

[2] WARNER RES
POWER APPLICATION
CRM

CORRESPONDENCE PERTAINING TO AN
APPLICATION BY VOLCAN LAND AND
WATER COMPANY FOR A POWER CONDUIT.

L
Cleveland - Water Power
Volcan Land & Water Co.
Conduit, 1/8/13

June 12, 1914

Mr. Wm. G. Henshaw,
President, Volcan Land & Water Co.,
Mills Bldg., San Francisco.

Dear Sir:

Your letter of June 9 is received.

Since your Company does not wish to obtain a permit for power purposes at this time, its pending application is hereby denied and the case is closed in this office.

In accordance with your request the maps and papers now on file will be retained and may be referred to and made a part of any future application that the Company wishes to make.

Very truly yours,

(Signed) COERT DuBOIS

District Forester.

L
Cleveland - Water Power
Volcan Land & Water Co
Conduit, 1/8/13

June 12, 1914.

Mr. Horace Tillard Jones,
Attorney, State Water Commission,
702 Mills Bldg., San Francisco.

Dear Sir:

Reference is made to your letter of May 2 in which protest was made against the issuance of a permit to the Volcan Land and Water Company for its proposed power project on San Luis Rey River;

The matter has been taken up with Mr. William G. Henshaw, President of the Company, and he states that the Company does not at this time expect to use the permit for power purposes but may wish to do so at some future time. The application has therefore been denied and the case closed in this office.

Very truly yours,

(Signed) COERT DuBOIS

District Forester.

LETTERHEAD OF WILLIAM G. HENSHAW

San Francisco, Cal. June 9, 1914.

Mr. Coert DuBois,
District Forester,
114 Sansome St., San Francisco.

Dear Sir:

Replying to your favor of May 22nd I beg leave to say that we do not expect at this time to use the permit for the water power, consequently I would suggest that this matter stand in abeyance until in addition to irrigation, etc., we desire to use the same for power purposes.

I would be glad to have you hold the maps and papers now on file in your department for possible use if the company desires at some later date to make application for the same site.

Yours very truly,

(Signed) WM. G. HENSHAW

President, Volcan Land and Water Co.

L
Cleveland - Water Power,
Volcan Land & Water Co.,
Conduit, 1/8/13.

May 22, 1914.

Mr. W. G. Henshaw,
President, Volcan Land & Water Co.,
Mills Bldg., San Francisco, Calif.

Dear Sir:

I am in receipt of a letter from the State Water Commission calling attention to the fact that the Volcan Land and Water Company's notice of water appropriation on San Luis Rey River was not filed until after the passage of the Act of the State Legislature of April 8, 1911, requiring appropriation of water for power purposes to be made by securing a permit from the State Board of Control (Water Power).

The Commission states that the waters therefore can not be used for power purposes under that appropriation and requests that no final permit for the use of National Forest lands be issued to the Company until it has secured a license to use the water for power purposes. The right of the Company to use the water for irrigation purposes under that appropriation was not questioned in the Commission's letter.

I should be glad to know what action the Company intends to take in order to conform to the State laws governing the use of water for power purposes.

Very truly yours,

(Signed) COERT DuBOIS
District Forester.

LETTERHEAD OF
STATE WATER COMMISSION OF CALIFORNIA

May 2nd. 1914.

Mr. Coert DuBois,
District Forester,
San Francisco, California.

Dear Sir:

The water rights under which the Volcan Land and Water Company claims, on San Luis Rey River, and upon which it is basing a right to obtain from the Forest Service a final permit for the construction of a power plant, are not sufficient to allow the use of the waters of said river for said purpose.

The claims were filed in May 1911 and the Legislature of this state passed an act on April 8, 1911 requiring the filing of an application before a State Board of Control (Water Power) for a permit to use water for power purposes. By act of January 2, 1912 the authority vested in said Board of Control (Water Power) was delegated to this commission. Therefore the waters of said river cannot be used under any permit from your service without a license from this commission.

It is respectfully asked that no final permit issue until you are satisfied of the right of applicant to use the water for power purposes.

Very truly yours,

STATE WATER COMMISSION

(Signed) By

HORACE TILLARD JONES
Attorney.

LETTERHEAD OF
WILLIAM S. POST

San Diego, Cal., August 29, 1913.

Mr. F. H. Fowler,

District Engineer Forest Service,

1st National Bank Building,

San Francisco, Calif.

Dear Sir:

I have the pleasure to forward you by Wells-Fargo
Express, map showing location of our various rainfall,
evaporation and gaging stations.

Very sincerely yours,

(Signed) W. S. POST

WK.

Engineer.

Volcan Land and Water Company

Cuyamaca Water Co

924 - 8th Street,
San Diego, Cal.

LAO-WK

TELEGRAM -

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

San Francisco, California, August 18, 1913.

H. Hawgood,
H. W. Hellman Building,
Los Angeles, California.

expect fowler to be in san diego today you can arrange to
meet him by communicating with forest supervisor at san diego

(Sig.) HATTON

TELEGRAM

Los Angeles Cal Aug 18

J Hatton

Asst Dist Forester U S Forest Service

First Natl Bank Bldg Sanfran.

I wish to meet Mr. Fowler on his arrival Sandiego Can you
give definite date please wire answer

H Hawgood

11a

TELEGRAM

Los Angeles Cal Aug 16th

John Hatton

Asst Dist Forester U S Forest Svc

First Nat Bank Bldg Sanfrancisco

Your telegram received will arrange to have Mr. Fowler
shown the properties

H Hawgood

1050 a

NIGHT LETTERGRAM

San Francisco, Cal. August 15, 1913

H Hawgood,
H. W. Hellman Bldg.,
Los Angeles, Cal.

District engineer fowler will be in san diego to make
examination volcan land & water company project tuesday or
wednesday

(Sig.) HATTON

EK

L
Cleveland-Water Power
Volcan Land & Water Co.

L
Cleveland - Water Power
Volcan Land & Water Company.
Conduit 1/8/13

August 23, 1913.

MEMORANDUM

I have examined the application of the Volcan
Company, and the District Forester's letter to the Company
written July 16, 1913, and concur in the District
Forester's opinion (as given in the last paragraph of the
letter) that the application should be accepted and the
Company's priority maintained.

(signed) G. C. MERRILL
Chief Engineer.

L
Cleveland, Water Power
Volcan Land & Water Company
Conduit 1/8/13

August 7, 1913.

Mr. H. Hawgood, Engineer,
Volcan Land & Water Company,
H. W. Hellman Bldg.,
Los Angeles, California.

Dear Sir:

Your letter of August 6 is received.

The application of the Volcan Land and Water
Company was received on July 29. You will be informed
of the action taken upon the application.

Very truly yours,

(Signed) COERT DuBOIS

District Forester

W:AW

LETTERHEAD OF

H. HAWGOOD

Los Angeles, California,

August 6th, 1913.

Mr. Coert DuBois, District Forester,

U. S. Forest Service,

San Francisco, Cal.

Dear Sir:

Referring to the application of the Volcan Land &
Water Company for final water power permit. Your office
allowed the Company fifteen days, terminating the 31st of
July, in which to complete its filings. The last of the
papers were sent from here addressed to your office July
the 28th, and I have since heard nothing of them. Will
you do me the kindness to advise me if they were safely
delivered.

Yours very truly

(Signed) H. HAWGOOD.

LETTERHEAD OF

H. HAWGOOD

Los Angeles, California.

July 29th, 1913.

Mr. Coert Du Bois, District Forester,

U. S. Forest Service, San Francisco, Cal.

Dear Sir:

In writing letter of transmittal to you yesterday, of the balance of papers of the application for Final Permit of the Volcan Land & Water Company, the stenographer omitted a paragraph on the first sheet, and this sheet had to be re-written. The original of the corrected sheet was found this morning, and it would appear that in the haste to make the last night's mail the letter of transmittal to you contained the defective first sheet instead of the corrected one. I enclose the corrected one herewith, please substitute it for the one you have.

Yours very truly,

(Signed) H. HAWGOOD

LETTERHEAD OF

H. HAWGOOD

Los Angeles, California,

July 28th, 1913.

Mr. F. H. Fowler, District Engineer,
U. S. Forest Service,
San Francisco, Cal.

Dear Sir:

In the matter of the application of the Volcan Land & Water Co. Exhibit "F₂" map of part of the proposed Warner Reservoir. The course of the tie to the closing corner of the north line of Section 3 P 10 of ranch survey has not been shown for the reason that this course as determined by my survey party is N. 13° 19'E, whereas, according to the Land Office plats, it should be N. 12° E. To avoid confusion I have therefore omitted the course. There can be no doubt as to the actual course on the ground of this tie, because it follows and the distance of 2353 feet was measured along the boundary line of the Ranch. Should, however, you desire to have either or both of these courses shown on the map, will you please call upon Mr. Mac Daniels, Room 503 Mills Building, a draughtsman from time to time employed by me, he will make such inscription as may be required.

On the other courses of the Ranch Line the difference is but a quarter of a degree, and therefore call for no particular comment.

If there is any further information which you desire I will be pleased to furnish it.

Yours very truly (Signed) H. HAWGOOD.

POSTAL-TELEGRAPH COMMERCIAL CABLES

Telegram

Los Angeles, Cal. July 29, 13.

Coert Du Bois, Dist Forester, U.S. Forest Service,

First Natl. Bank Bg. San Fran.

First sheet letter transmitting volcan papers sent you yesterday
is incorrect mailing corrected sheet.

(signed) H. Hawgood

1021 a

(Letterhead of)

H. Hawgood
Consulting Engineer
H.W.Hellman Building

Los Angeles, California July 28th, 1913.

Mr. Coert DuBois,

District Forester, U. S. Forest Service,

San Francisco, Cal.

Dear Sir:-

In the matter of the application of the Volcan Land & Water Company for Final Permit, and responsive to the letter of the Acting District Forester of July 16th, 1913, I herewith file with you tracing and prints in triplicate of map on scale of 400 feet to the inch of that portion of the proposed Warner Reservoir which lies upon the Cleveland National Forest, together with the field notes of the same. I also file herewith the field notes of that portion of the Cleveland National Forest which it is desired to use for part of the spillway of the proposed reservoir.

