

P.O. Box 360
Grand Junction, Colorado
February 6, 1976

Otis Marston
2333 Vine Street
Berkeley, Calif.

Dear Dock,

Richard G. Lewis, U.S.G.S., Denver Federal Center, has asked me to contact all who might be able to furnish boats and/or boatmen for a trip which he plans through Cataract Canyon sometime this year. Dick's mapping areas include some of this river section which he is unable to reach easily by climbing over the top, etc.

I have written to the people listed below, but am sure there are lots of others who might be able to help. Dick would much appreciate any further additions which you would make to this list and forward to him.

Harry Alson	Elwyn Blake
Parky Brooks	Moulty Fulmer
Dave Caskill	Gon Harris
Bus Hatch	Pat Reilly
A.K. Reynolds(&Hallacy)	Bob Swift
Georgie White	Frank Wright(&Rigg)

Haven't made any definite plans for running this summer. Parky Brooks and I had planned on a Salmon or Snake trip, but his Black Monster is hung up at Bright Angel....so maybe we'll stick closer to home at Dinosaur. We are planning to try the Grand again in the summer of '77...but I don't know if I can stand to wait that long to get back to the Little Colorado for pictures.(I ruined the entire roll which I shot there last summer.)

George C. Simmons

Copy: R.G. Lewis

Richfield Utah
February 14, 1956

Richard G. Lewis
USGS Federal Center
Denver Colorado

Refer to:
George C Simmon's letter
of February 6, 1956

Dear Mr. Lewis:

George C Simmon's letter of February 6 came in here on the 9th. It is very nice to receive it.

Larabee and Aleson would be very happy to be able to assist you on a special mapping trip down thru Cataract Canyon.

In July 1947, I piloted a One-boat party from Green River, Utah down to the confluence with the Colorado River - to Rapid No 1 in Cataract, thence up to the Hoab bridge on outboard.

In late October, early November 1947, we again launched one boat - a 7-man Neoprene - and made the run to Hite. For safety we portaged and lined the more rugged spots.

In August-September 1951, one of my boatmen and I left Green River, Wyoming in two 10-man Neoprenes, rigged as rowboats, and ran every inch of water down to Hite, Utah, - including, of course, Hells Half Mile and the 55 rapids and riffles in Cataract. A month earlier, in July-August, with a three boat outfit, all 10-man Neoprenes, we ran all the water excepting three rapids of the Marble-Grand section. That gave us 1,063 miles in one season, or rather, continuous on the Green-Colorado from Wyoming to Nevada.

Your proposed Cataract Run can be made safely with one 10-man, - or as many additional as required. We have available ten 10-man Neoprenes, plenty of camp and kitchen duffel, power wagon for all transportation, etc. We never pass sleepingbags from one guest to the next, therefore, each supplies his own, and air mat.

For protection of films, cameras, instruments, and other we loan you the U S Army WSP bags - 9" x 12" x 18", inside. Generally, all equipment is carried in these waterproof bags.

To a certain extent, I could assist in mapping, as I have had experience in chaining, roding, recording, the transit and plane-table.

As of this time, the best available time for me would be from about April 15 to May 15, - and all of October. If you suggest an approximate time, or number of day, number of members in your party, weight of instrument equipment and personals, we can better arrive at a day by day cost, and/or contract price if desired.

George Simmons.

Sincerely yours,

Harry Aleson



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO
Building 25

February 15, 1956

Mr. George C. Simmons
U. S. Geological Survey
Box 360
Grand Junction, Colorado

Dear George:

I certainly appreciate your help in contacting your numerous friends concerning our proposed boat trip. I have received replies from Dave Gaskill, George White, and Bus Hatch. Both Hatch and White say they have plenty of equipment and would be glad to make the trip. However, I fear it would be quite expensive.

I have made arrangements here through Geologic Division for three 6-man rubber boats, life jackets and waterproof duffel bags. I feel that we could make the trip with our own equipment much cheaper, and at low water it shouldn't be too dangerous. I figure that we could have two men to a boat and with 3 boats we could carry 6 people. This would allow room for Russ, Frank, myself, and three boatmen.

I would appreciate your comments as to your ideas. Do you think it is feasible to make the trip in rubber boats? Would two men to a boat be okay? Would you be able to go? Do you think of any other gear that we might need?

