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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

5 April, 1966

Dr. Donald V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Dr. Higgs:

I was overjoyed to receive the letter of 4 April, releasing EPR Report 591 and EPR Memorandum Report 85, being the work I did on Bahamas sediment, for publication. I shall present this at the International Congress of Palynology next summer, the fates being willing. I submitted a very non-committal title last fall, such that I could present something mostly from the literature if necessary. Now I can stick strictly to the EPR 591 line.


As I have stated previously, you can count on my loyalty to Shell, and I am tremendously relieved not to be subject to almost overwhelming pressures to offend Shell by publishing something fairly close to what I had done for Shell but which was not cleared for publication.

Regarding EPR 591, there are several illustrative items that I need, for purposes of presenting the paper(s) orally and publication. One is the original of the plate. The others are the ~~micro~~ slides I had made from the colored figures.

Presuming that the trip to deliver microscope, etc., has your approval, I could discuss this business at the same time. I now have the final report on the Galveston-Trinity Bays sediment complete.

Thanks again for all the help you have given me.

Yours very truly,


Alfred Traverse



SHELL DEVELOPMENT COMPANY

A DIVISION OF SHELL OIL COMPANY

3737 BELLAIRE BOULEVARD

HOUSTON, TEXAS 77025

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

EXPLORATION AND PRODUCTION
RESEARCH DIVISION

April 4, 1966

Dr. Alfred Traverse
Department of Geology
The University of Texas
Austin, Texas 78712

Dear Dr. Traverse:

Further to your letter of March 30, 1966, we will pay mileage and attendant expenses for your trip to Houston. Monday, April 11, is a convenient time for us and will be a good time to return the equipment.

Regarding your question about EPR Report 898, "Pollen and Other Microfossils in the Water of Trinity River and Bay, Texas," there is no particular significance attached to sending a copy to you. It is considered to be confidential.

Very truly yours,

Thomas Baron

For: Thomas Baron
Vice President



SHELL DEVELOPMENT COMPANY

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3737 BELLAIRE BOULEVARD

HOUSTON, TEXAS 77025

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

EXPLORATION AND PRODUCTION
RESEARCH DIVISION

March 28, 1966

Dr. Alfred Traverse
Department of Geology
The University of Texas
Austin, Texas 78712

Dear Dr. Traverse:

Please refer to the letters of agreement dated August 31, 1962, which covered a work service agreement and the loan of equipment to you to carry out the work. The equipment consists of:

- 1 "Zeiss" Standard Microscope No. 2127826
with stand and case
- 1 35 mm camera for above with light meter
- 1 Dictaphone "Time Master"
- 1 30 Place "Veeder-Root" counter
- 1 "Medichrome" view box

We have an immediate need for the equipment and should appreciate your returning it to us. It should be delivered to Dr. C. C. M. Gutjahr.

Very truly yours,

Donald Uhliger

For: Thomas Baron
Vice President

File Higgs

6 April, 1968

Dr. Donald V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Don:

Many thanks for yours of 4 April. It has the effect of saving me the expense of a phone call. I tried unsuccessfully to reach you yesterday to find out what is contained in your letter; that is, that 11 April is satisfactory

You do not comment on my final report, but I will bring it along, and perhaps somebody in editorial will want to discuss it (particularly the illustrations) with me.

Yours very truly,



Alfred Traverse

30 March, 1966


Dr. Donald V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Dr. Higgs:

Re your letter of 28 March, covering a copy of EPR Report 898--I was somewhat startled to receive this, inasmuch as I have never had copies of any of my other reports since I left Shell. Would you be willing to comment on the significance of my being sent this particular report?

As I have previously written you, I am hopeful that Shell will release some of my older work, but I have never expected or asked for release of the material in EPR 898. Similarly, the information in my currently developing report on recent sediments of Galveston-Trinity Bays will be kept for Shell report purposes only.

Yours very truly,


Alfred Traverse

30 March, 1966

Dr. Donald V. Higgs
Shell Development Company
P. O. Box 481
Houston, Texas 77001

Dear Dr. Higgs:

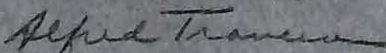
With reference to yours of 28 March, re the equipment I have on loan from Shell--

I have finished the study of recent sediment macerations for which I had this equipment on loan and will be happy to return same.

