

P4
FILE C. W. CO.

June 11, 1913.

Mr. J. C. Palmer,
Cuyamaca Water Co.
Lakeside, Cal.

My dear Palmer:

I have talked somewhat to McFadden regarding the Boulder Creek situation, but am writing this to give you the objects you are to cover.

1. Out original Reservoir Survey map K-2-21, seems to be partially covered by mining claims. The first work is tie in all corners which are near or in our high water line. I have sketched them as well as I can with present information on map K-2-21. Mr Geo Moyer who is at the mine and a part owner will be glad to show you these corners. The sketch I enclose is given me by Mr. Klein another owner, and there is no objection to showing Mr. Moyer this. But it will be just as well to keep K-2-21 out of sight.

2. If the mining claims are sufficiently out of the way of our reservoir to admit of a 40' or 50' dam without getting on their lines. Start your survey as indicated on the map 10 feet above water level and run on grade of 2 feet per 1000 to the power site.

3. If the claims are so located as to cross the river or covers the dam site, you will chose the best dam site above which is on U.S. Land, as for instance in the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 10. The probability is that your choice will be a little above the road crossing in SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 10.

4. You will then survey a reservoir with 100 ft dam (by stadia and quick as possible) and start your canal line from your new dam site. Get a few stadia shots to the streams in the reservoir survey so we can contour and compute area.

5. Send down a pencil tracing of the mining claims on this map K-2-21 as soon as possible.

You can always reach me through Harritt by telephoning from F. E. Feclers. His Ranch is about 4 miles NE on Johnson Creek. Send somebody up there to notify me that you want me and I will come up at once. I want to come up if you have the slightest doubt as to where to put the diversion point. In any message at Fecler's do not discuss these questions. He will tell the mining people.

Our object just now is to secure some sort of a reservoir site not complicated by mining claims, whether it is the best one or even if the dam site is pretty poor is not important just now.

Yours truly,

FILE

C. W. CO.

June 16, 1913.

Mr. J. C. Palmer,
Lakeside, Cal.

Dear Sir:-

I wish you would please forward us the dimensions of timbers in present flume that is to be replaced in our reconstruction.

This is to enable us to work up a drawing similar to that of our standard trestle, but using the old timbers.

Yours very truly,

FILE

P3

San Diego, Cal.
June 18, 1913.

C. W. CO.

Mr. J.C. Palmer:
Lakeside, Cal.

My dear Palmer:

Regarding grades for the trestle, this will be set directly from the flume grade, alongside, using of course the enclosed diagram for different types of construction.

The tunnel grades are related to the flume to the west, so you need not delay setting up the trestle on account of the 1 foot error in the syphon survey.

The error is important only on the syphon, and I will be glad to get the new notes and correct the profile.

In other words base everything west of the end of the syphon on the grade of the flume at the ~~WESTERN~~ west portal of the new tunnel, using .9 per 1000. Base everything east of the entry box of the syphon, on the flume at east or upper portal of existing tunnel No. 1.

Yours,

San Diego, Cal.

July 25, 1913.

[JOHN C. PALMER]
CSR

My dear Palmer:

I am getting a little nervous as to time of completing survey. I think my last date for filing with the State Water Commission is Aug. 4.

Of course the idea was to get all the data while at Boulder Creek camp, but all that I need absolutely for water Commission is a set of field notes for the conduit line. From now on you had better plan with this in mind to get the alignment notes complete in to me as fast as you can and then take your time on level data etc.

My suggestion is that you swing around to the lower end pretty soon even if some cross section and otherwork is omitted from your Boulder Creek Camp.

Very sincerely yours,

84

FILE

P7
C. W. CO.
FILE

July 31, 1913.

Mr. J. C. Palmer,
Lakeside, Cal.

