Houston Geological Society

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SPONSORS

This BULLETIN is made possible by the cooperation of the companies whose names are listed on the following pages

SUPPORT YOUR SPONSORS
FOURTH REGULAR MEETING - DECEMBER 7

The fourth regular meeting for this year will be held on Monday evening, December 7, 1959, on the 10th floor of the Houston Club. The social hour will begin at 5:15 p.m., dinner at 6:00 p.m.

DR. PETER T. FLAWN, Special Member of the Graduate Faculty, Bureau of Economic Geology, The University of Texas, will be the speaker for this meeting. Dr. Flawn will present his paper on "The Ouachita Structural Belt in Texas." His paper is concerned mainly with the subsurface Ouachita structural belt in Texas but also deals in brief with its features in Oklahoma and Arkansas and in Old Mexico.

There will be a table set up for the convenience of those who wish to purchase their tickets for the Christmas Dance. Tickets will be on sale at $15.00 per couple.

SEE YOU AT THE CHRISTMAS DANCE!

NOTICE:

There will be a meeting of the Boy Scout Committee members, and those who have volunteered to assist with the geology scouting program, at 7:30 P.M. Wednesday, December 2, in Suite I, 4189 Bellaire Boulevard. (This is upstairs over the Recreation Bowling Palace - just east of the railroad tracks.)

Others interested are urged to attend; 6 or 8 more men are needed in order to get the program started. If unable to attend this meeting but you wish to help, please contact George Dickinson, MOhawk 7-5661.
CHRISTMAS DANCE

December 11, 1959 9:00 Till 1:00
Shamrock Hotel Emerald Room
Buddy Brock Orchestra

$15.00 per couple includes all set ups, gratuity and
breakfast Floor show featuring The Stevens Of Hollywood
(Lance and Nancy).

Tickets available from:
Karl Schneider  CA 8-9461
B.T. (Windy) Winborn  MO4-4559
John Marsh  MO7-2481
Floyd Wilcox  FA 3-2141
Roy (Dusty) Rhodes  R8 4-1651
Jerry C. McCain  CA 5-3141
R.F.M. (Rick) Marchesseau  JA 9-4821
W.A. (R.I) Boatman  JA4-8131

We Deliver
GROUP INSURANCE PROGRAM

Having received sufficient applications to our program of Accidental Death, Dismemberment and Disability Insurance, we can now state definitely that, for those of you who applied, November 1, 1959, will be your policy installation date. Total coverage of $3,860,000 went into effect that date.

Those wishing to enter this program may still do so on a pro rata premium basis, as November 1st will remain our annual anniversary date.

Outlined below is a pro rata premium schedule indicating the amount of premium that should be forwarded with your check for entry into the program after November 1st.

The minimum amount that may be purchased by a member is $20,000. The wife of a member may be included for $10,000 or more.

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<th>Effective Date</th>
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Please make checks payable to John A. Rathmell Insurance Agency and forward them to the Society office at 234 Esperson Building, Houston 2, Texas.

THANKS

The editors of the Bulletin wish to take this opportunity to express their sincere thanks to the advertisers and contributors whose financial aid make its publication possible.

Final count for this year was ninety signature advertisers and thirty professional cards, which was sufficient to meet our publishing obligations.

It is interesting to note that sixteen of the signature advertisements were taken by operating companies this year; the remainder were from service companies, supply companies and drilling contractors.
Once again we urge you to support these companies which advertise in your publication. Remember - YOU may be on the soliciting committee next year!

WRAP-UP

A whomping 1800 geologists and wives registered for the highly successful G.C.A.G.S. 9th Annual Convention which closed on November 13th.

Printing deadlines did not permit mention of one Convention Committee whose efforts were enjoyed by all who took the occasion to relax in the entertaining Tobin Free Theatre. Chairman Charles Stuckey and his committee members Warren Trimm, Frank Shaw, and Edward Marks deservedly are added to the long list of H.G.S. members to whom we owe thanks for a job well done!