I fully realize that the larger wooden boats would be more comfortable and probably somewhat safer. However, when I weigh the expected cost at \$1600.[±] against \$300.[±] I wonder if it is worth the great difference. I think that we can make the trip at low water with the rubber boats. Another factor, of course, is the time element. We would like to take plenty of time and probably stop several places and do geology for a day or so. This means we would be paying boatmen \$20. to \$25. per day while they waited for the geologists. Hence, we would pay for a two-week trip and probably only spend about half that time on the river.

Well, anyway, I thought I would let you know my plans and see what you thought. I will probably be over to Grand Junction this month and will see you then.

Best regards,

Dick

Feb. 19. 1956

Dear Sim:

Glad to hear from you and also to hear that you finally made it thru the Canyon. I suppose you were in Georgie's mob. That trip is so good that it would be difficult to spoil. tho a mob would come close as far as I am concerned.

I finally got a letter off to your friend Dick Lewis, and I enclose a copy.

As I tell him, I had it in mind to run Marble-Grand again, but am not set. I don't run commercially but try to make my trips pay for themselves. There is also wear and tear on equipment.

If I took it on I would probably run on down thru Glen. Marble and Grand. anyway. Would you be available for at least the part thru Cat?

I can handle six. including two boatmen. with ease. and maintain a safety factor in the roughest water. I never pack in extra supplies on my Marble-Grand runs.

I don't know if Moulty is going to run this year or not. He is planning a trip to Hawaii soon and may settle for a dude vacation. I'll probably do the same when I get tired running rivers.

It was nice hearing from you, and I hope to meet you sometime whether the Cat deal jells or not.

Sincerely,

Pat Kelly

DON HARRIS
2500 East 48 St.
Phone ~~SL-2193~~
Crestwood
7-2193

JACK BRENNAN
~~1800 Blackhawk~~
~~SL-2193~~

HARRIS-BRENNAN RIVER EXPEDITIONS

Scheduled and Charter Trips on Scenic Western Rivers

SALT LAKE CITY, UTAH

March

5

19 56

George C. Simmons
P. O. Box 360
Grand Junction, Colo

Dear Sim-

Thanks greatly for your letter of February 6, 1956. It arrived while I was assigned to the Boise District, from which I just recently returned, thus the lengthy delay in reply.

I was glad to know that another member of the most extraordinary fraternity of River Rats is keeping in touch with the River. Marble and Grand Canyons are very interesting, and some of the rapids are a real challenge to the adventurers who tackle them. I have run the Grand 4 times now and have enjoyed every trip. We did not run Grand last year, but did run the Cataracts again - for Sinclair Oil this time- my 10th, trip through Cataract Canyon.

I am currently writing Dick Lewis, and offering our services for his planned trip in the Cataract Canyon area, or if he prefers to make it on his own we will try to locate some 10-man rubber rafts for him if that type of craft will be suitable for his purpose.

Jack Brennan, Fred Soeyer and I are still quite active on the river every summer. We have guided a number of 'Dude' trips in the past 2 or 3 years. Last year we ran around 1100 miles -all river runs combined. This year we already have tentative plans for several short week-end trips and a weeks trip through Grand Canyon in early June, then through Hells Canyon on the Snake River during July. Of course it is still too early to know whether any or all of the trips will materialize.

If in Salt Lake drop in at Room 503 in the Fed. Bldg. and we might bore a few listeners by hashing over a bit of river gab.

Sincerely,

Don
Don Harris

Reynolds Canyon Expeditions

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Formerly Greens' Lakes Lodge

Postoffice Address--P. O. Box 592, GREEN RIVER, WYOMING

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White Water Vacations in the
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Yampa and Colorado Rivers

March 20, 1956

Hunting and Fishing Lodge in
Utah Mountains -- Vacations
on the Rim of Red Canyon

Dear George,

Sure was glad to hear from you again. Now that you're back in the river running country, maybe we can get together again. I have really gotten my hands into the tourist business now. I've been running the H--- out of the upper canyons the last several seasons since they started the argument over Dinosaur Nat'l Monument. A year ago last fall we took over the resort at Greens' Lake north of Vernal. It works in good with the river.

Hate to see them pass the Upper Colorado project. It is going to ruin a lot of good river running. Glad that I have been able to see as much of the canyons as I have. Keeping busy up here, I haven't been able to get too far away. We ran the Grand in 1953, but would like to do it again one of these years. The darn old snow just doesn't hold up so we have enough water to do all that we would like. It does look better this year than it has.