Referring again to the letter of July the 16th, and answering the requests for further information in the order in which they appear.

The tie of the terminal point of the conduit line to an established corner of the public survey was noted upon the map July 16th, and prints thereof furnished you on the 17th. The omission of this tie from the map as originally presented arose from the fact of the nearest established corner being somewhat remote from the conduit terminus, and the need of receiving your instructions as to procedure in

in this particular.

Certified copies of the Articles of Incorporation were filed with you on July the 21st, and on July the 22nd there was filed with you certificate of the Secretary of State of the State of California that the Volcan Land & Water Company was entitled to operate in the State.

Items a and b were furnished in my letter of July the 16th.

Item c, sizes of pressure pipes as tabulated below:

Length Feet	Diameter Inches	Length Feet	Diameter Inches
1500	55	420	43
540	53	180	42
1160	50	310	41
930	48	420	40
190	46	190	39
190	45		
190	44	Total	6,220

Item d, type of proposed forebay dam, Concrete, Gravity Section, however, a multiple arch type dam may be used should full exploitation of the formation upon which the dam would be founded prove such type to be feasible with due regard to safety.

It is submitted that the Company did in effect file within the time allowed by the preliminary permit a complete application for the items covered by the preliminary permit, and fulfilled its obligation. The minor details not supplied at time of filing 14th July, were omitted not from lack of diligence, or neglect, but by reason of uncertainty as to the exact requirements of the Service, and upon being instructed on

these points, these details were promptly supplied in person. With the exception of the certified copies of the Company's Articles of Incorporation, the filing was completed on the 16th day of July, so far as the subject matter of the preliminary permit was concerned. The non-filing of copies of the Articles of Incorporation arose from a misunderstanding; it had been supposed that the copies filed with the Secretary of the Interior and examined by the Forest Service at the time of the preliminary application would suffice.

The map and field notes now filed with you apply to matter not in the original preliminary application, but included within the final application to avoid multiplicity of papers.

Under the conditions, it is respectfully submitted that the Company did, in substance, make a complete final filing covering its preliminary application.

I beg to thank you for the recognition given these conditions and the expressed intention of your office to recommend the waiving of the technical delinquency and the acceptance of the application.

Yours very truly,

(signed) H. Hawgood

Engineer for the
Volcan Land & Water Company.

(Letterhead of)
Palace Hotel,
San Francisco

July 22, 1913.

Mr. Roy Headley,
Acting District Forester,
Department of Agriculture,
San Francisco.

Dear Sir:

In the matter of the application of the Volcan Land & Water Company for final permit, referring to your letter of July 16th and to certified copy of the Company's Articles of Incorporation handed you on the 23rd inst., I now beg to hand you Certificate of the Secretary of the State of California that the Volcan Land & Water Company is entitled to operate in the State of California.

Yours very truly,

(Signed) H. Hawgood.

(Filed in proper place in correspondence file -(Sig) CDB

(Letterhead of)
Palace Hotel
San Francisco July 21, 1913.

Mr. Roy Headley
Acting District Forester
Department of Agriculture
San Francisco.

Dear Sir:

In the matter of the application of the Volcan Land & Water Company for final permit, I herewith enclose, as requested by your letter of July 16th, certified copy of the Articles of Incorporation of the Volcan Land and Water Company.

Yours very truly,

(signed) H. Hawgood

(encl)

(Filed in proper place in correspondence file (sig) CDB)

San Francisco, Calif., July 16, 1913.

Mr. Coert DuBois,
District Forester, U. S. Forest Service,
San Francisco, California.

Dear Sir:

In reply to your letter of this date, concerning the application of the Volcan Land & Water Company for a final permit:

A map for that portion of the reservoir which will occupy National Forest land, together with its field notes, will be furnished you without delay.

A copy of the articles of incorporation will also be furnished.

Following is additional information requested by you:

(a) Table of the Capacity and Acreage of the Warner Reservoir Site.

Contour Elevation	Capacity above Outlet Acre-Feet	Non-available Below outlet Acre-Feet	Area Acres
2618 Level of River Bed		0	0
2640 Level of Outlet Tunnel	0	500	55
2650	560		100
2660	6,800		1,095
2670	14,760		1,395
2680	35,450		1,840
2690	56,970		2,456
2700	86,510		3,498
2710	125,750		4,315
2715	156,500		4,800
(2720) H.W.L.	(172,550)		(5,045)

The contour elevations are in feet above sea level.

- (b) The dam is estimated to contain 295,000 cubic yards.
- (c) The sizes of the pressure pipe will be furnished you immediately upon my return to Los Angeles.
- (d) The forebay dam is designed to be of the multiple-arch concrete type, subject to further exploitation of the foundations showing the material to be suitable to such a type of dam.

Very truly yours,

(signed) H. Hawgood.

P.S. A tie from the terminal point of the conduit line to the nearest established corner of the public survey has been computed and has been shown on the map.

July 16, 1913.

L
Cleveland - Water Power
Volcan Land & Water Company
Conduit
1/8/13.

Mr. H. Hawgood,
H.W.Hellman Building,
Los Angeles, Calif.

Dear Sir:

The application of the Volcan Land & Water Company for final permit, which was filed by you on July 14, has been examined and found incomplete in the following respects.

The map of reservoir is on a scale of 1,000 feet to the inch instead of 400 feet, as required, and field notes of the reservoir survey were not filed. Nearly all of the reservoir site is on alienated land and the company may fulfill the requirements of the regulation by filing a map and field notes of that portion of the high water contour which is located on National Forest land. I would call your attention to the fact that this portion of the reservoir has been brought onto Government land by a change made in your plans since the preliminary application was filed.

The terminal point of the conduit line should be tied in to an established corner of the public survey and such tie shown on the map. The map now shows your conduit line passing a section corner about 2 miles back from the end. A calculated tie to this corner could be made.

In regard to filing articles of incorporation; these were not required in connection with the issuance of a preliminary permit, but in a letter of January 16, 1913, in which the Forester

transmitted the permit to this office, he made the following statement:

"A copy of its (the company's) articles of incorporation were on file in the Department of the Interior and were examined by a representative of this office and found to be satisfactory. It will not be necessary to obtain a copy of them for our files since in case the Company asks for a final permit it will then furnish a copy of its articles of incorporation."

Evidence of the transfer of water right seems to have been accepted already by Mr. C. H. Squire of the Washington office, according to a memorandum initialed by him which is in the files.

Since your preliminary application was put in, the water power regulations have been changed, and in order to give me certain data required by the new regulations, I would be glad to have you address a letter to this office giving the following:

- (a) A table of areas and capacities of your reservoir for each 10-foot contour line.
- (b) The cubic contents of your dam.
- (c) The sizes of pressure pipe have not been given.

Unless you care to furnish the same, the District Engineer will use his best judgment in computing friction losses.

- (d) Type of forebay dam.

Since the company failed to file a complete application within the time allowed by Clause 1 of the preliminary permit, the priority of your application is, of course, lost under a strict interpretation of the regulations, and if following to a logical conclusion, another application for the same lands could not be accepted from the company until the expiration of one

year. However, as the final application is in the main in excellent form and filed in good faith, and the omissions are rather trivial, this office will be glad to recommend to the Secretary of Agriculture that this condition be waived and the application be accepted, providing data omitted is furnished within the next fifteen days.

Very truly yours,

(signed) Roy Headley

Acting District Forester.

(Letterhead of)
H. Hawgood
Consulting Engineer
H. W. Hellman Building.

Los Angeles, California

July 12th, 1913.

Mr. L. A. Barrett,
Acting District Forester,
Forest Service, U.S. Department of Agriculture,
San Francisco, Cal.

Dear Sir:-

At the request of the Volcan Land & Water Company I herewith (hand) you its application for a final water power permit for its Warner-Pamo project, preliminary permit for which was granted the 15th of January, 1913, for a term of six months:

The following is a list of the documents filed; in triplicate:

Application, Form 60

Exhibit B, Alignment notes of conduit.

Exhibit C, Ties of same to corners of Public Survey

Exhibit I, Estimate of Power, and Water data.

Exhibit J, Statement of time desired from date of permit to beginning construction.

Exhibit K, List of Officers and Directors.

Exhibit L, Affidavit of Engineer.

Exhibit M, Certificate of Applicant

Exhibit A, Map, Location of Warner-Pamo Conduit. 2000' scale.

Exhibit D, Profile of Warner-Pamo Conduit

Exhibit E, Plan, Warner Dam and Accessory Structures.

Exhibit F, Contour Map, Proposed Warner Reservoir

Exhibit G, Plans of types of Conduit, Warner-Pamo Project.

Exhibit H, Map, Proposed location of Warner-Pamo Conduit and Power Plant. 400 ft. scale. Contours 10 foot interval.

Yours very truly,
(signed) H. Hawgood

United States Department of Agriculture
Forest Service
Application for Final Water-Power Permit.

The Volcan Land & Water Company a corporation organized and existing under and by virtue of the Laws of the then Territory of Arizona, and having its office and principal place of business at San Diego, in the State of California, does hereby make application for permission to occupy and use certain lands of the United States within the Cleveland National Forest in the State of California, by constructing, maintaining, and operating thereon for the main purpose of the generation of electric power, the following works: To form a storage reservoir to flood approximately four thousand eight hundred (4800) acres at extreme flood level and approximately four thousand six hundred acres at spillway level, in the Rancho Valle de San Jose and Section 3, Township 11 South, Range 2 East, San Bernardino Meridian, of which total of 4,800 acres approximately ten (10) acres are National Forest land, said reservoir being designated as the Warner Reservoir. Of the said ten acres of National Forest land approximately eight acres would be submerged at extreme high water and approximately two acres would be occupied by part of the discharge channel from the spillway. The dam, outlet works and spillway are on patented lands.