The report that I have been preparing on this work is very nearly completed--a little bit of writing and retyping of the rough draft is all that remains to be done. How would it be if I delivered the equipment and the report at the same time? That would be on Monday, 11 April. It would be important for me to explain the way I have drafted the charts, etc., to somebody (Judy Breeding?)

Would Shell pay me mileage and attendant expenses for the trip to Houston?

Yours very truly,


Alfred Traverse

29 March, 1966

Dr. Donald V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Dr. Higgs:

The enclosed copies of one of your letters were sent to me, I would gather by some sort of clerical error. I suppose that you might need them for files. I therefore return them.

Yours very truly,

Alfred Traverse
Alfred Traverse



SHELL DEVELOPMENT COMPANY

A DIVISION OF SHELL OIL COMPANY

3737 BELLAIRE BOULEVARD

HOUSTON, TEXAS 77025

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

EXPLORATION AND PRODUCTION
RESEARCH DIVISION

March 28, 1966

Dr. Alfred Traverse
Department of Geology
The University of Texas
Austin, Texas 78712

Dear Dr. Traverse:

Enclosed is a copy of EPR Report 898 entitled "Pollen and Other Microfossils in the Water of Trinity River and Bay, Texas" which you prepared while working under a work service agreement. (see our letter of August 31, 1962).

This report has not been released for publication and distribution outside our company. Since we consider the information contained in the report to be confidential, we should appreciate your cooperation in not disclosing its contents to others.

Very truly yours,

Donald U. Higer

For: Thomas Baron
Vice President

File

Enclosure

23 March, 1966

Dr. Donald V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Don:

Two recent pieces of correspondence that have crossed my desk prompt me to write even though I have not had a response from my last letter and may run the risk of "hounding" you.

First of all, a colleague of mine, E. A. Stanley, University of Georgia, has just published a little paper, "Abundance of pollen and spores in marine sediments off the eastern coast of the United States" that gets dangerously close to scooping me. I wonder if this would help to strengthen the argument for release of EPR 591?

Another colleague has written suggesting that it might be helpful to have the International Organization of Palynology, which happens to be currently operating in the Netherlands (Utrecht) appeal directly to the Hague for the release of some of my older work (which would mean 591). They are aware that I would like to give a paper at the International Congress next summer (it will be in Holland), but, of course,

they don't know what it would be about, except that it is common knowledge that I am mostly interested in Recent sediments as of the last ten years or so.

What do you think about all this, and what do you advise?

Yours faithfully,

Alfred Traverse

P. S. If 591 isn't released, I shall give a paper / probably of a more general nature on Recent pollen sedimentation, using others' data, but expressing my own ideas.

DR. ALFRED TRAVERSE
5508 COVENTRY
AUSTIN, TEXAS 78723

28 Jan. 1966

Dr. D. V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Don:

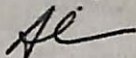
Thanks for granting approval for Chris to help me get the data I needed yesterday. I hope to find time fairly soon to get the report ready to send in. The data are all in hand and plotted, and writing them up is just a question of getting some free time--as you know, harder than it sounds!

Re the release of the reports I did, after a reasonable length of time--5 years, or whatever seems right--I do hope Shell will see its way clear to do this. I have always considered myself a loyal Shell "alumnus", and I want to see Shell credited for those things. Eventually, as I do more research for some university, bits and pieces of the basic ideas (which is what really counts) are going to come out in other connections anyway. I really can't help that. It would be more to Shell's advantage to get whatever good publicity there

would be. I personally doubt that any question of competitive advantage is involved (for which I am sorry--that's one reason I was never completely happy as a Shell employee). And yet I think there are some good ideas in the reports, as there will be in the currently germinating one.

Thanks again.

Yours very truly,



Alfred Traverse

THE UNIVERSITY OF TEXAS
DEPARTMENT OF GEOLOGY
AUSTIN, TEXAS 78712

25 October, 1965

Dr. Donald V. Higgs
Shell Development Company
P. O. Box 481
Houston, Texas 77001

Dear Doc:

Thank you for sending the manuscript of my report on pollen in Trinity River, etc.

