



WATER-RIGHT DOCKET

Lake Mead National Recreation Area

Docket No: 16

COTTONWOOD COVE WELL #1

Preliminary Docket Information

05-21-1976: basic description of cottonwood cove and contents of docket no. 16

WATER RESOURCES/WATER RIGHT

DATE: May 21, 1976

WATER RIGHT/SOURCE DOCKET INFORMATION

REGION Western Region AREA Lake Mead National Recreation Area

SITE Cottonwood Cove Campground

STATE Nevada COUNTY Clark DOCKET NO. WR #16

LOCATION SE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 23 and SW $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 24, T28S, R65E, MDB&M

REGIONAL BASIN Colorado River LOCAL BASIN

ACQUIRED BY Appropriation and other (see narrative).

APPLICATION 19921, 19922 PERMIT CERTIFICATE 5619, 5620

ACTION DUE PRIORITY June 16, 1961 RESERVATION

QUANTITY 390,000 GPD USE Domestic and quasi-municipal

STATUS Active SOURCE 4 wells

REMARKS *Hydrologic unit # 150*

Locations:
 well #1: SW $\frac{1}{4}$, NE $\frac{1}{4}$, S23, T28S, R65E
 #2: SW $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$, S24, T28S, R65E
 #3: SW $\frac{1}{4}$, NW, SW $\frac{1}{4}$, S24, T28S, R65E
 #4: SW $\frac{1}{4}$, NW, SW $\frac{1}{4}$, S24, T28S, R65E

NARRATIVE: This docket contains material covering four wells in the vicinity of Cottonwood Cove Campground, all on the Nevada side of Lake Mohave in Lake Mead National Recreation Area. The first well was completed on Oct. 10, 1957, and was drilled to a depth of 90 feet. This well was filed with the State of Nevada (Application No. 19921, Certificate No. 5619) and has a June 16, 1961 priority date. The water was used for domestic purposes at Cottonwood Cove campground.

The second well was completed sometime during 1959 or 1960 to a depth of 110 to 120 feet (there is a conflict between the Nevada State Application and a map compiled by the Office of Land and Water Rights). This well was also filed with the State, at the same time as the first well, with the same priority date. Water was used to supply the NPS residential area and a concessionaire.

A third well was drilled to a depth of 150 feet in late 1967. Its location was near the second well mentioned above. The last (4th) well was completed on May 23, 1969, in the same location as the prior two wells, to a depth of 200 feet. Neither of the last two wells were filed with the State, probably due to reliance on the Reservation Doctrine enunciated in *Arizona v. California*.

Present development consists of: 175 space trailer village, 150 campsites, 30 room motel and concessionaire restaurant. Total 1974 water usage was reported to be 142,000,000 gallons (Bill Shepard, Maintenance Supervisor).

See also LM WR #17.

Compiled by Kevin Kidder

Approved by W. Werrell

Page 1 of 1



STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

HUGH A. SHAMBERGER
Director

ELMO J. DeRICCO
State Engineer

DIVISION OF WATER RESOURCES

STATE OFFICE BUILDING
Carson City, Nevada

In reply refer to No. 19921, 19922 and 19936

December 10, 1963

U.S. Department of the Interior
National Park Service
Lake Mead National Area
P. O. Box 127
Boulder City, Nevada 89005

Gentlemen:

Enclosed are certificates No.s.

5619, 5620, and 5621

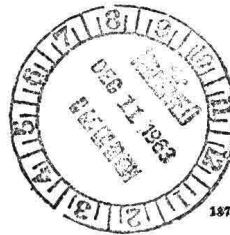
issued under the provisions of NRS 533.425, which
certificates have been recorded in the records
of Clark County, Nevada, as required
by law, and the proper notations entered on the
reverse side of the certificate.s.

Official receipt No. 61442, issued in
the sum of \$ 3.00 covering the statutory fees
received for recording the certificate.s is enclosed
herewith.

Very truly yours,

ELMO J. DeRICCO,
State Engineer.

enc: 4
ns



Address all communications to the State Engineer, Division of Water Resources.

1975

(1) CB

Division of Water
State Office, Reno
Bureau of Water

390928
 2-1

BOOK 485

Application No. 19921.....