Dear Sir:

We are ordering a thousand linear feet of steel flume and I want, within the next two days a schedule of the ~~length~~ linear feet of curvature and the radius required. This thousand feet will be installed west of the outlet of the south fork syphon and I am sending you copy of the original field notes. The idea will be to inspect existing trestles and decide whether they should be rebuilt entirely or simply overhauled and the steel flume put over them, we should standardize the curves upon the following schedule (except where you decide it is not feasible)

<u>Degree of Curve</u>	<u>Radius</u>
180°	33
96°	60
48°	120
24°	240

For this work, I propose to define 1° of curvature to consist of 1° subtending 100 ft of arc instead of the chord.

Your schedule should give the linear feet and radius required together with enough straight lengths to make up a thousand feet of flume in all. Telephone your list as soon as you are ready to the office or better, send in by messenger.

Very sincerely yours,

P8
C. W. CO.

FILE

August 5, 1913.

Mr. J. C. Palmer,
% Cuyamaca Water Co.,
Lakeside, Cal.

Dear Sir:-

Herewith table of radii computed for curves to be used in new flume alignment based on angle subt-ended by 100' of arc.

Very truly yours,

P9

C. W. CO.
FILE

August 11, 1913.

Mr. J. C. Palmer,
Lakeside, Cal.

Dear Sir :

I have just talked with Mr. Fletcher, regarding the cement lined conduit from Tunnel No 1 to the beginning of the Syphon and it has been decided that we will adopt the trapezoidal form for this section using three inch thickness (3") concrete with light wire mesh imbedded. I enclose a sketch of the section proposed.

As all your operations must be analyzed carefully with reference to cost, I wish you would commence at once a detailed book giving the daily operations and the time on each job and material used. This data will govern our work elsewhere. I understand you are to have a timekeeper and this work I suppose can be handled by him.

Please prepare a final profile and alignment from the upper end of Tunnel No 1 to the outlet of the new tunnel, showing all construction details, all corrections of original profile, etc. I am subject to some criticism for not having these profiles ready in this office. Please make one up for your use and send a duplicate to me, holding one of the boys from the Tule Springs survey if necessary.

McFadden tells me you planned to send the party to Tule Springs Thursday, so you had better arrange to bring

WSP to J C Palmer #2
8/11/13.

R. A. Hamilton and rodman up Wednesday. I am writing him
to hold himself in readiness Wednesday morning.

Very sincerely yours,

WSP-WK

C. W. CO.

FILE

FILE

August 11, 1913.

Mr. J. C. Palmer,
Lakeside, Cal.

Dear Sir:-

At my request Dr. Derbyshire looked over the Camp yesterday with reference to sanitation. He suggests the following to which I have added some notions of my own and which I suggest that you immediately post as rules of the camp and make the men comply with them. You will understand that there is a new state law on the subject and in the present state of public feeling among the consumers that it will be possible to send an inspector in order to harrass us.

1. All men are required to use the toilet furnished by the Company, any man found dumping within one thousand feet of the Camp will be summarily dismissed. Attention will be paid to keeping screen doors closed in order to prevent the transfer of flies from the toilet to the dining room.

2. Garbage will be placed in a covered box and thrown daily in a hole and buried.

3. Stable manure will be shoved or scraped out of the corral at least every three days and buried to avoid the breeding of flies.

The doctor suggests that you put a toilet at the end of the point which extends toward the creek near the corral. I enclose a sketch of a temporary trap which is used by the Army, but for a permanent camp posts should be set and this toilet screened in.

There will probably be some arrangement regarding hospital dues, etc within a few days.

Very sincerely yours,

P10

August 12, 1913.

Mr. J. C. Palmer,
Lakeside, Cal.

C. W. CO.

Dear Sir:-

It is important in our accounting with the Reinforced Concrete Pipe people that we get a receipt in writing, for all the barrels of cement delivered to them, all the yards of sand and of gravel from their foreman.


Mr. Morse is responsible for getting the gravel and sand to the yards, so I suggest that he secure daily receipts through his foreman for what has been delivered and turn them in to you for transmission to this office. You will keep in your cost book, a record of these receipts so that we can refer to them in case of loss in the mail.