Sorry that we can't get together this spring on that Cataract Canyon trip. Let's hope that something works out for this fall. We could have a good time out of it, as I enjoy working with surveyors. At times, they even remind me of people.

Drop me a line from time to time.



U.S.G.S. Slick Rock Camp
% Eggar, Colorado
June 27, 1956

Dear Dick

Hope you are having a summer full of interesting boating activities. It looks as if the season will be a good one from this end of the line.

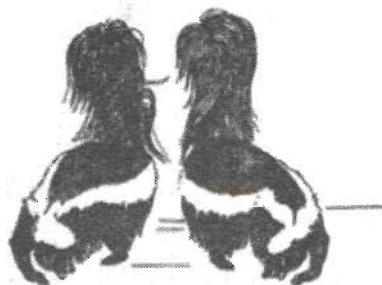
There is a little more news about the Proposed U.S.G.S. mapping party through the Cataracts which might be of interest to you. In your last letter you mentioned that there were some things which you would like to have looked up. Well, you can dig out the questions for the trip originally planned for July 1st will be made later, toward the end of the same month.

You may have been informed previously, but I'll repeat it here. Three 10-man neoprene boats have been secured for the voyage. The party will consist of six men. Two of the men, Dick Lewis and Frank McKeown are in charge of mapping projects which include parts of Cataract Canyon. Dick Lewis has organized the trip, and most of the planning has been under his direction. Russ Campbell, geologist and assistant to Dick Lewis will also do some mapping in the canyon. The other three members of the party will be a U.S.G.S. paleontologist (I can't recall his name) whose chief function will be to keep the weight of fossil specimens at a minimum, a ranger with the U.S. Forest Service from Monticello (I can't recall his name either), and my self. I have been loaned from the mapping project in the Slick Rock district to advise the boating group in things waterwise, and will be the only one in the group with white-water experience. It may sound peculiar to have three boats and one boatman, but from what I have seen and heard of the others I expect to be the weakling of the party.

Made two short trips on the Dolores River last month and am including three pages from my note book and one color slide, all of which I would like returned when you are through with them. The earlier of the two trips was made near maximum runoff which is the best time for boating on the Dolores. The trip was a very enjoyable one both from the point of view of scenery and boating. The only incident was a broken aluminum car which was repaired by the good whittling of my companion, Bob Gant. The two rapids to which we applied names received their titles from what happened at their locales. The later trip though only two weeks later was in rather low water. The prevailing southwesterlies pushed us well all day until the river took a bend which made the last two miles a two hour experience. We also garnered two holes in the bottom canvass when the bottom canvas became sandwiched between rocks and a water proof metal ammunition case. Two portages were made on the second trip: one for a fence line, and the other for a large jack pine which in falling had completely blocked the river. At one other point the river was over lain by a pine, but by hard upstream rowing were able to ease into the tree and work through the branches.

Many of "us river-rats" appreciate all of your efforts on behalf of things conservations are supporting.

Sinc



OTIS MARSTON

2333 VINE STREET - BERKELEY 8, CALIFORNIA

Ashberry 3-6160

COLORADO RIVER CHRONICLES

July

4

1956

Canyoneer Sim

Many thanks for the information in yours of June 27th.

I had not heard about progress on the USGS mapping party in Cat. It isn't too novel to have three boats and one boatman. The Chenoweth party which surveyed the Canyon in 1921 had three boats and one boatman: Ellsworth Kolb. Ellsworth ran the three boats thru nearly all the rapids. There were others who could handle a boat but the survey tended to keep them rather busy.

If you get a chance near the Junction, please go over to the left bank of the Colorado. The Stanton survey of 1889 came down from Grand Junction and they marked a point there on a boulder. The surveyors went from there up to Green-River. It was in Greenriver that Stanton took charge of the actual survey. The boats cruised down to the Junction and Stanton picked up his line from there. I think you ought to be able to find this point with references marked on a boulder. I also think the Kolb brothers left a marking there. I don't have any record that anyone has looked for these things.

new
At Mile 213, there is an open flat on the right bank. If you have the chance, look for the horse trail up out of this flat. There are big stones laid so a horse can go up or down. You will recall that a message was brot in here to the Eddy party in 1927. There are names cut along this horse trail. Please note the names and dates and take a picture or two.

