La Plata Project

1935

Correspondence
Send the following message, subject to the terms on back hereof, which are hereby agreed to:

To Charles Clay
Street and No. FERA
Place Durango Colorado

Will arrive at Durango Monday to inspect drilling of test holes

Rohwer

Sender’s address for reference
ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the unrepeated message rate is charged. Unless otherwise indicated on its face, this is an unrepeated message and paid for as such, in consideration whereof it is agreed between the sender of the message and this company as follows:

1. The company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrepeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines; nor for errors in cipher or obscure messages.

2. In any event the company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the sum of five thousand dollars, at which amount each message is deemed to be valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid, and an additional charge equal to one-tenth of one percent of the amount by which such valuation shall exceed five thousand dollars.

3. The company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Domestic messages and incoming cable messages will be delivered free within one-half mile of the company's office in towns of 5,000 population or less, and within one mile of such office in other cities or towns. Beyond these limits the company does not undertake to make delivery, but will, without liability, at the sender's request, as his agent and at his expense, endeavor to contract for him for such delivery at a reasonable price.

5. No responsibility attaches to this company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the company's messengers, he acts for that purpose as the agent of the sender.

6. The company will not be liable for damages or statutory penalties in any case where the claim is not presented in writing within sixty days after the message is filed with the company for transmission.

7. It is agreed that in any action to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the company is authorized to vary the foregoing.

THE WESTERN UNION TELEGRAPH COMPANY
INCORPORATED
R. B. WHITE, PRESIDENT

CLASSES OF SERVICE

TELEGRAms
A full-rate expedited service.

NIGHT MESSAGES
Accepted up to 2:00 A.M. at reduced rates to be sent during the night and delivered not earlier than the morning of the ensuing business day.

Night Messages may at the option of the Telegraph Company be mailed at destination to the addressee, and the Company shall be deemed to have discharged its obligation in such cases with respect to delivery by mailing such night messages at destination, postage prepaid.

DAY LETTERS
A deferred day service at rates lower than the standard telegram rates as follows: One and one-half times the standard day letter rate for the transmission of 50 words or less, and one-fifth of the initial rates for each additional 10 words or less.

SPECIAL TERMS APPLYING TO DAY LETTERS:
In further consideration of the reduced rate for this special Day Letter service, the following special terms in addition to those enumerated above are hereby agreed to:

a. Day Letters may be forwarded by the Telegraph Company as a deferred service and the transmission and delivery of such Day Letters is, in all respects, subordinate to the priority of transmission and delivery of regular telegrams.

b. This Day Letter is received subject to the express understanding and agreement that the Company does not undertake that a Day Letter shall be delivered on the day of its date absolutely, and at all events but that the Company's obligation in this respect is subject to the condition that there shall remain sufficient time for the transmission and delivery of such Day Letter on the day of its date during regular office hours, subject to the priority of the transmission of regular telegrams under the conditions named above.

NIGHT LETTERS
Accepted up to 2:00 A.M. for delivery on the morning of the ensuing business day, at rates still lower than standard night message rates, as follows: The standard telegram rate for 10 words shall be charged for the transmission of 50 words or less, and one-fifth of such standard telegram rate for 10 words shall be charged for each additional 10 words or less.

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FULL RATE CABLES
An expedited service throughout. Code language permitted.

DEFERRED HALF-RATE CABLES
Half-rate messages are subject to being deferred in favor of full rate messages for not exceeding 24 hours. Must be written in plain language.

CABLE NIGHT LETTERS
An overnight service for plain language communications, at one-third the full rate, or less. Minimum of 25 words charged for. Subject to delivery at the convenience of the Company within 24 hours.

SHIP RADIOGRAMS
A service to and from ships at sea, in all parts of the world. Plain language or code language may be used.
Received at 168 North College Ave., Fort Collins, Colo. Phone 303

VN67 24 NL XC=DURANGO COLO SEP 2

CARL ROHERER=
BUREAU AGRICULTURE ENGINEERING FORT COLLINS COLO=

CONTRACT RECEIVED AND SIGNED STOP PLAN TO START DRILLING

SEPTEMBER TENTH STOP WILL BE IN DENVER TUESDAY STOP CAN BE
REACHED AT TRUEHEART OFFICE=
CHARLES CLAY.
June 29, 1934

Mr. Carl Rohwer,
c/o C. D. Shawver, Relief Administration,
State Museum Bldg.,
Denver, Colorado.

Dear Mr. Rohwer:

Mr. C. D. Shawver, Administrator of Relief work in Colorado, has been advised that you are available to make a report on the proposed La Plata irrigation project in southwest Colorado which has been proposed as a project under the emergency drought and work relief program. He has also been advised that you will be available to report upon other water development or conservation projects proposed under the drought relief program. On such assignments, it will be up to you to determine the economic and engineering soundness of the projects proposed and your reports will largely govern the Federal Emergency Relief Administration in approving projects submitted.

In making your investigations you should keep in mind that in general the FERA does not look with favor upon the development of large irrigation or power projects as they afford no immediate drought relief, and afford little work relief in comparison with funds expended. The construction of small dams for stock water holes, the cleaning out of springs, the deepening of existing wells, and the digging of new wells in regions where water can be obtained at reasonable cost and the need of water is acute, are types of projects generally approved.

In connection with the La Plata project, it appears that the rights of New Mexico are involved and it may be desirable for you to request Mr. Shawver to communicate with the New Mexico authorities and arrange to have their representatives meet you on the ground to consider the project.

It is important that your work with the Relief Administration be expedited in order that decisions on projects can be rendered as promptly as possible. Projects that are unsound can
be dissapproved by you immediately to the State Relief Administration, notice of your dissapproval with reasons for decision being forwarded to the Federal Emergency Relief Administration, attention Lewis A. Jones, immediately. The extent of the investigation that you make of each project must be left to your judgment. However, you should not waste time going into the details of a project where a preliminary investigation plainly indicates that it is unsound from an economic or engineering viewpoint or where legal complications are liable to develop.

Mr. Jones has been assigned to the Federal Relief Administration in connection with the drought relief program and it is possible that he may have occasion to communicate with you direct relative to the Colorado projects.

Please keep me informed and advise as promptly as possible the amount of your time that will be required for relief work.

Very truly yours,

S.R. McCrory,
Chief of Bureau.
Dear Rohrer: Denver here today to get some pointers on roof design, lot of discussion and some suggestions. It looks as though the beams (6" x 14") will have to be imbedded and the steel continuous from panel to panel. Tomorrow I will get at this problem and when finished will forward it to Berkeley for further consideration.

About the river pump. The data submitted was as given me but obviously the motor was doing more than 15 ft at 350 gal per min. The Major is right in his conclusion on man days, from Denver reporting tomorrow morning for Henza work.

When do you expect to get back;

Have carbon copy of enclosed memo.

Russell
UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL ENGINEERING
DIVISION OF IRRIGATION

IN YOUR REPLY PLEASE
REFER TO FILE No.______

222 POST OFFICE BUILDING
BERKELEY, CALIF.
MAIL ADDRESS: P. O. BOX 180

Sept. 14, 1934

AIR MAIL

Mr. R. L. Parshall,
Colorado Agricultural Experiment Station,
Fort Collins, Colorado.

Dear Mr. Parshall:

With reference to your letter of September 5, with which you submitted plans for supplemental water supplies for the Great Plains Dryland Field Station at Mandan, North Dakota, Mr. McLaughlin had Major Stout go over these plans rather carefully and I am pleased to submit herewith a memorandum prepared by him suggesting certain changes.