If you attended the Convention, you noticed the booth set up by our Society. Primarily responsible for the fine work on this were Horace Steele of Humble and Mr. Otto Pixler of Baroid. The colorful Society emblem and signs were prepared by the Baroid Drafting Department; the furniture was part of the Baroid Exhibit. We have been informed by that company that essentially this same set-up will be shipped to Atlantic City in April along with their exhibit.

A.A.P.G. MEMBERSHIP CLAUSE IS EXPLAINED

Some confusion has arisen with reference to the recent amendment to Article III, Section 5, of the A.A.P.G. Constitution pertaining to membership requirements for Juniors.

In response to the many inquiries received from students by members, the Executive Committee of the Association has sought to clarify the intent and meaning of the section as it was amended:

"In thus revising the requirements, the Association is not seeking to penalize the dedicated student, but to up-grade the entire membership. This amendment is the logical first step, inasmuch as the largest percentage of Members join the Association as Juniors. The provision '...having qualified and been accepted as a candidate for a Master's or higher degree...' replaces 'having completed as much as thirty hours of geology...', in the belief that thirty hours of geology is inadequate training for the present-day practice of petroleum geology, and on the assumption that only above-average students, and only those likely to follow geology as a career, can meet the academic requirements for acceptance to such candidacy at most institutions of higher learning.

"Recognizing that the term 'accepted as a candidate' may have different meanings in different institutions, the Executive Committee places on it the following interpretation: completion of at least one semester of graduate study in geology; with an average grade of at least "B", as commonly understood and used in universities of the United States."
"The provision 'one or more years of experience...may be considered in lieu of complete fulfillment of the scholastic requirements' gives the Executive Committee the discretion of approving for Junior a geologist who has not entered upon graduate study, if, in the opinion of the Executive Committee, he has attained sufficient standing as a professional geologist.

"It is the hope of the Executive Committee that, because qualifying for Junior membership thus becomes somewhat more difficult, such membership will be prized still more highly, as a mark of distinction in professional attainment."

100 YEARS

Let it not be said that the Bulletin permitted Oil's 100th Anniversary to pass without having paid it due respects. By way of a last word on a perhaps slightly threadbare theme a couple of tales out of Oil's fabulous past are recounted elsewhere in this issue.

A.A.P.G. CANDIDATES FOR HOUSTON DISTRICT REPRESENTATIVES

Fourteen names were submitted to Association headquarters of those H.G.S. members who have accepted candidacy for election to one of the positions as Houston District Representative to the A.A.P.G. Members will be given the opportunity to vote their choices by mail ballot within a few weeks. Nominees are:

Charles W. Barnes
John L. P. Campbell
James S. Critz
Paul Farren
Ed J. Hamner
M. Stephen Kovac
Robert S. Moehlman

Grant C. Parsons
W. A. Petersen
Claude M. Quigley, Jr.
John J. W. Rogers
Glenn C. Tague
Albert M. Tolbert
DeWitt C. Van Siclen
COMMITTEE REPORTS

PUBLIC RELATIONS COMMITTEE

Chairman Sam Udden, Continental Oil Company, announces the appointment of the following members to this committee:

Henry S. McQueen (1959-60), Salt Dome Production Company
William H. Rieniets (1959-60, 1960-61), Pure Oil Company
Ira N. Patterson, Jr. (1959-60, 1960-61), Humble Oil & Refining Co.

ENGINEERS COUNCIL COMMITTEE

From Chairman James Ogg:

"Many thanks to Roland Thies, Schlumberger Well Surveying Corp., Erwin Grimes, Timberland Exploration Co., Robert Turley, Consulting Photo-Geologist, and Richard Winborn, North Central Oil Corp., for their cooperation in a recent request by the Science Education Liaison Committee of the Engineers' Council of Houston for mathematics teachers at Spring Branch Junior High School on Thursday and Friday, October 29th and 30th.

Although Roland Thies was the only one who actually taught, Erwin, Bob and Dick were ready to go on a moment's notice.