Certificate Record No. 5619 Book 17 Page 5619

THE STATE OF NEVADA
 CERTIFICATE OF APPROPRIATION OF WATER

WHEREAS, Gilbert A. Kane - Civil Engineer has presented to the State Engineer of the State of Nevada Proof of Application of Water to Beneficial Use, from an underground source (Cottonwood Cove Well # 3) through drilled well, pump and distribution system for public campground and domestic purposes. The point of diversion of water from the source is as follows: SE 1/4 NE 1/4 Sec. 23, T. 28 S., R. 65 E., M.D.B. & M., or at a point from which the S.W. corner of Sec. 31, T. 28 S., R. 65 E., M.D.B. & M. bears S. 62°34'35" W., 29,577.50 f situated in Clark County, State of Nevada.

Now Know Ye, That the State Engineer, under the provisions of NRS 533.425, has determined the date, source, purpose, amount of appropriation, and the place where such water is appurtenant, as follows:

411 North Park Ave
 Name of appropriator Lake Mead National Recreation Area, Department
United States of America, National Park Service,
of the Interior,
 Post-office address Boulder City, Nevada

Amount of appropriation 0.165 c.f.s. but not to exceed 38.924 m.g. annually
 Period of use, from January 1st to December 31st of each year

Date of priority of appropriation June 16, 1961

Description of works of diversion, manner and place of use:
Water is developed by means of a drilled well and is conveyed through
a distribution system to a campground consisting of 45 paved sites
and two comfort stations where it is used for domestic purposes. The
campground consists of 6 acres in the SE 1/4 NE 1/4, Section 23 and 3
acres in the SW 1/4 NW 1/4, Section 24, T. 28 S., R. 65 E., M.D.B. & M.,

The right to water hereby determined is limited to the amount which can be beneficially used, not to exceed the amount above specified, and the use is restricted to the place and for the purpose as set forth herein.

IN TESTIMONY WHEREOF, I, EIMO J. DeRICCO, State Engineer

Compared ns/ns of Nevada, have hereunto set my hand and the seal of my office, this

Recorded 10/14/63 Bk. 485 Page 390928 10th day of October, A. D. 1963.

Clark County Records.

[Signature]
 Assistant State Engineer.

SEAL
 AFFIXED

BOOK 485

390928
2-2

STATE OF NEVADA

CERTIFICATE OF
APPROPRIATION OF WATER

Application Number.....19921
Certificate Number.....5619
Book.....17.....Page.....5619

Received and filed at the request of

Nevada State Engineer

this *16th* day of *October*

19*63*, in Book *485*

Page *390928*

Paul E. Hord
County Recorder

NO. 390928
RECORDED AT THE REQUEST OF
Nevada State Engineer
OCT 16 12 41 PM 63
OFFICIAL RECORDS BOOK NO. 485
CLARK COUNTY, NEVADA
PAUL E. HORD, RECORDER
FEE \$ *1.00* & DEPUTY



STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

ELMO J. DeRICCO
State Engineer

DIVISION OF WATER RESOURCES

September 18, 1963

In reply refer to No. 19921, 19922 & 19936

United States Department of the Interior
National Park Service
Lake Mead National Recreation Area
Boulder City, Nevada

Attention Gilbert A. Kane - Civil Engineer

Gentlemen:

You are hereby advised that Certificate.s. of Appropriation under your permits.. Serial No.....
.....19921, 19922 & 19936.....
for the waters of.....19921 - Cottonwood Cove Well #3 - Underground.....
.....19922 - Underground (Cottonwood Cove Well #2).....
.....19936 - Underground (Echo Bay Well).....
now ready to be issued by this office.

You are further advised, that in accordance with NRS 533.425 and 533.435, it will be necessary that you
forward to this office, within 30 days from the date hereof, the sum of...Three Dollars...(\$3.00).....
(...\$1.00)or each certificate) dollars for issuing and recording of certificates... under the permits...

Very truly yours,

ELMO J. DeRICCO,

State Engineer.

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Note Please keep the state engineer informed of any change of address.

W O D C

Address all communications to the State Engineer, Division of Water Resources.