I assume that you have already attended to this with reference to the cement delivered.

When it comes to grading of the ditch, Oscar Morse is keeping the time and cost for the Morse Construction Co. and it is understood that he will furnish you a copy of his daily reports which I suggest that you OK and send to the office weekly. My idea is that you will use teams as far as possible in the pipe trench and cement lined ditch, and when it becomes necessary to do hand work, put in your own gang at one point and if desirable another gang of Morse's on another section, in order to simplify cost keeping and ~~these~~ accounts. This you of course, will arrange with Mr.

P11

FILE

P12 
C. W. CO.
FILE

August 15, 1913.

Mr. J C Palmer,

Lakeside.

Dear Sir:

Herewith prints of flume between South Fork
syphon and Tunnel No 3 plotted from original field notes.

Yours truly,

LAO-WK

P13
C. W. CO.

San Diego, Cal.
Aug. 25, 1913.

Mr. J.C. Palmer,
Lakeside, Cal.

Dear Sir:

Referring again to the location of 1000E ft. of
conduit at Sand Creek, Mr. Bartl explains that he did not
consider my orders sufficient to make this location at the
time, and that he would be glad to have you set out this
location.

This should be done under his direction, the cross
section etc. having been determined by me.

As friction seems to be eliminated, I hope that you
can cover this proposition, as you are the one familiar with
all surveys, and can clean it up fastest. If however ~~there~~
it is more desirable to put McFadden on the job after ex-
plaining what you have done, I have no objection. In other
words I would like to see it done.

Very sincerely yours,

C. W. CO.
August 28, 1913.
FILE

Mr. J. C. Palmer,
Sand Creek Camp,
Lakeside, Cal.

Dear Sir:

The following rule shall take effect on the payroll for August 1913 and thereafter until further notice:

Any man doing laborer's work for the Cuyamaca Water Company shall contribute one dollar (\$1.00) each and every month, to be deducted from his salary as Hospital Dues, and shall receive the services of Dr. Derbyshire as needed, for any personal injury or disease which he may meet with while working for said Company in said capacity, said services of doctor to be free of charge provided such Hospital Dues have been deducted as provided in this rule.

The said dues shall be considered as deducted from the payroll on the third (3rd) day of each month and any man who has worked three days or more shall be effected by this rule.

Very truly yours,

Chief Engineer.

WSP-WK

C. W. CO.
FILE

September 2, 1913.

Mr. J. C. Palmer,
Lakeside, Cal.
Dear Sir:

Mr. Harritt has already told you that you are to be in charge of the camp at Kehner's, as the representative of the Company to aid Hazard-Gould Co. contractors for the installation of the pumping plant and _____ James well contractor. The idea is that this is a emergency job and nothing must happen to delay either of them. The camp is to be used by both of them and you are to keep board accounts to be charged against them.

I have agreed with Mr. Smith of Hazard-Gould Co. to furnish them cement delivered beginning thursday. We have missed each other and as I know nothing about where cement is, we may have to send up a local shipment, but perhaps we can borrow from Bartl. I shall notify Harritt tonight about this.cement.also.

The well rig has broken down and will not be over until Thursday. To avoid any failure, I ~~like~~ you are instructed to start an open well as a shaft. The location I should say should be about twenty feet east of our first well, or wherever it can be protected somewhat from overflow, ask Mr. Smith to furnish at once the portable marine engine and centrifugal pump which he offered me and use it for shaft sinking and also later for testing out wells. James is of course to go ahead with his well anyway as soon as he gets there.

Very sincerely yours,

WSP-WK

P16
FILE
C. W. CO.

San Diego, Cal.
Sept. 19, 1913.

Mr. J.C. Palmer,
Chocolate Canyon Camp.
My dear Palmer:

This will introduce Mr. J. O. Kingsley, who will report to you for the purpose of making up the material order on about 2500 ft of #108 steel flume.