(b) Water conduit approximately ten and two tenth (10.2) miles in length, crossing Sections (10, 9, 4, 5, 6, 7,) (32, 31) (12, 13, 24, 23, 26, 35) Townships 11, 10, 11 South,

Ranges 2, 2, 1 East respectively, San Bernardino Base and Meridian, of which total of ten and two tenth miles approximately six (6) miles will lie upon National Forest land, said conduit being designated as the Warner-Ramo Conduit.

(c) The projected power house is entirely on patented land.

(d) Location of transmission lines not finally adopted may be entirely on State, County or private lands.

All as approximately shown upon certain maps and plans executed by the Volcan Land & Water Company, on the 5th day of July, 1913, which maps and plans are filed together herewith and designated as follows: Exhibits A & H, Maps of location of Warner-Ramo Conduit and Power Plant. Exhibit E, Plan of Warner Dam and accessory structures, and Exhibit F, Map of Warner Reservoir, Exhibit G, Plans of types of water conduit.

Evidence of water rights, articles of incorporation and evidence of authority to conduct business, forming part of the Volcan Land & Water Company's application of the 6th of January, 1913, for a preliminary permit, are hereby referred to and made part of this application, which maps and plans, together with ^{certain} field notes, estimates and data, evidence of water rights, articles of incorporation, and evidence of authority to conduct business, designated, respectively, as "Exhibit B", "Exhibit C", "Exhibit I", "Exhibit K", and Exhibits above referred to and forming part of preliminary application, are hereby made a part of this application.

This application has been prepared to be filed in accordance with the regulation of the Secretary of Agriculture,

in order that the Volcan Land & Water Company may obtain the benefits of the Act of Congress approved February 15, 1901, entitled "An Act Relating to Rights of Way Through Certain Parks, Reservations, and Other Public Lands;" and that the use and occupation of the lands for which this application is made is desired for the purpose of generating electric power to be used for the pumping of water for irrigation, or for commercial purposes, and for the purpose of conveying water for irrigation.

In Witness Whereof the Volcan Land & Water Company has caused this instrument to be executed this 5th day of July, 1913.

Volcan Land and Water Company

(sig) by V. H. Metcalf
Vice-President.

(Seal of Corporation)
(sig)
Ed Fletcher, Secretary.

Subscribed and sworn to before me
this 15th day of July, A.D.1913.
(sig) Margaret Walker
Notary Public in and for the County
of Alameda, State of California.

(Seal)

EXHIBITS B & C.
Application of Volcan Land & Water Company
for Final Water Permit.

Exhibit B being
Alignment Notes of Proposed Location of the
Warner - Pamo Canal
As surveyed and staked on the ground.

Exhibit C being
Ties of above described survey to Section corners.

ALIGNMENT NOTES OF CENTER LINE OF LOCATION OF THE WARNER-PAMO
CONDUIT OF THE VOLCAN LAND & WATER COMPANY

Station	Degree of Curve	Deflection R	Deflection L	Course - True
0 - 00				S 75° 30' W
7 - 04.7 P.C.	10°	19° 00'		
8 - 94.7 P.T.				N 85° 30' W
16 - 03.4 P.C.	20°		24° 00'	
17 - 23.4 P.T.				S 70° 30' W
18 - 84.2 P.C.	10°	32° 15'		
22 - 06.7 P.T.				N 77° 15' W
22 - 87.2 P.C.	10°	6° 10'		
23 - 48.9 P.T.				N 71° 05' W
29 - 00 P.C.	10°		9° 10'	
29 - 51.8 P.T.				N 80° 15' W
32 - 13.6 P.C.	20°	24° 50'		
33 - 37.8 P.T.				N 55° 25' W
34 - 18.4 P.C.	20°		16° 50'	
35 - 02.6 P.T.				N 72° 15' W
35 - 08.2 P.C.	10°	30° 12'		
38 - 10.2 P. T.				N 42° 03' W
39 - 80.8 P.C.	10°	6° 38'		
40 - 47.1 P.T.				N 48° 41' W
42 - 66.4 P. C.	20°		13° 18'	
43 - 32.9 P.T.				N 61° 59' W
47 - 52.4 P.C.	10°		18° 00'	
49 - 32.4 P.R.C.	12° 48'	18° 00'		N 79° 59' W
50 - 73.1 P.T.				N 61° 59' W

Station	Degree of Curve	Deflection R	Deflection L	Course
55 - 15.6 P.C.	10°		7° 30'	
55 - 90.6 P.T.				N 69° 29' W
58 - 10.8 P.C.	20°	23° 15'		
59 - 27.0 P.T.				N 46° 14' W
62 - 27.0 P.C.	7°	3° 00'		
62 - 69.8 P.T.				N 43° 14' W
63 - 70.2 P.C.	10°		11° 00'	
64 - 80.2 P.T.				N 54° 14' W
67 - 80.7 P.C.	5°		1° 25'	
68 - 19.1 P.T.				N 55° 39' W
71 - 94.1 P.C.	20°	23° 53'		
73 - 13.5 P.T.				N 31° 46' W
73 - 37.0 P.C.	10°		18° 26'	
75 - 21.2 P.T.				N 50° 11' W
76 - 80.2 P.C.	13°		32° 00'	
79 - 26.3 P.T.				N 82° 11' W
79 - 70.3 P.C.	20°	45° 30'		
82 - 06.8 P.T.				N 36° 41' W
82 - 49.9 P.C.	20°		31° 50'	
84 - 09.1 P.T.				N 68° 31' W
84 - 16.9 P.C.	30°	29° 40'		
85 - 15.8 P.T.				N 38° 51' W
85 - 53.6 P.C.	30°		27° 06'	
(86 - 44.)				N 65° 57' W
(=86- 43.6) P.T.				
86 - 97.9 P.C.	30°	58° 00'		
88 - 91.3 P.T.				N 7° 57' W
89 - 33.8 P.C.	40°		80° 14'	

	Curve	R	L	Course
91 - 34.4	P.T.			N 88° 11' W
92 - 25.5	P.C.	15°	22° 00'	
93 - 72.2	P.T.			N 66° 11' W
94 - 92.9	P.C.	10°	8° 24'	
95 - 76.9	P.T.			N 57° 47' W
96 - 84.7	P.C.	10°	8° 50'	
97 - 73.0	P.T.			N 66° 37' W
100 - 39.6	P.C.	50°	54° 10'	
101 - 47.9	P.R.C.	30° 51'	35° 10'	N 12° 27' W
102 - 61.9	P.T.			N 47° 37' W
106 - 21.8	P.C.	20°	20° 10'	
107 - 22.6	P.T.			N 67° 47' W
110 - 73.5	P.C.	20°	42° 00'	
112 - 83.5	P.T.			N 25° 47' W
114 - 76.9	P.C.	20°	31° 50'	
116 - 36.1	P.T.			N 6° 03' E
116 - 71.7	P.C.	13°	4° 30'	
117 - 06.3	P.T.			N 1° 33' E
117 - 09.	P.C.	20°	57° 00'	
119 - 94.	P.T.			N 55° 27' W
120 - 23.7	P.C.	20°	17° 20'	
121 - 10.4	P.T.			N 72° 47' W
121 - 37.5	P.C.	10°	9° 00'	
122 - 27.5	P.T.			N 63° 47' W
(122 - 89.2)				
(-122- 89.6)	P.C.	9° 58'	14° 00'	
124 - 29.	P.T.			N 49° 47' W
124 - 80.5	P.C.	30°	35° 20'	

	Curve	R	L	Course
125 - 98.2	P. T.			N 85° 07' W
126 - 36.8	P. C.	40°	15° 50'	
126 - 76.4	P. T.			N 69° 17' W
129 - 70.8	P. C.	20°	17° 50'	
130 - 60	P. T.			N 51° 27' W
131 - 20.7	P. C.	30°	30° 50'	
132 - 23.5	P. T.			N 82° 17' W
132 - 40.	P. C.	50°	35° 20'	
133 - 10.7	P. T.			S 62° 23' W
133 - 22.7	P. C.	60°	47° 10'	
134 - 01.4	P. T.			N 70° 27' W
(134 - 28.6)				
(134 - 29.4)	P. C.	80°	54° 30'	
134 - 97.6	P. T.			N 15° 57' W
135 - 83.2	P. C.	50°	52° 10'	
136 - 87.5	P. T.			N 68° 07' W
137 - 50.4	P. C.	20°	23° 30'	
138 - 67.9	P. T.			S 88° 23' W
138 - 81.8	P. C.	40°	45° 10'	
139 - 94.7	P. T.			N 46° 27' W
142 - 26.6	P. C.	40°	36° 40'	
143 - 18	P. T.			N 83° 07' W
143 - 18.5	P. C.	50°	49° 20'	
144 - 17.2	P. T.			N 33° 47' W
149 - 18.9	P. C.	60°	42° 10'	
149 - 89.1	P. T.			N 75° 57' W
150 - 15.8	P. C.	40°	15° 50'	
150 - 55.4	P. T.			S 88° 13' W
151 - 44.1	P. C.	20°	8° 10'	

	Curve	R	L	Course
151 - 85	P. T.			S 80° 03' W
168 - 29.9	P. C.	20°	11° 10'	
168 - 85.7	P. T.			N 88° 47' W
170 - 05.7	P. C.	40°	48° 10'	
171 - 26.1	P. T.			N 40° 37' W
172 - 39.7	P. C.	50°	48° 30'	
173 - 36.7	P. T.			N 89° 07' W
174 - 05.7	P. C.	40°	22° 09'	
174 - 61.1	P. T.			S 68° 44' W
196 - 59.5	P. C.	50°	22° 50'	
197 - 05.2	P. T.			S 45° 54' W
197 - 33.3	P. C.	70°	42° 50'	
197 - 94.5	P. T.			S 3° 04' W
198 - 43	P. C.	15°	27° 10'	
200 - 24.1	P. T.			S 30° 14' W
201 - 48.5	P. C.	30°	54° 10'	
203 - 21.1	P. T.			S 23° 56' E
(203 - 55.9)				
(203 - 45.9)	P. C.	25°	49° 20'	
205 - 43.2	P. T.			S 25° 24' W
205 - 94.	P. C.	30°	26° 40'	
206 - 82.8	P. T.			S 1° 16' E
209 - 28.2	P. C.	20°	11° 50'	
209 - 87.3	P. T.			S 10° 34' W
210 - 59.	P. C.	10°	8° 10'	
211 - 40.7	P. T.			S 2° 24' W
213 - 16.7	P. C.	10°	13° 40'	
214 - 53.3	P. T.			S 11° 16' E

