Treasurer: Hal H. Nelson,
Superior Oil Co.

LOS ANGELES DISTRICT AAPG REPRESENTATIVES

Recently elected District Representatives for the Los Angeles District of the AAPG are:

Ted L. Bear, Bear & Kistler
William C. Gussow, Union Oil Co.
John A. Forman, Mobil Oil Corp.
Donn S. Gorsline, Univ. of So. Calif.
Thomas L. Wright, Standard Oil Co.

LOS ANGELES BASIN GEOLOGICAL SOCIETY

Newly elected officers of the Los Angeles Basin Geological Society are:

President: J. D. Traxler,
Signal Oil & Gas Co.

Vice President: Robert N. Hacker,
Consultant

Treasurer: John W. Bedford,
Texaco, Inc.

Secretary: James M. Saunders,
Getty Oil Co.

SACRAMENTO STATE COLLEGE

Dr. N. C. Janke, Head of the Department of Geology, Sacramento State College, says that the College now has a degree program in Geology starting in the Fall of 1969. Approval of this program comes after a long struggle.

Dr. Janke has our best wishes and hopes for continued success.

PERSONAL ITEMS

Darren W. Wales with Richfield in California 1955-62 and in Australia 1962-67 has been consulting in Sydney since 1967. His address is: D.W. Wales & Co. Pty, Ltd.
2203 Australia Square
Sydney, 2000, Australia

D.W. (Buzz) Fauntleroy has announced his resignation from the Board of Directors and office of Vice President for Exploration of the Cayman Corp. effective March 24, 1969. He is forming his own exploration company to operate primarily in Texas and California. His temporary address is 226 Tilden St., Los Angeles, Calif. 90049, Phone 476-2074.

The many friends of Jim Hassel, geologist for Jade Oil Co. in Los Angeles were saddened to hear of his death March 23, 1969 in Los Angeles.

The Occidental-Shell Bakersfield Volleyball rivalry long dominated by Oxy was shattered recently when Shell put together a wild upset. In an attempt to regain their old form and add a little height to their forward line Oxy has called up Jim Blom from their Libyan Farm Club.

Mr. Spencer Fine of Atlantic Richfield was a recent visitor to the L.A. Basin from Australia. He will be going to New York via the National Convention in Dallas. Mr. Joe Le Conte will also be attending the National Convention as Arco's representative from the L.A. Basin.

Mr. Mark Guinan has left Atlantic Richfield to return to Midland, Texas, with Signal Oil and Gas Company.

Mr. Harry C. Lee of Union Oil Co. of California is being transferred to Anchorage. Harry will be the District Exploration Geologist for Union's northern Alaska office. Mr. Tom W. Redin will replace Mr. Lee as District Exploration Geologist for the L.A. Basin.

Standard Oil of California downed Mobil Oil 18-6 in the first game of their inter-company softball league. Mobil, however, is getting tough and is determined to win at least 2 games of the series this year.

NURSERY NEWS

Mr. Jim Groom of Union Oil became the father of a 6 lb. baby girl, Sandra.

Mr. Bruce Ellison also of Union became the father of an 8 lb. baby boy, Dirk Andrew.

Editors Note:

We may be presuming, but what the hell. We'll bet that Mrs. Jim Groom was the mother of Sandra, and Mrs. Bruce Ellison was the mother of Dirk Andrew.

Ed and Betty Kiessling, Calif. Dir. of Mines & Geology, Los Angeles, became the parents of a red headed Kiessling named Kenneth, in March of this year.

NEW AAPG OFFICERS

Kenneth H. Crandall, pictured above, has been elected President of the American Association of Petroleum Geologists for the year 1969-70. Mr. Crandall recently retired as Vice President and Director of Standard Oil and Chairman of the Board of Chevron Exploration Co. of San Francisco.

Other officers for the coming year are:

Vice President:	Dr. Willis G. Meyer, Consultant, Dallas, Texas
Secretary- Treasurer:	Dr. James M. Forgotson, Jr., Petroleum Information, Inc., Denver, Colo. (re-elected)
Editor, AAPG Bulletin:	Dr. John Haun, Colorado School of Mines, Golden, Colo. (re-elected)

PACIFIC SECTION CONVENTION - 1969

The 1969 Pacific Section Convention appeared to be a great success with some 710 members and guests registered. Wives, exhibitors and speakers added another 203, making a total of 913 in attendance.

Entertainment Chairman Pat Fazio, McCulloch Oil Corp. and his assistant Mike Maxwell, also with McCulloch, are to be commended for their efforts during the Pacific Section Convention. Certainly the Ice Breaker was a great success, drawing an attendance of 614. Some 294 persons attended the dinner dance on Friday.

PACIFIC SECTION CONVENTION AWARDS

Members of the geological fraternity will be pleased to know that Lifetime Memberships in the Pacific Section AAPG were awarded to Ian Campbell, State Geologist and Mason L. (Mase) Hill, Mgr. of Exploration, International Atlantic Richfield, during the 1969 Convention.

Speaker awards at the Convention were presented as follows:

Best S.E.P.M. Speaker	Dr. Wolfgang H. Berger, Scripps Institution of Oceanography, California
--------------------------	---

A.I. Leversen A.A.P.G. Award:	Robert F. Dill, U.S. Navy Electronics Lab
----------------------------------	--

Best Student Paper awards accompanied by a \$25.00 check were presented as follows:

A.A.P.G.	Walter R. Merschat Ohio University
----------	---------------------------------------

S.E.G.	John K. Aldrich University of California at Santa Barbara
--------	---

S.E.P.M.	S. Robert Bere'skin University of California at Santa Barbara
----------	---

PACIFIC SECTION DUES

As most of you were apparently not aware, there were some attractive girls ready, willing and able to collect Pacific Section dues at the recent Pacific Section Convention. Because so many of you missed out at that time, the following letter presents a second opportunity.

Dear Fellow Pacific Section AAPG Member:

Enclosed is your renewal membership card for the fiscal year 1969-70. Kindly fill out the appropriate entries and return promptly with your check made out to the Pacific Section, A.A.P.G.

You will note there is no increase in dues. Your support is urgently needed as these monies are needed for items sponsored by the Pacific Section, including the P.P.G. Newsletter, Distinguished Lecturers, continuing education program, field trips, picnics, and other events.

Please fill out and mail now.

Thank you

L. J. Simon, President

The above letter is also being mailed out to the individual members.

As a matter of interest, as of March 24, 1969, the number of A.A.P.G. members not on the membership roll of the Pacific Section, but living and working within the area were located as follows:

Alaska-62	San Joaquin-48
Coast-29	Los Angeles-223
Pacific Northwest-60	North. Calif.-145

MERCHANTS PETROLEUM COMPANY

DAILY DRILLING REPORT

No 1817

MORNING TOWER

DAY TOWER

EVENING TOWER

Date.....192.....
 Lease No..... Well No.....
 Actual Depth 8 A. M.....Ft.
 Hole made.....Ft. Size Hole.....in.

Date.....192.....
 Lease No..... Well No.....
 Actual Depth 4 P. M.....Ft.
 Hole made.....Ft. Size Hole.....in.

Date.....192.....
 Lease No..... Well No.....
 Actual Depth 12 P. M.....Ft.
 Hole made.....Ft. Size Hole.....in.

FORMATION

Fromto.....Ft.....
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FORMATION

Fromto.....Ft.....
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 "to.....Ft.....

FORMATION

Fromto.....Ft.....
 "to.....Ft.....
 "to.....Ft.....

STRUCK

Water at.....Gas at.....Oil at.....
 Size Pipe in Hole.....in.....Ft.
 " " " "in.....Ft.

STRUCK

Water at.....Gas at.....Oil at.....
 Size Pipe in Hole.....in.....Ft.
 " " " "in.....Ft.

STRUCK

Water at.....Gas at.....Oil at.....
 Size Pipe in Hole.....in.....Ft.
 " " " "in.....Ft.

REMARKS:

REMARKS:

REMARKS:

*I am alive and well in Tierra del Fuego!!
 Now counting grey whales and
 writing my book "I WAS A PHYCOS RANA
 FOR THE R.B.I."*

Driller.

Driller.

SUPERINT

Jean B. Sauter, de Boul

When Water, Oil or Gas is encountered, Report AT ONCE to Superintendent

CALENDAR

May 5, 1969

STRATIGRAPHIC SEMINAR,
7:30 PM, Bakersfield College, Rm. 56,
Science and Engineering Bldg.,
Dr. Donn Gorsline, USC, "Sedimenta-
tion on the Continental Borderline".

May 5, 6 & 7, 1969

LOS ANGELES BASIN GEOLOGICAL SOCIETY,
Continuing Education Course,
Dr. D. R. Baker, "Origin and Migra-
tion of Hydrocarbons", Mobil Aud-
itorium, 612 S. Flower, Los Angeles,
2-6 PM, T.L. Wright, S.O. Co.,
La Habra, Chairman.

May 13, 1969

SAN JOAQUIN GEOLOGICAL SOCIETY,
New York Steak Barbeque and Meeting
American Legion Hall, 17th and L
Streets, Bakersfield. "Oil Field
Gravity Anomalies and Their Surface
Chemical Manifestations" - Dr. Thane
H. McCulloh, U.S.G.S.
Social Hour 5:30 P.M.

May 14, 1969

LOS ANGELES BASIN GEOLOGICAL SOCIETY,
Noon Luncheon Meeting - Roger Young
Auditorium, Dr. Donn Gorsline, USC,
"Sedimentary processes and Their Role
in the Formation of Future Source
and Reservoir Rocks".

May 21, 1969

COAST GEOLOGICAL SOCIETY,
Dinner Meeting, Ventura Women's Center
3451 Foothill Rd., Ventura, Social
Hour - 6:00 PM, Dinner - 7:00 PM,
Mr. James Stewart, Scripps Institute
of Oceanography, "The Sea Lab Project".

June 6, 1969

SPRING PICNIC,
ELKINS RANCH, VENTURA COUNTY, GOLF
TOURNAMENT AND FIELD TRIP. SEE DETAILS
IN SPECIAL ARTICLE.

PACIFIC PETROLEUM GEOLOGIST
PACIFIC SECTION. A.A.P.G.
P.O. BOX 17486. FOY STATION
LOS ANGELES, CALIF. 90017

BIBLIOGRAPHY OF RECENT PUBLICATIONS

CALIFORNIA DIVISION OF OIL AND GAS

SUMMARY OF OPERATIONS, CALIFORNIA OIL FIELDS,
vol. 54, no. 1, 1968

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Cheviot Hills oil field, by Robert E. Crowder

Hopper Canyon oil field, by Murray W. Dosch

Barham Ranch oil field, by Elbert R. Wilkinson

Southeast area of Tejon oil field, by J. A. Barnes

Chico-Martinez oil field, by James R. Weddle

East Temblor oil field, by . E. Land

Temblor Ranch oil field, by P. E. Land

Five Points oil field, by F. L. Hill.

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Mineral Information Service, vol. 22, no. 4, April
1969.

Earthquakes and the structural features of nor-
thern California, by Bruce A. Bolt.

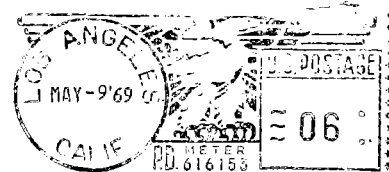
Where does the Hayward Fault go?, by Thomas H.
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Geology of the Sierra Nevada. Part 2, by Paul C
Bateman.

Map Sheet 11: Geology of a portion of western Marin
County, California, by Harold J. Gluskoter.
\$1.50

FORTUNE, vol. 79, no. 4, April 1969

The hot oil rush in Arctic Alaska, by Jermy Main.



RICHARD L. HESTER
PAULEY PETROLEUM INC.
10000 SANTA MONICA BLVD.
LOS ANGELES, CAL 90067

PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 2 3

June, + 1969

Number 6

ASSOCIATION ACTIVITIES

REGISTRATION FOR GEOLOGISTS

Legislative Bulletin - Board of Geologists

On April 30, 1969, California's first Board of Geologists was sworn in. The State's new Director of the Department of Professional and Vocational Standards, Leighton Hatch, administered the oath of office to the six geologists and the one public member, and appointed Dr. Ian Campbell as temporary chairman. The ceremonies were prefaced by brief introductory remarks by Mr. Hatch and by Assemblyman William Ketchum.

The Board's first order of business was to elect a chairman and vice chairman. Wilferd Peak, Engineering Geologist with the State Division of Safety of Dams (Resources Agency) was elected chairman, and Ted Bear, Los Angeles Geological Consultant, was elected vice chairman.

The following are pertinent points and decisions developed during the day-long meeting:

1. The Board scheduled 3 meetings for the immediate future;

May 19 - Business and Professions Bldg.,
Sacramento
June 9 - State Bldg., Los Angeles
July 1 - Port Authority Bldg. (Ferry Bldg.)
San Francisco

All meetings are open to the public.

2. The cut-off date for registering under the provisions of the "Grandfather clause" is November 13, 1969.
3. Forms (application and literature) should be ready for distribution on or about June 1.
4. The Filing Fee is \$40, payable at time of filing of formal application.
5. No decision has been reached as to the biennial Registration or Renewal Fee.
6. The Board is anxious to employ an Executive Officer (formerly known as Executive Secretary). This position is a Civil Service, Exempt (no exam), one. It is anticipated that the position will be a full-time one for two years. Thereafter, it is expected that the Board will require the services of the Executive Officer on a part-time basis only. As is done with other boards, the Officer can be shared with one or more boards depending on the work load.

The position will pay between \$11,000 and \$13,000 per year. The salary and other details are being worked out by the Department at the present time.

Individuals interested in obtaining information regarding this key position should contact Mr. Howard Winslow, Temporary Executive Officer, State Board of Registration For Geologists, 1021 "O" Street, Sacramento, 95814. All inquiries will be held confidential.

The Board's Executive Officer need not be a geologist. Some experience in administration would be beneficial. The Executive Officer will manage the details of registration and will prepare the agenda for Board meetings.