His work will consist of a survey as far as necessary to provide steel flume on all trestles which will be reconstructed. ~~Wherever~~ Wherever you have already planned and excavated for the square type of concrete flume on bench we will accept it and use that construction. For bench flume which has not been touched, we will place sideboards and either asphalt or use patent roofing for lining.

On this plan you will start Mr. Kingsley at the outlet of the South Fork Syphon and he will survey and tabulate the type of reconstruction until he has used up the following bill of material already ordered or to be ordered.

800ft. No 108 flume straight
200 ft. " 108 flume curves 48 ft radius
1400 lin.ft. steel flume, to be ordered by telegraph as soon as Mr. Kingsley makes his report.

You will see by this that Kingsley's survey and bills of material will extend not only over the section between South Fork and Chocolate, but beginning at the outlet of Chocolate Syphon will go a good ways on towards Cape Horn.

My idea is not to interfere with your present duties, which are to rush that pumping plant to beat the band, but simply to give Kingsley an hour or so and the benefit of your conclusions already made and then turn him loose. I am hopeful of having his estimate by Tuesday or Wednesday. I thought you could let him have Cobhran as a chairman. If not call on the office for another man.

Very sincerely yours,

Chief Engineer.

WSP-WK

H27
~~XXXXXXXXXX~~
924 8th St.

FILE
COPY

Sept. 23, 1913.

C. W. CO.
FILE

Mr. C. Harritt,
or J. C. Palmer,

Chocolate Canyon.

Dear Sir:

Mr. Fletcher's instructions are; to send the James' rig to Plant No 3, as soon as he has finished well No. 2, at Chocolate Canyon, drilling on Well No 2 should be continued as long as possible, and should be at least forty-feet below water-plane. It will be considered finished whenever casing cannot be driven further and perforation should be ordered. If you are ready to connect the suction pipe and the well is forty-feet or over in depth; I think you should perforate and hustle the suction connection.

As soon as the Hazard-Gould plant is ready to operate, you will arrange to drop a suction pipe into well No. 1, and turn the pumped water of the Marine Engine into this well, preferably thru a barrel or sand box. The idea then is to operate the Hazard-Gould plant by throttling the main discharge to a delivery of four to six inches. Every effort should be made to pump some water.

You will at the same time be extending your suction line to Well No. 2, and connect this up as soon as it is ready.

Insist on sufficient Tees being placed in the suction line to enable you to make the various junctions which are indicated above.

Very sincerely yours,

WSP-WK

COPYFILE

H26

Sept. 23, 1913.

Mr. C. Harritt,
or J. C. Palmer,

Chocolate Canyon.

C. W. CO.
FILE

Dear Sir:

on You will assist Mr. Dunn in every way in getting his rig/to the ground.

It is understood that this rig will be spotted on well No. 3, provided Mr. Dunn finds on examination that it is at all possible to install his anchors, etc., at this point. If not it is understood, that he will put his rig on the bank directly east as near as possible to No. 3 as proposed, keeping in view that we have to connect with a suction pipe at right angles and that it is desirable to make this not over twenty-feet long.

Put the force of scrapers on at once for a run-way into the site so that there will be as little delay as possible in getting Mr. Dunn's rig started.

Very sincerely yours,

W S Post

Engineer.

WSP-WK

XXXXXXXXXXXX

924 8th St.

Sept. 25, 1913.

C. W. CO.
FILE

Mr J C Palmer,

Lakeside, Cal.

Dear Sir:

Herewith print of our drawing No 2031,
east end of South Fork Feeder.

Drawing of Structure details of flume will
follow in tomorrow mornings mail.

Yours truly,

Engineer.

LAO-WK

~~XXXXXXXXXX~~
924 8th St.

Sept. 26, 1913. **C. W. CO.**

FILE

J C Palmer,

Chocolate Camp.