2711

(1) CB

SUPERINTENDENT	
ASST. Supt.	
CHIEF BARRON	
STATE OFFICE BUILDING	
GEN. COUNSEL	
ENGINEER	
ARCHITECT	
PROC. & PROP.	
ACCOUNTANT	
FILE	
PREF. & REPLY	
INVESTIGATIONS	
NECESSARY ACTION	
SEE	

STATE OF NEVADA
ENGINEER'S OFFICE
Carson City, Nevada

ORIGINAL

water rights
RECEIPT

Nº 60696

June 3, 19 63

U.S.A. National Park Service, Lake Mead Area
c/o Charles A. Richey, Superintendent
P.O. Box 127, Boulder City, Nevada

To THE STATE OF NEVADA, Dr.

		To Filing Proofs of Completions of Work under	
		Permit Nos. 19921, 19922, and 19936	\$ 3. 00

Remittance by U. S. Postal Money Order, Warrant No. 873,162,224

Drawn by National Park Service

Received payment,

Elmo J. De Rocco

State Engineer.

By

Nancy Sweetland

(I) CB

1052

3M-6-62



PROOF OF COMPLETION OF WORK

Permit No. Application No. 19921

STATE OF NEVADA

County of Clark

ss.

See
memo
6/5/63

BEFORE ME, Personally appeared Gilbert A. Kane, for Charles A. Richey,
Superintendent, Lake Mead National Recreation Area for the United States of America
 the subscribed, who being duly sworn saith that at least twenty thousand,

three hundred and seventy five dollars (\$20,375.00) has been expended

in work or improvements performed or made under the conditions
 provided in Permit No. Application 19920, in the completion of said works,
 and at the expense of the applicant. *Typo. error*

Said improvements consisted of <u>Drilling of well and installation of 90' of 8" casing</u>	1575.00
<u>Installation of pump and housing</u>	4295.63
<u>Installation of 25,000 gal. storage tank</u>	2259.50
<u>Installation of 1302 L.F. 4" CMI cement lined 150 pipe</u>	4340.68
<u>6000 ft. of irrigation ditches</u>	3000.00
<u>Irrigation boxes and drop structures</u>	2500.00
<u>Installation of 514 L.F. 2" PVC & connections</u>	1607.02
<u>Installation of 200 L.F. 1" P.V.C. & connections</u>	400.00
<u>Installation of 200 L.F. 3/4" PVC & connections</u>	400.00
	<u>20,385.83</u>

and being work essential to the actual diversion of the water applied

for and in the completion of the work required under said permit.
United States of America, National Park Service, Lake Mead National Recreation Area,
Department of the Interior By: Gilbert A. Kane Applicant

Subscribed and sworn to before me this _____ day of _____, 19____

Notary Public in and for the County of _____, State of Nevada.

My Commission expires _____

STATE OF NEVADA
ENGINEER'S OFFICE
Carson City, Nevada

ORIGINAL

Blair

RECEIPT

Nº 58152

May 28, 1962

U. S. A. National Park Service, Lake Mead Area
c/o Charles A. Richey, Superintendent
601 Nevada Highway, Boulder City, Nev.

To THE STATE OF NEVADA, Dr.

		TO Filing 3 Proofs of Commencement of Work under		
		Permits Nos. 19921, 19922 & 19936	\$3.	00

Remittance by U. S. Postal Money Order, Warrant No. 12-64,683,858

Drawn by Charles A. Richey, Superintendent

Received payment,

Charles A. Richey
State Engineer.

By *Laura Burns*

2M-8-61
1052



STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

HUGH A. SHAMBERGER
Director

EDMUND A. MUTH
State Engineer

DIVISION OF WATER RESOURCES

STATE OFFICE BUILDING
Carson City, Nevada

In reply refer to No. 19921

March 2, 1962

Docket 16
U. S. A. National Park Service
Lake Mead Recreation Area
Boulder City, Nevada

Gentlemen:

Enclosed herewith you will find Permit No. 19921
for the waters of an underground source (Cottonwood Cove Well No. 3)
together with official receipt No. 57449 for the sum of \$10.00
fee for issuing the same.

You are advised that if the various proofs thereunder, together
with any map which may be required, are not filed in this office prior
to the dates set for such filings, the permit will be subject to
cancellation.