On May 19, 1969, the Board of Geologists met in Sacramento. The following key points were brought out:

1. Forms for registration will be ready shortly after the 1st of June. These forms will be sent to those geologists who have contacted the Department of Professional and Vocational Standards (P & V). In addition, registration forms will be available in P & V offices in San Diego, Los Angeles, San Francisco and Sacramento.
2. The Registration Fee has been fixed at \$40 (biennial). This is not to be confused with the application filing fee which has also been set at \$40.
3. Engineering Geologists will pay an additional \$5 every two years for their specialty certificate.
4. The cut-off date for receipt of "letters of interest" regarding the Executive Officer position is June 1.
 - A. P & V has approved this position on a full-time basis for 1 year. A review is to be made after 1 year.
 - B. The position will pay \$1100 to \$1337 per month depending on the applicant's qualifications.

As of the May 19 meeting, P & V had received 1300 inquiries regarding registration, from both in and out-of-state geologists. It is anticipated that 2000 geologists will register this year.

The next Board meeting will be held in Los Angeles on June 9 at the State Building. The meeting will be open to all interested parties.

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REGISTRATION FOR GEOLOGISTS

Pacific Section President L. J. Simon reports that in spite of various public statements to the contrary, Ted Bear has told him that the article on registration procedure for geologists in last month's PPG newsletter is correct. However, geologists wishing early registration may apply to: State Board of Registration for Geologists, 1021 "O" Street, Room A198, Sacramento, California 95814, Attention: Audria Stirn. These applications will be handled prior to contacting those geologists on the master list, which was compiled from the membership of the Pacific Section AAPG. If you were a member of the Pacific section AAPG in 1968, you will be contacted automatically.

PACIFIC SECTION MEETING
AWARD WINNERS

The March annual joint meeting of the AAPG, SEG, and SEPM was a success in many ways. The following is a list of award winners,

A.I. Levenson Award	Dr. Robert F. Dill U. S. Navy Electronics Laboratory
AAPG Student Award	Walter R. Merschat Ohio University Graduate Student
SEG Award	John K. Aldrich U.C.S.B.
SEPM Award	Dr. Wolfgang Berger Scripps Institute of Oceanography
SEPM Student Award	S. Robert Bereskin U.C.S.B.

The AAPG Life Memberships went to Mason L. Hill of Atlantic-Richfield Oil Company, and Dr. Ian Campbell of the California Division of Mines.

The SEPM Life Membership went to Dr. R. M. Kleinpell, of the University of California at Berkeley.

The SEG Life Memberships went to W. L. (Matt) Matjasic of Getty Oil Company, and Curtis Johnson of Western Geophysical.

ERRATA

Corrections are necessary for the following slip-ups in last month's P.P.C. Newsletter:

Pat Fazio was General Chairman of the 1969 Pacific Section Convention not Entertainment Chairman as stated on page 3.

J. D. Traxler, Robert N. Hacker, John W. Bedford and James M. Saunders are President, Vice President, Treasurer and Secretary respectively, of the Pacific Section of the A.A.P.G. and not of the Los Angeles Basin Geological Society as stated on page 4.

COMMENT FROM THE PAST

Speaking of oil upon the waters, on page 54 of "California, A Literary Chronicle, 1968," author W. Storrs Lee writes of George Vancouver in 1792:

"A century ahead of his time, he was probably the inadvertent discoverer of California oil, when he sailed into a vast oil slick on Santa Monica Bay and noted that 'the surface of the sea which was perfectly smooth and tranquil, was covered with a thick slimy substance,' resembling 'dissolved tar' and smelling strongly of 'burning tar or some such substance': it covered the ocean, he claimed, 'in all directions within the limits of our view,' but he was content to let it stand as one of the unexplained phenomena of the New World."

Patricia A. Warren, historical curator for the county, recently read the passage to her adult class in California history at Pasadena City College.

ELECTION OF DISTRICT REPRESENTATIVES

Eighty-four geologists have been elected by the American Association of Petroleum Geologists as District Representatives and members of the association's business committee.

The District Representatives, selected from every geographical area where there are significant numbers of members of the world's largest geological association, act as local liaison with the officers and headquarters of the AAPG, and assist the organization in screening applications for membership and for professional certification.

The newly elected Representatives for the west coast area; to serve from July 1, 1969, to June 30, 1971, are:

Alaska	Charles E. Kirschner Anchorage, Alaska
Los Angeles	Ted L. Bear Los Angeles, California John A. Forman Santa Fe Springs, California Donn S. Gorsline Los Angeles, California William C. Gussow Fullerton, California Thomas L. Wright Fullerton, California
Northern California	Bruce D. Brooks Sacramento, California
Pacific Northwest	V. Standish Mallory Seattle, Washington
San Joaquin	Robert C. Blaisdell Oildale, California James R. Weddle Taft, California
Santa Barbara	Richard B. Haines Ventura, California



New officers of the San Joaquin Geological Society: Left to right, back row, Ernest W. Rennie, Jr., President; George H. Webb, Jr., Vice-President; Bruce Robinson, Jr., Pacific Section Representative. Front row, Robert E. Sanem, Secretary; Hal H. Nelson, Treasurer.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

The Northern California Geological Society conducted an all day Field Trip to Mt. Diablo and the area of Camp Parks proposed (but not selected) proton accelerator site on May 17, 1969. The Mt. Diablo portion of the trip was conducted by Earl H. Pampeyan of the U.S.G.S. and the Camp Parks Area was covered by H. A. Wollenberg of the Lawrence Radiation Laboratory at Berkeley.

Thirty-six persons were on the trip which included a wine tasting visit to the Wente Brothers winery and an evening dinner in Livermore. President-elect Ken Crandall of the AAPG was one of the participants.

PERSONAL ITEMSMOBIL

Dave and Pat Olson are the proud parents of twin baby girls, Deanne and Deborah, born February 27, 1969.

Mike Acosta and Jim Wildharber are in Houston attending advanced logging school. Rumor has it that they are enjoying Houston more than logging school.

John (Bull) Forman has once again assembled a powerhouse Mobil softball team. Although there are a number of new faces on the team this year, the results are the same. Mobil's first victory is being anxiously awaited.

STANDARD

Marshall Ayres has been transferred to the Chevron Overseas Office in San Francisco.

UNION

Mr. Harry C. Lee, District Exploration Geologist, has been transferred to Anchorage, Alaska, in the same capacity.

Mr. Jack Mayhew, a trainee for the International Division, has joined the staff at Santa Fe Springs for his training.

The 34th Annual Standard Oil (La Habra) Producing-Land-Exploration Spring Golf Tourney was held April 19th at the Rancho Bernardo Golf Course and Country Club. Over 50 golfers participated in this popular event. Fred Kalenborn (Huntington Beach) and Bill Sauer (Huntington Beach) won low net honors in the 1st and 2nd Flights. Bob Lindblom shot low gross with 75. The Women's Flight was won by Cleo McCroden.

Gregg Calkins (Standard-La Habra) is recuperating at home after a back operation. This has reduced considerably his softball and bowling efforts to sideline managing like other geologists who are too old to play.

BRIGHTON, ENGLAND MEETING

Geologists from around the world will hold an important forum on oil exploration in Europe and Africa when the American Association of Petroleum Geologists, and the Institute of Petroleum (London), and the Petroleum Exploration Society of Great Britain, meet jointly in Brighton, England June 29-July 2.

Michel T. Halbouty, Houston, Tex., geologist, consultant and producer, who is U. S. General Chairman for the meeting, described it as "an important gathering of the geological profession where the American Association of Petroleum Geologists will, again, assert its world-wide interest in the vital search for oil."

In four days of meetings, the geologists will study in detail the petroleum geology of virtually every corner of Europe and the giant fields of North Africa.

Interestingly, the "changing of the guard" for the AAPG will take place during the meeting.

Dr. Frank B. Conselman, of Abilene, Texas, incumbent AAPG president, will continue to function until June 29 and 30. But then his term of office ends, and Kenneth H. Crandall of San Francisco will assume the reins for the remaining two days' sessions.

The AAPG already has members in 84 countries, and Halbouty reports that so far 29 nations are represented by registration at the meeting.

The papers to be presented not only cover the geology of such important free-world oil production areas as North Africa, the North Sea and the basins of Germany and Austria, but exploration activity behind the Iron Curtain, in the Soviet Union, Poland, Hungary and Yugoslavia. Dan C. Ion, president of the Institute of Petroleum of London, will be chairman of the opening session.

The program includes a series of historical tours designed for wives and a post-convention schedule of airplane and bus tours of areas of geological importance in Great Britain and also in Continental Europe.

REMINDER - SPRING BARBECUE

Don't forget the annual Spring barbecue, field trip and golf tournament, Friday, June 6, 1969. Field trip starts at 8:30 a.m. from the parking lot, Elkins Ranch Golf Course. Cost is \$5.00 including transportation, lunch, beverages and guidebooks.

After surveying the route, President Louis Simon suggests comfortable walking shoes will be appreciated for some of the short hikes on the itinerary. The luncheon area contains a beautiful swimming hole, according to Louis, and he recommends bringing along swimming trunks.

The golf tournament starts at 7:00 a.m. and costs \$4.50.

The barbecue starts at 4:00 p.m. Dinner will be served at 6:00 p.m. Cost is \$4.00 and includes hors d'oeuvres, steak dinner and beverages.

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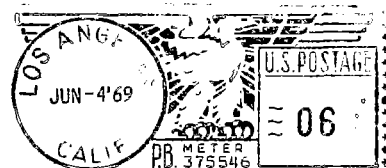
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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

July, 1969

Number 6

ASSOCIATION ACTIVITIES

PACIFIC SECTION SPRING PICNIC

The annual Pacific Section AAPG Spring Field Trip, Golf Tournament and Barbeque was, from all reports, a resounding success. This event was held June 6, 1969 at Elkins Ranch Golf Course, Fillmore, California.

Mark Weidler, Shell Oil Company, General Chairman of the days festivities, is to be commended for a job well done. Sharing the honors with Mark are the chairmen of the various events.

For those who wonder about the expense of this yearly blast, the following may be helpful:

Barbeque - Chairman: Gene Shaw, Shell Oil Co.
Receipts \$2,289.00 Expenses \$2,559.28
(354 served)

Golf - Chairman: Jim Taylor, Shell Oil Co.
Receipts \$ 671.50 Expenses \$ 682.30
(148 players)

Field Trip - Chairman: Stan Eschner, Occidental Pet. Corp.
Assistant: D. Ritsius, State Div. of Oil & Gas
Luncheon: Jack Durrie, Getty Oil Co.
Jim Saunders, Getty Oil Co.
Receipts \$ 876.00 Expenses \$ 876.00
(151 attending)

Raffle
Receipts \$ 380.00 Expenses \$ 163.24

Other (unsold guidebooks transferred to Treasurer)
Receipts \$ 84.00

Total Receipts \$4,300.50
Total Expenses 4,280.82
Net Profit \$ 19.68

The rather odd coincidence of the field trip expenses being equal to the receipts is due to the generosity of Occidental Pet. Corp. in underwriting the cost of the guidebooks and making them available to members at a price considerably less than the actual cost of preparation.

Bob Knapp of Standard did a wonderful job of soliciting contributions to the tune of \$1,045.00. Many thanks are due the following service companies for contributing to the success of our Geological Rite of Spring:

1. ABC Directional Control
2. Baroid Well Logging Service
3. Berryson Welfare Co.
4. Borst & Giddens Logging Service
5. Cook Testing Co.
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31. Welex
32. Western Geophysical Co.
33. Occidental Petrol. Co. - Guidebooks
34. Elkins Ranch Corp.
35. Santa Fe Drilling Co.
36. Core Laboratories Inc.
37. Pacific Oil Well Logging

Last but not least of those whose efforts contributed so much are those too numerous to mention who served the food, served the beer, computed the scores, etc.

As a last bit of incidental intelligence possibly valuable to those active in church groups or the P.T.A., 2,188 cans of beer were consumed by 354 people. This comes to 6.2 cans per person. (Better make that 7 cans, you know how flat .8 of a can of beer can get)

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Some 37 prizes were awarded in the golf tournament. Finishing in the top money were:

Low gross: Layne Howell, Tenneco, 70.
This one under par gave
Layne the Travelling Frank
Yule Memorial trophy as well
as the permanent trophy for
low gross.

Handicap Flight: Byron Anderson net 67
gross 82

Calloway Flight (gross less than 100):
Gerry Murrell net 72

Calloway Flight (gross over 100):
Charles Boise net 74

**OCEANOGRAPHY, GEOLOGY SHORT
COURSES SET FOR JULY AT UCLA**

Two courses in oceanography and one in geology are among the thirty short courses offered by UCLA Extension in July on the UCLA campus.

A comprehensive survey of marine data acquisition, communication, storage, analysis and processing systems will be presented in "Oceanographic Data Recovery and Processing Systems," July 21 to August 1, in Room 5272 Boelter Hall. The two-week course is designed for scientists, engineers, system analysts, information system analysts and programmers working with or interested in marine data systems.

"Underwater Acoustics" will meet at the same time in Room 1240 Knudsen Hall to examine the uses of underwater acoustics for ocean surveillance, sonar, and ocean engineering. An introduction to basic acoustics, the course will cover high energy fields and their production; design, construction, and evaluation of transmitting and receiving transducers; and signal processing.

Consulting engineers, civil engineers and land architects will be particularly interested in "Geology in Engineering Practice," July 28 to August 1 in Room 5704 Boelter Hall.

Experienced, practicing engineering geologists will provide a practically oriented survey course covering such areas as fundamental characteristics of rocks related to engineering characteristics, principles and recognition of processes of alteration, weathering, erosion, deposition and tectonics, and techniques dating past geologic events and forecasting future events.

During a day-long field trip, participants will view typical rocks and surficial deposits of the area, Modelo Formation, Topanga and Sespe Formations, major ancient and recent landslides, a proposed aqueduct tunnel and reservoir system, a proposed nuclear power plant site etc.