There is a side canyon opening on the left right at the Mile 213 point. I would like to get a photo of this side canyon. If you should have the time, I would like to know the nature of the bed of this side canyon.

At Mile 204, right bank, there are a number of inscriptions on the rocks. Please note and photo these inscriptions and photo the River off the bank here.

At Mile 212 7/8, in a gully on the right bank is a large rock slab. There are many fossils in this gully. You will find a note about the POWELL painted on the rock. Please photo and note the marking.

There is a vague report of a D. Julien inscription near the head of Cat. It seems to me this would be in the side canyon at LB at Mile 213 if it is anywhere.

At about Mile 197 on the left bank, two men brot horses to the River about 25 years ago. The did not come down Gypsum Canyon. This crude trail should be checked.

I have a vague reference to a Julien inscription near the several inscriptions at Mile 204. I feel quite sure this is an error.

Below Dark Canyon is reported a new and sizable rapid due to a new fall of rock. Please rate this rapid and take a picture of the area. It is 3/4 miles below Dark Canyon.

You did not say how you were going to get to the head of Cat. Please let me know on that and your date of start. I may be able to get some other stuff to you for checking.

I have copied the notes on the two Dolores runs. I am having a print made from the slide and will enclose the slide with this letter as soon as it comes back.

True enough - you need water in the Dolores. Pres Walker ran it several times but finally lost his boat and the party had to walk out.

We had a wonderful run of the Grand Canyon even tho we buried one of the crew who died from a bad heart. Fortunately we had a doctor with us who did everything possible. The other event of the trip was the capsizing of one boat in Vulcan (Lava Falls). The pilot took on some of the heaviest water and caught a side wave and over they went just that easy. They floated five miles before they were picked up on the bottom side of the boat.

The 60,000 feet of water made fine running with the only rapid that was up to a 10 rating being Vulcan. The two 30HP engines gave us a fine balance on the 18' boats and we could make just under 20 miles when cruising at top speed.

Cheerio

A large, stylized handwritten signature, possibly reading 'Dad', is written in dark ink. It features a long horizontal stroke at the end.

U.S.G.S. Slick Rock Camp
% Egnar, Colorado
September 25, 1936

Dear Dock

For some unknown reason your letter of July 4 did not reach me until after the conclusion of the USGS Cataract Canyon trip, and I am unable to supply the information you wished. However, there are a few minor items which might be of interest to you:

(1) The open flat on the right bank at Mile 213 is known as Spanish Bottom. This is but one of quite a few names appearing on the new U.S.G.S. topography sheets covering the area.

(2) In regard to the side canyon on the left bank at Mile 213: I do not know what the boys decided about the formation in this canyon. A previous worker, mapping from an opposite rim(right bank) identified an exposure of the Paradox formation(probably gypsum bearing) in this vicinity. After checking the exposure, and I am not sure whether or not they checked it in the ^{side}canyon, the boys were undecided, and wanted to wait until they looked at the exposures in Gypsum Canyon before making up their minds.

(3) From the looks of droppings in Gypsum Canyon it appears that at least one horse wintered there last year. It is impossible for a horse to get down the main drainage of Gypsum Canyon as there is a deep sheer fall about four miles up. None of the side canyons to Gypsum Canyon which were checked revealed possible routes. There are a few places near Mile 197 where a man could climb over the rim without great difficulty, but I did not see a horse route.

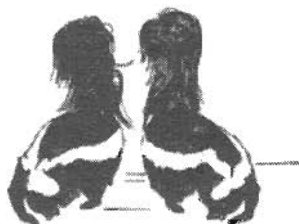
(4) I made a log of the activities, and as soon as I can get a few copies typed I will send you one. I tried to keep accurate notes on the rapids, particularly those over Class 4, and am disturbed to find that I have no reference to the new rapid which you mention 3/4 mile below Dark Canyon. There is a large fresh landslide scar about that distance up Dark Canyon which is visible from the river above Dark Canyon, but I can recall nothing of the sort along the river itself.

Could you tell me whether or not the Julien who made the several canyon inscriptions was a native Frenchman, and if so whether or not much is known about him. I have a sister-in-law(French) who is presently in France, and I thought I would ask her to do a bit of detective work for me if there seemed a likelihood of turning up something.