Yours truly,

EDMUND A. MUTH,
State Engineer.

hs

	SUPERINTENDENT	
1	ASST. SUPT.	3/5
	ADM. OFFICER	
	CHIEF ENGINEER	
	NATURALIST	
2	GEN. FOREMAN	
	ENGINEER	3/5
	ARCHITECT	
	PROC. + PROP.	
	ACCOUNTING	
	FILE	3/5
	PREPARE REPLY	
	COMMENTS	
	NECESSARY ACTION	
	SEE:	



TO BE COMPLETED BY STATE ENGINEER

19921

D16

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions: This permit is issued subject to all existing rights on the source and is limited to what the well will produce but not to exceed 0.165 c.f.s. It is understood that the amount of water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level at permittee's well due to other ground water development in the area. A substantial weir or other type of measuring device must be installed and measurements of water use kept, and a method provided, either air line or opening, for measuring depth to water. The State retains the right to regulate the use of the water herein granted at any and all times.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 0.165 cubic feet per second.

Actual construction work shall begin on or before August 27, 1962

Proof of commencement of work shall be filed before September 27, 1962

Work must be prosecuted with reasonable diligence and be completed on or before August 27, 1963

Proof of completion of work shall be filed before September 27, 1963

Application of water to beneficial use shall be made on or before August 27, 1964

Proof of the application of water to beneficial use shall be filed on or before September 27, 1964

Map in support of proof of beneficial use shall be filed on or before

WITNESS MY HAND AND SEAL this 27th day

of February 1962

EDMUND A. MUTH
State Engineer

By Edmund A. Muth
Assistant State Engineer

2888

WASU

STATE OF NEVADA
ENGINEER'S OFFICE
Carson City, Nevada

ORIGINAL

RECEIPT

Nº 57449

Feb. 14, 19 62

Recreation
U. S. A. National Park Service, Lake Mead Area

Boulder City, Nevada

To THE STATE OF NEVADA, Dr.

		TO Fee advanced for issuing permit under		
		Application No. 19921	\$10.	00

Remittance by Treasurer of the United States, Warrant No. 13,071,943
Salt Lake City, Utah

Received payment,

Edmund A. Muntz

State Engineer.

By *Larina Burns*



STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

HUGH A. GRAMMERTON
Director

EDMUND A. MUTH
State Engineer

In reply refer to No. 19921

DIVISION OF WATER RESOURCES

STATE OFFICE BUILDING

P. O. Box 606

Carson City, Nevada

September 27, 1961

L 54

U. S. A. National Park Service
Lake Mead National Recreation Area
Department of the Interior
Boulder City, Nevada

Gentlemen:

Your application was

✓	SUPERINTENDENT	
✓	ASST. SUPT.	9/27/61
	ADM. OFFICER	
	CHIEF ENGINEER	
	NATURALIST	
	GEN. FOREMAN	
3	ENGINEER	but 9/27
	ARCHITECT	
	PROC. + PROP.	
	ACCOUNTING	
	FILE	Paul 10/2/61
	PREPARE REPLY	
	COMMENTS	
	NECESSARY ACTION	
	SEE:	

received and filed in this office under the above-mentioned
serial number on June 16, 1961.

Notice of publication goes forward today to the Las Vegas Review-Journal, Las Vegas, Nevada.

Supporting map was received and filed August 16, 1961.



Very truly yours,

EDMUND A. MUTH,

State Engineer.

hs



Serial No. 19921

APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office Jun 16 1961

Returned to applicant for correction

Corrected application filed

Map filed

The applicant United States of America, National Park Service, Lake Mead
National Recreation Area, Department of the Interior
of Boulder City, Nevada, County of Clark
State of Nevada, hereby make application for permission to appropriate the public
waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorpora-
tion; if a copartnership or association, give names of members.)

1. The source of the proposed appropriation is underground (Cottonwood Cove Well No. 3)
Name of stream, lake or other source.

2. The amount of water applied for is 120 Acre-Feet per year or 0.165 second-feet.
One second-foot equals 448.83 gals. per min.

(a) If stored in reservoir give number of acre-feet 25,000 gallon steel reservoir acre-feet.

3. The water to be used for public camp ground and domestic
Irrigation, power, mining, manufacturing, domestic, or other use.