I have checked the manuscript over and have responded in the form of a memo to Judy Breeding, which is paperclipped to the report. Although the manuscript looks at first glance to have a horrendous amount of red in it, nearly all of the suggested changes were in style. As I have written Judy, I have long felt that, unless the sense isn't clear, the author's own style should be all right. But I have learned to be a good loser on that one.

The work on the pollen in sediment of Trinity and Galveston Bays, etc., is coming along very well. We are currently plotting the data on charts. Should begin writing within a few weeks--probably after G. S. A. meetings--where I might see you?

Yours cordially,



Alfred Traverse

3737 BELLAIRE BOULEVARD
HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

October 15, 1965

REGISTERED AIR MAIL

Dr. A. Traverse
Department of Geology
The University of Texas
Austin, Texas 78712

Dear Al,

I am enclosing the final edited draft of your EPR Report 898, "Pollen and Other Microfossils in the Water of Trinity River and Bay, Texas," plus the figure mock-up. There are a number of questions which Judi Breeding has noted throughout the text that you should answer. Please review and return to me at your earliest convenience.

Very truly yours,



Donald V. Higgs

DVH:pjh

Enclosure

SHELL DEVELOPMENT COMPANY
Exploration and Production Research Division

THE UNIVERSITY OF TEXAS
DEPARTMENT OF GEOLOGY
AUSTIN, TEXAS 78712

18 September, 1965

Dr. D. V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Don:

In connection with our oral conversation earlier this week, I am writing this letter to make formal request that my report on the palynology of surface sediment of the Great Bahama Bank be made available for outside publication. I think that the information contained in that report would be a useful contribution to basic palynology, yet its release would not jeopardize Shell's research program in that area. As far as I know, it still is true that nobody has made a similar study of the pollen in non-elastie marine sediment.

The title of the report is: "Palynology of the Surface Sediments of Great Bahama Bank, as Related to Water Movement and Sedimentation," EPR 591, Dec., 1960. (Memo Report 85, Sept., 1960, "Pollen in the Surface Sediment and Water on Great Bahama Bank,....", covers the same material in more "popular" fashion.)

Naturally, it would be very helpful to me in my professional standing here if I could publish this work, perhaps the most interesting I have ever done.

Yours very truly,

Alfred Traverse

THE UNIVERSITY OF TEXAS
DEPARTMENT OF GEOLOGY
AUSTIN, TEXAS 78712

AIR MAIL

11 September, 1965

Dr. D. V. Higgs
Shell Development Company
P. O. Box 481
Houston 1, Texas

Dear Don:

I have discovered this morning that there are faculty meetings at which I am expected to be present both next Wednesday and Friday. Could we reschedule my visit for Thursday, 16 September? As before arranged, if I don't hear to the contrary, I'll be assuming that this is agreeable.

Looking forward to seeing all of you.

Yours faithfully,

Alfred Traverse

6/63

3737 BELLAIRE BOULEVARD
HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

September 25, 1964

Dr. Alfred Traverse
511 East 47th Street
Austin 51, Texas

Dear Al:

Further to your letters of September 16 and 20, 1964, we have received the manuscript. As you requested, we are returning the large chart to you for checking.

We plan to turn the original manuscript and illustrations over to Chris Gutjahr. He can retain them along with the rest of the palynological files.

Best regards,



Donald V. Higgs

DVH:nw

Enclosure

SHELL DEVELOPMENT COMPANY
Exploration and Production Research Division

10 Oct., 1964

Dr. Donald V. Higgs
Shell Development Co., P. O. Box 481
Houston, Texas 77001

Dear Don:

I am returning herewith the photo copy of the chart for my report, which has been carefully proofread. There are a few minor corrections indicated in red crayon.

I am also returning the original chart, to be filed with the rest of the manuscript material, along with some other original data sheets, which should be filed in the same way.

Hops this puts this thing to bed and that you'll be hearing from me regarding the sediment study for the same area before too many months!