Further information is available by writing P.O. Box 24902, Engineering and Physical Sciences Extension, University Extension, Los Angeles, California 90024, or telephone 825-3344 or 825-1295.

REGISTRATION FOR GEOLOGISTS

The latest report from Ted Bear is that any geologist desiring to register in California will have to initiate the action himself. The Board of Registration will not contact members of the Pacific Section as was previously reported.

Those desiring to register should apply to: State Board of Registration for Geologists, 1021 "O" Street, Room A198, Sacramento, California, 95814, Attention Audria Stirn.

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UCLA TO OFFER SHORT COURSE IN OFFSHORE PETROLEUM

A one-week course in offshore petroleum exploration and development will be given September 15-19 by UCLA Engineering and Science Extension. The course is a survey of the offshore from a geological, geophysical, engineering and economic viewpoint, and will emphasize new developments.

Principal instructor is Robert S. Yeats, associate professor of geology, Ohio University, formerly with Shell in Los Angeles. Guest lecturers will include Donn Gorsline, University of Southern California (geological exploration on sea floor), M.B. Dobrin, United Geophysical Corp. (offshore geophysics), R.C. Crooke, Global Marine (offshore drilling), and C.J. Lakey, Mobil Oil (offshore economics). The course includes a one-day field trip to visit a platform and examine representative geological structures and reservoirs on the southern California coast.

The course is designed for individuals with a general technical background at the bachelors degree level, particularly engineers, scientists, or managers concerned with offshore petroleum problems. Further information is available from G.S. Bond, UCLA Extension, 6115 Math Sciences Bldg., Los Angeles, Calif. 90024.

TESORO PETROLEUM CLOSING OFFICE

Tesoro Petroleum Corporation announces the closing of its office at 531 California Avenue, P.O. Box 1848, Bakersfield, California 93303, effective May 23, 1969. Operations previously handled out of Bakersfield will now be handled out of Tesoro's Main Office: 8520 Crownhill Boulevard, San Antonio, Texas 78209, Telephone (512) 824-0261.

COAST GEOLOGICAL SOCIETY

Recently elected officers for the Coast Geological Society are:

President: Howard Stark, Consultant
Vice Pres: Tom Bjorkland, Shell Oil Co.
Secretary: John Harper, Shell Oil Co.
Treasurer: Mel Oksen, Continental Oil Co.

With the possible exception of a mid summer picnic the Society anticipates a rather tranquil summer.

COLVIN SHAKES THE TREE

Our outgoing Pacific Section Vice President, Rod Colvin, is to be congratulated on his recent membership drive. Rod sent notices to 575 geologists who were members of the AAPG but were not members of the Pacific Section. Some 100 have responded to date, and with cash in their hands, too.

PERSONAL ITEMS

John H. (Jack) Van Amringe, Union Oil, has been promoted to District Exploration Manager in Lafayette, La.

C.H. "Hap" Glidden is now Regional Exploration Manager for Union Oil in Los Angeles, replacing George Pichel who has been named Chief Geologist.

Ed East, Union's Exploration Geologist in Anchorage, has been appointed District Exploration Manager for the Houston District.

Clement D. Meserve died April 20th at the Huntington Memorial Hospital in Pasadena.

Mr. Jack Mayhew, a recent graduate of Colorado School of Mines, became a new member of the Union Oil geological team at Santa Fe Springs.

Mr. William G. Wendell has recently returned to Union Oil after leaving to finish his masters degree at Oregon State University.

Mr. J.D. Moore with Shell Oil was recently transferred from Los Angeles to Farmington. He may be reached at Shell's office at 705 W. Municipal Dr., Farmington, New Mexico 87401.

Mr. Mike Mickey, a recent San Diego State graduate, just joined Mobil's paleontological staff at Santa Fe Springs.

Mobil had a 2 game winning streak in the Standard-Mobil softball league. Will wonders never cease?

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PUBLICATIONS
Pacific Section, A.A.P.G. & Affiliated Societies

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- GB 9. Geology of the Big Mountain Oil Field and the Nearby Area, including notes on the trip from Piru to Big Mountain (AAPG) 1967. \$ 1.00
- GB 10. Gabilan Range and Adjacent San Andreas Fault (AAPG-SEPM) 1967. \$10.00
- GB 11. The Guidebook to the Geology and Oilfields of the Westside San Joaquin Valley (AAPG-SEPM) 1968. \$10.00
- MP 9. Directory - Pacific Section AAPG Membership (names, addresses, phone no's. and pictures) 1968. \$ 2.50
- MP 10. Directory Binder (same as 1964 binder) will call \$ 2.00
\$ 1.75

CROSS SECTIONS (\$2.00 each)

- CS 6. Sacramento Valley-North: (2 sheets) 1954. From T23N/R1W thru T16N/R1E.
- CS 7. Ventura Basin-Central (1 sheet) 1956. From T5N/R23W to T1S/R21W.
- CS 8. San Joaquin Valley-South (1 sheet) 1957. From T31S/R20E to T28S/R30E.
- CS 9. San Joaquin Valley-Central (1 sheet) 1957. From T21S/R12E to T15S/R23E.
- CS 10. San Joaquin Valley-Central (1 sheet) N 1958. From T4N/R3E to T18S/R20E.
- CS 10. San Joaquin Valley-Central (1 sheet) S 1958. From T18S/R20E to T10N/R19W.
- CS 11. San Joaquin Valley-West Side (1 sheet) 1959. From T19S/R15E to T8N/R23W.
- CS 12. Santa Maria Basin (1 sheet) 1959. From T11N/R34W to T5N/R34W.
- CS 13. Sacramento Valley-North-South (1 sheet) From T29N/R2W to T3N/R2E.
- CS 14. Los Angeles Basin (1 sheet) 1962. From T15S/R15W to T8S/R10W, SBB&M.
- CS 15. Sacramento Valley-Central (1 sheet) 1967. From T4N/R1W thru T4N/R7E.
- CS 16. Sacramento Valley-Northern San Joaquin (1 sheet) 1967. From T3S/R10E thru T8N/R1E.

GUIDEBOOKS

- GB 5. Geology of Southeastern San Joaquin Valley, California - Kern River to Grapevine Canyon (AAPG) 1965. \$ 4.00
- GB 8. A Tour of the Coastal Oil Fields of the Los Angeles Basin in and Adjacent to San Pedro Bay, California (AAPG-SEG-SEPM) 1966. \$ 3.50

MISCELLANEOUS PAPERS

- MP 1. San Andreas Fault Bibliography (AAPG) 1962. \$ 2.00
- MP 3. Selected Papers Presented to the San Joaquin Geol. Soc. Vol. 2, 1964. \$ 2.25*
- MP 4. Selected Papers Presented to the San Joaquin Geol. Soc. Vol. 3, 1965. \$ 2.25*
- MP 8. A Symposium of Papers Presented at the 40th Pacific Section AAPG Convention (AAPG) 1965. \$ 3.00

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**RICHARD L. HESTER DA
PAULEY PETROLEUM INC.
11000 SANTA MONICA BLVD.
LOS ANGELES, CAL 90067**



PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

August, September, 1969

Number 8, 9

LEGISLATIVE BILL REPORT

Below is a list of a number of bills and their final disposition in the 1969 legislative session. This list includes most of the bills of particular interest to the geology profession.

- AB-291 (Schabarum) - Trespass on Private Property. Killed in Assembly Criminal Procedures Committee.
- AB-454 (Davis) - Mining Operations. Dropped by author.
- AB-559 (Unruh) - Oil Pollution Liability. Killed in Senate Governmental Efficiency Committee.
- AB-622 (Badham) - Leases and Surveys. Passed both houses, now on Governor's desk.
- AB-804 (Brown) - Administration of Licensing Boards. Killed in Assembly Government Organization Committee.
- AB-833 (Burton) - Oil & Gas Severance Tax. Held in Assembly Natural Resources & Conservation Committee.
- AB-834 (Burton) - Limits Depletion Allowance. Held in Assembly Natural Resources & Conservation Committee.
- AB-1167 (Britschgi) - Tide & Submerged Lands. Held in Assembly Natural Resources & Conservation Committee.
- AB-1636 (Burke) - Oil Spills. Killed in Senate Natural Resources Committee.
- AB-1920 (Sieroty) - D.O.G. Oil & Gas Company Records opened to County Assessors and State Board of Equalization. Passed Legislature and signed into law by the Governor.
- AB-2180 (Ray Johnson) - Vocational Licensing. Killed in Assembly Commerce & Public Utilities Committee.
- ACR-41 (MacGillivray) - Emergency Oil Pollution Control. Passed both houses of the legislature and recorded by the Secretary of State.
- AJR-11 (Z'berg) - Offshore Oil & Gas Operations. Passed both houses of the legislature and recorded by the Secretary of State.
- AJR-36 (Dunlap) - National Oil, Gas & Mineral Severance Tax. Died because of no committee action.
- AJR-37 (Burke) - Oil Drilling. Passed both houses of the legislature and recorded by the Secretary of State.
- SB-57 (Grunsky) - Restricting Oil & Gas Leases on State-Owned Tide and Submerged Lands. Passed both houses of the legislature, waiting for Governor's signature.
- SB-69 (Carrell) - Disciplinary Action Against Licentiatees. Died in Senate Business & Professions Committee.
- SB-313 (Marks) - Public Meetings of Department of Professional and Vocational Standards Boards & Commissions. Died in Senate Government Efficiency Committee.

- SB-314 (Marks) - Public Meetings. Died in Senate Government Efficiency Committee.
- SB-420 (Rodda) - Geological Surveys of Subdivisions. Killed in Senate Business & Professions Committee. Referred to Senate Rules Committee for interim hearing.
- SB-443 (Lagomarsino) - Subdivision Maps. Killed in Assembly Commerce & Public Utilities Committee.
- SB-448 (Dolwig) - Tide & Submerged Lands. Held in Senate Government Efficiency Committee.
- SB-452 (Dolwig) - Tide & Submerged Lands. Held in Senate Government Efficiency Committee.
- SB-1041 (Moscone) - Seismic Safety Commission. Held in Senate Government Efficiency Committee. Referred to Rules Committee for interim study.
- SJR-9 (Lagomarsino) - State Inspection & Regulation of Offshore Oil & Gas Development. Passed both houses of the legislature, filed with the Secretary of State.

ANNUAL FALL SEPM FIELD TRIP

Put October 17th and 18th on your calendar for this year's SEPM field trip. Starting at 5:30 on Friday evening at the Oaks Hotel in Ojai, a happy hour will be followed by a prime rib dinner and several talks on the geology of the area to be covered on Saturday. These include: Bill Dickinson "Geological Problems in the area north of Ojai"; Dave Chipping "Lower Tertiary of the Sierra Madre Block"; Don Lowe "Upper Miocene gypsiferous and phosphatic beds". Field trip Chairman Bill Dickinson from Stanford has put together an interesting trip into the upper-Mesozoic drainage area, from Ojai to Pine Mountain along Highway 33. This is spectacularly rugged and colorful country and the geology will include Upper Cretaceous to Upper Miocene beds found in three east-west trending structural blocks within the transverse ranges. Bill is putting together a guide book that will include new contributions on the area by himself, Don Lowe (U.S.G.S.), Dave Chipping (U.C.Davis), Willard McCracken (Stanford graduate student), John Harper and Peter van de Kamp (Shell Development).

Although final costs are not yet available approximate costs will be \$6.00 for dinner Friday evening and \$6.00 Saturday for transportation, lunch, drinks, and guidebooks.

ANOTHER SEPM BARGAIN OF THE YEAR!

EXECUTIVE COMMITTEE, PACIFIC SECTION
AMERICAN ASSOC. OF PETROLEUM GEOLOGISTS

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Robert N. Hacker	Vice President
James M. Saunders	Secretary
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ASSOCIATED SOCIETIES
Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST

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American Association of Petroleum Geologists
Change of Address, subscription and membership inquiries should be addressed to:
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P. O. Box 17486, Foy Station, Los Angeles,
California 90017

Material for publication and requests for missed copies should be addressed to: Peter J. Fischer, Department of Geology, Whittier College, Whittier, California 90608

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Secretary	Barbara Tetard

PRESIDENT'S REPORT

As stated in our Constitution the object of Pacific Section is "to provide for discussion of subjects and problems coming within the scope of the profession." In 1965 the Executive Committee recognized a need to help supply funds for distinguished lectures, continuing education, and to help pay the mailing costs or other local society needs. Also it is recognized that the Executive Committee should exercise control over allocation of the memberships' funds.

Your present Executive Committee is committed to the guidelines outlined in 1965 (and reprinted herewith for your information:

1. The geologic societies presently located in cities where meetings are held, i.e., Anchorage, Seattle, Sacramento, San Francisco, Bakersfield, and Ventura will receive as a distribution of Pacific Section funds two dollars (\$2.00) per member per year with a minimum of one hundred dollars (\$100), whichever is the greater.

2. For this purpose a member of a geologic society is one who has paid his current dues to Pacific Section.

3. The money to be distributed to each society will remain with Pacific Section and be credited to the society. The

account will be closed at the conclusion of each annual meeting and a new account started. Funds will not be carried over from year to year. The use of funds made available herein are to be used to promote the objectives of the Pacific Section.

4. Should one or more geological societies be formed in the same city, or very closely located towns, the Executive Committee may at its option, disperse funds in a manner best suited to all the membership in that area.

5. Any society may, periodically, request the number of members on record for their group by writing to the Pacific Section Membership Secretary.

6. It will be recommended to the incoming officers that within thirty days after assuming office, the president shall notify the president of each of the societies the amount of funds to which that society is entitled based upon their membership or because of any other outstanding financial condition, with a statement of why the amount is more or less than the preceding year.

It should be pointed out that our present dues of \$3.50 will only cover the estimated cost of printing and distribution of the Pacific Petroleum Geologist. All other expenses (the \$2.00 rebate to local societies, association affairs, handling and storage of publications, membership secretary and legislative services) must be paid for from income derived from the sale of publications, the annual convention and interest. It has been demonstrated that these sources of income are not consistent nor are they reliable enough to forecast a sound budget. Consequently the other source of income must be examined.