From time to time similar requests will be made, and the cooperation of the Houston Geological Society membership will be appreciated."

ACADEMIC LIAISON COMMITTEE

Two months ago the Academic Liaison Committee of the Houston Geological Society was asked by the Mid-Continent Oil and Gas Association to supply the name of several geologists who would be willing to make short geological presentations or serve on discussion panels for various schools or civic organizations. Those willing to serve on such a group, when asked to speak, will do so at their convenience. Thus far, the committee has had three volunteers: Keith Chandler with Pan American, Jock Reiter with Hershal Ferguson, and Harry Otell, Jr. with Coastal Transmission. The committee would like to thank Keith Chandler for filling one such request made on very short notice by the Bay City Kiwanis.
Additional volunteers to work on a will-call basis with this group are needed. If any members of the Houston Geological Society would like to promote a better understanding of their profession in schools and civic organizations, their help will be appreciated.

If interested in working with the committee, please contact Reece Berry, Chairman, at MOhawk 4-3401, Extension 475.

PERSONNEL PLACEMENT COMMITTEE

During the past two months your Committee has placed 10 registrants in jobs. In spite of this placement, there continues to be a large group currently looking for employment. Registration files are kept active and you can help and the committee CAN HELP YOU.

Current Active Registrations

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<td>82</td>
<td>Total registered with Committee</td>
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Please call Earl Bescher, Humble, or any of the committee for information you might need concerning the registrants. The committee files are available when you need personnel for employment in geology, geophysics, mud logging, etc.

COMMITTEE ON SALT DOME VOLUME

The A.A.P.G. Committee for the Salt Dome Volume has several projects which it plans to undertake in connection with the publication of the symposium, "Salt Domes of North America," scheduled for publication in early 1963; the cooperation of the members of the Houston Geological Society in connection with these projects is urgently requested.

The Committee plans to investigate rather fully the possibility of
dating the salt through palynological studies of pollens and spores that may be present in salt samples. For this research, they request that you report any salt cores that you may have that look at all "dirty"; this dirty condition does not refer to the dark bands or discoloration caused by anhydrite, but to discoloration resulting from disseminated clay particles in the salt. It should also be emphasized that you should be reasonably certain that the "dirty" appearance of the core is not caused by the inclusion of portions of the shale gouge zone immediately adjacent to the salt plug.

The Committee also wishes to acquire, for the same purpose, at least quart-sized samples of the insoluble residue derived from the leaching of storage caverns in any salt dome.

Another project which the Committee hopes to pursue in connection with the Volume is a petrographic and mineralogical study of the deep-water marine shale associated with salt domes in the Gulf Coast, both in its occurrence in the form variously termed "shale sheath," "gouge shale," "heaving shale," or "diapiric shale," and in the form the same shale has where it occurs off-structure, away from the influence of the intrusive salt plug and in its normal stratigraphic position. The Committee would appreciate a particular effort on the part of each member of the Houston Geological Society to either locate old cores, or arrange for the sampling of these deep-water marine shales from both structural environments. It should be emphasized that, for this study, paleontological data must be available to show the correlative ages of both sets of samples. Cuttings, if taken under good control, can be used. The Committee particularly would like to stress the fact that all should be alerted to acquiring samples from wells drilled within the ensuing year and a half, as opportunities present themselves.

One further line of investigation on which the Committee solicits cooperation is the reporting of any temperature surveys run within the salt itself. Again, they urge not only the reporting of data from wells already drilled but also the securing and reporting of any such data from wells that will be drilled within the next year and a half.

If you have any data or samples available, or if you have any questions regarding this program, please contact Gordon Atwater, 424 Whitney Building, New Orleans, Louisiana, who is chairman of the Committee for the Salt Dome Volume, and who will be in charge of coordinating this work.
GEOLOGICAL AUXILIARY

"Conventioneering" put a crimp in the schedule but Nan Vittrup has dashed off a few remarks of interest to the gals:

"It was wonderful seeing so many of you at the Hawaiian Breakfast October 28th. It was a beautiful party. I was so proud of Mrs. Grant Parsons (j0) and her cute girls. To all the Auxiliary members who worked so many hours to make the G.C.A.G.S. Convention a success, my sincere thanks.