	Curve	R	L	Course
216 - 78.4	P. C.	30°	25° 20'	
217 - 62.8	P. T.			S 14° 04' W
217 - 82.6	P. C.	10°	11° 00'	
218 - 92.6	P. T.			S 3° 04' W
220 - 02.5	P. C.	10°	8° 20'	
220 - 85.8	P. T.			S 11° 24' W
223 - 74.9	P. C.	10°	29° 40'	
226 - 71.6	P. T.			S 41° 04' W
229 - 08.2	P. C.	20°	20° 00'	
230 - 08.2	P. T.			S 21° 04' W
231 - 56.8	P. C.	10°	10° 20'	
232 - 60.2	P. T.			S 10° 44' W
235 - 05.5	P. C.	10°	7° 10'	
235 - 77.2	P. T.			S 3° 34' W
237 - 54.8	P. C.	20°	19° 20'	
238 - 51.4	P. T.			S 22° 54' W
239 - 42.7	P. C.	10°	13° 10'	
240 - 74.4	P. T.			S 9° 44' W
244 - 17	P. C.	5°	6° 30'	
(245 - 47)				
(=)				
(245 - 47.2)	P. T.			S 3° 14' W
250 - 16.1	P. C.	20°	26° 10'	
251 - 46.9	P. T.			S 29° 24' W
254 - 55.6	P. C.	30°	26° 00'	
255 - 42.3	P. T.			S 3° 24' W
256 - 25.9	P. C.	6°	12° 59'	
258 - 42.3	P. T.			S 9° 35' E
260 - 01.6	P. C.	20°	25° 51'	

	Curve	R	L	Course
261 - 30.9	P. T.			S 16° 16' W
{ 326 - 77.1)				
{ 326 - 80.4)	P. C.	20°	14° 30'	
327 - 52.9	P. T.			S 30° 46' W
328 - 72.5	P. C.	10°	18° 50'	
330 - 60.8	P. T.			S 11° 56' W
330 - 87.3	P. C.	40°	38° 00'	
331 - 82.3	P. T.			S 49° 56' W
333 - 72.1	P. C.	10°	9° 20'	
334 - 65.4	P. T.			S 40° 36' W
335 - 95.9	P. C.	30°	16° 50'	
336 - 52.1	P. T.			S 57° 26' W
337 - 70.5	P. C.	50°	55° 30'	
338 - 81.5	P. T.			N 67° 04' W
340 - 65.5	P. C.	50°	75° 00'	
342 - 15.5	P. T.			S 37° 56' W
344 - 52.3	P. C.	30°	18° 20'	
345 - 13.4	P. T.			S 56° 16' W
347 - 87.3	P. C.	20°	11° 30'	
348 - 44.8	P. T.			S 67° 46' W
351 - 81.3	P. C.	50°	44° 10'	
352 - 69.6	P. T.			S 23° 36' W
353 - 23.3	P. C.	50°	31° 10'	
353 - 85.5	P. T.			S 54° 46' W
357 - 36.1	P. C.	10°	8° 10'	
358 - 17.7	P. T.			S 62° 56' W
359 - 84.7	P. C.	50°	46° 30'	
360 - 77.7	P. T.			S 16° 26' W
361 - 65.7	P. C.	40°	22° 10'	

	Curve	R	L	Course
362 - 21.1	P. T.			S 38° 36' W
362 - 94.2	P. C.	40°	26° 10'	
363 - 59.6	P. T.			S 12° 26' W
367 - 01.2	P. C.	10°	8° 50'	
367 - 89.5	P. T.			S 21° 16' W
368 - 25.5	P. C.	20°	20° 50'	
369 - 29.7	P. T.			S 42° 06' W
370 - 35.8	P. C.	30°	28° 00'	
371 - 29.2	P. T.			S 70° 06' W
371 - 84.2	P. C.	30°	24° 50'	
372 - 66.9	P. T.			N 85° 04' W
374 - 20.8	P. C.	30°	37° 50'	
375 - 46.9	P. T.			S 57° 06' W
376 - 06.3	P. C.	100°	86° 30'	
376 - 92.8	P. T.			S 29° 24' E
379 - 27.2	P. C.	30°	19° 50'	
379 - 93.3	P. T.			S 9° 34' E
379 - 96.3	P. C.	70°	32° 50'	
380 - 43.2	P. T.			S 23° 16' W
385 - 32.2	P. C.	80°	68° 30'	
386 - 17.9	P. T.			S 45° 14' E
386 - 36.7	P. C.	80°	19° 50'	
386 - 61.5	P. T.			S 25° 24' E
386 - 65.8	P. C.	80°	57° 40'	
387 - 37.9	P. T.			S 32° 16' W
387 - 82.2	P. C.	10°	7° 30'	
388 - 57.2	P. T.			S 39° 46' W
394 - 84.2	P. C.	50°	36° 50' 36° 50'	

	Curve	R	L	Course
395 - 57.9	P. T.			S 2° 56' W
396 - 59.2	P. C.	30°	17° 50'	
397 - 18.6	P. T.			S 20° 46' W
399 - 80.2	P. C.	30°	23° 40'	
400 - 59.1	P. T.			S 44° 26' W
400 - 74.2	P. C.	50°	44° 10'	
401 - 62.5	P. T.			S 0° 16' W
404 - 05.9	P. C.	20°	24° 20'	
405 - 27.6	P. T.			S 24° 36' W
406 - 23.3	P. C.	20°	21° 00'	
407 - 28.3	P. T.			S 45° 36' W
408 - 38.8	P. C.	50°	41° 00'	
409 - 20.8	P. T.			S 86° 36' W
409 - 99.6	P. C.	50°	28° 50'	
410 - 57.3	P. T.			S 57° 46' W
414 - 56.4	P. C.	4°	3° 10'	
415 - 35.6	P. T.			S 60° 56' W
417 - 16.6	P. C.	50°	36° 00'	
417 - 88.6	P. T.			N 83° 04' W
418 - 60.2	P. C.	40°	16° 50'	
419 - 02.3	P. T.			N 66° 14' W
420 - 36	P. C.	40°	29° 10'	
421 - 09	P. T.			N 37° 04' W
422 - 92.7	P. C.	100°	85° 50'	
423 - 78.5	P. T.			S 57° 06' W
424 - 35.8	P. C.	100°	74° 30'	
425 - 10.3	P. T.			S 17° 24' E
425 - 66.2	P. C.	50°	26° 00'	

	Curve	R	L	Course
426 - 18.2	P. T.			S 8° 36' W
426 - 49.2	P. C.	40°	25° 30'	
427 - 12.9	P. T.			S 34° 06' W
428 - 15.9	P. C.	50°	44° 40'	
429 - 05.2	P. T.			S 10° 34' E
430 - 66.1	P. C.	50°	22° 00'	
431 - 10.1	P. T.			S 11° 26' W
432 - 89.1	P. C.	40°	14° 00'	
433 - 24.1	P. T.			S 25° 26' W
434 - 21.7	P. C.	20°	9° 40'	
434 - 70	P. T.			S 35° 06' W
436 - 24	P. C.	100°	50° 50'	
436 - 74.8	P. T.			S 15° 44' E
437 - 01.	P. C.	100°	72° 00'	
437 - 73	P. T.			S 87° 44' E
438 - 16.6	P. C.	100°	53° 30'	
438 - 70.1	P. T.			S 34° 14' E
439 - 03.2	P. C.	50°	17° 50'	
439 - 38.9	P. T.			S 16° 24' E
439 - 52.8	P. C.	50°	48° 00'	
440 - 48.7	P. T.			S 31° 36' W
445 - 60.3	P. C.	30°	13° 00'	
446 - 03.6	P. T.			S 18° 36' W
447 - 26	P. C.	30°	17° 00'	
447 - 82.7	P. T.			S 35° 36' W
448 - 44.1	P. C.	50°	28° 30'	
449 - 01.1	P. T.			S 7° 06' W

	Curve	R	L	Course
450 - 84.3	P. C.	30°	19° 30'	
451 - 49.3	P. T.			S 26° 36' W
453 - 91.2	P. C.	30°	18° 00'	
454 - 51.2	P. T.			S 44° 36' W
455 - 78.2	P. C.	20°	13° 10'	
456 - 44	P. T.			S 57° 46' W
459 - 42.9	P. C.	60°	28° 50'	
459 - 90.9	P. T.			S 28° 56' W
461 - 23.4	P. C.	50°	37° 00'	
461 - 97.4	P. T.			S 65° 56' W
462 - 98.5	P. C.	60°	21° 50'	
463 - 34.9	P. T.			S 44° 06' W
463 - 44.9	P. C.	60°	33° 40'	
464 - 01	P. T.			S 10° 26' W
468 - 01.2			14° 50'	S 25° 16' W

Forebay

Pipe to Power House

477 - 25.6			16° 54'	S 8° 22' W
484 - 32.3			0° 41'	S 7° 41' W
486 - 48.8			6° 51'	S 0° 50' W
494 - 49.4			8° 00'	S 8° 50' W
502 - 30.6			11° 00'	S 19° 50' W
505 - 12.6			25° 33'	S 15° 43' E
507 - 74.1			14° 51'	S 20° 34' E
508 - 78.3			38° 04'	S 17° 30' W
510 - 72.7			10° 11'	S 27° 41' W
511 - 52.6			4° 00'	S 31° 41' W
513 - 32.6			54° 47'	S 23° 05' E
520 - 07.6			15° 17'	S 38 22' E

Curve	R	L	Course
534 - 21.1		5° 46'	S 44° 08' E
535 - 83.8		4° 31'	S 48 39' E
536 - 96.9			

End of tail-race

Exhibit C.