Very truly yours,

Division of Irrigation

By

A. T. Mitchelson
Sr. Irrigation Engineer.

Enclosure
Mandan Reservoir Roof

- Slab reinforcement
- Hexagonal or circular hoops top & bottom
- Special continuity over C beams
- Const. joint in C beams
- 3" min
September 10, 1934.

Memorandum for Mr. McLaughlin:

SUBJECT: Plans for Supplemental Water Supplies for the Great Plains Dryland Field Station, Mandan, North Dakota.

REFERENCE: Items mailed by Mr. Parshall on Sept. 5 at Fort Collins, Colorado, to Mr. McLaughlin at Berkeley, including: Letter of transmittal; memorandum by Messrs. Parshall and Rohwer, with estimate of cost of project; copy of letter Sept. 5 from Mr. Parshall at Fort Collins to Mr. J. M. Stephens, Great Plains Dryland Field Station, Mandan, North Dakota; blue print "Design of Pumping Plant for Great Plains Dryland Field Station, Mandan, North Dakota"; blue print "Design of Storage Reservoir for Great Plains Dryland Field Station, Mandan, North Dakota."

NOTES.

Inconsistency in stated figures regarding existing pumping plant and pipe line: It is stated (in the second paragraph of the Parshall-Rohwer memorandum) that the pump now in service at the river is operated by a 15-horsepower motor, and that about 350 gallons per minute is delivered at an elevation 180 feet above the river. From "Location Map" on blue print of reservoir design, it appears that this delivery is effected through 1,300 feet of 4-inch pipe. I am unable to reconcile these figures. If the horsepower of the motor is as stated and the delivery is understated, some reconsideration is indicated, with a view to increasing capacity of existing plant or reducing proposed capacity of new plant. According to my computations, about as much power is required at the river plant as at the proposed new plant.

Roof of reservoir: I have taken advantage of his presence in this office to consult Mr. George Washington, of 244 Rivoli St., San Francisco, an experienced structural designer. The most of the suggestions to follow, including the principal ones, originated with him.

It is suggested that the column center lines be laid out in a hexagonal rather than an octagonal plan, as shown by the enclosed sketch. The column at the center can be eliminated and the others placed on center lines of 10 feet and 24 feet radius respectively. This will not give excessive spans for roof beams and will eliminate five columns.
A 6-inch slab is quite appropriate as a roof covering, but the 6 inch - 20 pound "H" beams are not sufficiently strong at the critical points, to carry the weight of a 6 inch slab plus snow load. The drawing shows it is the intention to have these structural beams imbedded in the slab. This means that the slab continuity would be broken completely at each structural beam, and the flanges of the beams exposed to weather above and condensation below.

It is therefore recommended that the entire roof be redesigned, with the new column arrangement as shown by the sketches herewith and using monolithic reinforced concrete beam and slab construction. It is believed that elimination of steel beams will reduce the cost considerably despite the additional concrete required for beams of that material.

Beam "A" of design herein proposed will require less reinforcing steel if it can be made deeper without extending to the water surface.

Care will have to be taken at the central intersection of beams "C" so that the intersecting steel bars will not form too great a mass. It is suggested that the soffit of one of the beams be made horizontal so that only two beams will intersect at the one level.

The roof may be poured in 6 sections (sextants) if the joints are made over the radial beams "C" as shown on sketch herewith.

It is to be borne in mind that reinforcing steel is now sold only in the "standard simplified sizes". These sizes are: 1/8 sq., 1-1/8 sq., 1 sq., 1 rd., 7/3 rd., 5/4 rd., 5/3 rd., 1/2 rd., 3/8 rd., and 1/4 rd. It will probably be found that these are the only sizes being quoted upon at present.

Wall of reservoir: It may be remarked that practice in reservoir design allows a tensile stress of between 6,000 and 10,000 lbs. per square inch on reinforcing steel in order that the concrete shall not develop serious cracks. It is assumed that there will be a construction joint at the base of this wall and it would be good to have a water stop of sheet copper, as shown on sketch herewith.

If the construction joint at the base of the wall is made so as to materially restrain the wall from true ring action, then tension in the inside face of the wall will ensue. In that event vertical steel should be placed in the base slab and extend several feet up the inside face of the wall.

The main reinforcement in the exterior wall of the reservoir should be lapped at least 50 diameters at the splices and the bars placed with a minimum of 1 1/2 diameters of concrete between adjacent bars. The practice of tying bars together at splices is to be
decreased as this reduces the bond considerably. It is essential that the points where bars are spliced be staggered so that there are as few bars as possible spliced at any one vertical section of the reservoir wall.

If there is likelihood of ice thrust, the resulting stresses should be taken into account.

It is impossible, from the data at hand, to evaluate the proposed concrete mix. It is of course true that the concrete that is permanently the most nearly impermeable is one that is neither too lean nor too rich. Apparently, to fall within the ordinary range of practice, the mix should be the equivalent of from \(1:1\frac{1}{2}:2\frac{1}{2}\) to \(1:2:4\), with preference for the richer mix in this case. Certain water-proofing substances and compounds have proved worth-while for introduction with the mix.

As the loads on the columns are not very heavy, it does not seem necessary to have to form the raised pier at the bottom as the base slab is of ample thickness to distribute the load. It may, however, be just as well to permit the pedestals of the original design to remain. The column load on the bottom slab induces tension in the bottom of the slab in the area adjacent to the column. It would be well to provide some steel to take care of this.

If the roof were built to extend about 3 inches beyond the wall, it would form a water drip and would protect the top of the wall from disintegration due to water seeping in and freezing.

**Pumping Plant.** The walls of the auxiliary reservoir will be subject to inward pressure when the reservoir is empty and should be designed accordingly. Steel is required in the top of the bottom slab, at the mid span and in the bottom of the slab at the wall ends. In the section of the reservoir wall between the auxiliary reservoir and the pump sump steel should be provided to span the width of the pump sump to take the hydrostatic pressure when the reservoir is full. The walls of the pump sump should be designed as wall slabs to carry the earth pressure caused by a "retaining wall" head of 15 feet. The steel in the sump wall should therefore be placed horizontally in alternate straight and bent bars to give reinforcement in the inside face in the center of the spans and in the outside or earth face in the corners.

The low wall of the pump sump that occurs under the wall of the reservoir should be made at least 12 inches thick to carry the weight of the reservoir when it is full.
Closure. It will be noted that the only radical change here proposed is in the design of the roof. Some further attention will be given to the project, in particular to the wall of the main reservoir. If items of any importance or interest develop, a supplementary memorandum will be submitted.

Very truly yours,

C. V. P. Stout
Irrigation Engineer
STATE OF COLORADO
Engineering Dept.
DENVER

June 21, 1934

Subject: Storage Reservoir Development
La Plata River, Southwestern Colorado, Northwestern New Mexico

Capt. C. D. Shawyer
State Administrator
Federal Relief
Museum Building
Denver, Colorado

Dear Captain Shawyer:

In compliance with your verbal request of this date, I am supplying herewith certain data relative to the water supply situation and possible means for correcting the deplorable conditions that now exist in the particular area in question, through the construction of storage reservoirs, concerning which the Governors of Colorado and New Mexico have recently addressed Mr. Hopkins at Washington.