"I hope you will check with your husbands and make plans for the coming H.G.S. DANCE to be on December 11th. Mrs. Robert J. Field and her committee are working hard completing plans for an enjoyable evening at a Southern Christmas in the Emerald Room of the Shamrock-Hilton Hotel. We do hope you will be one of the many bringing "Toys for Tots," dancing to Buddy Brock's Orchestra, and enjoying a delicious breakfast at midnight. Let's all get together and have fun starting off the Christmas Season."

NEWS OF MEMBERS

E. W. KIMBALL, Continental Oil's Southern Region Exploration Manager, is recuperating from recent surgery, but has since traded Memorial Hospital fare for home cooking and reportedly is doing well.

KEN KELLER, formerly District Geologist in Houston when it was still Magnolia, was named District Exploration Superintendent for Mobil and stays in Houston.

Houston friends of B. B. COLLEY have learned of his transfer from Continental Oil's Oklahoma City office to Libya. He will be Exploration Manager for that operation which performs under the name of Oasis Oil Co. of Libya.

RAY BURKE, Union Oil's Chief Geologist for the Gulf Division until recently, has moved to Midland as Manager of his company's West Texas Division.

Among new faces at Society meetings this Fall is W. W. MOORE, Texaco, who recently assumed duties here as Assistant Division Manager. He comes to Houston from New Orleans where he was Division Geologist.
A former member, S. A. BERTHIAUME, returns to Houston from Calgary as Exploration Manager for Texaco.

News Bulletin of the Mississippi Geological Society confirms that former member, WALTER McMAHAN, Magnolia, is safely ensconced in the fold at Jackson. Walter is well-remembered for his untiring efforts on behalf of the Society, culminating two years ago when he attained the presidency.

A new employee of Lion Oil is CECIL R. RIVES, formerly geologist with Kilroy.

To JOHN WALTERS, Texas Division Geologist for Michel T. Hably, was awarded G.C.A.G.S. honors for the "best paper" presented at the 9th Annual Convention. The title of the blue-ribbon winning entry was "Effect of Structural Movement on Sedimentation In The Pheasant-Francitas Area, Matagorda and Jackson Counties, Texas."

JIM BOLLMAN, formerly with Texaco in Houston and Tyler, is now Chief geologist for Largo Drilling Company in Jackson.

**SCIENTIFIC NOTES**


The Second Coastal Geography Conference was held on April 6-9, 1959, at the Coastal Studies Institute, Louisiana State University, with Prof. Richard J. Russell presiding. Two of the 14 papers presented at the conference and published in the Proceedings are by members of our society: R. J. LeBlanc and W. D. Hodgson described the "Origin and Development of the Texas Shoreline," and H. N. Fisk presented a paper on "Padre Island and the Laguna Madre Flats, Coastal Texas." All of the papers are of interest to geologists, even those which are concerned mainly with coastal climates and physiography. Coastal areas are very important to geologists who wish to understand present-day sedimentation processes in order to interpret depositional conditions of ancient rocks.

There is space here for only some brief notes on the papers of probable greatest interest to geologists. The Proceedings volume
should be consulted by those engaged in sedimentation or stratigraphic work.

LeBlanc and Hodgson explain how the present Texas and bay shorelines were formed, and point out that some of the shoreline features are of late Pleistocene age whereas others were constructed during the Recent epoch. Some of the Texas rivers have filled the estuaries which were formed during the last sea level rise, and these streams have built deltaic plains which protrude into the Gulf. Other rivers, which carry less sediment, are still emptying into their estuaries. The barrier islands were initiated at the beginning of the present standing sea level stage, and they are building seaward. The extensive lagoons behind the islands were formerly part of the open Gulf.