Ties to Section Corners.

- Sta. 11 - 04.2 On boundary of Rancho Valle de San Jose and fractional Section 10, T. 11 S., R. 2 E., San Bernardino Base & Meridian, 888.7 feet S. $39^{\circ} 30'$ W. of the intersection of the north line of said fractional Section 10 with the boundary of the Rancho Valle de San Jose
- Sta. 26 - 84.6 On line between Sections 9 and 10, T. 11 S., R. 2 E., San Bernardino Base & Meridian, 582.6 feet south of the north-east corner of said Section 9.
- Sta. 160 - 50.8 On line between Sections 31 and 32 T. 10 S., R. 2 E., San Bernardino Base & Meridian, 409.0 feet north of the South-west corner of said Section 31.
- Sta. 185 - 57.5 On line between Sections 31, T. 10 S., and 6, T. 11 S., R. 2 E., San Bernardino Base & Meridian, 278.4' east of their common $1/4$ corner.
- Sta. 249 - 18.4 On line between Sections 6 and 7, T. 11 S., R. 2 E., 994.7 feet east of the South-west corner of said Section 6.
- Sta. 305 - 25.9 On line between Sections 12 and 13, T. 11 S., R. 1 E., San Bernardino Base & Meridian, 609.3 feet west of the South-west corner of said Section 12.

Diligent but unsuccessful search was made for the corners of Section 35, T. 11 S., R. 1 E., San Bernardino Base & Meridian, to which to make terminal connection. No corner could be definitely identified. Mr/ Foster, who has lived in that vicinity for seven years past states that he has repeatedly searched for the corners without success.

EXHIBIT F₃

Notes of the Survey of that portion of the 2715 foot Contour of the Warner Reservoir Site lying within the Cleveland Forest Reserve.

Station No.	Distance	Course
0		
1	83.6 ft.	N. $37^{\circ} 19'$ W
2	156.1 "	N. $54^{\circ} 19'$ W
3	214.0 "	N. $4^{\circ} 31'$ W
4	98.1 "	N. $30^{\circ} 57'$ W
5	135.3 "	N. $21^{\circ} 47'$ E
6	171.0 "	N. $19^{\circ} 03'$ W
7	131.4 "	N. $26^{\circ} 54'$ E
8	116.5 "	N. $18^{\circ} 30'$ E
9	173.2 "	N. $47^{\circ} 09'$ E
10	319.5 "	N. $0^{\circ} 03'$ E
11	108.0 "	N. $33^{\circ} 01'$ W
12	139.0 "	N. $9^{\circ} 01'$ W
13	69.8 "	N. $22^{\circ} 40'$ W
14	105.5 "	S. $69^{\circ} 25'$ E
	105.8 "	S. $7^{\circ} 00'$ W

A point on Course No. 7 of the survey of the Ro. Valle de San Jose, 194.4 feet north easterly from Corner No. PVII of said survey, and 941 feet N. $31^{\circ} 59'$ E. of the intersection of the South line of Section 3, T. 11 S., R. 2 E., S. B. B. & M. with course No. 6 of the survey of said Ro. Valle de San Jose.

Station No.	Distance	Course.
15	60.3 ft.	S. 70° 59' E.
16		

The area contained between the above described 2715 ft. contour and the Wly. boundary of the Ro. Valle de San Jose is about 5.2 acres.

A point on Course No. 7 of the survey of the Boundary of Ro. Valle de San Jose, 4 feet southerly from Corner No.P. VIII of said survey.

The 2715-foot Contour here leaves the Cleveland Forest Reserve and enters the Ro. Valle de San Jose. It re-enters the Forest Reserve at Sta. O, the location of which is described below.

0		
1	124.9 ft.	N. 31° 13' E
2	125.0 ft.	S. 60° 42' E
3	94.4 ft.	N. 68° 50' E
4	268.4 ft.	N. 28° 51' W
5	108.8 ft.	S. 74° 42' E
6	179.2 ft.	S. 67° 56' E
7	143.8 ft.	N. 83° 20' E

The area between the above described 2715 foot contour and the Ranch Boundary is about 1.4 acres.

A point on Course No 9 of the survey of the Boundary of the Ro. Valle de San Jose 2353.0 feet south westerly from Sta. PX of said survey, which station PX is also the Northeast corner of Sec. 3 T. 11 S. R. 2. E. S. B. B. & M.

EXHIBIT F4

Field Notes of Area lying within the Cleveland National Forest required for Spillway for the proposed Warner Reservoir.

Beginning at the intersection of the South Line of Section 3, T. 11 S., R. 2 E., S. B. B. & M. and the westerly boundary line of the Rancho Valle de San Jose, thence along said ranch line

N. 39° 30' E., 400 feet, to a point on said ranch line
 thence S. 58° 27' W 592 feet, to a point on the south boundary line of said Section 3, thence along the south line of said Section 3
 N. 89° 46' E 250 feet, to point of beginning

Containing about 0.9 acres.

EXHIBIT I.

Estimate of Power.

Average discharge at Power House, as per Water Data attached	43.1 second-feet		
Fall	1500 feet		
Total power capacity $43.1 \times 1500 \times 0.08 =$	5172 Horse power		
Output, $5172 \times \text{Load Factor } 70\% =$	3620 " "		
Of this 3620 Horse Power $\frac{49.98}{51.40}$ ths, or 97.24% is made possible by the Warner Storage Reservoir.			
$3620 \times .9724 =$	3520 Horse Power		
Proportion of Reservoir of patented land $\frac{4790}{4800} =$	99.79%		
Storage power due to Patented lands $3520 \times .9979 =$	3513 Horse Power		
Difference between output Capacity and patented land storage power $3620 - 3513 =$	107 Horse Power		
Approximately 41.2% of the conduit is on patented land 41.2% of 107 =	<u>44</u> Horse Power		
Output Capacity	3620 Horse Power		
Deduct for patented land storage power	3513		
Deduct for patented land conduit	<u>44</u>	<u>3557</u>	" "
Remainder as base of Departmental charges	63	" "	

Water Data, San Luis Rey River Drainage.

Flow of the San Luis Rey River at the Warner Reservoir dam-site. Gaugings made under the direction of H. Hawgood.

	Disch. in ac-ft. by months.			Area drained 210 Sq.Mi	
	1905	1906	1911	1912	1913
January	1,771			248	443
February	2,516			191	2,008
March	47,093			4,850	1,758
April	10,359			4,270	744
May	2,926			1,350	252
June	1,672		124	182	
July			108	109	
August			72	87	
September			101	83	
October			78	209	
November			91	117	
December	437		182	138	
					11,835

The stream flow which might be utilized without a storage reservoir is taken as the average of the discharge for the two-month minimum flow periods of the above gaugings, i.e., August and September, 1911 and 1912, aggregating 343 acre-feet in 4 months, equivalent to a flow of 1.42 second-feet.

Rainfall

Within the drainage area of 210 miles tributary to the Warner Reservoir there are 15 rain gauges; twelve of these were established by the Volcan Land & Water Company during the season 1911-12. The two remaining gauges are the U. S. Weather Bureau gauge at Nellie, record 9 seasons, and at Warner Springs, record 7 seasons.

From a study of all available information it is estimated that the normal rainfall over the 210 square miles of the San Luis Rey River drainage above Warner Reservoir is as follows:

Normal Rainfall inches per season	Square Miles	Percentage of total area
40 and over	1.2	0.53%
35 to 40	8.5	4.05
30 to 35	6.2	2.95
25 to 30	10.7	5.10
20 to 25	22.4	10.69
18 to 20	57.4	27.30
16 to 18	81.8	38.90
Under 16	<u>21.8</u>	<u>10.48</u>
	210.0	100.00%

The run-off from a drainage area may be represented by an equation of the form $y = f(x)^n$. In the present instance it is considered that the approximate value of "n" is 1.6.

The U. S. Weather Bureau rain record at San Diego has been maintained for 62 seasons. Using this record as a basis for fluctuation above and below the normal, and computing the respective yearly run-offs as being a function of the 1/6th power of the rainfall, ($y = f(x^{1.6})$), it is estimated that the average run-off from the Warner Reservoir drainage is 51.4 second-feet. The capacity of the proposed Warner Reservoir would permit of the utilization of this run-off to its full value, subject to evaporation losses.

The losses from evaporation are estimated to average 14 per cent, leaving a net average discharge to conduit of 44.2 second-feet. With a cement lined conduit, as designed, it is estimated that the evaporation and seepage losses in conduit would be 2%, and that there would be delivered to the power plant an average stream of 43.1 second-feet, net.

(Signed) H. Hawgood.

EXHIBIT J.

The Volcan Land & Water Company, applicant for a final water power permit for the Warner-Pamo project, desires the following time for completing preliminary work and for making financial arrangements.

For the making of surveys, examination of foundations, revision of preliminary estimates of cost for use in financing, and other preparatory work, six months.

For making financial arrangements for the carrying out of the projected works, eighteen months.

In all a period of twenty-four months from date of execution of the permit to the date of beginning the construction of the project works.

Volcan Land & Water Company

by (signed) V. H. Metcalf,
Vice-President.

Attest:

Ed Fletcher

Secretary.

(Seal)

EXHIBIT K

I, Ed Fletcher, do hereby certify that I am Secretary of the Volcan Land & Water Company, and that the following is a true list of the officers and directors of the said Company on the 3rd of July, 1913.

Wm. G. Henshaw,	President.
Victor H. Metcalf,	Vice President.
Ed Fletcher,	Secretary.
A. H. Sweet,	Director.
F. J. Belcher,	Director.

(signed) Ed Fletcher
Secretary.

(Seal)

EXHIBIT L.