The La Plata River is a comparatively short stream, which heads in the high La Plata Mountains west of Durango. The river flows in a southerly course for about 50 miles from its source to the Colorado-New Mexico state line and thence through New Mexico for several miles to its junction with the San Juan River just below Farmington, New Mexico.

A Compact was entered into with New Mexico in 1922, providing for a division of the waters of this stream between the two states. This Compact had the effect of depriving Colorado water users of a very considerable part of the water which they had formerly appropriated and applied to a beneficial use along the La Plata and its tributaries in Colorado. The Compact appeared to be necessary to protect Colorado water users against adverse claims from senior appropriators in New Mexico.
As a result of the last several years of subnormal precipitation, the waters furnished by the La Plata and its tributaries have been inadequate to supply the requirements of the irrigators, both in Colorado and New Mexico.

When the Interstate Compact was consummated, there were under irrigation in New Mexico about 5,000 acres and in Colorado about 19,000 acres. At the present time, due to shortage of water supplies and unregulated stream flow, the area under irrigation in New Mexico has been reduced to probably not to exceed 4,000 to 4500 acres, and that in Colorado to about 12,000 acres. The lands in both states have been in past years under a high state of cultivation, are very fertile and productive and support a comparatively large number of people. Practically all the soil in Colorado consists of a deep, red, sandy loam, and the mesa lands, adjacent to the La Plata in New Mexico, are of the same type. The lands in the first valley of the La Plata River is of a somewhat tighter texture approaching the adobe, but are very fertile and grow abundant crops when supplied with an adequate supply of water. Practically all of the crops successfully grown in the temperate climate are produced in this immediate area.

In order to alleviate the conditions resulting from the serious shortage of water, we have caused to be made surveys of two reservoir sites in Colorado, one known as the Long Hollow Reservoir, located at the upper end of Long Hollow, a tributary of the La Plata River in Colorado, and the other across the main channel of the La Plata River about three miles north of the Colorado–New Mexico state line. Such surveys and engineering studies disclose that the Long Hollow Reservoir, constructed to a capacity of 8,500 acre feet, together with a feeder ditch from the La Plata River, heading at Hesperus, Colorado,
would cost about $252,000, while the La Plata Reservoir No. 1, with a capacity of 5,600 acre feet, (this capacity could be increased to more than 7,000 acre feet without difficulty), would cost about $327,000. The height of the dams, which would be earth structures, would be about 100 feet. While no drillings have been made at the two dam sites, it is thought that the formations at the dam sites are suitable for structures of the heights contemplated.

The construction of the Long Hollow Dam could be made with the least possible hazard, since there is practically no drainage area above this reservoir. This reservoir would, however, on the average provide about 1,000 acre feet per year less than would the La Plata Reservoir No. 1. As an additional advantage, the Long Hollow Reservoir would furnish needed regulation of stream flow to make the same parallel with seasonal crop demands.

La Plata Reservoir No. 1 would have the advantage of providing about 1,000 acre feet more water per year than would Long Hollow Reservoir and would largely take care of the New Mexico burden on the river under the provisions of the Compact, but would not provide regulation of stream flow, now required by Colorado ditches. Furthermore, it is now contemplated to investigate the feasibility of bringing into the La Plata River basin additional water supplies from the Animas River basin, where there is a great surplus, through a trans-basin canal, which would terminate in the Long Hollow Reservoir. If this proves to be feasible, it would be essential to have the Long Hollow Reservoir for storing and equalizing the water brought in from the Animas River Basin.

The area in question is one of the most productive and desirable in the two states, is well settled and supports two or three country
tours, a grist mill, schools and other institutions, the greater part of which will have to be ultimately abandoned, in our opinion, unless these people obtain relief through an increase in present water supplies. The situation is one of the most tragic to be found in either of the two states, and calls for immediate and drastic efforts, looking to the relief of the people in those areas. We know of no more worthy project than the one which we have just explained. If either me, or both, of the reservoirs above mentioned is approved by your Department for construction, such construction would give employment to many men and teams and would, to this extent, remove many indigent families from the relief rolls, in addition to providing a permanent source of relief to that community through a stabilization of water supplies required for their lands. Also, the construction of the La Plata Reservoir No. 1 would, in a very large measure, regulate and control torrential floods which pass down the La Plata River across the Colorado-New Mexico state line every year, which destroy highways, bridges, diversion dams and ditch headings, and often valuable crops in northern New Mexico and southern Colorado.

At a large mass meeting on the 19th, attended by the Governors of Colorado and New Mexico, we were assured by the leaders of that community that the people would contribute a large measure of their time, labor and effort in the construction of the required storage reservoirs and it may be possible to utilize such services in reducing the cost of such structures to Government funds.

In addition to the aforementioned reservoirs, there are minor possibilities for constructing smaller reservoirs in northern New Mexico and southern Colorado on tributaries of the La Plata River, but such construction we consider would be rather hazardous, due to smaller capacity of the reservoirs and the torrential character of rainfall and runoff conditions.
Construction of Long Hollow and La Plata Reservoir No. 1 would store practically all of the water furnished by the La Plata River and its tributaries north of the Colorado and New Mexico state line.

We are furnishing with this letter a blue print reproductions of the two reservoirs in question. Any further information which may be required and which we can furnish will be promptly supplied upon request.

Sincerely yours,

(Signed) Mr. C. Hinderlider
STATE ENGINEER
Mr. Carl Rohwer,
Colorado Agricultural Experiment Station,
Fort Collins, Colorado.

Dear Mr. Rohwer:

It is quite probable that you may very shortly be assigned some emergency work. I am therefore suggesting that you give immediate attention to the preparation of the report Mr. McCrory has called for and which was mentioned in my circular memorandum of June 26th. This is in order that you may have the data in the event you are required to leave hurriedly for other points in Colorado.

Very truly yours,

Division of Irrigation

By

W. W. McLaughlin,
Chief
Mr. Carl Rohwer,
Colorado Agricultural Experiment Station,
Fort Collins, Colorado.

Dear Mr. Rohwer:

I would suggest that in connection with the enclosed circular letter you prepare a statement for Colorado and Wyoming. You can probably obtain all the data necessary in Denver, but if you think it advisable suggest you visit Cheyenne.

Very truly yours,

Division of Irrigation

By W. W. McLaughlin, Chief

Encl
I am just in receipt of the following telegram from Mr. McCrory:

"Department wishes to issue a report on drought situation about July ninth stop arrange give us report on western irrigation water situation so that material will be in this office by July sixth stop also include any additional information you may have on situation in dry land areas which are affected by drought."

I urge each one of our men to obtain as much and as reliable data as possible on the water supply and probable crop yield, with estimates of shortage in crops and water supply, sending this data on by air mail, if possible, the night of July 3d.

I suggest you contact the State Engineer, the Drought Relief Administrator, the Crop Estimate Agent, and such other agencies, including the State Agricultural College, as may enable you to secure the data requested by Mr. McCrory. It is important that this data be as complete as possible and thoroughly reliable.

As a final suggestion it might be well to indicate the steps that have been taken to relieve the drought distress and to increase the present water supply, with an estimate of the results of such relief attempts. It will be well also to include such measures of relief as have been taken and the existing situation of water for livestock in the range areas.

Very truly yours,

Division of Irrigation

By W. W. McLaughlin, Chief
June 29, 1934.

Mr. Carl Rohwer
C/O Mr. M. C. Hinderlider
State Engineer
Capitol Bldg.
Denver, Colorado.