Fisk's paper is based on Humble Oil and Refining Company's detailed studies of the Laguna Madre Flats and adjacent sections of the mainland and Padre Island, and the paper is a very important contribution to sedimentology. The depositional environments are described in detail and the many sedimentary processes active in the environments are explained.

L. M. J. U. van Straaten's paper on "Littoral and Submarine Morphology of the Rhône Delta" is an excellent summary of extensive work by the author and others on the sedimentation processes and products at the seaward edge of the Rhône delta, and it is of interest to all geologists who wish to understand sand deposition in delta fringe environments.

Dr. Ph. H. Kuenen presented a very informative paper on "Dutch Post-War Coastal Studies." Dutch geologists, physical geographers, and soil scientists have been studying sedimentation and erosion, physiography, and Recent geological history in many coastal areas, and some of the significant findings are outlined.

James P. Morgan, Managing Director of the Coastal Studies Institute, summarized the "Activities and Research Results of the Coastal Studies Institute." He also outlined future plans which call for detailed research projects in the Gulf Coast area; other low coastal areas of the U.S. will be studied for comparison with the Gulf Coast; and some foreign areas (Caribbean, Pakistan, Zambezi River delta) will be investigated.

The map of the "Coastal Land Forms of the World," scale 1:25,000,000, by John T. McGill, shows by color symbols the type of
coasts around all the continents and islands. McGill has a paper in the Proceedings which reviews the many works done on classifying coastal areas, and he explains the system used on his map.

...Reviewed by E. H. Rainwater, Shell Development Company

(Ed note: Paper by LeBlanc and Hodgson appears in Transactions of the G. C. A. G. S., Vol. IX, along with others assembled for the Recent Field Trip Symposium conducted November 13, 1959.)

The Famous Well of Henry Linam

He was 30 when he arrived at the jungle village of Quiriquire in eastern Venezuela in 1929. His tall, lean body, his dark eyes that smoldered above high cheekbones in a bronzed face, his smoky black hair, gave him the appearance of an Apache warrior.

He was uneducated. His men said that he could hardly read or write. He was tough. Too tough, they said. "...He's afraid to sleep at night because he's afraid that he might bite himself..."

He had been an oilfield roughneck, and then a driller. Now he was a drilling superintendent for Standard of Venezuela, a company that had already spent some forty million dollars but had not found enough oil to grease a shotgun.

Linam drove his men and he drove himself. He was a driver and he never pretended to be anything else. The men respected but did not love this tireless whiplash of a man who knew his business better than any they had ever known.

But he got no oil. Elsewhere in the rugged, fever infested land, on other companies' properties, oil spouted out of the earth in mighty fountains that darkened the tropical sky.

Linam was restless. And as the weary, unproductive days passed, a nagging hunch grew into a firm conviction. He had been studying the area. At night he had been poring laboriously over the geological reports of the vicinity and comparing them with what he had observed. Unknown to him, he was being scientific, and reached a scientific con-
He made a decision: The geologists had not read the earth properly. With steady resolution he told them so. They ignored him. He was only a roughneck, a driller. What did he know of geological mysteries?

But Linam persisted. His bosses grew impatient with him. And his wild idea was ridiculed wherever oilmen gathered.

Then one day, three miles deep in a forbidding jungle territory which the geologists had spurned as worthless, Linam spudded in a well.

It was reported to headquarters in faraway Caracas. A message came back from the Company president. It ordered Linam not to drill his well. It also accused him of overstepping his authority. It hinted darkly that Linam was through.

Linam's well was 1,500 feet deep when he got the message. He stood there on the drilling rig floor staring out across the hacked-out clearing. Finally he crumpled the message and jammed it into his pocket. "All right," he told his crew, "let's get this well drilled."

Five days later his well came in, quietly, and under control. It was one of the finest wells Linam had ever seen.

Linam was not fired. And new wells came roaring in like champagne corks popping on New Year's Eve. Linam had tapped a rich and extensive reservoir of petroleum and at the same time had reversed his company's fortunes.

