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UNITED GEOPHYSICAL COMPANY OF AMERICA



PASADENA TULSA HOUSTON NEW YORK CALGARY PARIS CARACAS RIO DE JANEIRO SANTIAGO

SUITE 8, 534-6TH AVENUE S.W.
CALGARY, ALBERTA10954 80th. Ave,
Edmonton,
Alberta.

October 26th. '64.

Dear Gordon,

I have just mailed the map and with a little luck you should get this letter the same day.

There are two trouble spots :- a short piece of BL. 25N. with the survey error and line 48W, 1 - 20N. of all places. The gravity will have to be re-run on this line. The mis-ties were all high at 10N, 15N (0.27 l) and 20N. So the anomaly on that line may suffer a little in relief.

As you see the lows are lower than the highs are high. A person would need a good knowledge of the variation of the depth of glacial overburden to make a good interpretation of the results. If it were not for the close correlation with the magnetics (very close) the gravity high would not be too impressive. I would think that the increase in depth of low density overburden to the North of the anomaly on lines 64, 72 and 80 is masking that part of the anomaly that is magnetic.

I'm a little worried about Kerr Addison, they've been so quiet since they got the map. If you draw in the exact complement of this map on the B.S. Group and then isolate it from the Sea half (this is what Bill Sirola and Paul Kavanagh received more than a week ago) you will see that there is hardly a hint of an anomaly. I don't know if you know all the verbal arrangements with Bill Sirola and myself but it's too lengthy to explain in writing so I'll phone you in Vancouver on Thursday - you will have seen the map by then. Anyway I don't think Kerr knows there is an anomaly and if you drill into something there'll be a little 'organic matter' flying and United will catch more than a little.

As far as I am concerned the results of the B.S. Group alone did not warrant an extension of lines to the South. The slope to the north is far from anomalously steep. Dynasty had a closed magnetic anomaly and reason to extend lines to the north.

Do I hand over the information on the north end of lines 48 - 64 ? It would'nt disclose anything in fact it would serve to confuse . All in all it's a freak of a situation with the coincidence of the strike of the anomaly and the claim boundaries. I think that Sirola has to be told there is an anomaly before too long and I would like to be the one to tell him - otherwise if he gets time to contemplate the matter he may fall back on ~~the~~ whichever prior arrangement gives the blame to United. Hope you have some ideas.

I think we need the intermediate lines 52, 60, 68 and 76 run from 00 to about 14 N as the 4.8 - 5.1 contours are pretty hypothetical between the lines. Any line extensions will aid the interpretation - particularly north to Swim Lake and maybe south at 64. Base Lines 00 and 10N should be extended to the west and possibly another N/S line put between them. Now you have the map you will appreciate the reasons for the previous program extensions - I hope.

You will also appreciate that it is impossible to identify any regional trend so treat the map as a residual map. The lows are very much amplifying the highs - unless of course you can find bedrock shallower than 10ft. over the area - then it's quite an anomaly.

Please tell Ron Markham that I will send for the remaining shares early next week.

Sorry the map is on the 400 scale but 500 is too small and 200 too large. If you have any information as to depths to bedrock in the "low" regions I'd be interested in them.

Will talk to you on Thursday.

Sincerely Yours;

Tony



INTEROFFICE COMMUNICATION

John Brock LOCATION Swim/Cub DEPT. OR PTY. NO.
 FROM Joe Webster LOCATION Calgary DEPT. OR PTY. NO.

DATE: April 12/65

SUBJECT: Sea Group

Learned this morning that Bob had already shipped to you the field data for this area. If you do not have time to do some experimental work on the density used, bundle up and ship back to me and I'll try to come up with something.

Hope that the wire we sent does not lead you to believe that we have rejected the idea that there may not be a better choice of density. It is just that this appears to better suit the problem at hand with the information available. Bob feels that further work is justified after the rush program is over. That is probably not worded too well. By this I mean that rework of the current data is advised using various densities after the present study of profiles and drilling is complete. Are you with me?