Best wishes to you and all my friends
at Shell,

Alfred Traverse

20 Sept., 1964

Dr. D. V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Don:

Re my letter to you of 16 September: I find on going through my files that I do have the original for the appendix in my report recently returned to you. It would be desirable for it to be checked. Could that one chart--it was photographically reproduced and separate--be sent to me for checking? It does not matter if it is folded.

We were badly shaken up by the news about Ruth Hsu. I still can hardly believe it. Naturally, Betty and I appreciate the thoughtfulness of Mike Lloyd in phoning us when he got the news. I wish there were some way we could be helpful to Ken. I considered him a true friend.

Yours very truly,

Al
Alfred Traverse

16 September, 1964

Dr. D. V. Higgs
Shell Development Co.
P. O. Box 481
Houston, Texas 77001

Dear Don:

Under separate cover I am forwarding to you the corrected manuscript and illustrations for my EPR Report, "Pollen and Other Microfossils in the Water of Trinity River and Bay, Texas," as directed by Gordon Rittenhouse in his letter to me of 5 August.

It seems to me that the redrafted illustrations are a big improvement, and, as I explained to Gordon in a previous letter, I have had a helper check them with me very carefully, so that I am as sure as I can be that the errors have been all corrected. Also, with Gordon's help, I have tightened up the language considerably

The job I have just completed consisted only of reading the manuscript carefully to pick up typing errors, of which there were quite a few. I was also able to check all of the illustrations except the large chart, the appendix, of which I do not have the original--it was not returned with the rest of the papers. However, it had been extensively checked previously, and if someone has carefully proofread it against the original, I am confident it is all right.

I attach the list of typing corrections.

I trust that the original of manuscript and illustrations will be preserved in a file somewhere in case they should be needed in the future.

All goes well here, except that I find too little time for microscopy, as you predicted. Best wishes to you and to all.

Yours very truly,

Al
Alfred Traverse

Corrections "Pollen and Other Microfossils in the Water of Trinity River and Bay, Texas," by Alfred Traverse.

List of Illustrations: A-1, at the end. This caption is fouled up. A-1 is not an illustration number. It should be listed Appendix A. The caption should read as corrected, "Pollen analysis of water samples, Trinity River and Bay, collected 1961-62."

List of Tables: 1. 3: g/kg.

Note on Tables 1 & 3: These should face the same way in the final report.

p. 3, para. 2, 1. 7: put a period after Marsh.; change Michx. to Mx.; in the next line, put a period after Poir.

p. 3, para. 3, 1. 1: Station 4.

p. 4, 1. 1: Anahuac.

p. 4, para. 2, 1. 1: beyond.

p. 11, next to last line: Alnus glutinosa (second word lowercase).

p. 12, 1. 1: Pinus montana (first word upper case).

p. 12, para. 2: a sentence has been omitted, with serious consequences. See the original. Sentence should read as written in: "Stoke's law for the sinking of spheres in fluids can be applied to pollen in water."

p. 12, para. 2, 1. 8: water, not matter.

p. 14, 1. 8: ca.

p. 16, 1. 2: suggest change as noted: 1. ratio to, or percent of, pollen sum.....

p. 17, para. 2, 1. 5-6: please change "exceed 400,000" to approach 500,000.

p. 17, para. 2, 1. 10: should read "...as Federova's. Federova's studies...."

p. 17, para. 3, 1. 10: suggest change to "...pattern here than in the Bay."

p. 18, para. 3, 1. 3: liters.

p. 18, footnote: underline Taxodium.

p. 20, para. 4, 1. 1: should read: "Swamp cypress, Taxodium distichum (L.) Rich.

1. 2
p. 21: ragweed.

p. 24; 1. 2: change "at" to "from".

p. 24, 1. 13: delete "all".

p. 25, para. 3, l. 4: underline Compositae.

p. 25, para. 3, l. 8: change to read "Yet it must also be emphasized...."

p. 26, para. 5, l. 2: delete "for".

References: item 1, l. 2: should read "Stuttgart".

3737 BELLAIRE BOULEVARD
HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

August 5, 1964

REGISTERED MAIL

Dr. A. Traverse
511 East 47th Street
Austin, Texas 78751

Dear Al,

Enclosed is the manuscript for your EPR Report, "Pollen and Other Microfossils in the Water of Trinity River and Bay, Texas," which has been completely retyped (the draft is also enclosed). Figures 5-14 have been redrafted, and Figure 4 has been corrected as requested in your letter of March 16, 1964. A varigam of the Appendix and your penciled graphs (for Figures 5-14) are being mailed to you separately.