In the notes which I sent to you last June I made a mistake in listing the McPhee Ranch as one of our starting points. The McPhee

Ranch is farther upstream, near Dolores, and the ranch near which we started is the McDonald Ranch.

Glad to hear of your fine Grand Canyon trip. Looks like I'll have no more trips this year, at least water wise, but I did get in a nice climbing trip to Colorado's Needle Mountains, and I hope to get in one more climbing trip before the snow flies.



OTIS MARSTON

2111 VINE STREET - BERKELEY 4, CALIFORNIA

Ashberry 1-6100

COLORADO RIVER CHRONICLES

October

25

1956

Canyoneer Sim

That was tough about the late arrival of my letter but your comments help a great deal.

I have just returned from a trek around the Southwest and went down that side canyon opposite SPANISH BOTTOMS. It is impossible for a horse to come down the main canyon at that point but the walking involves no danger.

I know the open flat is known as SPANISH BOTTOMS. I can add a simple question to that and ask "Why?" I wrote to A. A. Baker, USGS asking why he used the name on his maps of that section and his reply was that it was generally known by that name. That leaves my question unanswered.

I think that side canyon was gyp for about a mile from the River. There is an uplift that tilted the strata up toward the River. I will be interested in the observations of the Survey crew.

About a mile from the River there is a drop-off of about 500 feet but it is not difficult to get up and down at several places on the right side of the drop. Further on there is a drop of 30 feet and this is easy to by-pass on the left. A little beyond this drop, the drainage swings into the graben to the south.

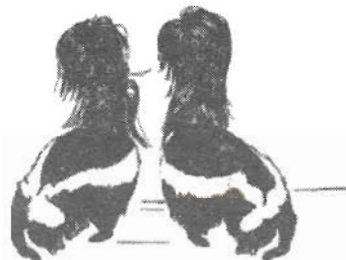
The horse angle at Gypsum is pertinent. There is a way to the River by a trail above Gypsum Canyon. We also found horses had been in the side canyon we traveled and Kent Frost (who was with me) knows of the man who had his horses down there.

I am guessing there is a route to the River from that group of side Canyons on the left about 2-3 miles below Spanish Bottoms. We walked down to a point between the first and second rapids and could see some sign of trails in these canyons.

I look forward to the opportunity to study your notes. I would also like to borrow slides which you might have made so I might get prints showing your operations, crew and equipment.

The best answer on Denis Julien is to send the enclosed copy of Kelly's article in the Utah SHQ. Did you get anything on Julien during the Cat run? What were you looking for in reference to him?

Cheerip



OTIS MARSTON

2333 VINE STREET • BERKELEY 8, CALIFORNIA

ASHberry 3-6100

COLORADO RIVER CHRONICLES

December
10
19 56

Canyoneer Jim

Golly, that's a swell job you did on the Cat run and I thank you for the copy of the record.

What does Dick Lewis do out at Kigalia? We have been out in that section in 1955 and this year.

You didn't break any oars so they must have been OK. Where did you get them?

I don't think your signing the release in event of accident would be any good. In case there was neglect, you would have a good right of action even tho you signed. Other than that, you undertook what you knew to be a trip involving some danger.

Are the particular mapping projects some secret? I am much interested in the maps of that area and particularly on the left side of the River.

I hadn't heard of the prospector being stranded near the Junction.

Kent Frost and I must have walked by your ~~stop~~ stop at Mile 213 when we were out there October 2nd. We came down the side canyon opposite Spanish Bottom and walked down the shore past the first rapid. The water was almost clear and I would have rated the first rapid about a 1. I might have given the second rapid a 1 1/2. I think the stage was around 3000cfs.

We noted two stone monuments near the mouth of the side canyon called Red Lake Canyon on the 1921 maps. They indicated age. Did you note others on down the Canyon on the left bank?

What was the particular interest at Cross Canyon? Where did you pick up that name?

And speaking of names, did you ever ask anyone why that is called Spanish Bottom?

Did you have much trouble with the Exacta? Bill Belknap has been using one and has told me I should take one on but has now changed his mind saying it is too delicate.

Where did you get the information that USGS lost a boat at 202 in 1921? Best lost a boat at 204 in 1891. USGS pinned their boats at Dark Canyon in 1921 but did not lose them. In October of 1948, Harold W. Chase of the USGS left a sadiron pinned to a rock just below the Big Drop. I think this must be the boat you mean.