State of California)
) ss.
County of Los Angeles)

H. Hawgood, being duly sworn, says he is the engineer of the Volcan Land & Water Company; that the survey of the water conduit, as shown on the maps filed together herewith and designated as Exhibits A and H, maps of proposed location of the conduit and power plant of the Volcan Land & Water Company, being a total length of water conduit of ten and two tenth miles, was made under his direction under authority of said Volcan Land & Water Company; that said survey, which was preceded by other surveys in the years 1911 and 1912, was commenced the 30th day of May, 1913, and completed on the 20th of June, 1913, and that the said survey is accurately represented upon the maps herein described; he further says that the notes of survey filed together herewith as Exhibits B and C are the notes of the above described survey; that said notes are a true and complete copy of an actual location survey made upon the ground under his direction within the dates above named; and that all of said notes and no others were used in the preparation of the maps herein described; he further says that the high water line of the Warner Reservoir, shown on Section 3, Tp. 11 S., R. 2 E., S.B.B & M., Exhibit F, Map of Warner Reservoir, was made partly from surveys made under his direction and partly from the maps of the U.S. Geological Survey; and he further says that the plans of structures filed herewith and described as Exhibits E, Plans of Warner Dam and accessory structures, and Exhibit G,

plans of types of Water Conduit, were prepared under his direction under authority of said Volcan Land & Water Company; that the designs as shown upon said plans represent safe, proper and adequate structures for the full economic utilization of the power available for development at the location shown upon the maps herein described; and he further says that the data and estimates filed together herewith as Exhibit I were prepared by him under authority of said Volcan Land & Water Company; that the estimates shown in said Exhibit I are based upon said data, being all the data available therefor; and that said estimates represent in his best judgment and belief the amount of power that can be developed under the condition specified by the works shown upon the maps and plans herein specified.

(signed) H. Hawgood,
Engineer.

Subscribed and sworn to before me this 2d day of July, 1913.

(signed) Lily Stephenson
Notary Public.

EXHIBIT M.

I, Victor H. Metcalf, do hereby certify that I am the Vice President of the Volcan Land & Water Company; that H. Hawgood, who subscribed the foregoing affidavit, is the Engineer of said Company; that the survey of the water conduit, reservoirs, and power house site as shown upon the maps filed together herewith and designated as follows: Exhibit A - H, Maps of proposed location of Warner-Pamo Conduit and power plant. Exhibit F, Map of Warner Reservoir. The notes of survey as given in Exhibits B and C filed together herewith; the designs of structures as shown upon the plans filed together herewith and designated as follows: Exhibit E, Plans of Warner Dam and accessory structures, Exhibit G, Plans of each type of Water Conduit, the collection of data and the estimates of power as given in Exhibit I, filed together herewith, were made under authority of said Company; that said Company is fully authorized by its articles of incorporation to construct, maintain and operate water conduits, transmission lines, dams, reservoirs, and power houses upon the location shown upon the above described maps, and of the design shown upon the above described plans; that said locations and said designs have been adopted by said Company as the approximate final locations and the approximate final designs of said water conduit, dams, reservoirs, and power house, that said estimates as shown by said Exhibit I have been approved by said Company; and that in accordance with the regulations of the Secretary of Agriculture, the maps, plans, estimates, and data herein described have been prepared as a part of an application of said Company.

dated July 5, 1913, and bearing my signature as Vice President of said Company .

(signed) V. H. Metcalf,

Vice President of the
Company.

(Seal)

Attest: Ed Fletcher,

Secretary.

EXHIBIT N.

STATE OF CALIFORNIA -- DEPARTMENT OF STATE

I, FRANK C. JORDAN, Secretary of State, of the State of California, do hereby certify, that on the 8th. day of December A.D.1911, there was filed in this office a duly certified copy of the Articles of Incorporation of VOLCAN LAND AND WATER COMPANY, a Corporation organized and existing under the laws of the Territory of Arizona.

I further certify, that said Corporation has complied with the laws of the State of California governing foreign Corporations, to an extent sufficient to entitle said Corporation to operate in the State of California.

IN WITNESS WHEREOF, I have hereunto set my hand and have caused the Great Seal of the State of California to be affixed hereto, this 19th day of July, A.D.1913.

(signed) Frank C. Jordan,

Secretary of State,

By (signed) Frank H. Cory

Deputy.

No. 8739.

Frank C. Jordan, Secretary of State, Frank H. Cory, Deputy.

STATE OF CALIFORNIA

DEPARTMENT OF STATE.

I, Frank C. Jordan, Secretary of State of the State of California, do hereby certify that I have carefully compared the annexed copy of Certificate of Territorial Auditor of filing Articles of Incorporation, Appointment of Agent and Affidavit of Publication by VOLCAN LAND AND WATER COMPANY, with the original now on file in my office, and that the same is a correct transcript therefrom, and of the whole thereof. Also, that this authentication is in due form and by the proper officer.

WITNESS my hand and the Great Seal of State, at office in Sacramento, California, the 9th day of December, A.D. 1911.

(signed) Frank C. Jordan

Secretary of State.

TERRITORY OF ARIZONA.

Office of the
TERRITORIAL AUDITOR.

United States of America,)
Territory of Arizona.) ss.

I, G. A. Mauk, Territorial Auditor of Arizona, do hereby certify that ARTICLES OF INCORPORATION OF VOLCAN LAND AND WATER COMPANY were filed in this office on the twenty-fifth day of November, A. D. 1911, at ten o'clock A.M., as provided by law; that APPOINTMENT OF A RESIDENT AGENT for the said company was filed in this office on the second day of December, A.D., 1911, at ten o'clock A.M., as provided by law; and that AFFIDAVIT OF PUBLICATION of the said Articles of Incorporation was filed in this office on the fourth day of December, A.D. 1911 at ten o'clock A.M. as provided by law.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal. Done at the City of Phoenix, The Capital, this fifth day of December, A.D.1911.

(signed) G. A. Mauk,

(SEAL)

TERRITORIAL AUDITOR.

(ENDORSED) Filed in the Office of the Secretary of State the 9th day of December A.D.1911, Frank C. Jordan, Secretary of State by Frank H. Cory, Deputy. Record Book --- Page ---.

Filed Dec. 12, 1911. J. T. Butler, Clerk by E. B. Adams, Deputy.

No.19824

Frank C. Jordan, Secretary of State Frank H. Cory, Deputy.

STATE OF CALIFORNIA.
DEPARTMENT OF STATE.

I, Frank C. Jordan, Secretary of State of the State of California, do hereby certify that I have carefully compared the annexed copy of Articles of Incorporation of VOLCAN LAND AND WATER COMPANY - with the certified copy of the original now on file in my office, and that the same is a correct transcript therefrom, and of the whole thereof. Also that this authentication is in due form, and by the proper officer.

WITNESS my hand and the Great Seal of State, at Office in Sacramento, California, the 8th day of December, A.D.1911.

(SEAL)

(signed)

Frank C. Jordan,

Secretary of State

By
Deputy.

T E R R I T O R Y O F A R I Z O N A

Office of the
TERRITORIAL AUDITOR.

UNITED STATES OF AMERICA)
) SS.
TERRITORY OF ARIZONA)

I, G. A. Mauk, Territorial Auditor of Arizona, do hereby certify that the annexed is a true and complete transcript of the

ARTICLES OF INCORPORATION
OF
VOLCAN LAND AND WATER COMPANY

which were filed in this office on the twenty-fifth day of November, A.D.1911, at ten o'clock A.M., as provided by law.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal. Done in the City of Phoenix, the Capital, this 5th day of December, A. D. 1911.

(SEAL)

G. A. Mauk,
Territorial Auditor.

ARTICLES OF INCORPORATION OF THE
VOLCAN LAND AND WATER COMPANY.

Know all men by these presents:-

That we, the undersigned, and hereinafter named incorporators, have associated ourselves together as a corporation under the laws of the Territory of Arizona for the purpose of engaging in the lawful enterprises, businesses, pursuits and occupations hereinafter specified, and that we have adopted the following Articles of Incorporation:-

-I-

The names of the Incorporators are Chas. E. Walker, S. L. Pattee, D. H. Holmes, Gerald Jones and S. V. McClure.

The name of the corporation shall be VOLCAN LAND AND WATER COMPANY.

The principal place of business of the corporation in Arizona shall be in the City of Tucson, County of Pima, and it shall have a branch office in the City of San Diego, State of California, and the stockholders' meetings of the corporation may be held at any or either of said offices. Meetings of the Board of Directors may also be held at any or either of said offices, at which places all or any of the business of the corporation may be transacted.

-II-

The general nature of the business proposed to be transacted by said corporation and the purposes for which it is formed shall be as follows:

(1) To engage in and conduct the business of procuring, developing, producing, appropriating, buying, renting,

leasing, and otherwise acquiring water, water rights and lands;

(2) To supply and apply such water to its own lands and to use the same upon its own lands for domestic purposes, and for the watering of stock and for irrigation;

(3) To sell and convey such lands with the perpetual right of such water for use upon such lands - such right to be appurtenant to such land;

(4) To acquire or build and construct channels, conduits and ways for the delivery of said water to said lands, and to construct, erect, maintain, and operate water plants and all buildings and structures, canals, dams, ditches, flumes, aqueducts, pipes, mains, machinery, appliances and apparatus proper or convenient for the development, collection, storage, utilization, conducting and distributing of water to its lands;

(5) To acquire, hold, store and distribute water for the aforesaid purposes by any other means in addition to those hereinbefore provided;

(6) To sell and dispose of such amount of water so developed and acquired as the Board of Directors may determine to be in excess of that necessary for use on the lands of this corporation;

(7) To acquire, by purchase, appropriation, lease, condemnation or otherwise and to hold, use, enjoy, mortgage, pledge, sell, assign, convey, lease, or let lands, franchises, rights-of-way and other easements, patents and patent rights and all other real and personal property which may at any time be necessary or proper for any of the purposes of this corporation;

(8) To acquire by purchase, subscription or otherwise and to hold, sell, assign, transfer, mortgage, pledge or otherwise dispose of shares of the capital stock of, or any bonds, debentures or other evidences of indebtedness created or issued by any other corporation or corporations, and to exercise all powers and rights of ownership over all and any such shares, bonds, debentures and other evidences of indebtedness, including the right to vote on such shares of capital stock;

(9) To borrow money, execute and issue its bonds, promissory notes, bills of exchange, debentures and other obligations, and evidences of indebtedness of all kinds, whether secured by mortgage or deed of trust of its property owned or to be acquired or by pledge thereof, or otherwise, and to sell, exchange or barter the same or any thereof for cash or property or any valuable consideration as may be deemed advisable by its Board of Directors.