Dear Mr. Rohwer:

I am sending you herewith by registered mail book of transportation requests No. B 60505 A, containing requests Nos. A 681041 - 50, inclusive.

Very truly yours,

Division of Irrigation

By W. W. McLaughlin
Chief
Strater Hotel
J. A. Segerberg, Manager
Durango, Colorado
Denver, Colorado.
July 2, 1954.

Miss Margaret Reeves,
State Administrator,
Santa Fe, New Mexico.

Dear Miss Reeves:

Following telegram received from Perry A. Fellows,
Administrative Assistant, Washington, D. C., today:

"PLEASE WIRE REPORT ON PRESENT STATUS OF PROJECT FOR CONSTRUCTION OF EARTH AND ROCK DAMS IN LAPLATTE RIVER BASIN IN COLORADO AND NEW MEXICO ALSO REPORT ON CONFERENCE IN HOPKINS OFFICE WITH SENATOR HATCH WHICH YOU ATTENDED ON JUNE TWENTY FIRST CONCERNING THIS PROJECT"

I enclose also copy of my telegram to him of today.

As this seems to be an especially important item and to involve a large sum of money, and to require very definitely technical advice, I am suggesting that Mr. Rohwer, at his desire, and at his convenience, should use Mr. Ray Howard as his assistant in the State of New Mexico, because I am quite sure that Mr. Howard will know a great deal about this project and be able to speed up Mr. Rohwer's investigation very greatly.

Yours very truly,

J. C. Lindsey.

JCL/ds

CC - Capt. Shaver-Denver.
Perry Fellows-Washington.
Ray Howard, New Mexico.
Carl Rohwer-Fort Collins.
NIGHT LETTER  DENVER COLORADO  JULY 2 1934

PERRY A FELLOWS
ADMINISTRATIVE ASSISTANT
FEDERAL EMERGENCY RELIEF ADMINISTRATION
WASHINGTON D C

YOUR TELEGRAM TWENTY NINTH LA PLATA RIVER BASIN PROJECT I DID NOT ATTEND

CONFERENCE WITH HATCH IN HOPKINS OFFICE CARL ROHWER IN DENVER TODAY ARRANGING

WITH SHAWVER TO INVESTIGATE THIS PROJECT PERSONALLY IN DETAIL ON THE GROUND

HE WILL CONSULT ALSO NEW MEXICO ADMINISTRATION I AM SUGGESTING THAT HE EMPLOY

ON PER DIEM BASIS RAY HOWARD CHIEF ENGINEER NEW MEXICO CIVIL WORKS AND REPORT

PROMPTLY AND IN DETAIL TO YOU THESE MEN AND BOTH ADMINISTRATIONS WILL CONSIDER

CAREFULLY YOUR QUESTIONS AS TO DESIRABILITY FROM ECONOMIC STANDPOINT AND POSSIBILITY

OF AFFORDING WORK RELIEF ROHWER WILL MAKE COMPLETE REPORT TO STATE ADMINISTRATIONS

COPY TO YOU BY AIR MAIL AS SOON AS POSSIBLE

J C LINDSEY

FEDERAL EMERGENCY RELIEF ADMINISTRATION
OFFICIAL GOVERNMENT BUSINESS

CC Miss Margaret Reeves,
State Administrator, Santa Fe, N. M.

Ray Howard,
Cimarron, New Mexico.

C. D. Shawver, Denver, Colorado.

Carl Rohwer —
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a. Day Letters may be forwarded by the Telegraph Company as a deferred service and the transmission and delivery of such Day Letters is, in all respects, subordinate to the priority of transmission and delivery of regular telegrams.

b. This Day Letter is received subject to the express understanding and agreement that the Company does not undertake that a Day Letter shall be delivered on the day of its date absolutely, and at all events, but that the Company's obligation in this respect is subject to the condition that there shall remain sufficient time for the transmission and delivery of such Day Letter on the date of its date during regular office hours, subject to the priority of the transmission of regular telegrams under the conditions named above.

No employee of the Company is authorized to vary the foregoing.

NIGHT LETTERS
Accepted up to 2:00 A.M. for delivery on the morning of the ensuing business day, at rates still lower than standard night message rates, as follows: The stand-

ard telegram rate for 10 words shall be charged for the transmission of 50 words or less, and one-fifth of such standard telegram rate for 10 words shall be charged for each additional 10 words or less.

SPECIAL TERMS APPLYING TO NIGHT LETTERS:
In further consideration of the reduced rates for this special Night Letter service, the following special terms in addition to those enumerated above are hereby agreed to:

Night Letters may be transmitted to any office of the Telegraph Company, to be mailed at destination to the addressee, and the Company shall be deemed to have discharged its obligation in such cases with respect to delivery by mailing such Night Letters at destination, postage prepaid.

No employee of the Company is authorized to vary the foregoing.

FULL RATE CABLES
An expedited service throughout. Code language permitted.

DEFERRED HALF-RATE CABLES
Subject to being deferred in favor of full rate messages for not exceeding 24 hours. Must be in plain language of country of origin or of destination, or in French. This service is in effect with most countries throughout the world.

CABLE NIGHT LETTERS
An overnight, low-rate, plain-language service. Delivery by mail beyond London will be made if a full mailing address is given and the words "Post" and "London" are written in the address. Minimum 20 or 25 words charged for.

WEEK-END LETTERS
At still lower rates. Similar to Cable Night Letters except that they are accepted up to midnight Saturday for delivery Monday morning, if telegraphical delivery is selected. Minimum 20 or 25 words charged for.
M.C.D. Shover
Administrator FERA
Museum Building
Denver, Colo.

Dear Mr. Shover:

On my recent trip the La Plata is an interesting stream one of the features which must be given consideration in deciding on the feasibility of the storage project here is the attitude of the authorities of the State of New Mexico toward the storage of the waters of the stream in Colorado. I believe it would be well to have some representation of the New Mexico migration department meet me here to discuss this project. Mr. Lindsey suggested Mr. Roy Howard when he was in Denver, but whoever you choose will be satisfactory to me. I shall appreciate it if you take this matter up with the
New Mexico authorities.

We are planning to start digging the test pit on the San Blas
materials tomorrow morning and
for the next week. I shall probably be
at the home to see what the
test hole shows. I may move one
or two samples to the near the work but
until further notice my address will be
general delivery, Reno, N.V.

Very truly yours,

Carl Rohwer
associate engineer

To C. H. McGee

I am moving to 25 E. Nevada
and my address will be Nevada, Cal.
24 E. Nevada St.

May 23, 1934

E. E. W.
Durango, Colorado
July 13, 1934

Mr. W.W. McLaughlin, Chief
Division 2, McLaughlin
Box 180, Berkeley
California

Dear Mr. McLaughlin,

I cannot tell how long it will take me to put down the last part of the two drawer files here but I expect that I will have to be at Durango at least until July 31. To finish the report on this project will probably require another week or most of my time this month will have to be charged to this F.E.R.A. work.

Very truly yours,

Carl Rohrer

Cc: S.H. McCrory
Crawfords Colo.  
July 14, 1934

Mr. W.W. McLaughlin, Chief,  
Division of Cingiburen  
Box 180, Berkeley  
California

Dear Mr. McLaughlin,

I cannot tell how long it will take me to put down the last pot at the two clay sites here but I expect that I will have to be at Crawfords till July 21 at least. To prepare the report on the project will probably require another week so most of my time this month will have to be charged to the F.E.R.A. work.