Pacific Section dues have historically been less than other societies of similar stature and objectives. This fact is primarily due to the tight reign held on expenses coupled with other financially rewarding society activities. It now appears that we will be required to spend past savings to meet budgetary commitments for this year. I feel this is a precedent we should avoid if at all possible. The distasteful alternative is a dues increase (possibly \$1.50). Address your comments and criticisms to your representatives or to anyone on the Executive Committee

Doug Traxler

NOTICE

The Executive Committee has approved the reprinting of the Sespe Creek Guidebook. To insure delivery of your copy send \$6.00 to Publication Sales Chairman Don Hallinger, Pacific Lighting Service & Supply 720 W 8th Los Angeles 90017. Only a limited number will be reprinted depending upon your response.

COMMITTEE CHAIRMEN

The following are AAPG Pacific Section appointments for the ensuing year:

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La Habra, Calif. 90631
213+691-2251

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Shell Oil Company
196 South Fir Street
Ventura, Calif. 93001
805+648-2751

ORDER APPLICATION FORMS FROM

STATE OF CALIFORNIA—DEPARTMENT OF PROFESSIONAL AND VOCATIONAL STANDARDS

RONALD REAGAN, Governor

STATE BOARD OF REGISTRATION FOR GEOLOGISTS

1021 O STREET
SACRAMENTO, CALIFORNIA 95814
TELEPHONE: 916-445-1920APPLICATION FOR REGISTRATION AS A
GEOLOGIST

Fee: \$40.00 (Remit by Check or Money Order Only)

I also wish to be certified as an:

*Engineering Geologist ☒
☐
☐Submit this application before Grandfather Clause deadline 11/13/69.
THIS APPLICATION MUST BE TYPEWRITTEN AND SIGNED.

1. FULL NAME: LAST FIRST MIDDLE SENER DE BOUE JEAN DOMINIC		2. Social Security No.: 0-0-2-Short	
3. Permanent Residence Address: STREET AND NUMBER CITY STATE COUNTY ZIP CODE NO. 13 Avenue des Champs-Elysées Paris France Terrible Yes			
4. Business Address: STREET AND NUMBER CITY STATE COUNTY ZIP CODE NO. Wildrose Station - Box 397 Trona Calif. Inyo 93562			
5. Phone: RESIDENCE BUSINESS Two Long-One Short-One Long, Long Ring		7. Birthdate: MONTH DAY YEAR April 15, 1912	
6. Check Permanent Mailing Address: <input type="checkbox"/> RESIDENCE ADDRESS <input checked="" type="checkbox"/> BUSINESS ADDRESS		8. Place of Birth: CITY STATE COUNTRY Aboard the U.S.S. Titanic Atlantis	
9. List geologic or other registrations, licenses, etc., which you hold - issued by any governmental body in or out of the State of California. Do NOT include here certifications, etc., issued by any professional society or association:			
TYPE OF LICENSE	CERT. NO.	ISSUING AGENCY	DATE ISSUED
Top Secret	AB-600	C.I.A.	11/13/69
S.I.	7-11	Follis Bergere Pigalle	12/7/41
Unlimited	241	Queen Wilhelmina	2/29/37
REMARKS Very Questionable Limited to non-office hours or weekends. Select large fingered boys for dyke leaks			
10. College or University: (Refer to Section 7841(b) of Act)			
NAME AND LOCATION OF INSTITUTION	ATTENDANCE FROM TO	COURSE	UNITS
Wall Street Prep School, New York City, N.Y.	1928 1929	Business	92/3
Universite de Lyon, Lyons, France	1934 1938	Geologique	137/41
Stone/Woodhenge Institute Head Lands, England	1939 1941	Architecture	21/0
		Total Units	Qualifying Units in Geology

13. PROFESSIONAL AFFILIATIONS: I am a member with technical organization

NAME OF ORGANIZATION	
Stone In. Head Association	
Society of Economic Denezins	
Recluse Geological Society	
Assn. of Windy Corner Watchers	
14. Have you ever been convicted of a crime? (Exclude minor) If answer is Yes, explain fully under Item 18 or on a separate sheet.	
15. Have you ever had an application for registration or certification or revoked in any state, country, county, or city? If answer is Yes, explain fully. Beatty, Nevada revoked in 1963 for failure to provide information.	
16. List the names of three responsible geologists who are familiar with your character and business integrity:	
NAME	
Overturnd D. Betz	4633 Blaine
D. V. Grabenhorst	General
Sal Ting Zeemien	Box 1000

17. List the names and addresses of three responsible members of your profession with character and business integrity:

NAME
Mr. Hugh N. Krye
Miss Sandy Talus
Madam Golden Rose

18. REMARKS: Use this space for amplifying remarks and for necessary notes.

Item 14. Caught by California Highway Patrol scene of the Santa Barbara

State Fish and Game Wardens fishing and/or clamming in the area. Unable to prove Coccolitella was valid. Four days in longer but the prisoner's

Fined \$69.99 for possession of (californianus) out of season. These were received from who collected the reward leading to my whereabouts.

11. List number of years in (1) undergraduate study in the geological sciences; (2) graduate study or research; and (3) teaching college geology, which would count as additional qualifying experience under Section 7841(c) of the Act:			
NAME AND LOCATION OF INSTITUTION	UNDERGRADUATE STUDY (Years)	GRADUATE STUDY OR RESEARCH (Years)	TEACHING (Years)
WASPS, New York City, N.Y.	2		
U. de Lyons, France	4		
Stone In. Head Lands, England		2	2
12. PROFESSIONAL EXPERIENCE: (Refer to Section 7841(c) of Act) (List detail on attached sheet)			
NO. OF YEARS	NAME OF EMPLOYER AND SUPERVISOR	ADDRESS	
1	Bay Area Rapid Transit Windy V. Gappe	Ferry Strip San Francisco, Calif.	
4	Midnight Milling and Supply Co. Sal Ting Zeemien	Wildrose Station Box 397, Trona, Calif.	
3	Aquadive Consultants, Inc. Arkose Graywacke	Third Rock West Caylota, Calif.	
4	Consulting Associates Hugh N. Krye	1730 Oak Street Bakersfield, Calif.	
3	U.S. Geological Survey Dr. D. V. Grabenhorst	General Delivery Jackson Hole, Wyoming	
6	United States Division of State I. Will Givem	Fort Knox, Kentucky	

DEPARTMENT OF PROFESSIONAL AND VOCATIONAL STANDARDS

STATE BOARD OF REGISTRATION FOR GEOLOGISTS

Sacramento, California 95814

the grade of membership stated, of the following professional or
ons.

GRADE OF MEMBERSHIP	
Hardhead	
Affiliate	
Fellow	
Charter	
traffic violations under \$50.)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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ation or license denied, suspended,	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Entertainment License	
vide same.	
llar with your work as a geologist:	
ADDRESS	POSITION
Main Street	Geologist
ckwells Corner, Calif.	
al Delivery	Mgr. of Opns.
son Hole, Wyoming	
948529	Señor Geologist
ewater, Nevada	

of the community (not geologists) who can attest to your

ADDRESS
101 Weeping Willow Lane
Paradise, Calif.
5280 West Sunset Blvd.
Recluse, Calif.
Box 10-2-4
Ash Meadows, Nevada

I certify under penalty of perjury that the information
on this application, or any appended sheets, and on the
attached experience record is true and correct.

Signature of
Applicant _____
Date November 13, 1969

replies to questions on page 1 and 2. (append additional sheets as

way Petrol for speeding to the
a Incident. Fined \$55.00.

en arrested applicant for
i Searles Lake during dog days.
ophoridæ research project
the clink. Would have stayed
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son and under legal size limit.
an unscrupulous unnamed associate
offered recently for information

Your name SENTEUR De BOUE

Experience
record sheet No. 1

Experience

USE TYPEWRITER

Number each engagement in inverse chronological order, beginning with your present engagement in the practice of geology. Summarize each engagement—but provide sufficient detail to signify the degree of your responsibility and the nature of the geological decisions you have been required to make. Additional sheets may be used, as necessary, to describe your complete experience record.

ENGAGE- MENT No.	DATES		TOTAL MONTHS	NAME OF ORGANIZATION	
	from	to		ADDRESS	
1	1967	1969	15	Bay Area Rapid Transit System Ferry Strip, San Francisco, California	
				NAME OF SUPERVISOR ADDRESS	Windy V. Cappe 1 Market St., San Francisco, Calif.

SUMMARY OF ENGAGEMENT:

Detailed mapping and section work along spring line of the lower Market Street BARTS. This work conducted in cooperation with the efforts of the California Earthquake Prediction Society. Last prediction of April 13, 1969, caused a minor evacuation when all right lateral movement on the San Andreas fault was to be converted to dip slip down to the basin. Some have concluded this theory was influenced by the recent increase in real estate values of the newly established resort Las Vegas-By-The-Sea.

ENGAGE- MENT No.	DATES		TOTAL MONTHS	NAME OF ORGANIZATION	
	from	to		ADDRESS	
2	1963	1967	55	Midnight Supply and Milling Co. Wildrose Station, Box 397, Trona, Calif.	
				NAME OF SUPERVISOR ADDRESS	Sal Ting Zeemien Box 3948529, Greenwater, Nevada

SUMMARY OF ENGAGEMENT:

Presented a detailed description of the late Pleistocene micro-organism *Coccolithophoridae dinoflagellidae*. This fauna was found in deep water near Westend in a land-locked environment. Also, conducted original research in the density currents found in Searles Lake.

ENGAGE- MENT No.	DATES		TOTAL MONTHS	NAME OF ORGANIZATION	
	from	to		ADDRESS	
3	1960	1963	38	Aquadive Consultants, Inc. Third Rock West, Gaviota, Calif.	
				NAME OF SUPERVISOR ADDRESS	Arkose Graywacke 6076 Via DeBajo, Lukesville, Arizona

SUMMARY OF ENGAGEMENT:

Scuba diving geologist for various California organizations. Mapped the nearshore area from Point Conception to Mugu. Made detailed geologic reports including maps and sections for 57 prospects in the Channel. Silent representative on various group shoots and core hole programs. Relief geologist on Mohole location south of Iceland. Resulting blowout has recently been named Sirtsey by the Topographical and Geographical Names Committee.

ENGAGE- MENT No.	DATES		TOTAL MONTHS	NAME OF ORGANIZATION	
	from	to		ADDRESS	
4	1956	1960	50	Consulting Associates 1930 Oak Street, Bakersfield, Calif.	
				NAME OF SUPERVISOR ADDRESS	Dr. Overturnd D. Betz 4633 Main St., Blackwells Corner, Calif.

SUMMARY OF ENGAGEMENT:

Geologist in charge of surface mapping, central San Joaquin Valley area, between Tehachapi and Simmler. Well site geologist for Ace Oil Company. Measured and documented thick Pleistocene section exposed along Highway 33. Job terminated when red and yellow jeep went over topless cliff and fell into one of the bottomless pools often found in the vicinity of Tulare Lake.

ENGAGE- MENT No.	DATES		TOTAL MONTHS	NAME OF ORGANIZATION	
	from	to		ADDRESS	
5	1953	1956	35	U.S. Geological Survey Washington, D.C.	
				NAME OF SUPERVISOR ADDRESS	Dr. D. U. Grabenhorst General Delivery, Jackson Hole, Wyo.

SUMMARY OF ENGAGEMENT:

Spent two seasons on detailed planetable work over and research in the tetons. Winter resports and laboratory experiments conducted in the geothermal area, Yellowstone Park. Final report presented as Occasional Paper entitled "Typical Paupageosynclinal Turbidites of the Upper Cretaceous Rancid Formation".

Lectures will be given on successive Tuesdays at 4:15 P.M. in Science Lecture Hall 102

- Sept. 30. Raymond L. Knight
Data Processing and Services
supervisor, Mobil Oil Corp.
California Area Exploration
"Gas Show Pattern at McMullen Ranch,
Sacramento Valley"
- Oct. 7. Dr. H. Mark and Dr. J. Mattson
Dept. of Chemistry
University of Michigan
"Infra-red Spectroscopy of Suspen-
ded Marine Sediments, Minerals,
and Organic Materials"
14. Dr. Richard Casey
Associate Professor
San Fernando Valley State Col.
"Paleo-oceanographic Significance
of Radiolarians in Santa Barbara
Basin"
21. (a) Dr. Sigmund Snelson
Staff Geologist
Shell Development Company
"Oil Exploration in North Alaska"
(movie)
(b) Award of Clements Scholarship
28. Dr. James L. Bischoff
Assistant Professor
USC
"Red Sea Geothermal System"
- Nov. 4. Dr. Bernard W. Pipkin
Senior Lecturer at USC and
Consulting Engineering Geologist
"Electrical Conductance of Soils
Under Stress"

WANT A CHANGE?

Suggestions for modifying the new Constitution and By-Laws are due to August Goldstein, Jr. by October 15, 1969. "All suggested changes will be carefully considered..." according to Goldstein. Suggested changes should be sent to:

August Goldstein Jr.
c/o Lubell Oil Company
1033 Mayo Building
Tulsa, Oklahoma 74103

Note: The new constitution was published on pages 223-231 of the January, 1969 Bulletin, just in case you missed it.

Host Jack Wood, whose culinary skills are widely recognized, and Red Lagomarsino supplied the ingredients for another successful Coast Geological Society annual barbeque held on August 9, 1969 at the Lagomarsino Ojai Valley ranch. Fifty-four members and guests were present for an afternoon that included bocce ball, swimming, ping pon, pool and shuffleboard.

NOW HERE THIS!

TULSA -- Four major international societies concerned with exploration for oil and gas have joined together to form the Petroleum Geologists, American Association of Petroleum Landmen, International Oil Scouts Association, and the Society of Exploration Geophysicists.

The presidents of the four organizations with their respective staff directors met in Tulsa recently to organize the council.