After the illustrations were drafted I went over them carefully and sent them back to Drafting for a few additions, corrections, etc. I have glanced over some of them, but have not attempted a careful check. I have also glanced over the retyped manuscript but suggest that you go over both the manuscript and illustrations carefully, returning everything to Don Higgs for processing through the regular Company publication channels.

If I can be of further help, please feel free to call on me.

Very truly yours,

Gordon

Gordon Rittenhouse

GR:pjh

Enclosures - 2

SHELL DEVELOPMENT COMPANY
Exploration and Production Research Division

3737 BELLAIRE BOULEVARD
HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON, TEXAS 77001

October 2, 1963

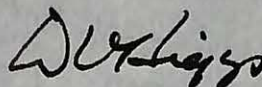
Dr. A. Traverse
511 East 47th Street
Austin 51, Texas

Dear Al,

Enclosed is the manuscript on Trinity River and Bay study. Gordon Rittenhouse and Chris Gutjahr have reviewed it and made comments which are included.

You will notice that there are some errors in some of the calculations, the results of which occur on charts. These should be corrected. Gutjahr went through the charts and checked the calculations and you may wish to call him about them.

Very truly yours,



Donald V. Higgs

DVH:pjh

Enclosure

GILBERT
RESOURCE BOND
SHELL DEVELOPMENT COMPANY
Exploration and Production Research Division

*Also write Bishop - make it under day!
Norman Hughes*



SHELL DEVELOPMENT COMPANY

A DIVISION OF SHELL OIL COMPANY

3737 BELLAIRE BOULEVARD

HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON 1, TEXAS

EXPLORATION AND PRODUCTION
RESEARCH DIVISION

August 15, 1963

Dr. A. Traverse
511 East 47th Street
Austin 51, Texas

Dear Al:

I must apologize for not replying earlier to your inquiries about possible release of EPR Report 591 for publication. I regret to say that after much consideration we have decided that it should not be released now.

Our reasons for this decision are as follows. We believe that the significance of the report lies in relating the palynological data to the sediments and their distributions. Despite the fact that other people have published about the sediments, our knowledge of their origins and how they accumulate continues to be used to advantage within the company. At the same time we believe that some parts of Dr. R. N. Ginsburg's work should be considered for publication some time in the near future. It has not been decided, however, just what parts can be released. Until we know this we prefer to defer release of closely related reports.

Your latest manuscript is in the hands of reviewers (Dr. G. Rittenhouse and Mr. C. C. M. Gutjahr) and it shouldn't take long to get it processed.

Very truly yours,

Donald V. Higgs
Donald V. Higgs, Manager
Geology Department

DVH:pjh

3737 BELLAIRE BOULEVARD
HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON 1, TEXAS

August 2, 1963

Dr. A. Traverse
511 East 47th Street
Austin 51, Texas

Dr. Traverse:

Further to your letter of July 25, 1963, to
Dr. Higgs, Xerox copies of the figures for your report,
"Pollen in the Water of Trinity River and Bay, Texas,"
are enclosed for your review.

~~Pat Hyatt~~

pjh

Enclosures

File: Higgs

SHELL DEVELOPMENT COMPANY
Exploration and Production Research Division

Corrections for the manuscript of
"Pollen in the Water of Trinity River
and Bay, Texas," by Alfred Traverse

p. 1, l. 22: 'their' should be 'the'

p. 3, l. 7: should be a period on Poir.

p. 4, l. 3: change to read: "Vegetation of this aspect extends south into our area, where it occurs as patches on deep sandy soils."

p. 4, par. 3, l. 5: delete comma as shown

Table 1: should read 'Anahuac' at place shown

p. 9, l. 9: underscore Chenopodiaceae

p. 9, l. 10: underscore Sassafras

p. 16, par. 2: change to read: 'B = total weight of glycerin jelly and maceration residue for the sample;....'