Very truly yours,

Carl F. Palmer

cc. Mr. H. McCasy

My address will be Hazlewood, Colo. after Lewis School.

Mr. C. L. Howard
Assistant Comptroller, FERA,
U.S. Treasury Building, Washington, D.C.

Dear Mr. Howard:

The news of the fact that the Cañada Project will be under your care is the first time that I have had such good reason to be thankful that the previous steps were taken. The large project leaves no doubt of the attitude of the authorities. The State of New Mexico in front of the storm of the waters of the stream in Colorado. I believe that it would be well to have a representative of the New Mexico irrigation department meet me here to discuss the project. Mr. Young suggested Mr. Roy Powell whom he met in Denver, but whatever you decide will be satisfactory to me. I should appreciate it if you will let me have the names and addresses of the new water authorities.

Dame morning at Fort Scott, Kansas, and my. A. I. will be in Denver, Colo., to check Lewis School.

Very truly yours,

[Signature]

[Signature]
Miss Calie Rohwer,
Box 66,
Fort Calhoun, Nebr.

Dear Miss Rohwer:

We are enclosing 5 shares American Tel. and Tel. Co. capital stock, in accordance with instructions received from Mr. Carl Rohwer, Fort Collins, Colorado.

Please acknowledge receipt of this stock by signing the statement attached to the certificate and returning it to us in the enclosed stamped envelope.

Very truly yours,

Amos C. Sudler & Co.

By [Signature]

JHA
Registered
CC Mr. Carl Rohwer.
Dear Poliner: - Your letter the other day.

Pleased to hear that you are getting underway with your work.

Sure plenty here to keep us busy - Gute has been moving along slowly with his experiments, a lot of little things here and there to retard progress.

Going to Denver today this morning to pick up through information had planned to confer with Mr. Bernie about All-American desilting works but Same called last night so postponed conference with Mr. B. until Wed. Samples of Fort Morgan also called last night and I have promised to go down to Jackson Lake and Fort Morgan flumes tomorrow.

Have current meter to rate this week besides trying to build some apparatus at Belknap. Our river is creeping lower in stage so am wondering if we are going to be justified in setting up our experiment at Belknap and later on.
the river too low for our needs. About 10 sec. ft. might be all we could count on. Mr. Annelly says that we should have at least that amount.

Imperial Valley conditions continue to increase in seriousness. Mr. and Mrs. Annelly wrote this morning that they are unable to furnish stock water. Water is being shipped in to the valley.

Bob records highest temp. yesterday for the summer at 98°.
Memorandum for Irrigation Field Men.

July 9, 1934

On books of transportation requests issued to field men last fiscal year, containing unused requests, the appropriation stamp for the fiscal year 1934 on the lower left hand corner of requests should be changed with pen and ink as follows:

Appropriation number should be changed to 35402.2
Year should be changed to 1935.

Please see that this change is made on all requests on hand.

Very truly yours,

Division of Irrigation

By: W. W. McLaughlin

W. W. McLaughlin
Chief
Mr. Carl Rohwer  
% Ft. Lewis School  
Hesperus, Colorado.

Dear Mr. Rohwer:

I have your letter of July fourteenth.

No doubt it will be the necessary and diplomatic thing to do to confer with New Mexico authorities regarding the possible construction of Long Hollow reservoir, taking water from the La Plata River.

However, I believe at the present time it would be far better if we confine our activities to the determination of the feasibility of the project; after which there will be plenty of time to thresh out the matter of an interstate agreement as to construction.

Yours very truly,

[Signature]

C. D. Shawver  
State Administrator

CDS:j
June 25, 1934

Mr. Harry L. Hopkins, Administrator
Federal Emergency Relief Administration
1754 New York Avenue
Washington, D. C.

Dear Mr. Hopkins:

Following your telephone conversation of yesterday, I immediately got in touch with the State Engineer and the Attorney General, and am sending you herewith all information immediately available on the proposed Irrigation Development along the La Plata River.

This should include the construction of two reservoirs, mainly Long Hollow Reservoir, and the La Plata Number One. The reason for the construction of these two reservoirs is quite obvious, in that the retention of water in the Long Hollow Reservoir will provide means for the irrigation of approximately 12,000 acres in Colorado.

This land is, I believe, high class. It is very productive, and is, as it is stated, at this time in high state of cultivation, but owing to continued low flow of rivers, and lack of flood control, is desperately in need of water.

By the retention of the water in the Long Hollow Reservoir, and the consequent irrigation of the lands below it, there would be a very large percentage of returned underground water to the La Plata River, which would in turn be available for storage in the La Plata Number One Reservoir.

A storage in this La Plata Number one, would in turn satisfy some 4500 acres now irrigated in New Mexico. This reservoir would also serve for the catching of flood waters of the various flood streams, such as Cherry Creek, Alkali Gulch, and others.

From an Engineering stand point, I believe that the simultaneous development of these two reservoirs is most desirable.
The relief load in La Plata County at this time is
700, and as stated by the Administrator of that County this morning,
is mounting and will continue to mount because of Drought conditions.

These two dams, as proposed, are of earthen type, and
would afford a very large percentage of the cost in actual pay roll.
It is estimated by the State Engineer that the Long Hollow Reservoir,
with its canals, would cost $252,000.00. The La Plata Number One,
as estimated, would cost $527,000.00. I believe, however, that the
dual development would rehabilitate the territory involved to a
prosperous and self-supporting state.

I am advised that the Colorado territory involved
embraces some 400 families with, no doubt, a corresponding number
of families in the New Mexico area.

I have no knowledge at hand relative to the New Mexico
situation. I am, however, reliably advised that the people in the
tract in Colorado, shown in red cross hatching, are largely on
relief, or will be entirely on relief unless something constructive
of this nature is done soon.

I am extremely interested in seeing work of this type
attempted, as it does mean to my mind, a constructive way out of
our present situation. The attempt of construction of this size,
would doubtless mean a modification of our present Work Relief
Program, and from indications I believe it to be a highly desirable
and feasible piece of work.

While I may appear to repeat, this does not mean the
bringing in of raw territory into production, but the actual re-
habilitation of lands which have heretofore, and before the present
cycle of Drought came through the country, was very productive.
However, these lands must, of necessity, have some means of retaining
flood waters and winter flows, so that they may be assured of an
ample supply of water to be entirely successful.

I unqualifiedly approve of this type of work, and believe
that it can be accomplished almost entirely by some type of a
modified relief work program.
Other plans and data will follow as rapidly as they can be accumulated. Engineers who are familiar with irrigation in the area doubt, agree that the 5800 acre foot capacity of the La Plata Number One Reservoir does not present a true picture of the worth. It will, no doubt, be filled, or partially filled, from floods and return under ground flow more than once a year. The under ground flow would, however, be dependent to a large extent from lands irrigated in Colorado by the retention of water above in the Long Hollow site.

Very truly yours,

C. D. Shawver
State Administrator
AFTER 5 DAYS RETURN TO
THE SELWAY PETROLEUM CO.
DURANGO, COLORADO

Henry
Mr. Oliver
Ohio Oil Company

300' Dakota
2000' Mancos Shale
2000' Mesa Verde Coal Measures Sandstone and Shale
2000' Lennis Shale
United States Department of Agriculture
Bureau of Agricultural Engineering
Colorado Agricultural College,
Fort Collins, Colorado,
September 15, 1934.