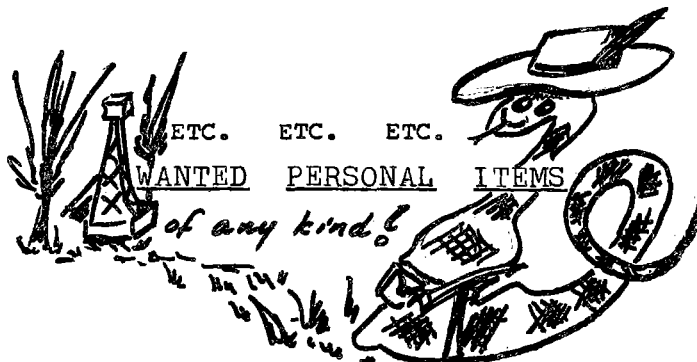
A joint statement was issued on the council's objectives:

"The organization will speak with one voice for those professional organizations charged with finding the nation's future energy requirements. The council, through a coordinated effort, will take steps to encourage and assist in the replenishment of our rapidly depleting reserves of oil and gas so that the nation's growing hydrocarbon energy requirements will be met."

PERSONAL ITEMS

The DON HALLINGER'S have a new addition, Deborah Lynn born June 9, 1969.

Rapture of the deep has a firm grip on DICK HESTER. To solve his malady he recently changed his address to Marine Resources Consultants, Inc., Santa Monica.



SUBJECT: Oil taxes

Percentage depletion has been on the federal law books for 43 years. And for 36 of these years, it has been vociferously attacked as an unfair "loophole" for avoiding taxes. It's happening again.

The attackers have been highly placed: Former presidents, cabinet members, lawmakers, college professors. As well as unwashed radicals, uninformed housewives, and entertainers who make poor jokes.

Congress through it all has refused to junk the provision or even modify it.

Why have the attacks by so-called tax reformers failed?

Several reasons.

Opponents haven't advanced a single new argument that wasn't thoroughly considered prior to passage of the 1926 measure.

Congress consistently has decided benefits outweigh costs.

Depletion also is tied closely to the basic concepts of our constitution. These are: Never tax capital. Tax only the income from capital. Taxing away capital is likened to killing the goose that lays the golden eggs.

Why then do the attacks persist?

Taxes are pinching everyone. They always go up. Never down. The bureaucratic tax-spenders as well as tax-burdened companies and individuals are eager to shut off tax avoidance to ease the pinch. It's easy to level an emotional diatribe against depletion and then hoot down any reasoned explanation of the complex issue.

That's why we must examine the issue constantly.

PERCENTAGE DEPLETION has two objects: Recover the producer's capital. And give him an incentive to drill more wells, find more oil.

How does it work?

Stripped of its emotional setting, percentage depletion is simply a deduction available to oil and gas producers—and producers of more than 100 other minerals—in figuring their taxes on income from wells.

The producer may deduct 27½% from the gross annual income of a lease or property. This is tax free. The figure, however, may not exceed 50% of the net income of the lease. This limitation actually prevents most producers from taking the full deduction. In practice, it averages only 23% and in many cases is much less than that.

This policy recognizes that oil in the ground is part of the producer's capital. It is like real estate. But this capital is used up—or depleted—by operation of an oil or gas well. The rate of deduction, when determined 43 years ago, was estimated as equal the capital value of oil in the ground. It's now probably less, and a higher rate would be more equitable.

Opponents, however, favor stripping depletion back until it assures the producer he will recover his actual investment or costs in a lease. After this amount is recovered over a period of time, deductions would end. The producer's income taxes would increase. Thus cost depletion would serve a function similar to depreciation.

This overlooks the unique position of oil as capital in the ground. It also ignores the unusual risks involved in finding replacement petroleum. Depletion encourages the producer to hunt new reserves—depreciation doesn't.

Say, for an example, an oil man recovered only his lease costs by deductions. He has no assurance he can take this fund, drill a single well and come up with any oil or gas. The odds are he will drill nine dry holes for every producing well. And what's more, he'll drill 46 marginal wells to every 1 that nets out a profit. Depreciation funds would melt quickly under these odds. But depletion funds from one good well give a producer the financial staying power to keep drilling.

WHAT WOULD HAPPEN if percentage depletion were ended?

It would drastically curtail the hunt for oil and gas. Our reserves would dwindle even more. Why? Because operators would become more selective and cautious in their drilling plans. They'd drill only the better prospects, shun the costly and high-risk ones.

BUT THE CRITICS CRY: "Some companies pay no income tax at all. That's unfair."

Let's examine this one carefully. It comes up every time taxes are mentioned. It's becoming cause celebre among oil-industry critics.

In the first place, any producer who completely escapes income taxes doesn't do so with percentage depletion alone. The "50%-of-net-income" limitation prevents that. So, he must use the benefits of other deductions—most likely the expensing of intangible drilling costs and write-offs for dry holes.

By way of explanation, drilling costs come in two kinds. Tangible drilling costs, such as cost of tanks, equipment, and structures, are

depreciated over the years. No argument here. Intangible costs, such as expense for wages, fuel, repairs, and all services, may be recovered the same way or as an operating expense in the year incurred. Most oil men elect to expense the intangibles. This allows them to get their money back more quickly to use in further operations. Expensing of intangibles does reduce the net income of the lease, even may create a loss. All this reduces the total subject to income tax.

There are a few facts, however, to keep in mind. The producer can deduct intangible expenses only once. They tend to reduce benefits of percentage depletion. And the producer, in order to have intangible deductions, must keep on drilling. This is exactly what the tax policies are designed to do—keep oil men drilling.

WHAT ELSE DO CRITICS find wrong about percentage depletion? What do they suggest?

Here are a few, and the answers to them.

- Depletion allows companies to offset income from other sources, escape more taxes.

Percentage depletion cannot reduce taxable income from any source except the one lease or property on which it is computed. Oil companies aren't escaping taxes even if the bite of the income tax is lighter on them. It may surprise many to know that the total tax burden of the petroleum industry actually is heavier than average. In 1966, oil paid \$2.5 billion in direct taxes. This \$2.5 billion amounted to 5.1% of gross revenue from all operations. The direct tax burden for all U.S. business corporations was only about 4.5% of gross revenue. This is about 10% less than the tax burden of petroleum. That plays hob with the contention that oil companies don't pay taxes.

- Oil profits are exorbitant. Too many oil millionaires are created by percentage depletion.

The average profit of 99 oil companies in 1968 was equal to a 12.9% return on net worth. This is below the 13.1% return on net worth earned by 2,250 manufacturing companies. There's certainly nothing exorbitant about this. Percentage depletion hasn't made oil millionaires. Oil fortunes rise from the combination in an individual of ability, stubbornness, and luck in finding oil. Success in finding oil is the key—not percentage depletion.

- Oil producers don't use tax savings to look for more oil and gas.

The figures show differently. Statistics indicate oil producers would pay \$1.3 billion more annually in taxes if present policies were ended. In the last 10 years, they have spent this—plus an average \$3.1 billion more on exploration and development.

- The depletion rate of 27½% is too high. Cut it to 20, 15, or 10%.

This is begging the question. A lower rate won't satisfy the critics. They'd be back at the next session to whittle away at the lower rate. As we've noted, the present rate probably already is too low to achieve an adequate return of capital. If it were lower, percentage depletion also would lose effectiveness as an exploration incentive. It would give oil men too little money to finance new drilling. Outside investors would fear other cuts. Uncertainty of their return piled on the normal risk of exploration would cool them on oil ventures. Exploration needs to be made more attractive to risk capital—not less.

- Eliminate all deductions and grant an outright federal subsidy to encourage exploration.

Can you imagine what kind of drilling program would emerge if it depended on annual appropriations from Congress? What a boondoggle this opens up! The drilling decision-makers would be bureaucrats who are subject to political pressure and not fitted by training or position to take risks involved. Where would the savings be in this approach?

THERE ARE OTHER arguments. None really new. All have been refuted time and time again. The fact they are being taken seriously is the big surprise.

It is especially surprising in view of the present low state of petroleum exploration. That's the new circumstance in the whole field.

Our reserves of oil and gas are dwindling at a time they should be rising twice as fast. Spending on exploration should be doubled. Oil and gas now furnish 75% of our nation's energy. We're using petroleum at such a clip that consumption is expected to double by 1980.

Tampering with any policy that encourages exploration for petroleum is courting disaster. The facts speak just as clearly and loudly as ever against changing either the rate or principle of percentage depletion. Congress will serve the nation best by again refusing to change this policy.

AMERICAN GEOLOGICAL INSTITUTE

2201 M STREET NW WASHINGTON, D. C. 20037 202-296-7950

August 26, 1969

On February 2, 1970, the AGI, operating under contract with the National Science Foundation, will mail to all geologists, geophysicists, and other earth scientists in the United States, the biennial "National Register of Scientific and Technical Personnel". The Register is maintained by the NSF by directive of the Congress, and the AGI is responsible for the Earth Science portion.

Information derived from the Register serves important needs in providing industry, educational institutions, and governmental agencies with a picture of the status of our professional and scientific activities. It is also used to identify individuals with specialized training and ability to serve our country in times of emergencies. Manpower studies of the AGI, and resultant reports, are in large measure based on analyses of the statistical data derived from the Register. These analyses provide our profession with information on supply and demand of earth scientists, educational, age, and service characteristics, salary ranges and medians, and an on-going picture of the mobility of our profession. Reports are regularly published in Geotimes.

pre-publication offer!

It is imperative that the RMAG know how many copies of the Geologic Atlas of the Rocky Mountain Region to order in this first — and probably last — printing.

It is equally important for the RMAG to receive payment for as many copies as possible in advance so that the Association can meet its financial commitments as they become due.

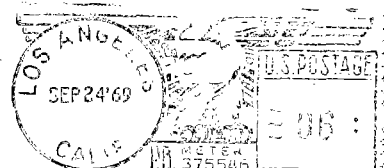
Therefore the RMAG earnestly requests that you

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at the pre-publication price — \$25 a copy (tax deductible)

Special notice: Once the Atlas is in print, copies will cost about \$35 each as long as the supply lasts. Requests for copies will be honored in the order in which they are received.

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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Volume 23

October, 1969

Number 10

ASSOCIATION ACTIVITIES

GEOLOGICAL SEMINAR ON THE NORTH SLOPE OF ALASKA

by
United States Geological Survey
under the joint auspices of

Pacific Section,
American Association of Petroleum Geologists
and
Northern California Geological Society

February 2 and 3, 1970
Cabana Motor Hotel, Palo Alto, California

Accommodations

Ample housing is available at the Cabana Motor Hotel and other motels along El Camino Real in Palo Alto. Prices range from \$8 to \$26 a night. Good eating facilities in every price range are located along El Camino Real. Cars will be necessary for transportation.

Tentative Schedule

In order to promote the exchange of ideas, a discussion period of 15 minutes has been allowed for each 30-minute paper. Prepared discussions are invited, and all spontaneous discussion is welcome. Plans to publish the papers and their discussions are being made.

Sunday, Feb. 1

5:00-7:00 pm Registration and no-host cocktail party

Monday, Feb. 2

8:00 a.m. Registration at auditorium

9:00 a.m. Opening ceremonies:

J. Douglas Traxler, President, Pacific Section, AAPG

Kenneth H. Crandall, President, AAPG

Harold L. James, Chief Geologist, U. S. Geological Survey

10:00 a.m. Coffee break

10:15 a.m. "History of Petroleum Exploration in Alaska", by George Gryc

11:00 a.m. "Depositional History of northern Alaska", by William P. Brosge

11:45 a.m. Lunch break

1:30 p.m. "Tectonics of the western Brooks Range", by Irvin L. Tailleux

2:15 p.m. "Geology of the eastern Brooks Range" by Hillard N. Reiser.

3:00 p.m. Coffee break

3:15 p.m. "Gravity and other regional geophysical data from northern Alaska", by David F. Barnes

4:00 p.m. Adjourn session

5:00-7:00 p.m. Cocktail party, Cabana Motor Hotel

Tuesday, Feb. 3

9:00 a.m. "Thermal problems related to economic development in permafrost terrain", by Arthur H. Lachenbruch

9:45 a.m. Coffee break

10:00 a.m. "Sedimentary history of Saddlerochit and Shublik Formations", by Robert L. Detterman

10:45 a.m. "Pre-Carboniferous carbonates of northern Alaska", by J.T. Dutro, Jr.

11:30 a.m. Lunch break

1:00 p.m. "Biostratigraphy and dolomite porosity trends of the Lisburne Limestone", by A.K. Armstrong

1:45 p.m. "Correlation of fold belts of Alaska, Canada, and Siberia", by Michael Churkin Jr.

2:30 p.m. Coffee break

2:45 p.m. "Reconnaissance geology of the Chukchi Sea as determined by acoustic profiling" by Arthur Grantz, S.C. Wolf, Lloyd Breslau, and Thomas Johnson.

3:30 p.m. To be announced

4:15 p.m. Adjourn session

Guided tours of the United States Geological Survey Research Center, 345 Middlefield Road, Menlo Park, Calif., will be offered sometime during the seminar. These will include the National Earthquake Center, and Marine Geology Unit.