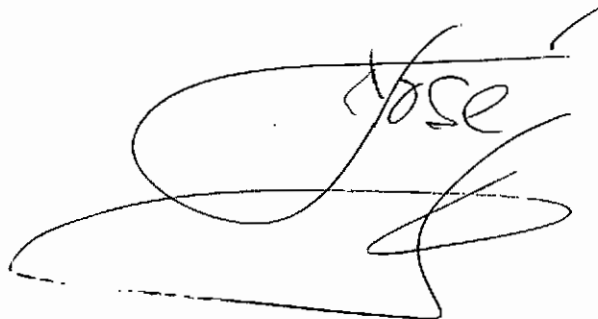
While waiting for you to return the field data - or advice that you are doing it yourself - I am experimenting with the N/W portion of Sea. I am endeavouring to come up with some sort of regional. My first attempt was far from gratifying. There is so darned little area involved, coupled to the fact that there is this darned big negative plunked in the middle distance.

Has turned real warm today and it is none too soon to suit me. I had to spend Friday nite in Edmonton as Calgary was all socked in. Sam and I had some real cloud to fly thru. on the way to the Horee. Was rather exciting! But was not all all rough- just sort of wondering which valley to fly down to get under the clouds!

Have sent the Swim News Herald with the shipment of stuff to Mike along with copies I had made. Tell Dave that I have sent on a copy to his spouse. The office staff has had a good laugh over them!

Well, John, hope to hear from you real soon. Regards to the guys and tell Dave that I have shipped part of his stuff, but the Kelly bushing had to be built so should leave Wednesday.

Adios y hasta pronto,



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PASADENA TULSA HOUSTON NEW YORK CALGARY PARIS CARACAS RIO DE JANEIRO SANTIAGO

718-5th STREET S.W.
~~SUITE B-534 6TH AVENUE S.W.~~
CALGARY, ALBERTA

April 13, 1965

Mr. John Brock,
Dynasty Explorations Limited,
Whitehorse, Yukon

Dear John:

In reference to your notes on Sea Claim Group regional and residuals, I have the following comments for the moment:

1. The area is too small to establish a proper "regional".
2. In attempting to draw a regional by the profile method, one should start by drawing average lines through each of the profiles in, say, the N-S direction. Then plot the values of these average lines on the profiles of the E-W lines at the intersections. Now try to draw average lines through the E-W profiles using the intersecting points. You will find that this cannot be done very well. So adjust the intersecting values and plot these on the N-S lines. This will require an adjustment of the average lines on the N-S profiles. Redraw the N-S average lines to incorporate an adjustment which you can live with. Then plot the new intersecting values on the E-W lines and adjust the averages of the E-W profiles. Continue to work back and forth between the two sets of lines until you have a reasonable set of average lines through all the profiles. These lines must tie in value at each intersection. The average lines need not be straight lines. However, over an area as small as this, don't give them much curvature. You could go so far as to make your regional map a duplicate of the bouguer, and your residual map would have zero value all over.
3. Contour your regional map, so you can get a bird's eye view of what you are removing. It may not be logical (geologically).

Mr. John Brock

April 13, 1965

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4. Next, of course, algebraically subtract the regional values from the bouguer values and plot the differences as a residual map. This will have negative and positive values.
5. I am going to discuss with our research department the possibility of devising a computer programme, based on a small template, which would yield a "near surface" residual map. Will let you know what comes of this, if anything.
6. It certainly looks as if our elevation corrections in the NW part of the Sea Claims are not accurate. A density factor of 2.4 for the overburden would have done a better job. Yet the use of 2.4 instead of 2.77 would not eliminate the anomalies - or even alter their appearance significantly.

Hope to see you in 2 - 3 weeks.

Yours very truly,



RBG:pmm

Robert B. Galeski