Let me in on the Cape May yakking. I spent some cold weeks down there in December and January of 1917 and 1918 living in the old amusement building at the end of the board walk.

That spring at Dark Canyon is near the small ledge that runs out to the edge of the River below the Rapid. It is hidden in among some redbud. I think Randall Henderson built a cairn there.

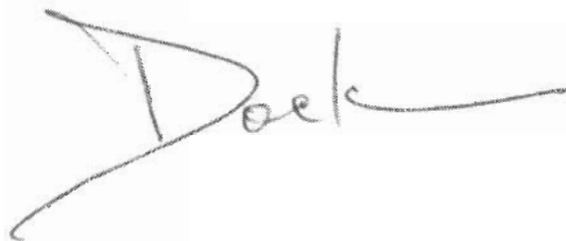
You did a swell job of rapids rating. This little system is beginning to do some real good.

I had intended for you to keep the Julien item. I'll send it back if you wish. I agree that Kelly isn't justified in his guess that he was in a boat. Kelly made the Glen Canyon traverse in 1932 and again in 1938. He did a lot of looking for inscriptions. So have many others. None have reported to me any Julien inscriptions altho Kelly tells me he has heard there is one up on the Paria.

I look forward to seeing your slides and want to get prints from some of them. I have a lot of pix in Cat which I have not been able to identify so yours will undoubtedly help in this.

I will be in Seattle around Christmas and in Los Angeles right after the New Year for about 10 days so please don't send them when I am away. I will be home from December 26th to New Years Day and will get home again about the middle of January.

Cheerio

A large, stylized handwritten signature that appears to read "Dick". The signature is written in dark ink and is quite fluid, with a long horizontal stroke extending to the right.

U
December 11, 1956

Dear Sim:

Thanks a million for letting me have access to the diaries of your Grand Canyon and Cataract runs. My wife, who is home recuperating from an operation, read them and said she like your style the better of the two.

Am keeping the one on the Cataract trip. If you need it please let me know. I've never been thru that Canyon and may never, but live in hopes of it.

Looks like river running is getting to be a thing of the past with so many dams in prospect. Understand the San Juan and Glen Canyons are closed and 1957 may be the last year for unrestricted flow thru the Grand.

Will make my fourth run thru the Grand next June with Pat Reilly and his two boats. Not sure whether I wrote you we made the trip last summer or not. Started on 38,300 and lost most of it during the 18 days in the Canyon. No mechanical difficulties, with the exception of one broken oar pin on the Flavell and minor patches to the Susie-R and Flavell on two different occasions. Ran all but Lava Falls. Some rapids were easier and some tougher than the preceeding summer. Some were covered over and some new ones made their appearance. This is natural with different flows of water.

Ratings of rapids cannot be constant. Most vary with the stage of water. A six rapid may rate three or eight at different flows.

Believe I sent you a copy of my 1955 diary, if not let me know. Have not copied my minutes taken during the 1956 run.

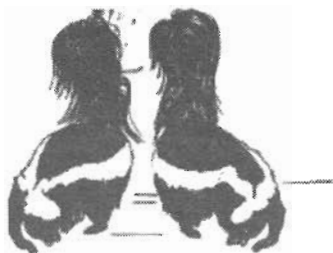
We ran a lot of rapids wide open as we call it - not stopping to look them over. Only ones we stopped to examine were Badger, Soap, North Canyon, Tanner Wash, Kwagunt, 75 Mile, Hance, Sock, Grapevine, Horn, Granite, Hermit, Bedrock, Dubendorff, Upset, Lava and 205 Mile.

Incidentally, I went thru the big hole in Upset. To say the least it was a rough ride.

Hope you like your next assignment.

Best regards,

Moulty



OTIS MARSTON
2333 VINE STREET - BERKELEY 8, CALIFORNIA
Ashberry 3-6100
COLORADO RIVER CHRONICLES

May
30
1957

*Richard Rozak
USGS
Denver*

Canyoneer Sim

Copy to C. D. Campbell

The slides are on their way back to you and thank you for the loan. I took off prints from 41 of them - that figure is 41.

I have gathered a number of prints from the Stanton and Best parties of 1889 and 1891 and your pix will do a lot in helping me to tie down the locations.

I'll be willing to bet that I will wish I had prints from them all. The cost angle does some controlling. I take prints rather than dupe transparencies.