All inquiries should be addressed to:

John C. Maher, General Chairman
U.S. Geological Survey
345 Middlefield Road
Menlo Park, Calif. 94025
Telephone: 415-325-6761, ext. 462

All reservations should be mailed to:

Fred R. Kelly
Division of Mines and Geology
Ferry Building
San Francisco, California 94111

ALASKA GEOLOGICAL SOCIETY

Newly elected Alaska Geological Society officers of 1969-70:

President-----Ernest B. Lian--Marathon Oil Co.
Vice-President---Alexander Sisson--Union Oil Co.
Secretary-----Robert Barker--Atlantic Richfield
Treasurer-----Dr. William Long--Alaska Methodist University

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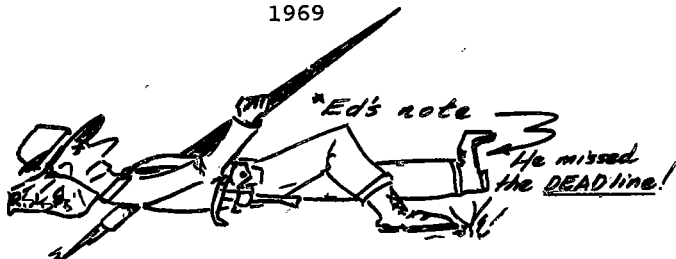
Orders for Pacific Section publications and prior years' issues of the PPG should be addressed to: Pacific Section Publications, 3132 18th Street, Bakersfield, California 93306

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DEADLINE FOR NEXT ISSUE:
NOVEMBER 12
1969



DUES*

***TRANSLATED MONEY VS. EXPENSES**

I have received several communications regarding our budget and will quote one geologist's idea in the hope of prompting additional discussion.

"In response to your request for comments about your report in the Aug.-Sept. issue of Pacific Petroleum Geologist, I wish to go on the record against a raise in dues. Though I am well aware of the general increase in cost of running our professional organizations, I have yet to see any of our leaders decide to cut back on some of the frills and desirable but unnecessary services. Always the response is the same--raise the dues. Well, I'm fed up with raises in dues. As a protest I have severed my membership in one professional society this year, and I will take similar action with my remaining affiliations unless you and other leaders take steps to live within your budget instead of socking us for additional dough every time the well starts to run dry."

We can solve our problem by limiting or transferring some of our expenses (which we have done) and live off of past savings (which we are doing). To further reduce expenses--the major one is this newsletter--means reducing our only means of communication. I feel we should promote communications, not decrease them.

Doug Traxler

NOTICE: AB 600 - REGISTRATION OF GEOLOGISTS

To avoid a written examination, that is to qualify under the "Grandfather Clause", qualified individuals must file applications by November 13, 1969. Applications can be acquired by interested individuals by writing directly to:

Howard C. Winslow
State Board of Registration for Geologists
1021 O Street
Sacramento, California 95814



INVITATION

The Pacific Coast Section of the Society of Exploration Geophysicists cordially extends an open invitation to an event that promises to be an outstanding symposium on "Seismic Waves from Vibrational Sources". Speakers will include John Crawford (Continental), Raymond Peterson (United), Enders Robinson (Digicon), Charles Dick (Western), Milton Dobrin (United - SEG), Jerry Harmon, Dick Maxwell (G.S.I.), John Bradshaw (Seiscom), John Cosgrove (Olympic), R.A. Broding (S.S.C.), Ed Zagst (Ray).

The symposium will be held on November 14 at the Proud Bird Restaurant, 11022 Aviation Blvd., Los Angeles, next to the Los Angeles International Airport. As with last year's "Velocity Symposium" the registration will begin at 0900 and will include lunch, reception, and dinner. To assure your reservation and a bound preprint edition of the papers, please enclose a check for \$13.00 to:

Mr. James Walker
Shell Oil Company
P.O. Box 3397, Terminal Annex
Los Angeles, California 90054

PHIL C. ORR, Curator of Geology at the Santa Barbara Museum of Natural History for the past 31 years, has retired from the Museum to devote full time as Director of the WESTERN SPELEOLOGICAL INSTITUTE. Orr will be remembered among Channel Island Oil Geologists for his thirty year study of the Pleistocene terrestrial deposits which cover oil-bearing strata with old dwarf mammoth bones.

WILLIAM G. KARDOS, formerly with Standard Oil Company of California in La Habra, California has joined King Resources Company as District Geologist of their West Coast office.

DON HAGEN, Texaco, has been recently transferred to Calgary, Alberta, Canada. As usual one house for sale--requires little yard upkeep.

At the last Coastal Geological Society meeting Doug Traxler, Signal, wasn't a bit bashful about picking up the first raffle prize bottle of booze, too chicken to pick up the second, and ask Jim Taylor who was sitting along side about the third--Is that luck???

JOHN LOOFBOUROW is now working for Westates Petroleum. He may be reached in the Global Marine headquarters building, 811 West 7th St., Los Angeles.

MRS. VIRGINIA LE ROY, a former Bakersfield resident, died while in Canada with her husband, William H. Le Roy. Services and interment were held in Bakersfield.

NURSERY NEWS

Jim Moore of Union Oil become the proud father of an 8-lb baby girl, Jennifer Anne.

BIBLIOGRAPHY OF RECENT PUBLICATIONS

JOURNAL OF GEOLOGY, vol. 77, no. 4, July 1969

Stream lengths and basin areas in topologically random channel networks, by Ronald L. Shreve.

JOURNAL OF SEDIMENTARY PETROLOGY, vol. 39, no. 2, June 1969

Modern marine carbonate sediment, Alexander Archipelago, Alaska, by C.M. Hoskin and R.V. Nelson, Jr.

Intrastratal solution and non-opaque heavy minerals in shales, by Harvey Blatt and Berry Sutherland.

Bioturbation of Holocene sediment on La Jolla Deep Sea Fan, California, by D.J.W. Piper and N.F. Marshall

The sedimentology of a braided river, by Peter F. Williams and Brian R. Rust

Calibration of the University of Southern California automatic recording settling tube by David O. Cook.

CALIFORNIA DIVISION OF MINES AND GEOLOGY

San Bernardino Sheet, Geologic map of California, Scale 1:250,000. Compiled by Thomas H Rogers (Folded or unfolded editions) \$1.50

U. S. GEOLOGICAL SURVEY

Professional Paper 669: The Colorado River region and John Wesley Powell. \$4.25

Professional Paper 383-C: Effects of tectonic structure on the occurrence of ground water in the basalt of the Columbia River Group of the Dallas area, Oregon and Washington, by R.C. Newcomb. \$1.25

Professional Paper 614-B: Isotopic composition of diagenetic carbonates in marine Miocene formation of California and Oregon, by K.J. Murata, Irving Friedman, and B.M. Madsen \$.75

Professional Paper 622-A: The behavior of straight open channels with movable beds, by Thomas Maddock, Jr. \$1.00

Professional Paper 670: John Wesley Powell and the anthropology of the Canyon Country, by D.D. Fowler, R.C. Euler and C.S. Fowler \$.50

Professional Paper 678: Permafrost and related engineering problems in Alaska, by O.J. Ferrians, Jr., Reuben Kachadoorian, and G.W. Greene \$.55

Bulletin 1211-C: Geology of proposed powersites at Deer Lake and Kasnyku Lake, Baranof Island, south eastern Alaska, by A.A. Wanek and J.E. Callahan \$1.00

Bulletin 1214-G: Element distribution in some Paleozoic black shales and associated rocks, by J. D. Vine. \$.25

Bulletin 1214-H: Element distribution in some trough and platform types of black shale and associated rocks, by J.D. Vine, E.B. Tourtelot and J.R. Keith. \$.30

Bulletin 1271-G: Reconnaissance geology of the Eagle A-1 and A-2 quadrangles, Alaska, by H.L. Foster. \$1.00

Bulletin 1274-I: Six new Paleozoic and Mesozoic formations in east-central Alaska, by E.E. Brabb. \$.25

Bulletin 1274-K: Summary of Cretaceous stratigraphy in part of the McCarthy quadrangle, Alaska, by D.L. Jones and E.M. MacJevett, Jr. \$.15

Bulletin 1320: Terrestrial impact structures--A bibliography, 1965-68, by J.H. Freeberg. \$.30

OPEN FILED REPORTS (inspection only)

Foraminiferal zonation and carbonate facies of the Mississippian and Pennsylvanian Lisburne Group, central and eastern Brooks Range, Arctic Alaska, by Augustus K. Armstrong, Bernard L. Mamet, and J. Thomas Dutro, Jr.

Preliminary investigation of gold mineralization in the Pedro Dome-Cleary Summit area, Fairbanks district Alaska, by H.D. Pilkington, R.B. Forbes, D.B. Hawkins, R.M. Chapman and R.C. Swainbank

Gold anomalies and magnetometer profile data, Ester Dome area, Fairbanks district, Alaska, by D.L. Stevens, R.B. Forbes, and D.B. Hawkins.

Petroleum potential of the Kandik Basin, east-central Alaska, by Michael Churkin, Jr., and Earl E. Brabb.

Analyses of stream-sediment and rock samples from the Fortymile area, Eagle quadrangle, Alaska, by Helen L. Foster and Sandra H.B. Clark.

Analyses of stream-sediment, rock, and soil samples from a part of the Seventymile River area, Eagle quadrangle, Alaska, by Sandra H.B. Clark and Helen L. Foster.

Dr. Manley L. Natland presented his paper titled "New Classification of Water-Laid Clastic Sediments" at the last meeting.

Because of their economic importance as petroleum reservoirs, water-laid clastic sediments may be classified usefully according to their mode of deposition, including transport, which determines to a great extent their lithologic composition. Although an infinite number of variables can affect deposition and composition, there are four principal processes of aqueous sedimentation which produce characteristic deposits herein designated as tractionites, gravities, turbidites, and hemipelagites.

A *tractionite* is a bed of clean, winnowed sand or coarse clastics deposited by moving water which sorts the particles as it sweeps or drags them along the bottom. Tractionites are prevalent in river beds, beaches, offshore-marine areas where bottom currents are strong enough to move coarse sediments. Ripple marks and other current-produced features are common. These beds contain little if any fine-particle matrix.

A *gravity* is a bed of poorly sorted clastics, ranging in size from clay to boulders, deposited by a sedimentary flow in which the motivating force is gravity that causes the sediment to move as a unit down a slope with sufficient gradient at speeds ranging from very slow creep to those of considerable momentum. Bedding features are poor because the particles are not in suspension and, therefore, are not able to respond hydrodynamically. Fossils, if present, are randomly oriented and scattered through the heterogeneous mass. If the velocity of movement becomes great enough, the sediments may be stirred sufficiently with water to form a suspension mixture capable of generating a turbidity current.

A *turbidite* is a well-graded sedimentary unit deposited rapidly from the suspended load of a turbidity current and includes all of the intervals, grading upward from coarse sand to silt and clay, resulting from a single flow. Because the prime motivating power of a turbidity current is the density differential between the turbid water with its suspended load and the clear water which it encounters, a turbidity current once generated can move along a flat bottom. Turbidites are well graded because particles in a suspension flow are able to respond hydrodynamically. If the suspended load includes a wide range of particle sizes, a "complete" turbidite is formed with at least three distinct divisions, the graded sand interval at the base overlain by the current-bedded interval and the pelitic interval. A turbidite is characterized by features indicating suspension flow, such as preferentially oriented megafossils, hydrodynamically sorted microfossils, and a high (10-30 per cent) silt-clay matrix in the graded sand interval. Turbidite contains only reworked faunas if faunas are present.

A *hemipelagite* is a layer of marine debris formed by the slow accumulation on the sea floor of organisms and fine terrigenous particles. Though a hemipelagic deposit generally caps a turbidite, the hemipelagite is not part of the turbidite but is indicative of an interval of quiet between turbidity-current flows. Its thickness is related to the time during which this type of sedimentation takes place without interruption. Hemipelagite contains the only indigenous fauna in the turbidite sequence.

Examples of the preceding sedimentary processes and deposits are discussed with the aid of slides and motion pictures.

SCOUTS RETIRE

On Friday, August 15, 1969, a retirement dinner for two long-time oil scouts was held in the Anacapa Room of the Pierpont Inn, Ventura, California. The honorees were Harry Williams and M. C. "Barney" Barnard.

Harry retired effective September 1, 1969 after a long career scouting for Shell Oil Company. Barney completed his scouting career with Atlantic Richfield Company on August 15, 1969.

Both Barney and Harry have been scouting for over 30 years, and a large group of their friends and associates of those many years were on hand to honor them.

After dinner, a presentation of identical attache cases was made to the honorees in recognition of their valuable service and contributions to both the California Coastal and Southern California Oil Scouts Association.

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

David J. Cerkel, President, announces the first mid-peninsula luncheon meeting of the Northern California Geological Society for Friday, November 14, 1969.

David A. Phoenix, U.S.G.S., will speak on "Remote Sensors and Geologic Problems" to a luncheon meeting at 11:45 at the Burlingame Hyatt House Hotel, 1333 Bayshore Highway, near San Francisco International Airport.

Reservations should be made with Livingstone Porter, Chevron Overseas Oil Co., San Francisco, at 434-7700, extension 5278; or with Robert D. Carter, U.S.G.S., Menlo Park, at 325-6761, extension 508.

USC Geological Forum

The Geological Forum at USC is held in Stauffer Lecture Hall 102 at 4:15 each Tuesday. Visitors are welcome.

- | | |
|---------|--|
| Oct. 28 | Dr. James Bischoff, USC
"Red Sea Geothermal System" |
| Nov. 4 | Dr. Bernard Pipkin, USC
"Electrical Conductance of
Soils Under Stress" |
| Nov. 18 | Dr. Bryant Bannister, U. of Arizona
"Tree Ring Research" |
| Dec. 2 | Dr. A.W. Bally, Shell Oil Company,
Houston
"History of a Dry Hole" |

PERSONAL ITEMS

Robert Kenneth Kassenbrock, 39, partner in Geologic Engineering Service Inc. died September 22, 1969, after a long illness. Services were held in Whittier, California. Many good friends in the petroleum industry attended and paid their last respects to a wonderful gentleman.

Wayne Elliott, paleontologist for Atlantic Richfield has announced he will take early retirement after 33 years of service. Wayne expects to do consulting in Los Angeles Basin.

Brian C. Kimmel has just joined Union Oil and is currently training at Union's Santa Fe Springs office. Brian is a recent graduate from the University of Illinois.

Jim Raske, also of Union, was recently transferred from Santa Fe Springs to Union's new Ventura office.

ARTHUR J. RICHARDS is now employed by the following company: Kern County Health Dept., Div. of Environmental Health, P.O. Box 997, Bakersfield, California, 93302

Beverly Hills, September 24, 1969 -- Morton A. Sterling and O.W. Fauntleroy today announced the formation of a consulting firm to be engaged in all areas of petroleum exploration, development, and management.