(10) To mortgage (by deed of trust or otherwise) all or any of the property, rights, interest and franchises of the corporation which it may at any time own, together with all or any corporated property which it may thereafter acquire, and to pledge all or any bonds, promissory notes, bills of exchange, debentures, and all securities of every kind at any time owned by the corporation.

(11) Generally, to do and perform any and every act, thing, matter, business and undertaking necessary, proper or lawful to carry into effect any of the foregoing powers, and said corporation shall have and possess all the powers incident to or connected with the carrying out of the purposes of the said

corporation which are now or may hereafter be lawfully exercised by it under the laws of the Territory of Arizona.

-III-

The amount of the authorized capital stock of this corporation shall be nine million dollars (\$9,000,000.00) divided into ninety thousand (90,000) shares of the par value of one hundred dollars (\$100.00) each.

That said stock may be issued for subscription in cash, or in consideration of any other property, real or personal. The time when such subscriptions or other property is to be paid in shall be the time of the issuance of the said stock, and the condition upon which said cash subscription or property, real or personal, is to be paid in, shall be determined by a resolution of the directors of the corporation authorizing the issue of such stock to the person or persons named in the resolution in consideration of cash subscription or the transfer to the corporation of property, real or personal, in lieu of cash; and the determination of the directors of the value of such property, real or personal, paid in for stock, shall be conclusive as to its value.

Services or labor performed for and at the request of the corporation shall give the same rights and be subject to the same conditions as to issuance of stock therefor as is prescribed herein for property paid in.

The corporation may retain any proportion of said capital stock in its treasury and may sell or contract to sell the same by a vote of a majority of its Board of Directors, or in such manner as its by-laws may provide.

IV.

The time of the commencement of this corporation shall be when the Articles are filed for record in the office of the County Recorder of the County of Pima, the county where its principal place of business is to be; and a certified copy filed in the office of the Territorial Auditor, and it is formed to endure for twenty-five (25) years thereafter, but its charter rights may be renewed for successive periods of twenty-five (25) years as provided by law.

V.

The highest amount of indebtedness or liability, direct or contingent, to which this corporation is to be at any time subjected is the sum of six million dollars (\$6,000,000.00.)

VI.

The affairs of this corporation are to be, and they shall be, conducted by a Board of Directors consisting of five (5) directors, who shall be elected annually by the stockholders on the second Monday in December of each year, beginning with the year nineteen hundred and eleven (1911), provided that the said Board of Directors may elect such officers and appoint such committee or committees from their own number to aid in the management of the business and in the conduct of the affairs of said corporation as they may see fit, and vest in such officers and said committees all such powers as they may deem expedient.

The first regular annual meeting of stockholders shall be held on December 11th, 1911, and annual meetings of stockholders shall thereafter be held on the second Monday of

December of each year following, and voting at any stockholders' meeting may be in person or by such proxy as the by-laws may provide.

The following named persons shall constitute the Board of Directors of this corporation until their successors, duly qualified, shall be elected, to-wit:

Chas. E. Walker	S. L. Pattee
D. H. Holmes	Gerald Jones and
S. V. McClure.	

Vacancies in the Board of Directors shall be filled by the remaining members of the Board, or by vote of the stockholders at a special meeting called by the president for that purpose.

Immediately, or as soon as practicable, after the filing of these Articles for record in the office of the County Recorder of Pima, Territory of Arizona, and the filing of a certified copy in the office of the Territorial Auditor, the persons named herein to serve until their successors, duly qualified, shall be elected, shall meet and organize as a Board of Directors, adopt by-laws and prescribe in said by-laws the method of calling meetings of the Board of Directors and stockholders.

A majority of said directors shall be a quorum, and any meeting of said board at which a quorum is present shall be deemed a regular meeting and shall have the same authority as if the full board were present.

VII.

The Board of Directors of this corporation shall have power to establish by-laws and the (right) to change the

same, and to make all rules and regulations deemed expedient for the management of the affairs of this corporation and the officers thereof, not inconsistent with the constitution and laws of the United States and laws of this Territory.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 24th day of November, 1911.

(signed)	Chas. E. Walker (Seal)
	S. L. Pattee (Seal)
	D. H. Holmes (Seal)
	Gerald Jones (Seal)
	S. V. McClure (Seal)

Territory of Arizona)
County of Pima) ss.

Before me, J. B. Henderson, a Notary Public in and for the County of Pima, Territory of Arizona, on this day personally appeared Chas. E. Walker, S. L. Pattee, D. H. Holmes, Gerald Jones and S. V. McClure to me known and known to me to be the persons described in and who executed the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 24th day of November, 1911. My commission expires May 9, 1915.

(seal) (signed) J. B. Henderson

Notary Public in and for the County of Pima, Territory of Arizona.

Territory of Arizona) ss
County of Pima)

I, Ben Heney County Recorder in and for the County of Pima and Territory of Arizona, do hereby certify that the above and foregoing is a full, true and correct copy of the original Articles of Incorporation of the VOLCAN LAND AND WATER COMPANY as the same appears of record in my office in Book 8 of Incorporations

at page et seq. records of said County of Pima, Arizona Territory.

Filed and recorded November 24, 1911, at 11:50 A.M.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in Tucson this 24th day of November, A. D. 1911.

(signed) Ben Honey
County Recorder of Pima County, Arizona.

Filed in the office of the Territorial Auditor of the Territory of Arizona this 25 day of November A.D.1911 at 10:00 A.M. at request of S. V. McClure whose post office address is 431 Pacific Electric Bldg. Los Angeles, Calif.

(signed) G. A. Mauk, Territorial Auditor.

Copy furnished for certification Compared P B to L A

(Endorsed) filed in the office of the Secretary of State the 8th day of December, A.D.1911, Frank C. Jordan, Secretary of State.
By Frank H. Cory, Deputy, Record Book --- Page ---
Filed Dec 11 1911 J.T. Butler, Clerk. By J. B. McLees.

State of California,)
County of San Diego.) ss.

I, J. T. BUTLER, County Clerk of the County of San Diego, State of California, and ex-officio Clerk of the Superior Court of said County, hereby certify that I have compared the foregoing copy with the Certified Copy of Articles of Incorporation of Volcan Land and Water Company now on file in my office; that the same contains a full, true and correct transcript therefrom and of the whole thereof.

(Seal)

Witness my hand and the seal of the Superior Court this 18th day of July, A.D.1913.
(signed) J. T. Butler, County Clerk.

by (signed) J. B. McLees, Deputy.

(Letterhead of)

H. Hawgood
Consulting Engineer
H.W.Hellman Building

Los Angeles, California

June 30th, 1913.

Mr. L. A. Barrett,
Acting District Forester,
San Francisco, Cal.

Dear Sir:-

I have your letter of the 28th inst., and am pleased to find that the date of the filing of the Volcan Land & Water Company's application for final permit is the 15th and not the 8th of July. All required documents will be ready by that date.

The Company is not applying for lands upon which to build its storage reservoir, forebay, or power house, and I will therefore not incumber the records with detail drawings of structures relating to dams and power houses. General plans will, however, be included.

Yours very truly

(signed) H. Hawgood.

L
Cleveland, Water Power
Volcan Land & Water Company,
Conduit, 1/8/13.

June 28, 1913.

Mr. H. Hawgood, Engineer,
Volcan Land & Water Company,
H.W.Hellman Building,
Los Angeles, California.

Dear Sir:

Your letter of June 27 is received.

Your attention is called to Clause 1 of the permit issued to the Volcan Land & Water Company, which allows the Company until July 15, 1913, within which to file a complete and final application for a permit in the manner prescribed by the regulations and instructions of the Secretary of Agriculture. The last paragraph of Regulation L-11, which you will find on page 17 of the water power section of the National Forest Manual, provides that an application for a final permit shall not be complete until every map and paper required by Regulation L-9 and by this regulation, has been filed in the form prescribed. It will, therefore, be necessary for the Company to file an application, accompanied by all of the required maps and data on or before July 15 in order to preserve its priority.

I presume from your letter that the Company will be able to do this. However, if you find that it cannot, it might apply for an extension of the time allowed by the preliminary permit, and if the reasons for the delay in completing the surveys are shown to be sufficient, I have no doubt that the Secretary of Agriculture will extend the time.

Very truly yours,

(signed) L.A. Barrett
Acting District Forester.

(Letterhead of)
H. Hawgood
Consulting Engineer
H.W.Hellman Building.

Los Angeles, California

June 27th, 1913.

District Forester,
U.S. Forest Service,
San Francisco, Cal.

Dear Sir:

On January the 8th, 1913, the Volcan Land & Water Company made application for preliminary water power permit in the Cleveland National Forest, San Diego County. This permit was approved by the Secretary of Agriculture about the 15th of January. The period designated in the permit was six months. Will you please inform me if this period would commence to run from the date of the application, 8 January, or from the date of its approval on or about the 15th January.

Some unlooked for delays have occurred in the making of the final survey, and it may be that if the filing of the final application has to be made in your office on the 8th July next, that all the drawings required under the final application regulations cannot be filed, although every effort will be made to do so. It might not be possible to finish all the sheets of the contour map and the details of structures and deliver them to your office before the 12th or 14th.