Mr. Carl Rohwer,
Fort Lewis School,
Hesperus, Colorado.

Dear Mr. Rohwer:

Since your departure I have returned from my inspection trip to the Leadville district where definite information was received as to the proper size and location of a suitable measuring flume for the Twin Lakes trans-mountain diversion tunnel. Plans have been prepared for this design.

There is water available in the river at Bellvue, and some preliminary observations were made as to the manner of conducting experiments there. The Harza Engineering Company informs us that they are unable to locate an assistant for us, and have put the problem up to me for locating an assistant, this I will do immediately.

I am in receipt of a letter from Mr. J. M. Stephens, Northern Great Plains Field Station, at Mandan, stating that our plans have been reviewed both by Mr. Wallis, the State F. E. R. A. Engineer and our Mr. M. R. Lewis. It is gratifying to learn that these plans have been acceptable and project approved for the installation. Mr. Stephens requests that four more sets of blueprints for use in this work be sent to him.

Very truly yours,

R. L. Parshall
Senior Irrigation Engineer.

RLP:1s No news of importance - weather continues fine - To many assistants.
Mr. Carl Rohwer,
Fort Lewis School,
Hesperus, Colorado.

Dear Mr. Rohwer:

I notice that you are again on SERA work and that you will probably be at Fort Lewis for some ten days. Upon your return and completion of the SERA work, please give us definite dates as to when you started on this assignment and when you finished it, since these services are reimbursable.

Very truly yours,

Division of Irrigation

By [Signature]
W. W. McLaughlin, Chief
OFFICIAL COLORADO STATE RELIEF COMMITTEE
108 State Museum Building
DENVER, COLORADO.

September 7, 1934

TO ALL TRAVELLERS FOR
F E R ADMINISTRATION:

By order of the State Administrator, you are hereby advised that beginning October 1, 1934, all persons engaged in official travel in their personally owned automobiles, where such travel is properly authorized, will be allowed mileage at 7 cents per mile instead of the 8 cents per mile now in effect.

You are further advised that a new travel voucher is now in the hands of the printer and will be ready for distribution no later than the 15th of September, 1934. The new voucher provides a place for signature of the person performing the travel, also a jurat which must be properly filled in and sworn to before a person authorized to administer oath. Vouchers will be printed in triplicate, the original and one copy to be sent to the Auditing Department, and the triplicate copy to be retained by the traveller for future reference. Failure to sign and properly execute said voucher will result in the voucher being returned to the payee for correction and completion, thereby delaying payment.

Too much care cannot be exercised in the preparation of vouchers. Excess mileage will not be tolerated. Unnecessary expenditures will be deducted from vouchers submitted for payment. Therefore, you are cautioned to practice economy in all expenditures.

When persons performing travel are located in headquarters remote from the Denver office, and are requested to visit the Denver office by their superior officer, and when such trips parallel a railroad or common carrier, said traveller will not be allowed mileage in a personally owned automobile in excess of the equivalent of a round trip railroad or bus fare.

Yours very truly,

[Signature]
Purchasing Agent

Approved by:

C. D. Shannon
State Administrator
Mr. Carl Rohwer,
c/o Colorado Agricultural Experiment Station,
Fort Collins, Colorado.

VIA AIR MAIL

Dear Mr. Rohwer:

There has been submitted for the consideration of the F. E. R.A. a proposal to build a dam and appurtenant works at some point in southwest Colorado. This is evoking considerable discussion. It is possible that it may be necessary to have you make an inspection of this project in the near future. If you should be leaving Fort Collins on any extended trips shortly, please let me know a day or two in advance before your departure, indicating how you can be reached while absent.

Like all F.E.R.A. projects, if this request comes it will have to be handled very quickly. At present I have no other information than the above in regard to this undertaking.

Very truly yours,

S. H. McCrory,
Chief of Bureau.
September 19, 1934.

Mr. Carl Rohwer,
c/o Fort Lewis School,
Hesperus, Colorado.

Dear Mr. Rohwer:

It is expected that weekly reports will be submitted to
the F. E. R. A. Duplicate copies of these reports should be
sent to Mr. McLaughlin and to this office. These reports should
cover your operations during the week so far as they pertain to
F.E.R.A. work. The original of these should go to the proper
person in the F.E.R.A. organization in Washington. I understand
Mr. Jones has written you in regard to this.

Please submit back reports covering your work to Mr. Jones
at the earliest practicable date sending copies to this office, also
to Mr. McLaughlin.

Very truly yours,

S. H. McCrorey,
Chief of Bureau.
VQ139 53 GOVT=BERKELEY CALIF 29 217P

CARL ROHWER, COLORADO AGRICULTURAL EXPERIMENT STATION=
FORT COLLINS COLO=

YOU ARE TO MAKE ANY INSPECTION REQUESTED BY SHOLOWER
ADMINISTRATOR FERA STOP YOU WILL CALL FOR MAIL ADDRESSED TO
YOU IN HIS CARE AT DENVER STOP GIVE THIS IMMEDIATE ATTENTION
AND IF POSSIBLE WHILE IN DENVER PREPARE DROUGHT REPORT AND
SEND TO MCCRARY STOP AM SENDING YOU BOOK TRANSPORTATION
REQUESTS CARE STATE ENGINEER=

MCLAUGHLIN.

THE QUICKEST, SUREST AND SAFEST WAY TO SEND MONEY IS BY TELEGRAPH OR CABLE
CONFIRMATION

Barkeley, Calif.
June 29, 1934

Carl Rohwer
Colorado Agricultural Experiment Station
Fort Collins, Colorado

You are to make any inspection requested by Showver Administrator FERA stop
You will call for mail addressed to you in his care at Denver stop Give
this immediate attention and if possible while in Denver prepare drought
report and send to McCrory. stop Am sending you book transportation requests
care State Engineer

McLaughlin

GOVT RATE
222 P.O. Bldg.
Berkeley, Calif.
Send the following message, subject to the terms on back hereof, which are hereby agreed to:

Fort Collins, Colorado, \[\text{date}\]
August 27, 1934.

W. W. McLaughlin,
Hotel Boise,
Boise, Idaho.

Plan returning to Durango this week to superintend test hole drilling stop probably completed by September fifteen free thereafter.

Rohwer.
Received at 168 North College Ave., Fort Collins, Colo. Phone 303

VP171 20/23 GOVT=BOISE IDA 25 236P

CARL ROHWER=
AGR COLLEGE FORT COLLINS COLO=

IS YOUR FERA WORK SUCH THAT YOU COULD SPEND A MONTH OR TWO IN NORTH DAKOTA IF REQUIRED RUSH REPLY HOTEL BOISE VIA WESTERN UNION=

MCLAUGHLIN.
Send the following message, subject to the terms on back hereof, which are hereby agreed to

To      W.W. McLaughlin

Street and No. Hotel Boise

Place   Boise, Idaho

Plan returning to Durango this week to superintend test hole drilling. Stop probably completed by September fifteen. Free thereafter

Rohwer
ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the unrepeatable message rate is charged in addition. Unless otherwise indicated on its face, this is an unrepeatable message and paid for as such, in consideration whereof it is agreed between the sender of the message and this company as follows:

1. The company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrepeatable-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines, nor for errors in cipher or obscure messages.

2. In any event the company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the sum of five thousand dollars, at which amount each message is deemed to be valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid.