MR. GERALD E. MARRALL is now employed by the Etosha Petroleum Company, and is residing at South West Africa

MAPS

Geologic map of Arizona, by E.D. Wilson and R.T. Moore (Arizona Bur. of Mines) and J.R. Cooper (U.S.G.S.) 1:500,000 \$2.50

Map I-595: Geologic map of Oregon, by George W. Walker and Philip B. King. Scale 1:2,000,000 \$.25

Map I-572: Geologic map of the Teller B-4 and southern part of the Teller C-4 quadrangles, western Seward Peninsula, Alaska, by C.L. Sainsbury. \$1.00

GP 657: Aeromagnetic strip maps across the central Sierra Nevada, Calif \$.50

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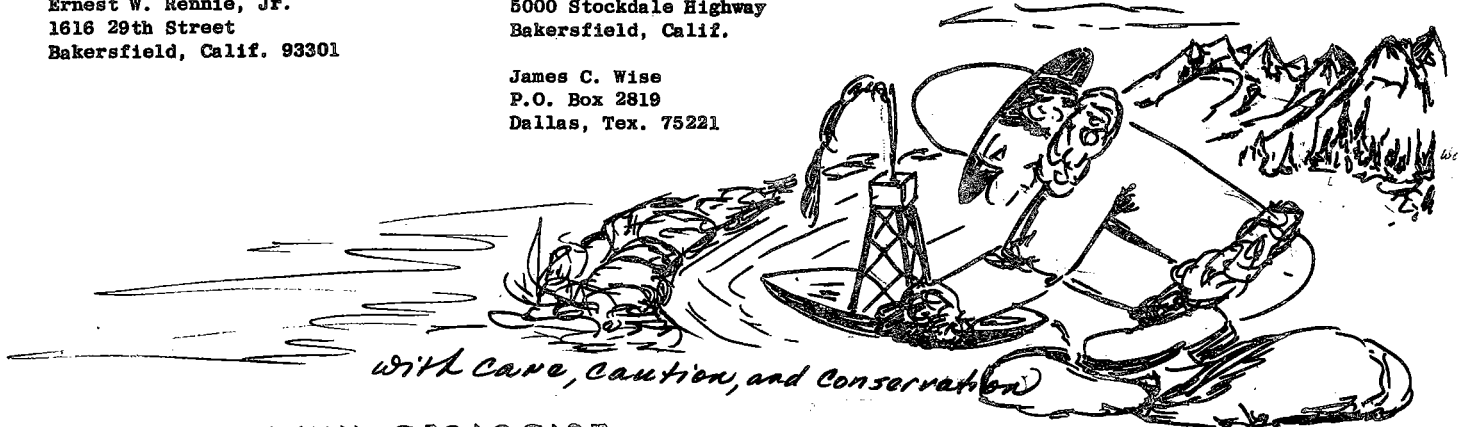
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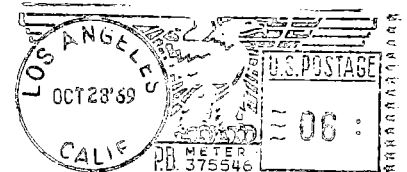
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PACIFIC PETROLEUM GEOLOGIST
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PACIFIC PETROLEUM GEOLOGIST

NEWS LETTER OF THE PACIFIC SECTION AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

VOLUME 23

NOVEMBER - DECEMBER, 1969

NUMBER 11 & 12

ASSOCIATION ACTIVITIES

FORTY-FIFTH ANNUAL MEETING
PACIFIC SECTION AAPG-SEG-SEPM
MARCH 19-20, 1970
NEWPORTER INN
1107 JAMBOREE ROAD
NEWPORT BEACH, CALIFORNIA 92660

The Annual Pacific Section meetings of the AAPG, SEG and SEPM will be held on March 19-20, 1970 in Newport Beach, California at the Newporter Inn. General Chairman John K. Cassell announces that the Convention theme will be "West Coast Exploration in the Computer Age". Make individual hotel reservations directly with the Newporter Inn reservation desk.

AAPG General Chairman, John K. Cassell, SEG Chairman, Dan O'Halloran and SEPM Chairman Alvin Almgren request that individuals who wish to present papers at the meetings contact their respective Chairman as soon as possible for additional information.

SEPM FIELD TRIP-A SMASH

The annual SEPM sponsored fall field trip and dinner meeting at Ojai turned out to be a huge success. Under the capable coordination of chairman, Jim Taylor, and the tireless efforts of the trip leader, Bill Dickinson, much interesting geology was made available to us under most pleasant circumstances.

After a delicious prime rib dinner Friday evening at the Oaks Hotel we settled down to a thorough orientation of the Upper Sespe Creek area by Bill Dickinson, Dave Chipping, Don Lowe, and Jim Ingle. Saturday morning we embarked on three buses and proceeded up over the summit of Pine Mountain to Ozena Station. En route we observed many excellent outcrops of Eocene Juncal, Matilija, Cozy Dell, and Coldwater formations and Oligocene Sespe. Valuable knowledge was contributed by Peter van de Kamp, Willard McCracken, and others at some of the stops.

On the way back down one bus load, guided by Don Lowe, split off from the group and took an interesting side trip to look at Miocene rocks of the Monterey and Santa Margarita formations.

For those of you who missed the trip, copies of the very fine guide book are still available for \$5.00 per copy. Contact King Nash, Treasurer, Pacific Section SEPM at Mobil Oil Corporation, 10737 South Shoemaker Avenue, Santa Fe Springs, California 90670, Telephone-AC213, 941-8751, Ext. 426.

DEPLETION

Calgary, Alberta--Reduction of the 27½ per cent oil and gas depletion allowance in the United States could cause a "serious crisis" in the geology profession in Canada, and even threaten the stability of that nation's dollar, a group of Albertan geologists warns.

GEOLOGY OF THE NORTHERN CHANNEL ISLANDS

The long awaited publication, "Geology of the Northern Channel Islands," by Donald W. Weaver, et.al. is now printed and available. From first-hand inspection, it appears to have been well worth the effort. It is a magnificent collection of maps, sections, photographs and written text on the geology and paleontology of the Channel Islands including 34 illustrated plates of the micro and megafossils encountered. It is truly a monument to West Coast geology and to the cooperative efforts of the many members of the Pacific Sections of AAPG and SEPM who made this publication possible.

Those of you who have pre-publication subscriptions may pick up your volumes from either Don Hallinger at Pacific Lighting Service Co. in Los Angeles or King Nash at Mobil Oil Corporation in Santa Fe Springs. Otherwise, you will eventually receive your copy in the mail when things are organized.

Don Hallinger, who is the new Publication's Chairman for AAPG, is now accepting new orders for the Channel Islands publication at \$13.50 per copy (mailed) including a set of geologic maps of the islands. Make checks payable to Pacific Section AAPG. Don's address is: Pacific Lighting Service Co., 720 West 8th Street, Los Angeles, California 90017, Telephone - AC213, 689-3649.

MERRY CHRISTMAS

Editor's Note

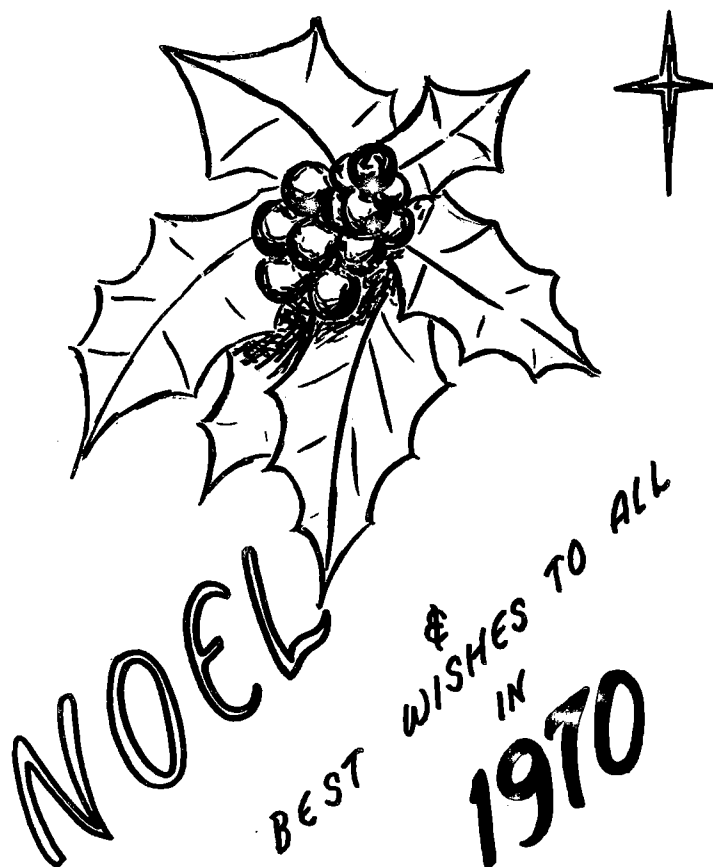
In January 1970 a new, revitalized and beautiful (?) P.P.G. newsletter will appear. Deadlines for new issues will automatically fall on the 25th day of the preceeding month. The new issue will be published and mailed to you during the first week of the month of publication. Comments, constructive criticism, and letters to the editor are invited.

Correspondence from any Pacific Section member, whether regarding personals from his company or an article for consideration, is urgently needed. A glance at the "personals" section of this issue will reveal an Alaskan domination-has the remainder of the Pacific Coast section become extinct? Regarding correspondence, it would considerably lighten the editorial (and Secretarial) load to have articles typed (IBM electric) single spaced and in columns 4½ inches wide. However, anything (/) would be better than nothing!

Abstracts or short papers of interest and previously unpublished will find a place in future issues. If you wish to rush into print please submit your copy to the editor. (A copy of the style and format suggested is available upon request)

A last word-we are in need of another assistant editor and a cartoonist. Please contact the editor at (213) 693-0771 extension 265 if you can spare one afternoon or evening per month.

PJF



Deadline: December 26, 1969-and in 1970 the automatic deadline will be the 25th day of every month prior to publication.

IAN CAMPBELL RETIRES

Ian Campbell, State Geologist, of the California Division of Mines and Geology in San Francisco, retired October 30. A successor has not been announced.

Dr. Campbell came to the Division in January 1959 from the California Institute of Technology. Among other offices held in technical societies, he is past president of the American Geological Institute, the Geological Society of America, and the Mineralogical Society of America. Dr. Campbell is an Honorary Life Member of the AAPG Pacific Section.

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Northwest Geological Society

PACIFIC PETROLEUM GEOLOGIST

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Change of Address, subscription and membership inquiries should be addressed to: Membership Secretary, Pacific Section AAPG, P. O. Box 17486, Foy Station, Los Angeles, California 90017

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OIL IMPORT QUOTAS

Terming proposed elimination of oil import quotas "national suicide," the president of the world's largest geological society recently urged President Nixon to "give your most thoughtful consideration to the grave consequences" of this possible action and asked to meet and discuss the matter with him.

Kenneth H. Crandall, president of the American Association of Petroleum Geologists, revealed at a press conference in Tulsa today the contents of his letter to the President.

"There are few issues in the history of the United States which have had more serious implications, and which have required more careful consideration than the current proposal to abandon the present controls on the importation of oil," the AAPG president wrote.

At a press conference, he told newsmen that elimination of import quotas will "sound the death knell to the domestic petroleum exploration industry," which he said is composed of "the finest group of explorers, scientists and technicians the world has ever seen. Once disbanded, this organization, which has been responsible for finding the major portion of the world's crude supplies, would be difficult, if not impossible, to reconstruct."

"For a very dubious reward," he continued, "we are giving up something that is very tangible. Why we would give up a position (of world leadership in exploration) to take such a suicidal stand, I cannot understand.

"I frequently fly from my home in San Francisco to Los Angeles, and see city after city, lights as far as you see and thousands of cars, and know that there is not a light that burns or a wheel that turns that is not fueled by oil and gas. To place all of that at the whim of foreign nations . . . I wonder. I really wonder. If the American people really realize that this would mean economic suicide.

"If I were an enemy of this country, and wanted to destroy it, I'd strike a blow at the domestic oil and gas exploration industry."

Elimination of oil import quotas, he said, would immediately destroy the domestic exploration industry and over the long haul result in the dismantling of the domestic production industry as well.

"We could be left dependent upon the crude from the Middle East, which is the only area with a surplus in production. Some of these countries have shown themselves to be rather undependable as crude oil sources as demonstrated by their embargo on crude during the 1967 war with Israel.

"Our economy depends upon crude oil supplies. In an emergency, we could probably have stored up a reserve good for a couple of years, but others could just hang on and wait for us to run out. Then we would be at their mercy."

In the letter to President Nixon, Mr. Crandall cited fears in the financial community of a crippling of oil industry activity, potential loss of tax revenues to state and federal governments, and vulnerability of the nation's defense capability as questions that need serious consideration.

"We are," he wrote, "extremely concerned about our nation's future as well as the future of our profession."

Pacific Section members will receive a copy of Mr. Crandall's letter in the very near future. All concerned explorationists should write President Nixon their personal views on this subject, before our President makes an executive decision on import quotas.

J. D. Traxler

GEOLOGIC TECHNICIAN-BAKERSFIELD COLLEGE

Beginning with the Spring 1970 semester, Bakersfield College will offer a new program in geological education. The curriculum is designed to train geologic assistants to work in selected phases of geology and petroleum exploration. Upon completion of the two year program, graduates will be designated as Geologic Technicians, with options in five categories. The options are designed to give students concentrated studies in the areas for which they are best suited. These include Drafting, Engineering, Paleontology, Land and Legal, and General Option.

Several oil companies are establishing Book Scholarship Funds to assist those minority group students who find that the cost of text books would eliminate them from the program.

This is a new program and is believed to be the first of its kind in the country. The need for technical assistance is growing in the petroleum industry and the program has been received with enthusiasm, even in the light of recent cut backs.