4. If use is for:

(a) Irrigation (state number of acres to be irrigated)

(b) Stockwater (state number and kinds of animals to be watered)

(c) Other use (describe fully under "No. 11. Remarks")

(d) Power:

(1) Horsepower developed

(2) Point of return of water to stream

5. The water is to be diverted from its source at the following point: at a point from which the S. W.
corner of Section 31, T. 28 S., R. 65 E., M.D.B. & M, bears S. 62° 34' 35" W.,
 Describe as being within a 40-acre subdivision of public survey, and by course and distance to a section corner. If on unsurveyed land, it
29,577.50 feet.
 should be stated.

6. Place of use SE¹/₄ NW¹/₄, Sec. 23, T. 28 S., R. 65 E.; SW¹/₄ NW¹/₄ Sec. 24, T. 28 S.,
 Describe by legal subdivision, if on unsurveyed land it should be so stated.
R. 65 E; NE¹/₄ SE¹/₄ Sec. 23 T. 28 S, R 65 E.

7. Use will begin about January 1 and end about December 31, of each year.
 Month Month

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans
 and specifications of your diversion or storage works.) Drilled well, pump, storage tank and
distribution pipelines
 State manner in which water is to be diverted, whether by dam or other works, whether through pipes, ditches, flumes, or other conduits.

9. Estimated cost of works \$ 25,000.00

10. Estimated time required to construct works Completed

11. Remarks The water will be used for a 45 site (each site consisting of a pull-
out parking area and tent platform with table and fire place) campground
which contains 2 modern comfort stations. The water will be used for domestic
purposes at each site and will be used for irrigating trees and shrubbery.

UNITED STATES OF AMERICA, Applicant.

FOR THE UNITED STATES OF AMERICA
 By /Sgd/ Charles A. Richey
 CHARLES A. RICHEY, SUPERINTENDENT
 LAKE MEAD NATIONAL RECREATION AREA
 NATIONAL PARK SERVICE

Compared _____

\$25.00 FILING FEE MUST ACCOMPANY APPLICATION

Nothing herein constitutes a waiver of any other right which the United States
 may have to the use of the same water.

ATTACHMENT

DETAILS OF CONSTRUCTED WORKS

Well: 8" casing 90 feet deep

Pump: Deep well turbine - $7\frac{1}{2}$ H.P. Electric 220 ϕ , 3 ϕ ,
75 G.P.M. @ 220' T.D.H.

Pipe Lines: 4" C.I. Main line - 2" + 1" P.V.C. distribution

Irrigation Ditches - Unlined - Average slope .01 setion - 12" bottom
width - 8" depth sides 1:1 slope

TO BE COMPLETED BY STATE ENGINEER

.....OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

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The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed.....cubic feet per second.....

Actual construction work shall begin on or before.....

Proof of commencement of work shall be filed before.....

Work must be prosecuted with reasonable diligence and be completed on or before.....

Proof of completion of work shall be filed before.....

Application of water to beneficial use shall be made on or before.....

Proof of the application of water to beneficial use shall be filed on or before.....

Map in support of proof of beneficial use shall be filed on or before.....

WITNESS MY HAND AND SEAL this.....day

of.....,



2888

.....
State Engineer

PROOF OF COMMENCEMENT OF WORK

Application No. 19921
Permit No.

STATE OF NEVADA

County of Clark

} ss.

BEFORE ME, Personally appeared Gilbert A. Kane, for Charles A. Richey,
Superintendent, Lake Mead National Recreation Area for the United States of America
the subscribed, who being duly sworn saith that at least twenty thousand,

three hundred and seventy five dollars (\$20,375.00) has been expended

in work or improvements performed or made under the conditions

Application No.
provided in Permit No. 19920, and at the expense of the applicant.

Said improvements consisted of <u>Drilling of well and installation of 90' of</u>	
<u>8" casing</u>	<u>1575.00</u>
<u>Installation of pump and housing</u>	<u>4295.63</u>
<u>Installation of 25,000 gal. storage tank</u>	<u>2259.50</u>
<u>Installation of 1302 L.F. 4" C.I.M.J. cement lined 150 pipe</u>	<u>1597.02</u>
<u>Installation of 514 L.F. 1" prc and connections</u>	<u>800.00</u>
<u>6000 ft. of irrigation ditches</u>	<u>3000.00</u>
<u>Irrigation boxes and drop structures</u>	<u>2500.00</u>
	<u>20,375.83</u>

and being work essential to the actual diversion of the water applied
for.