He found more fields. He educated himself, studying the books he had freighted in by mule-back. And in June 1932--three years after he had arrived in eastern Venezuela--Henry Linam became president of Standard of Venezuela. He was then 33 years old.

...Written by Managing Editor Jack Donahue and reprinted courtesy of The Houston Post.

(Ed note: Quiriquire Field, where Linam spudded his "worthless" well after a series of failures drilled on oil seeps, now has 600 wells with total daily production of more than 50,000 bbls. Cumulative production to date crowds ½ billion barrels.)
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<td>R. P. AKKERMAN</td>
<td>Geologist EXPLORATION Engineer</td>
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<td>Review of Subsurface Data</td>
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<td>E. J. BARRAGY</td>
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<td>3005 Buffalo Drive, Box 13277</td>
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<td>JOHN L. BIBLE</td>
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<td>1045 Esperson Bldg.</td>
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<td>LESLIE BOWLING</td>
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<td>503 California Bldg. New Orleans, Louisiana</td>
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<td>5427 Lotus PA 3-4674</td>
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<td>HOWARD HOUGH</td>
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<td>C. T. MacALLISTER</td>
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<td>6327 Vanderbilt, Houston 5, Texas</td>
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<td>Frank D. Matthews, Jr.</td>
<td>Exploration for Oil &amp; Gas</td>
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<td>W. B. McCarter, C. E. McCarter</td>
<td>Independents</td>
<td>1415 Sul Ross, Houston, Texas</td>
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<td>P. A. &quot;Dutch&quot; Meyers</td>
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<tr>
<td>C. H. Sample</td>
<td>Consulting Geologist</td>
<td>404 Esperson Bldg., FA 3-9997 Houston 2, Texas</td>
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<td>Fred L. Smith, Jr.</td>
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On the one-hundredth anniversary of oil a pioneer oil industry company — Schlumberger Well Surveying Corporation — celebrated its silver anniversary of founding. The date is not of particular note outside the company itself but in its telling, the story of electrical logging chronicles the growth of the oil industry in oil’s first century and becomes a part of the public record.

Where were you in that founding year of 1934? History records that you bought round steak for 18 cents a pound, butter for 21 cents; that you probably lived in a rented house or apartment and that small, unfurnished duplexes rented for as little as $10 and $15 per month. You listened to the radio to your favorite program which probably was Amos and Andy, One Man's Family, Ben Bernie: the old maestro, or the Maxwell House Showboat; and you went to the movie to see Marie Dressler, Will Rogers, Clark Gable or Mae West. The gals wore long dresses, almost to the ankle. A new Ford V8 sold for $515. Babe Ruth was still clouting homeruns for the Yankees and Columbia beat Stanford in the Rose Bowl 7-0.

But do you remember what the "oil patch" was like in '34? Distances were long, and roads were bad. The electrical logger's canvas-covered truck became a familiar sight plowing through the ever-
present mud to get into the rig. The early jobs were made with hand
recorders, and there was no little down time while the crew wrapped
the old "ragline" cables with friction tape. This easy life for the engi-
neer still included the printing of logs by sunlight. Log negatives and
print paper were placed in six-foot-long frames and exposed to the sun.
Bright sunlight would make a print in five to ten seconds, but on cloudy
or rainy days it might take 30 or 40 minutes to make one print. The
average job time then, on a 6,000 foot hole, was six to eight hours but
it was known to take much longer!

We have to go back farther than 1934, however, to pick up the skein
of events which led to organized electrical logging. The date of concep-
tion is doubtful but certainly stretches back at least as far as the first
work of Conrad Schlumberger in 1912 on surface investigation by elec-
trical methods. This is recorded: that the first electrical survey of a
well was successfully run on September 5, 1927. The equipment was
carried loose in the rear of an old station wagon, and unloaded onto
the ground at the site of the Diesenbach 2905, Tower Number 7, Pechel-
bron Field, France. The instrument used was a short lateral and
measurements were made with a standard potentiometer mounted on a
tripod. H.G. Doll recalls the occasion: "Someone had to unplug the con-
nectors--someone else turned the winch--someone had to run up on
the rig floor to look at the counter on the sheave--there was a lot of
running back and forth. I wrote down the measurements on a pad,
together with the depth reading. Then it was unplug, roll up one meter to
the next station, and plug back in. Make the next reading. And so on,
one meter at a time." Out of Doll's readings, plotted on graph paper,
there emerged the typical resistivity log which was at first of little
utility other than as an aid in correlation problems.