There can be filed with you on the 8th of July the Application, Form 60, the general map showing the entire project on a scale of 1"-2000 ft., the alignment notes of the center line of the proposed final location as staked on the ground; profile

with horizontal scale of 400 feet to the inch, and probably a portion of the 400 foot scale contour map and the plans of structures. Will you please inform me if the temporary omission of part of these plans, which omission will be rectified within a few days after the first filing, will invalidate or prejudice the application of the Volcan Land & Water Company for a final permit, in continuation of its preliminary permit previously granted.

Yours very truly,

(signed) H. Hawgood

Engineer for the Volcan Land
& Water Company.

UNITED STATES DEPARTMENT OF AGRICULTURE

Office of the Secretary.

Cleveland, Water Power.
(Name of Forest)

Volcan Land & Water Company
(Name of Applicant)

Conduit
(Use applied for)

1/8/13
(Date of priority of application)

PRELIMINARY WATER-POWER PERMIT

This Preliminary Permit, issued this 15th day of January, 1913, to the Volcan Land and Water Company, hereinafter called the Permittee, a corporation organized and existing under and by virtue of the laws of the State of Arizona, and having its office and principal place of business at San Diego in the State of California, WITNESSETH: That,

WHEREAS, the Permittee filed with the Forester at Washington, District of Columbia, on the 8th day of January, 1913, at 3 P.M. an application for a Preliminary Permit, in accordance with the regulations of the Department of Agriculture; No charge since the Permittee represents that the power is to be used in aid of irrigation in which it will engage.

NOW, THEREFORE, the conditions of this Permit are as follows:

Clause 1. If the Permittee shall, on or before the 15th day of July, 1913, file with the ^{District} Forester at San Francisco, California in the manner prescribed by the regulations and instructions of the Secretary of Agriculture, a complete and final application for a permit to occupy and use lands of the United States within the

Cleveland National Forest as shown upon a certain map executed by H. Hawgood on the 8th day of January, 1913 and made a part of the aforesaid preliminary application for a conduit to be located between points of diversion and discharge as approximately shown upon the aforesaid map; and a power-house site to be located approximately as shown on the aforesaid map; then and thereupon said final application shall with reference to priority of application relate back and be effective as of the date of the aforesaid preliminary application, and the priority of the Permittee's application for a permit to occupy and use the lands of the United States, as such lands are shown in its final application, shall be established as against any other application for a like use, covering in whole or in part the same lands, which may have been filed subsequently to the filing of the aforesaid preliminary application.

Provided, however, that if the Permittee shall include in said final application lands covering developments not comprehended by its preliminary application, the priority of its application for such additional lands shall date only from the date of the filing of said final application.

Clause 5. This permit shall terminate and become void upon the date named in Clause 1 hereof, unless extended by the written consent of the Secretary of Agriculture, and such extension shall not be granted unless the completion of the final application has been prevented by unusual climatic conditions that could not reasonably have been foreseen, or by some special or peculiar cause beyond the control of the Per-

mittee; and if at the date of the termination of this permit as named in Clause 1 hereof, or at the date of the termination of any extension of time as herein provided, the Permittee has failed to present a complete and final application in the manner and in the form prescribed in Clause 1 hereof, then and thereupon the aforesaid priority shall be lost, and no other application covering in whole or in part the same or adjacent lands will be accepted from the Permittee for a period of one year subsequent to the date of the termination of this Permit or the date of the termination of any extension thereof.

Clause 6* This Permit shall give no right to begin construction of any kind or to cut or destroy any timber upon National Forest lands; but shall give only the right to establish priority of application as hereinbefore provided.

Clause 7. This Permit is nontransferable.

IN WITNESS WHEREOF, I have hereunto set my name this 15th day of January, 1913.

(Signed) James Wilson
Secretary of Agriculture.

J. B. A.

*Cancel form of clause not used.

G P M

UNITED STATES DEPARTMENT OF AGRICULTURE.

FOREST SERVICE

APPLICATION FOR PRELIMINARY WATER-POWER PERMIT

The Volcan Land and Water Company, a corporation organized and existing under and by virtue of the laws of the State of Arizona, and having its office and principal place of business at San Diego, in the State of California, does hereby make application for a Preliminary Permit for six months, covering certain lands of the United States within the Cleveland National Forest in the State of California, as such lands are approximately shown upon a certain map executed by Volcan Land and Water Company, on the eighth day of January, 1913, which map is filed herewith and made a part hereof. This application is made in order that Volcan Land and Water Company may, upon the filing of a complete and final application in accordance with the regulations of the Secretary, secure a priority for said final application from the date of the filing of this Preliminary Application.

IN WITNESS WHEREOF, Volcan Land and Water Company, has caused this instrument to be executed this eighth day of January, 1913

(Signed) Volcan Land & Water Company
by Wm. G. Henshaw, Prest

Witness H. Hawgood.

Attest.....
Secretary.

I., H. Hawgood, Engineer of the Volcan Land and Water Company do hereby certify that Wm.G.Henshaw whose signature I witnessed is known to me to be the President of the Volcan Land and Water Company.

(Signed) H. Hawgood.

Upon careful study and investigation of all available records of the flow of the San Luis Rey River at the proposed dam site of the Warner Reservoir of the Volcan Land and Water Company shown on map Exhibit A of the application of said company for a preliminary water power permit, and also of all available rainfall records of the adjacent territory, I estimate that the average amount of water, after deduction for evaporation losses, available for use at the proposed power house shown on said map would be approximately 44.6 second feet, and that with the fall of 1500 feet, more or less, there available the average power that may be developed would be 4375 Kilo Watts measured on the switchboard of said proposed power house and which amount of power is subject to reduction to the extent of any and all compensation water which may have to be diverted before reaching said power house to the Escondido Water Company or other riparian owners.

(Signed) H. Hawgood
Engineer.

Wm.G. Henshaw
Pres. Volcan Land and Water Company.

8th January, 1913

January 13, 1913.

L
Cleveland Water Power,
Volcan Land and Water Company,
Conduit, 1/8/13.

The Secretary of Agriculture.

Dear Mr. Secretary:

On January 2, 1912, the Volcan Land and Water Company, an Arizona corporation, filed in the Department of the Interior, an application, under the Irrigation Right of Way Law, for a right-of-way for certain reservoirs and conduits which the Company alleged it wishes to use in connection with the irrigation of certain arid lands near San Diego, California. A part of the project is located within the Cleveland National Forest. Therefore, the Department of the Interior referred the Company's map to this Department for consideration and in order that stipulations for the protection of the National Forests might be obtained if desired.

When the matter was looked into by the District Engineer he discovered that a part of the proposed conduit was to be used for hydro-electric development; that the Company could obtain approximately 7,000 horsepower without in any manner interfering with its irrigation project. He, therefore, recommended that as to this part of its proposed conduit it be required to obtain a right of way under the regulations of this Department relating to water power development. Accordingly, a report to that effect was made by Acting Secretary Hays to the Secretary

of the Interior on June 4, 1912.

As a result of this report and a similar report made by the Director of the Geological Survey to the Secretary of the Interior, the Company was called on to show cause why its application under the Irrigation Act should not be denied as to the part of the conduit to be used for power development.

The Company's President, Mr. W. G. Henshaw, of Oakland, California, and former Secretary Metcalf, who is one of the Directors, have appeared before the Secretary of the Interior on two or three occasions and fully discussed with him the purposes of the Company. At the last hearing a showing was made by them and the Chief Engineer of the Company that the power which might be developed could be used by the Company for irrigation purposes. It is my understanding that the Secretary of the Interior informed the representatives of the Company that he would be willing to approve their map filed for irrigation purposes on condition that the Company obtain from you a preliminary water-power permit for the power conduit in question. He also would require the Company to file some stipulation which he proposes to draft.

The Company's officers at once filed with me an application for a preliminary water-power permit. The application does not in all respects comply with the letter of your regulations relating to applications for preliminary permits but I feel that there has been a substantial compliance. Some of the information that your regulations require is already on file in the Department of the Interior and I see no reason why this Department can not avail itself of it. Thus, the Company's articles of

incorporation and evidence of water right are both on file with the Company's application in the Interior Department.

I am satisfied, that you can, with propriety, on the information we now have, issue the Company a Preliminary Permit and accordingly have prepared one for your signature which I submit herewith. It will give the Company until July 15, 1913, in which to file an application for a final water-power permit. It is my understanding that the Secretary of the Interior is willing to proceed with the granting of a right of way of the principal part of the project on being informed that you have issued such a preliminary permit.

I may add that the officers of the Forest Service who have investigated this case are convinced that irrigation is the main purpose of this company. It purposes to put water on lands just north of San Diego which are at present of little value but would probably be worth several hundred dollars per acre for growing citrus fruits and vegetables if water for irrigation can be secured.

Very sincerely yours,

(signed) Henry S. Graves

Enclosures.

Forester.

January 13, 1913.

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MEMORANDUM:

I examined the evidence of water right filed by the Volcan Land and Water Company with its application Los Angeles 014518 now pending before the Secretary of the Interior. The Company had filed an abstract of title on its face which showed that Ed Fletcher was the owner of certain rights in the San Luis Rey River. The attached copy of telegram is intended to show that Fletcher has conveyed these rights to the Volcan Land and Water Company.

(Signed) C. H. T.

COPY.

THE WESTERN UNION TELEGRAPH COMPANY

San Diego Cal Jan 11/13

H. Hawgood
New Willard Hotel,
Washington, D.C.

Ed Fletcher assigned today to the Volcan Land and Water Company claims previously assigned to him by Lou B. Mathews, G. B. Lull, L. A. Kennedy and Ethel Fowler. Said assignment of Ed Fletcher was filed for record this eleventh day of January nineteen hun-

dred and thirteen at two minutes past nine o'clock. Am number one thousand and seventy-three records of San Diego County, California.

John H. Ferry

County Recorder.

Ed Fletcher Papers

1870-1955

MSS.81

Box: 51 Folder: 9

Business Records - Water Companies - Volcan Land and Water Company - San Dieguito System - Warner Dam (Lake Henshaw) and associated projects - Warner power application: bound correspondence



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