3. The company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Domestic messages and incoming cable messages will be delivered free within one-half mile of the company's office in towns of 5,000 population or less, and within one mile of such office in other cities or towns. Beyond these limits the company does not undertake to make delivery, but will, without liability, at the sender's request, as his agent and at his expense, endeavor to contract for him for such delivery at a reasonable price.

5. This agreement attaches to this company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the company's messengers, he acts for that purpose as the agent of the sender.

6. The company will not be liable for damages or statutory penalties in any case where the claim is not presented in writing within sixty days after the message is filed with the company for transmission.

7. It is agreed that in any action by the company to recover the costs for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. The terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the company is authorized to vary the foregoing.

THE WESTERN UNION TELEGRAPH COMPANY
INCORPORATED
NEWCOMB CARLTON, PRESIDENT

TELEGRAMS
A full-rate expedited service.

NIGHT MESSAGES
Accepted up to 2:00 A.M. at reduced rates to be sent during the night and delivered not earlier than the morning of the ensuing business day.

Night Messages may at the option of the Telegraph Company be mailed at destination to the addressee, and the Company shall be deemed to have discharged its obligation in such cases with respect to delivery by mailing such night messages at destination, postage prepaid.

DAY LETTERS
A deferred day service at rates lower than the standard telegram rates as follows: One and one-half times the standard night letter rate for the transmission of 50 words or less and one-fifth of the initial rates for each additional 10 words or less.

SPECIAL TERMS APPLYING TO DAY LETTERS:
In further consideration of the reduced rate for this special Day Letter service, the following special terms in addition to those enumerated above are hereby agreed to:

A. Day Letters may be forwarded by the Telegraph Company as a deferred service and the transmission and delivery of such Day Letters is, in all respects, subordinate to the priority of transmission and delivery of regular telegrams.

B. This Day Letter is received subject to the express understanding and agreement that the Company does not undertake that a Day Letter shall be delivered on the day of its date absolutely, and at all events, but that the Company's obligation in this respect is subject to the condition that there shall remain sufficient time for the transmission and delivery of such Day Letter on the day of its date during regular office hours, subject to the priority of the transmission of regular telegrams under the conditions named above.

No employee of the Company is authorized to vary the foregoing.

NIGHT LETTERS
Accepted up to 2:00 A.M. for delivery on the morning of the ensuing business day, at rates still lower than standard night message rates, as follows: The standard telegram rate for 10 words shall be charged for the transmission of 50 words or less, and one-fifth of such standard telegram rate for 10 words shall be charged for each additional 10 words or less.

SPECIAL TERMS APPLYING TO NIGHT LETTERS:
In further consideration of the reduced rates for this special Night Letter service, the following special terms in addition to those enumerated above are hereby agreed to:

Night Letters may at the option of the Telegraph Company be mailed at destination to the addressee, and the Company shall be deemed to have discharged its obligation in such cases with respect to delivery by mailing such Night Letters at destination, postage prepaid.

No employee of the Company is authorized to vary the foregoing.

FULL RATE CABLES
An expedited service throughout. Code language permitted.

DEFERRED HALF-RATE CABLES
Half-rate messages are subject to being deferred in favor of full rate messages for not exceeding 24 hours. Must be in language of country of origin or of destination, or in French. This class of service is in effect with most European countries and with various other countries throughout the world. Full particulars supplied on application at any Western Union Office.

CABLE LETTERS
For plain-language communications. The language of the country of destination may be employed, if the Cable Letter service is in operation to that country. Subject to delivery at the convenience of the Company within 24 hours if telegraphic delivery is selected. Delivery by mail beyond London will be made if a full mailing address is given and the words "Post London" are written after the destination. Rate is approximately one-third of the full rate; minimum 20 words.

WEEK-END LETTERS
Similar to Cable Letters except that they are accepted up to midnight Saturday for delivery Monday morning, if telegraphic delivery is selected. Rate is approximately one-quarter of the full rate; minimum 20 words.
Send the following message, subject to the terms on back hereof, which are hereby agreed to:

To Charles Clay

Street and No. FERA

Place Durango, Colorado

Understand plans completed for drilling test hole Laplota site stop When Shawe notifies you will you bore driller start in hole we made also wire me when driller is expected on work so I can be there Rohwer
December 22, 1934

Mr. Carl Rohwer
Colorado Agricultural College
Fort Collins, Colorado

Dear Mr. Rohwer:

Wish to acknowledge your letter of December 20th, and while he is out of the State at the present time, same will be referred to him immediately upon his return.

Very respectfully,

Ralph O. Baird
Deputy Administrator

ROB/ds
August 11, 1934

Carl Rohwer,
Associate Irrigation Engineer,
Fort Collins, Colorado.

Dear Mr. Rohwer:

Do you not believe it would be well to push the work on the Long Hollow reservoir and at the same time have the man who is superintending the construction work also superintend the drilling of the three holes in reservoir site No. 1? Do you not feel that the six dollar bid is very reasonable and that the work should be pushed if we are to get any worth while information before winter? It is now the 11th of August and the ground may freeze in October. Is there anything we may do to speed up the work?

Yours very truly,

[Signature]
Dean

GFS:FM
STATE OF COLORADO
ENGINEERING DEPARTMENT
DENVER

October 20, 1934

S U R E X T :  

Carl Rohwer, Engineer
U. S. Bureau Irrigation Investigations
Fort Collins, Colorado

Dear Mr. Rohwer:

You will recall that you promised us a cross section of the La Plata River Dam site, showing location and depth of drillings, together with logs of same. We are anxious to have this at the earliest possible date, so that we may proceed with our designs for the dam.

Very truly yours,

M. C. Hinderliter
STATE ENGINEER
November 1, 1934.

Mr. Carl Rohwer,
Associate Irrigation Engineer,
Colorado Agricultural College,
Fort Collins, Colorado.

Dear Mr. Rohwer:

I have your letter of October 26 transmitting a copy of your report on the La Plata Basin in Colorado to the Federal Emergency Relief Administration.

I took time to go over this carefully last evening and it seemed to me to be in very good shape. While the cost of storage is quite high it would seem that if this country is to be used for farming, storage was essential.

Very truly yours,

[Signature]

S. H. McCrory,
Chief of Bureau.
Mr. Carl Rohwer, Associate Irrigation Engineer,
Colorado Agricultural College,
Fort Collins, Colo.

My dear Mr. Rohwer:

In response to your letter of November 5:

Five copies of the Red Mesa, Colo., topographic map
were mailed to you on November 1. I trust that they reached
you in time to be of service. The delay was caused by a
recent congestion of orders and a reduction in staff.

Very truly yours,

[Signature]

Chief Clerk.
Mr. Carl Rohwer,
c/o Fort Lewis School,
Hesperus, Colorado.

Dear Mr. Rohwer:

I have your letter of September 19th, and hoped that I would be able to drop in on you, as you suggested, prior to this, as we have a proposed reservoir project at Farmington. However, this project has not progressed as yet to a point where it needs inspection, and I am leaving for a two-weeks' trip to Los Angeles Saturday; therefore, it is doubtful whether I will see you this month.

Just received a letter from Mr. McLaughlin in which he indicates he will probably be in Washington until the latter part of October. Perhaps we can prevail upon him to visit us on his return trip to California.

I am collecting what data I can on the La Plata project, but have made no report as yet, as the State Administrator has not requested one. Upon my return to Santa Fe, if you think it advisable, I will assemble the information I have and report to Washington, sending you a copy thereof.