Other logging experiments made in the Pechelbron Field were
successful and in the following year contracts were signed to run elec-
trical logs in Venezuela and Dutch East Indies for Royal Dutch Shell. A
bronze plaque today marks that spot in the Western Hemisphere where
the first electrical log was run. The well was Shell Oil Company's
LaRosa 216, located in the Cabimas Field on the Bolivar Coast of Lake
Maracaibo, Venezuela. The date was March 6, 1929.

A milestone was reached in 1931 no less important to the search

L. L. RIDGEWAY COMPANY
RINEHMART OIL NEWS COMPANY
ROGERS GEOPHYSICAL COMPANY
for oil than was the invention of the self starter to the demand for petroleum products. Experiments in that year proved that the "Spontaneous Potential" emanating from permeable formations could be measured in spite of possible disturbances due to the mud and metal parts of the logging sonde. The addition of the SP curve to the resistivity log made it possible to distinguish between permeable and non-permeable formations. With the two curves "Electrical Coring," as the new technique was dubbed, was added to the bag of tricks of the oilman. In the same year continuous logging became possible through the major advance which resulted from the invention of the mechanical recorder.

Harold S. Markam, on recalling the advent of the first automatic recorder, writes: "Clients didn't trust it. For two or three months we had to send two trucks on each job...one to record automatically and the other by hand, so the logs could be compared." (Sound familiar?) In the end, the "oscillographic recorder" was accepted, for not only was the time required to run a survey greatly shortened, but the accuracy of the log was improved.

It was inevitable that the success of the electric log should produce growth problems. With a growing volume of business came the decision to move to the United States in 1934, and with it the chartering of the Schlumberger company which at first operated out of a two room office in the Sterling Building. The first log in the U.S. had already been run --again on a Shell well, in California, in 1929--but in the first year of incorporation the world's record depth well was logged: General Petroleum's Berry 1, Belridge, Kern County, California, drilled to 11,377 feet. As the years fell off the calendar came instrument and equipment modification and improvement--the introduction of new logs and services. Temperature, Depth Determination, Sidewall Sample Taking, Directional Survey, Gamma Ray, Section Gauge, Dipmeter, the multitude of well survey services which are today as much a part of the drilling of a well as the bit itself!

One hundred years ago kerosene was being launched as the best available illuminant and was the only saleable product made by the first refiners. Today, turbine fuel made from kerosene has started a new career as fuel to power modern jets. After a century of progress the
future of the oil industry looks bright. No matter what the future may bring, oilmen will continue to serve America as they have served it during the past century and it is a certainty that the men of the electrical logging industry will be in the fore with new tools to aid in the search for oil.

...Excerpted from "Sonde Off," Sept., 1959, by W. A. Petersen with the permission of Schlumberger Well Surveying Corporation


This bulletin, of 554 pages, is the latest bibliography of North American geology by the U.S. Geological Survey. Earlier bulletins by the Survey cover the period 1785-1955.

Bulletin 1075, like the earlier bibliographies, lists the references by author and by subject. An idea of the increase in number of publications on the geology of North America is gained by comparing the 1950 bibliography (Bull. 985) which has 394 pages with this latest bibliography of 554 pages. It is impossible for geologists to become acquainted with more than a small percentage of the publications. However, they can learn quickly from the USGS Bibliography of North American Geology what has been published on a subject or area of interest in this continent.

The Geological Society of America has been publishing for each year, beginning in 1933, a volume (in some cases 2 years in one volume) on "Bibliography and Index of Geology Exclusive of North America." The latest of these is Vol. 22 for the year 1957, with 771 pages.

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