Note that Holmstrom had two m's in his name.

Burg, Johnson and Holmstrom were together. 1938 after Nevills.

I think you had a little less water at Dark Canyon than did the USGS party on September 27 and 28 in 1921. The rx in center were just being covered and they hung the boats on them.

Your photo is the first I have seen of the sulphur spring. There are several of them thru there and on both sides of the River.

I find there was a geologist looking down into Cross Canyon in 1926
Your 210 $\frac{1}{2}$ Mile action ties with Dave's shot of you 10 27 52.

I have a lot of work to do on the pix of Cat. Stanton had pix taken as he ran his traverse in 1889 so they will be set as soon as I can work out his traverse figures.

I suggest you throw away the self-portrait as you might wake up some morning and take a look and just quit right there.

Again my thanks. I should write at greater length but I leave tomorrow for Flag to get a Grand Canyon trip rolling for June 10th - high water seems a fine prospect.

Cheerio

% U. S. G. S. - P. O. Box 360
Grand Junction, Colorado
April 15, 1957

Dear Dock,

I have been waiting to write until the Cataract Canyon Slide Set was assembled. This has taken somewhat longer than anticipated, but has now been done. The slides are making the rounds of several interested people, and there is one ahead of you in the list who may have a few duplicates made. It is hard to predict just when they will reach you, but if it is longer than four weeks, drop me a card and I will prod the delinquents. The slides will reach you from Charles D. Campbell, Geology Department, The State College of Washington, Pullman, Washington. After you are through with the slides would you please forward them along with the short commentary to Richard Resak, Paleontology and Stratigraphy Branch, U. S. Geological Survey, Denver Federal Center, Denver 2, Color. do.

You will note that some of the slides are duplicates. As duplicates made from duplicates seem to suffer as much as duplicates made from originals, this cumulative affect can be avoided by using only originals to make duplicates. So if you would like to secure the originals for some of the slides I will be glad to run down the source.

In response to your long unanswered questions:

(1) Uncle Sam has done a lot of mapping on the Colorado Plateau as a result of the uranium quest and financing by the AEC. Dick Lewis has mapped six or seven 7½ minute quadrangles about Elk Ridge, Dark Canyon, etc. Dick's location at Kigalia is due to his own preference of camp sites for convenience and comfort.

(2) I do not know whether or not the 7½ minute topography sheets are yet available beyond the the advance sheets issued to mapping parties. You can probably find this out by contacting a Federal outlet for maps in your area. The origin of the names used can be something of a mystery. Usually the names are applied after all of the old-timers have been talked with. In this case there are only a few ranchers on the south side to whom reference can be made. To hazard a guess I would say that the names used were made up by the local cowpokes, and that the few names which have been passed down by mouth will largely remain a mystery.

(3) I do not believe that the stranded prospector got any publicity. If memory serves correctly he was hung up at the junction from one to two weeks. He apparently conserved both his food supply and energy very well for he seemed to be in pretty good shape.

(4) We did not note the two stone monuments near the mouth of Red Lake Canyon nor did we see others which indicated age.

(5) The interest at Cross Canyon as in several others was to determine whether or not the Paradox member of the Permian formation was exposed.

(6) About Takitas; this could take a small volume. I think that they are the best all-around camera made. Unfortunately, the Takita is a precision instrument, and like many precision instruments has to be treated carefully. Under such rigors as river trips the Takita does not stand up as well as some other camera types, and I would expect that a Leica would better fit the bill. Specifically, beach sand seems to get into the shutter winding and cocking mechanism in spite of plastic bags and air tight containers. Also, on all but the most recent models there is the danger of the winding cogs stripping out the film perforations and an entire sequence of pictures lost due to the film not winding (this is not unique to river trips).

(7) Cape May... (ugh)... Your winter of 1917-18 sounds much like the one I spent there in 1944-45. If you were in Cape May for the same kind of reason that I was this would make you about 60 or 61 years old which though not old in these days is still a respectable age for such active interest in the Colorado River.

I am currently preparing "Nicholas McElfoot" for some new adventures. Uncle Sam is transferring me to Brazil for a two year stint of mapping iron deposits (July 1). There are some canyons in the highlands near Belo Horizonte where we will be living, and I hope to find some white water on the headwaters of the Parana, The River of Old Women, and some others whose names I cannot recall or pronounce.

Regards