The abundance of a particular pollen type is expressed as a ratio (percent) to the pollen sum; that is, to the amount of wind-pollinated tree pollen on the slide.

p. 20, par. 4, l. 5: The common wind-pollinated composites do not flower in the spring, but in the....

p. 24, par. 1: change last sentence to read: "...averaged 8,000 per 100 liters (Traverse, 1962), presumably reflecting the comparatively high sediment-content of the Gulf at this location as compared with that of Grand Bahama Bank."

References: l. 10: Goillot is the correct spelling.

" item 10: should read: '...Recent Orinoco Delta...'

N. B.: Corrections for illustrations are on the sheet that follows.

p. 18, l. 4: Please change to read: '...highest values are found in the early and late summer months, and....'

Corrections for illustrations and captions
for "Pollen in the Water of Trinity River and
Bay, Texas," by Alfred Traverse

Figure 1: the caption is not attached. It appears as p.
3a of the manuscript.

Figure 2: Insert word 'to' in the second line. The manuscript
has this right.

Change second sentence to: 'The pollen had been in
water 2 hrs. at time of photographing and was photographed in
water.'

Figure 4: '...pollen and spores....' (add 's')

Figure 8: Word at top of the figure should be: 'Ulmaceae'

Figure 9: First line of caption should read: 'Monthly distri-
bution of cypress pollen,...' This does not affect the figure itself.
of caption

Figure 10: First line/should read: 'Monthly distribution of
Compositae pollen (ragweed et al.), 1961-62,....'

Figure 13: I think this is confusing as it stands. Lets add
at the top 'Rainfall Record at Riverside, Texas' and move down
the legend 'Engelhardtia Pollen....' somewhat to increase under-
standability.

The legend at the side should read 'monthly', not
'month'

Please change the legend, l. 9, to read: '...above,
to suggest the erosional....'

Figure 14: Please change Carya to 'hickory' in the legend (not on
the figure).

N. B. what I intended to do wherever possible
was to use the Latin name on the figure, the
common name in the legend. On second thought,
the other way around might have been better.
Editorial might be asked for an opinion. But
I did want both names associated with the figures
wherever possible. In some cases (e. g., Engel-
hardtia) there is no common name.

Appendix 1: In three places in the right-hand column the word
'Undifferentiated' should appear, not 'Undifferential'

23 June, 1963

Dr. D. V. Higgs
Shell Development Co.
P. O. Box 481
Houston 1, Texas

Dear Don:

I believe my request for release to publication of the study of Bahamas recent sediment palynology should have been more formal and more fully explanatory.

I think the study makes a contribution to basic palynology that would be of considerable interest to all palynologists. There is so little in print about the behavior of pollen in marine situations that the study will be of some significance as a ground-breaker in that direction. Since similar projects are underway in other laboratories, including at least one in the identical area, the argument that Shell should get credit for paving the way has some pertinence.

One motive for publication of this work should be the probability that it will stimulate studies of pollen in water and recent sediments by other people. Jan Muller's Orinoco Delta paper went a long way toward getting work started in this sort of sediment (also published under Shell auspices!). A publication on calcareous sediments, supposedly the least promising of all, showing that palynology can be "done" on them, would be stimulating, I am sure.

The only objection I can see to publication would be the revelation of precise information about Bob Ginsburg's work in the Bahamas. But he writes me that someone else has already "scooped" him on that--it's already in print. But I should let him comment on that.

Yours very truly,

Alfred Traverse

3737 BELLAIRE BOULEVARD
HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON 1, TEXAS

June 20, 1963

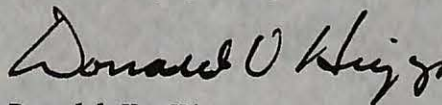
Dr. A. Traverse
511 East 47th Street
Austin 51, Texas

Dear Al:

A xerox copy of the draft of your manuscript, "Pollen in the Water of Trinity River and Bay, Texas," and the original draft are enclosed for your review.

Bruce Gray's group will have all the figures drafted in about a week and copies will be sent to you for your approval as soon as they are available.