Comments, suggestions or questions about the Geologic Technician program should be directed to the Chairman, Geology Department, Bakersfield College, Bakersfield, California, 93305.



PRESIDENT TRAXLER ANNOUNCES THE FOLLOWING COMMITTEE APPOINTMENTS FOR NORTH SLOPE SEMINAR, FEB. 1-3, 1970, CABANA HYATT HOUSE, PALO ALTO, CALIF.

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U.S. Geological Survey
345 Middlefield Road
Menlo Park, Calif. 94025

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ALASKA-COOK INLET SECTIONS

The Cook Inlet Stratigraphic Sections, compiled by the Alaska Geological Society, are now available for purchase. They consist of four Stratigraphic Sections and a Columnar Section. They can be ordered from the Alaska Geological Society, P.O. Box 1288, Anchorage, Alaska 99501, for \$18.50 per set, which includes airmailing rolled copies. The price is \$15.00 per set in Anchorage.

GEOLOGICAL SEMINAR ON THE NORTH SLOPE OF ALASKA

Early response to the announcement of the North Slope seminar, to be presented by the U.S. Geological Survey, and sponsored by the Pacific Section A.A.P.G. and the No. California Geological Society, has been very favorable. As of November 7th, some 215 have indicated that they expect to be in attendance at the meetings, February 2 and 3, 1970, in Palo Alto. All space set aside at the Cabana Hyatt House has been spoken for, and additional registrants are being placed in Rickey's Hyatt House across the street. If additional space is needed, latter registrants may be placed in other accommodations in the vicinity.

As an indication of the wide interest in this seminar, 12 applicants have come in from Alaska, 9 from Canada, 19 from Texas, 6 from Oklahoma, and 9 from Colorado and Wyoming, with the largest numbers coming from West Coast areas. Some 32 oil companies and operators are represented to date.

Inquiries regarding the seminar should be addressed to:

John C. Maher, General Chairman
U.S. Geological Survey
345 Middlefield Road
Menlo Park, Calif. 94025
Telephone: (415) 325-6761, ext. 462

All reservations should be mailed to:

Fred R. Kelley
Division of Mines & Geology
Ferry Building
San Francisco, Calif. 94111

ALASKA GEOLOGICAL SOCIETY

Current membership in the Alaska Geological Society numbers 208 and is expected to continue growing as new arrivals to Alaska join the organization. A new directory of AGS is being compiled and those interested in appearing in the directory should join by December 15. Applications can be obtained from the Alaska Geological Society, P.O. Box 1288, Anchorage, Alaska 99501.

NORTHWEST GEOLOGICAL SOCIETY

The first meeting of the Northwest Geological Society 69-70 "season" was held October 22 at the Sherwood Inn at Seattle. Dr. Howell Williams of the University of California at Berkeley spoke on Volcanoes.

THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

An abstract of B.W. Beebe's (AAPG Distinguished lecturer) talk given to the Los Angeles Basin Geological Society Oct. 17, 1969.

Petroleum gases and liquids, often occurring together, are found in the same types of traps by the same exploratory methods and are exploited and produced in the same manner. Moreover, all crude oil contains some natural gas, but nearly 75 percent of all natural gases are not associated with crude oil in the reservoir. The two phases of petroleum are highly competitive.

There are important differences in the physics and chemistry of natural gases and crude oil. Natural gases are a mixture of various organic compounds, usually accompanied by smaller amounts of inorganic elements and compounds. Natural gases of commerce are petroleum natural gases, although helium and hydrogen sulfide, also natural gases, may be valuable components. Even carbon dioxide, also a natural gas, finds markets. Physically, natural gases are highly mobile, difficult to contain, and are soluble in both crude oil and water, particularly under pressure.

Chemically, there are marked differences between petroleum natural gases, and crude oil. Methane is the simplest most ubiquitous and principal component of petroleum natural gases. It is often accompanied by much smaller quantities of heavier hydrocarbons. Natural gases are alkanes: paraffinic, saturated, straight chain hydrocarbons. The division between petroleum natural gases and the somewhat more complex, heavier alkanes occurring with them as vapors, is between propane and butane. Butane and heavier paraffinic hydrocarbons can be found both as normal, saturated straight chain or as isomers; saturated, branched chain hydrocarbon compounds. The substantial chemical differences between the simple compounds of petroleum gases and the far more complex crude oils suggest somewhat different modes of origin. An early and multiple origin for methane seems probable, inasmuch as substantial quantities are found in youngest recent sediments in swamps and glacial drift, and its presence as part of the atmosphere of several of the planets.

The vastly different physical and chemical characteristics of petroleum gases and crude oil have a great bearing on economics of exploring for, developing and producing them. The phenomenal growth in production and the use of natural gas as a form of primary energy have been major factors in decline in growth in need for crude oil. The two substances are directly competitive for space heat-

ing, for domestic uses, and for generation of electricity. Liquefied petroleum gases ("natural gasolines") and lease condensate have further supplanted crude oil. Production of petroleum natural gases, wet, increased from 4,423 trillions of Btu in 1945 to 20,121 trillions of Btu in 1967, and in 1967 amounted to 36.4 percent (excluding lease condensate of production of primary energy, compared to 32.6 percent for crude oil (including lease condensate). Moreover, according to Winger et.al, dry natural gas yields less than four cents of every dollar of income from a representative group of companies, financial characteristics of which have been studied for years by the Chase Manhattan Bank. Although natural gas liquids and lease condensate add somewhat to this amount, natural gas is a much less attractive exploration objective than crude oil.

Most of the natural gases found in the past have been found as a result of the search for crude oil. Under present economic conditions, natural gases alone are not attractive exploration objectives in most areas of the United States.

Hence, as demand has continued to accelerate, drilling of gas wells has declined sharply, and ratio of annual production to annual additions to reserves has declined to a dangerous point. Unless this trend is reversed, the next few years may see a shortage of available natural gases, when none exists in nature, simply because of lack of incentive to search for and develop natural gases in the quantities which will be needed.

CALENDAR

COASTAL SOCIETY CHRISTMAS DANCE

The Coast Geological Society will hold its 19th Annual Dinner Dance on Friday, December 19th at the Ventura Women's Center overlooking the Blue Pacific at Ventura. The traditional Champagne Cocktail Hour will start at 7:00 p.m. Members and guests will dance to the lilting music of Leroy Andrews and his orchestra.

Reservations should be made on or before December 15 through R.B. Haines, P.O. Box 3357, Ventura, California 93003 or phone 805-642-8154. Tickets are \$13.00 per couple, \$6.50 single.

PERSONAL ITEMS

It is with deep regret that we note the death of Thomas W. Todd, Associate Professor of Geology at the University of California, Davis, California, on October 23, 1969.

It is Mrs. Todd's wish that a memorial fund be established in the University of California, Davis for student assistance. Anyone who wishes to contribute to this fund may send a check made out to the Regents of the University of California, for the T.W. Todd Memorial Fund, addressed to the Geology Department, University of California, Davis, Calif. 95616.

Dave Anderson transferred from Taft to Woodland in charge of Geothermal Operations.

Bus and Helen Ivanhoe have returned from Libya and Rome and are vacationing in Guadalajara, Mexico with the Darrel Kirkpatricks of Bakersfield.

John L. Hardoin also has been promoted to Senior Engineer and transferred to Inglewood.

Mr. Thomas A. Baldwin, Humble, has been appointed Pacific Section AAPG member of the Advisory Council.

Associate Engineer Jerry Barnes has left D.O.G. to return to school at Humboldt State to pursue studies in Fisheries Biology.

Dick Hammes, Standard Oil Co. in Bakersfield, has transferred to Chevron Research in La Habra.

Don Lewis, Standard Oil Co. in Bakersfield, has been promoted to Senior Analyst and transferred to San Francisco.

Jim Weddle has been promoted to Senior Engineer and is transferred to Inglewood Dec. 1, 1969.

George Hunter promoted to Supervising Engineer and transferred from Taft to Bakersfield.

SOURDOUGHS

After a summer dominated by security guards, fences, and coded reports, the Alaska Exploration contingent is finally coming out from behind the woodwork just in time to see a little sunshine before the darkness and snow of winter sets in. It was determined after diligent sleuthing that several locals had actually spent vacations in Europe rather than roughing it on the North Slope. These included Tom Wilson, Marathon; Jim Saviers, Pan-American; Bud Marchetti, Schlumberger; Vern Vigoren, Phillips; Rick Nunley, Amerada; Don Jessup, Gene Richards, and Bill Penttila, ARCO. The ARCO people all attended the joint AAPG--British Institute of Petroleum meeting.

Two geologists and three geophysicists have been added to Phillips' Alaska staff. Chuck Darling is the new District Exploration Geologist from Santa Barbara. Gene Fitzgerald, geologist from Lafayette; Bob Allyn, District Geophysicist, and Tom Johnson, geophysicist, both from Denver; and Dave Kappahahn, geophysicist from Bartlesville, round out the group. Darling is said to be tearing up the local YMCA volleyball league. His previous experience with the Phillips 66 Oilers and his 6'8" height may have something to do with it.

Marvin Mangus, formerly of ARCO, has joined the new consulting firm with Bill Fackler and Keith Calderwood in Anchorage.

Don Jessup, ARCO, Anchorage, has been transferred to Dallas as Assistant Chief Geologist. Apparently it takes two to fill his position as Les Brockett from Bakersfield is heading up the Northern Alaska District and Bill Hollingsworth from Sinclair in Denver is the new District Geologist for the Southern Alaska District.

ARCO has transferred to Alaska four former Sinclair geologists. They are Steve Vokurka and Charley Davis, both from Denver; Will Bishoff, Calgary; and John Rogers, Tulsa.

Getty has opened an office in Anchorage staffed by Clyde Cotton, District Geologist from Houston and Don Chapman, District Landman.

George Cook Shell geologist from Canada who has been on loan to the Alaska office, is returning to Edmonton.

Pennzoil geologist Herman Loeb is currently seeking office space in Anchorage. Herman has been transferred from Lafayette.

Karl Kohl, geophysicist from Houston, is joining Union's staff in Anchorage this month.

Dean Lauderaman was transferred from Anchorage to Denver as Manager of Planning & Evaluation, Northern Region, Union Oil & Gas Division, Union Oil Co. of California. Harry Lee replaced Lauderaman as District Manager of Exploration, Anchorage District. Jean Paul Chevelle is the new District Exploration Geologist, Northern Alaska District.

New arrivals in Alaska for Union include Fred Mankinson from Bakersfield and John de Benedetti from Santa Maria.

Bill Decker, geologist from Bartlesville, and Jim Davis, geophysicist from Jackson, are recent arrivals in Anchorage for Cities Service.

NURSERY NEWS

All activity is apparently restricted to the "North Slope."

BIBLIOGRAPHY OF RECENT PUBLICATIONS

GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 80, no. 10, October 1969

The structure and tectonic history of the Eastern Aleutian Trench, by Ronald von Huene and George G. Sher, Jr.

Distribution of oxygen and carbon isotopes in fossils of Late Cretaceous age, Western Interior Region of North America, by Harry A. Tourtelot and Robert O. Rye

Continental shelf sedimentation in an Arctic environment, by Dean A. McManus, James C. Kelley, and Joe S. Creager

Thrust faulting along the Lower Rogue River, Klamath Mountains, Oregon, by Ewart M. Baldwin

JOURNAL OF GEOLOGY, vol. 77, no. 5, September 1969

The Lake Missoula floods and the channeled scabland by J. Harlan Bretz

Distinguishing marine and freshwater muds, by W. F. Shimp, J. Witters, Paul Edwin Potter, and J. A. Schleicher.

JOURNAL OF SEDIMENTARY PETROLOGY, vol. 39, no. 3 September 1969

Tyee Formation: a study of proximity in turbidites, by J. P. B. Lovell

Quantitative statistical analyses of Columbia River sediment samples, by James C. Kelley and John T. Whetten

Associations of fossils, grain-types, and chemical constituents in the Upper Devonian and Lower Carboniferous limestones of the Bonaparte Gulf Basin, Northwest Australia, by J. J. Veivers.

CALIFORNIA DIVISION OF MINES AND GEOLOGY

Page 7

Map Sheet 15: Preliminary reconnaissance map of major landslides, San Gabriel Mountains, Calif., by D. M. Morton and R. Streitz. \$1.00

List of available publications, California Division of Mines and Geology. July 1969 Free

NEVADA BUREAU OF MINES (Mackay School of Mines, Reno)

Map 35: Geologic map and sections of the Southern Cherry Creek and Northern Egan Ranges, White Pine County, Nevada, by William H. Fritz. \$2.00

U. S. GEOLOGICAL SURVEY

Professional Paper 437-B: Land subsidence due to ground-water withdrawal, Tulare-Wasco area, Calif., by B. E. Lofgren and R. L. Klausung \$1.25

Professional Paper 679: Geology, petroleum development, and seismicity of the Santa Barbara Channel Region, California, by J. G. Vedder, H. C. Wagner, J. E. Schoellhamer, R. F. Yerkes, K. A. Yennie, T. H. McCulloh, R. M. Hamilton, R. D. Brown, Jr., R. O. Burford, and J. M. DeNoyer. \$2.25

Circular 619: Subsea mineral resources and problems related to their development, by V. E. McKelvey, J. I. Tracey, Jr., G. E. Stoertz and J. C. Vedder Free

MAPS

I-632: World subsea mineral resources, by V. E. McKelvey and F. F. H. Wang. \$2.75

OM-207: Map of New Mexico showing oil and gas fields, unsuccessful test wells, Precambrian rocks, and pipelines, by S. D. Vlissides and R. A. Bieberman. (Reprinted 1969) \$1.50

I-595: Geologic map of Oregon, by G. W. Walker and P. B. King. (Scale 1:2,000,000) 25c

I-567: Geologic map of the Pahute Mesa, Nevada test site and vicinity, Nye County, Nevada, by P. O. Orkild, K. A. Sargent, and R. P. Snyder \$1.00

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