Dear Sir:

Herewith prints of trestle for flume for
South Fork Feeder.

Please note that flume on curves will be
built in seven foot chord lengths and has been so
ordered.

Yours truly,

Chief Draftsman.

LAO-WK

~~XXXXXXXXXX~~

924 8th St.

C. W. CO.

Sept. 29, 1913.

FILE

Mr. J. C. Palmer,

Chocolate Canyon Camp.

Dear Sir:

Per Mr. Post's orders I am sending seven
Mexicans to your camp this morning on the 9:10 train.
Mr. Post says you could use them for one or two days
until the new concrete mixer arrives at Mr. Bartl's
camp at which time you can send them to Mr. Bartl's
camp, or say send them up there Tuesday night, Sept.
30th, when I think the Mixer will arrive.

Very truly yours,

WK

Sept. 29, 1913. C. W. CO.

FILE

Mr J C Palmer,

Chocolate Camp.

Dear Sir:

The railroad has promised that the 24" casing pipe would be on the morning freight train going to Lakeside on September 30th, Tuesday. Please make the necessary arrangements to get it to the camp.

Very truly yours,

Chief Engineer.

WK

There is one box car full.

~~XXXXXXXXXXXX~~

924 8th ST.

October 1, 1913.

C. W. CO.
FILE

Mr. J C Palmer,

Chocolate, Camp.

Dear Sir:

If possible, please send at once to Mr. Bartl's camp at Sand Creek; one of your gas engine men and notify this office when you have done so.

Very truly yours,

Chief Engineer.

WSP-WK

XXXXXXXXXX

924 8th St.

FILE
C. W. CO.

October 3, 1913.

Mr J C Palmer,

Chocolate Camp.

Dear Sir:

The Southern California Drilling Co. of Los Angeles, will ship today By freight as follows:

- 1 22" cross bit
- 1 5" sinker bar
- 1 5 1/2" set bars
- 1 sub

Please hang on to the well rig and we will get this material up to your camp by auto truck tomorrow as early as we can. The total weight is about 1800 lbs.

Very truly yours,

Chief Engineer.

WSP-WK

XXXXXXXXXX

924 8th St.

FILE
C. W. CO.

October 16, 1913.

Mr. J. C. Palmer,

Chocolate Camp.

Dear Sir:

I asked Cochran to send me a complete diary of all your operations from about August 1st. Please have this done at once.

The idea is to get a segregation of costs on your early work. We need dates of beginning and ending excavation. Steel flume trestle building, etc.

Yours truly,

Chief Engineer.

WSP-WK

John C. Palmer being duly sworn deposes and says:

That on August 28th 1913, as Engineer for Cuyamaca Water Co., I inspected the Boulder ^{Creek} Mung & Milling Co's power plant situated on Boulder Cr., San Diego County California, and found the following facts. the length of ditch is 300 lin ft., the bottom width is 3 ft. + side slopes approximately 1:1 & and depth approximately 3 ft.

practically without grade; it continues as a wooden flume 6 ft wide and 1 ft deep for a length of 54 ft. This flume shows a fall of 15" inches in total;

(84) this flume delivers the water to an overshot wheel, 12 ft in diameter 4 feet wide, containing 36 buckets 20 inches deep and 12 inches opening

This wheel operates one Lame mill (grinder) one rock crusher 10 ton capacity, and one 8 horse power gas engine converted into an air compressor and 2 elevators for supplying above machinery.

There is also installed one 20 Horse Power Gas Engine with the necessary clutch connections to operate the above machinery in place of the water wheel.

(84) ~~This plant was~~ I am told by Mr. Don Forney that he sold this plant to this Company for \$1000. The balance of the plant can be duplicated including the building of the ditch for \$1800.

John C. Palmer

Ed Fletcher Papers

1870-1955

MSS.81

Box: 20 Folder: 42

General Correspondence - Palmer, J.C.



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