Very truly yours,



Donald V. Higgs

DVH:nw

Enclosures - 2

SHELL DEVELOPMENT COMPANY
Exploration and Production Research Division



SHELL DEVELOPMENT COMPANY

A DIVISION OF SHELL OIL COMPANY

3737 BELLAIRE BOULEVARD

HOUSTON, TEXAS

MAILING ADDRESS
P. O. BOX 481
HOUSTON 1, TEXAS

EXPLORATION AND PRODUCTION
RESEARCH DIVISION

February 28, 1963

Dr. Alfred Traverse
511 East 47th Street
Austin 51, Texas

Dear Al:

This will acknowledge receipt of the corrected manuscript,
"Chemical Nature of the Pollen Exine."

In response to your inquiries we will return the negative
to you and you should feel free to send future manuscripts to us
postage collect.

We shall be pleased to have you spend a few hours some
day during the week of April 8, 1963, in order to add data to the
Trinity River report. Chris Gutjahr and/or Mart Schemel will be
here during that time. Expenses for this trip will be for our
account.

Very truly yours,

Donald V. Higgs, Manager
Geology Department

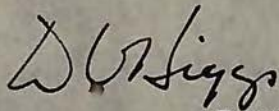
DVH:pjh

February 14, 1963

Dr. Alfred Traverse
Austin, Texas

Enclosed for your final review are a xerox copy of the manuscript plastiplates and the figure mock-up for your EPR Report 713, "Chemical Nature of the Pollen Exine." The draft of your report is also included. If there are any corrections necessary, they should be made at this time; after the report is printed and bound, corrections may be made only in the form of an errata sheet.

Please return the manuscript copy, figure mock-up, and draft to me when you have finished checking them.



D. V. HIGGS

DVH:nw

Enclosures - 3

16 February, 1963

Dr. D. V. Higgs
Shell Development Co.
P. O. Box 481
Houston 1, Texas

Dear Don:

I return herewith the manuscript, illustrations, and draft for my report on the chemical nature of pollen exines.

Everybody seems to have done a nice job. I am especially pleased with the illustrations.

I have indicated the corrections on the xerox directly, but I also append a sheet of the corrections.

May I take this opportunity to raise some other questions?

1. Some time ago I sent in an additional negative to use for one of the illustrations. Since the negative belongs to Mr. Skvarla, at the University, I should have it back to return to him.

2. For future reference, is it all right to send this sort of thing postage-collect, as I did with this one?

3. I have just about finished work on the other report-- for various reasons it has taken much longer than I contemplated. I really need to spend a few hours at the lab, to complete some of the blanks from the files and to show whomever will do the job what the typist will do with some of my squiggles.

Would Shell pay my expenses for such a trip, and, if so, would ~~Monday~~ in the 6-15 April period be satisfactory? It would seem desirable if either Chris Gutjahr or Mart Schemel would be available on the day in question.

With best wishes, I am

Yours very truly,

List of Corrections for

"Chemical Nature of the Pollen Exine"

EPR Report 713

- ABSTRACT: 1. 5: substitute for word "are" the expression "consist largely of what is". This is necessary for accuracy as well as the ~~number~~ of the verb.
- p. 2, 1. 1: add comma after "metabolized".
- Table 1, 1. 11: 7.8 should be 17.8
- " , 1. 15: .6.9 should be 6.9
- p. 4, 1. 9: change to "The waxy-nature theory of the...." (It isn't the waxy nature but the theory to which I have reference.)
- p. 6, footnote, 1. 8: "embedment" should be "embedding". This may not be good English, but "embedding" as a noun is always used by microtechnicians. (Dr. Rezak will confirm this from his microtechnique books.)
- p. 7, 1. 18: comma after "acids".
- Table 2, lines 5, 6, 24, 25, 35, 36: should read Fig., not Figs. (only one figure is referred to)
- Table 3, line 19: "(oak)" should be inserted in same way that common name is indicated for the other items.
- p. 14, 1. 2: should read "...10-percent KOH for about...." (the substance used was omitted.)
- p. 15, 1. 20: should read "sporopollenins". (for sense, and to make number agree)
- p. 16, 1. 12: should read "Freytag, K. (1958), "
- Caption, Figure 5: should read "As can be seen at several places, there is some endexine...." (omit stricken passage)