Very truly yours,

[Signature]

Harry F. Blaney,
Irrigation Engineer.
August 6, 1934.

Mr. Carl Rohwer  
Colo. Agr. Exp. Station,  
Fort Collins, Colorado.

Dear Mr. Rohwer:

In connection with the use of your personal car  
for FERA work your claim should be submitted direct to  
the local Federal Emergency Relief Administration.

Very truly yours,

Division of Irrigation,

BY W. W. McLaughlin, Chief
Mr. Carl Rohwer, 
Associate Irrigation Engineer, 
Colorado Agricultural College, 
Fort Collins, Colorado.

Dear Mr. Rohwer:

Your letter of November 20th relative to your report on the La Plata project has been received, and I have read it with much interest. Nothing new has developed on this project in New Mexico during the past two months.

Very truly yours,

Harry E. Blaney, 
Irrigation Engineer.
November 30th, 1934.

Mr. Carl Rohwer, Associate Irrigation Engineer,
Fort Collins, Colorado.

Dear Mr. Rohwer,

I have been away for some time and upon my return I found a copy of your very thorough and commendable report on "The Possibility of Providing Storage Reservoirs to Supplement the Supply of Water for Irrigation of the La Plata River Basin."

The report contains so much valuable data that I haven't had time to fully digest its contents. However, I am still studying it.

I am trying to have an economic re survey authorized to supplement your report. I have taken the matter up with the Governor and Mr. Hinderlider. I think that about all of the data is now available to present for final approval of these projects and I hope and pray that now we can get action.

The passing of Dean Snyder was a catastrophe, to say the least. His absence is keenly felt by all of us. He was one of the most sincere, earnest and capable men I have ever had the privilege to know. We will all have work harder now to make up for the very active part he always took in our behalf.

Thanks a lot for your consideration in sending us a copy of the report.

Very truly yours,

WAYNE TAYLOR
Proprietor

Secretary
LA PLATA WATER USERS ASSOCIATION.
Mr. Carl Rohwer,
Colorado Agricultural Experiment Station,
Fort Collins, Colorado.

Dear Mr. Rohwer:

Replying to your letter of November 7, we do not at this time have additional comments on your La Plata Basin report.

Very truly yours,
Division of Irrigation

By W. W. McLaughlin, Chief
Mr. Carl Rohwer,
Associate Irrigation Engineer,
Colorado Agricultural College,
Fort Collins, Colorado.

Dear Mr. Rohwer:

Thank you very much for your courtesy in sending me a copy of your report for the Federal Emergency Relief Administration on "The Possibility of Providing Storage Reservoirs to Supplement the Supply of Water for Irrigation of the La Plata River Basin."

The report has just reached me and I have not had time to read it, but I am sure I will find it very interesting and helpful in dealing with conditions on the La Plata River.

Very truly yours,

[Signature]

State Engineer.
Durango, Colorado
August 7, 1934

Mr. Carl Rohwer
Associate Irrigation Engineer
Bureau Agriculture Engineering
Ft. Collins, Colorado

Dear Mr. Rohwer:

I wired yesterday informing you that we had received bids by the foot from three different people on drilling the test pits on the Longhollow dam site.

We had some difficulty in getting most of the people we talked to to bid by the foot. Their reasons being that there would not be enough footage to justify their moving a rig in for such a small job.

I am enclosing a copy of all the bids we have received both by the day and by the foot. The originals we are holding in this office.

Mr. Hans Aspaas has made the lowest bid and if awarded the contract will furnish bond and contract for the prompt fulfillment of same. Just what equipment Mr. Aspaas has and just what his ability to do this work is I cannot say. Having received his bid just this morning I have not had the opportunity to check up on him.

Not having any forms for the bidding on this work we ask them to make their bids on plain paper, so it is possible that these bids will not contain all of the information which you may want. If they should be lacking in anything I will be glad to secure any additional information you may deem necessary.

Yours very truly,

Charles Clay
Payroll Clerk

CC: ME
Enc.
Public Voucher for Purchases, and Services other than Personal

(U. S. DEPARTMENT OF AGRICULTURE)

(Give place and date)

THE UNITED STATES, Dr., To...Fort Lewis School

Address: Fort Lewis School, Hesperus, Colorado.

Payee's Acct. No. 123456

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ARTICLES OR SERVICES
(Enter description, Item Number of Contract or General Supply Schedule, and other information deemed necessary)

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<th>Date of Order</th>
<th>Date of Delivery</th>
<th>Description</th>
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Working or Voids of Voucher

D. O. Ven. No. 7890

PAID BY

A. ZAPPONE,

Disbursing Clerk

Address: Fort Lewis School, Hesperus, Colorado.

Payee's Acct. No. 123456

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This certificate not required when a like certificate is made by payee on attached bill or bills.

I certify that the above bill is correct and that payment hereof has not been received.

Total: 73.06

Payee: Fort Lewis School

Title: Principal

I certify that the above articles were received in good condition, after due inspection, acceptance, and delivery prior to payment as required by law, or services performed as stated; that they were procured under the contract number above or the unnumbered contract attached hereto, or that they were procured without written contract, in a competitive market, and with or without advertising, under the circumstances stated in No. of "Method of or Absence of Advertising" shown on reverse hereof, and were necessary for the public service; and that the prices charged are just and reasonable and in accordance with the agreement.

†Approved for $...

Title: Principal

*Payee

Honor of the United States

Paid by Check No. A123 on $24,000.00, for $...

Cash, $...

*Payee...

SIGNATURES

George Snyder

Title: Principal

on Treasurer of the United States

in favor of payee named above.
METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

1. After advertising in newspapers.
2. (a) After advertising by circular letters sent to dealers.
   (b) And by notices posted in public places.
   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificates on the face of the voucher must be "2 (a) (b)") or "2 (a)," depending on whether or not notices were posted.)
3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with ________________.
5. Without advertising, it being impracticable to secure competition because of the fact that there was only one place in the area to buy the material or obtain the transportation.

(Here state circumstances under which the securing of competition was impracticable)

Note.—The above form, "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal and acceptance, or less formal agreement) Standard Form No. 1036 (Revised) should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, Supplement No. 6, General Accounting Office, August 20, 1930.)
July 20, 1934

Carl Rohwer, Engineer
U. S. Bureau Irrigation Investigation
Breen, Colorado

Dear Mr. Rohwer:

Mr. Taylor advises me that you have obtained additional help from the local relief agency and are now engaged in making certain explorations at the site of Long Hollow and La Plata No. 1 Reservoirs.

I did not know when you were leaving Denver that you would be able to make such investigations, which I am now very much gratified to learn you are carrying out.

I hope you will be able to sink a number of test pits along the center line of each dam site and take a log on the materials after running a profile of the same. It is probable that the topography at the La Plata No. 1 Dam site, taken by Messrs. Williams and Holly, will be sufficiently comprehensive and accurate upon which to predicate a final estimate of cost, but, from the map on file in this office, it appears that the topography at the Long Hollow Dam site was not taken below the center line or axis of the proposed dam, so that further topography of the canyon a few hundred feet below the dam should be taken by you while there. Needless to say, the test pits and cross section of the canyon should be tied into the topography.

If you are unable to obtain this information in connection
with your present investigations, it is very likely that I could send an engineer to assist you and pay for his services and expenses out of the funds of this office.

I am now leaving for the Western Slope to be absent for about ten days, but can be reached through my office by telephone.

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