Said improvements were begun prior to April 14, 1961
United States of America, National Park Service, Lake Mead National Recreation
Area, Dept. of the Interior By /s/ Gilbert A. Kane Applicant

Subscribed and sworn to before me this _____ day of _____, 19____

Notary Public in and for the County of _____, State of Nevada.

My Commission expires _____

Under Permit No. 19921

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

DEPOSITION OF PERMITTEE

Note—Questions 1 to 12, inclusive, must be answered regardless of the purpose for which your permit for water has been granted. If this proof is made for irrigation purposes, a cultural map showing actual boundaries of land irrigated, together with classes of culture, etc., must accompany same, unless such map has already been filed. (See Sec. 69, Chapter 140, Statutes 1913.)

Question 1. What is your name, occupation, and post-office address?

Answer: Gilbert A. Kane / Civil Engineer / Boulder City, Nevada

Question 2. Are you acting in behalf of a corporation? If so, state its name, place of business, and your authority for acting in its behalf.

Answer: No

Question 3. What is the number of the permit under which this proof is made? Answer

Question 4. From what source do you obtain your water supply?

Answer: 90' well

Question 5. What is the name of the canal, conduit, or other works by which water is conducted to its place of use?

Answer: 4" C.I.M.J. Pipe / 2" - 1" - 3/4" PVC Pipe

Question 6. Are you the person to whom the permit was issued? If not, state how you obtained it, giving the succession of title.

Answer: Gilbert A. Kane, for Charles A. Richey, Superintendent, Lake Mead National Recreation Area for the United States of America

(If assignments of title are not on file in the office of the State Engineer, the certificate will issue to the original applicant.)

Question 7. For what purpose are you using the water for which you are now making proof?

Answer: Quasi - Municipal

Question 8. How many cubic feet per second of water, or fraction thereof, have you actually diverted and beneficially used for the purpose for which this proof is made?

(Actual measurement of water shall be given. 40 miners' inches equals 1 cubic foot per second. 1 miners' inch equals 11.21 gallons per minute. 448.83 gallons per minute equals 1 cubic foot per second.)

Answer: 0.092 c.f.s. from January 1 to July 1, 1963.

Question 9. State the period during the year when water has been beneficially used.

Answer: From January to date

Question 10. Do you divert and use more water at periods than granted in the permit for which proof is made? If so, make proper explanation.

Answer: No.

Question 11. Give date when water measurements were taken, the point at which such measurements were taken and the name and address of persons who made the measurements.

Answer: Electric Meter Reading taken once a month for power used by pump.
Quantity computed from this figure.

Question 12. State, if you know, the normal number of cubic feet per second flowing in the source at your point of diversion.

Answer:

IF WATER IS USED FOR IRRIGATION ANSWER THE FOLLOWING:

Question 13. Upon how many acres have you beneficially used water?

Answer:

Question 14. Give the number of acres in each legal subdivision.

Answer: acres in the of Sec....., T....., R.....E.
 acres in the of Sec....., T....., R.....E.
 acres in the of Sec....., T....., R.....E.
 acres in the of Sec....., T....., R.....E.
 acres in the of Sec....., T....., R.....E.
 acres in the of Sec....., T....., R.....E.
 (Enumerate only the land upon which water has been actually used.)

Question 15. Have you installed a headgate and weir at your point of diversion, as required by the terms of your permit? Give approximate dimensions of headgate.

Answer:

Question 16. Do you use the rotation system for irrigating?

Answer:

Question 17. What is the character of the soil irrigated?

Answer:

**IF WATER IS USED FOR STOCK-WATERING OR DOMESTIC PURPOSES
ANSWER THE FOLLOWING:**

Question 18. Give detailed description of works of diversion and manner by which water is stored for beneficial use, embracing approximate dimensions of dam at source, size and length of pipe, and size and number of tanks or troughs. If troughs are not used state exactly how water is stored for beneficial use.

Answer:

.....

.....

.....

Question 19. Give approximate number and kind of animals watered.

Answer:

**IF WATER IS USED FOR POWER OR MINING AND MILLING PURPOSES
ANSWER THE FOLLOWING:**

Question 20. What are the dimensions of the diversion headgate and carrying capacity of the conduit in cubic feet per second? Is water diverted by ditch, pipe or flume?

Answer:

.....

Question 21. What are the dimensions of the cross-section of the pipe, flume, ditch or other conduit at each change in cross-section, and the length of each portion of the same size?

Answer: Wa.....

Question 22. What is the average grade or difference in elevation between the termini of the conduit? Give the grades of the different sections of conduit as shown above.

Answer:

Question 23. Give any information concerning diversion and use of water for power or mining not covered above?

Answer:

IF WATER IS USED FOR ANY PURPOSE NOT HERETOFORE NAMED
DESCRIBE FULLY UNDER REMARKS:

Remarks:

Water is used for quasi-municipal purposes with minor irrigation of shrubs. The water is used in a campground composed of 45 paved sites. Water is supplied to these sites for domestic purposes. Two comfort stations are supplied with water. The remainder of the water used is for irrigation purposes. The campground consists of approximately 6 acres in the SE portion of the SE 1/4, NE 1/4, Sec. 23, T. 28 S., R. 65 E. and approximately three acres in the SW portion of the SW 1/4, NW 1/4, Sec. 24, T. 28 S., R. 65 E. Consumption is expected to increase as the campground is developed. Maximum usage will not exceed water granted.

(Give all information relative to the method of use of water and any other matters you deem important.)

The map made in substantiation of the claims herein, prepared under my instructions and authority, shows the actual conditions on the premises.

Signed:

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, and I believe him to be the person he represents himself to be, and that said testimony was subscribed

and sworn to before me at my office in....., County of.....,

State of....., on this..... day of....., A. D. 195.....

[One dollar filing fee must accompany this proof]

April 1959

LAKE MEAD - COTTONWOOD COVE - IRRIGATION STUDY					
Location	Gross Area	Net Irrigation Area	% of Gross Area to be Irrigated	@ 5 AF/A/AN	@ 8 AF/A/AN
A. Public Camp- ground	3.87 acres	2.85 acres	74%	14.25	22.80
B. Public dock, beach & shore area	2.82 acres	2.04 acres	72%	10.20	16.32
C. Concessioner boat trailer storage area	1.26 acres	0.62 acres	49%	3.10	4.96
D. Employee quarters, boat trailer parking, cafe, repair shop, marine store & office	6.67 acres	4.34 acres	65%	21.70	34.72
E. Concessioner trailer court	8.23 acres	4.11 acres	50%	20.55	32.88
F. Overnight facilities, cafe & store	5.02 acres	3.03 acres	60%	15.15	24.24
G. Deluxe guest units, beach	4.80 acres	3.15 acres	66%	15.75	25.20
TOTAL	32.67 acres	20.14 acres	62%	100.70AF	161.12AF

Derived from Drawing No. 6989

April 1959

Irrigation Study

LAKE MEAD - COTTONWOOD COVE PROPOSED RESIDENTIAL AREA-					
Location	Gross Area	Net Irrigation Area	% of Gross Area to be Irrigated	@ 5 AF/A/AN	@ 8 AF/A/AN
A.Residences	1.51 acres	0.50 acres	33%	2.50	4.00
B.Information Station	0.25 acres	0.03 acres	12%	0.15	0.24
TOTAL	1.76 acres	0.53 acres	30%	2.65AF	4.24AF

Derived from Drawing No. 6987

FORM 9-1367 (9-1960)
U. S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY

ANALYTICAL STATEMENT - GW

COUNTY Clark (Nev) 75-83

Well No. 1 Campground NPS LAS NO. 54730

Location 13 miles East of Searchlight, Nev. Date of collection Recd. July 20, 1964

NB 1/4 sec. 23 T28S R65E MDM Ignition Loss _____ Color 2

Source (type of well) Lake infiltration Dissolved Solids: _____

Owner NPS - Box 127 Calculated (Bm) 930

Boulder City, Nev. Tons per Acre Foot 1.26

Date driled 10/1/57 Cased to _____ ft Hardness as CaCO₃ 380

Depth 90' Non-carbonate Hardness 220

Sand & gravel T. Na 47 SAR 3.6 pH 7.5

Water level varies ft Specific Conductance _____

Sampled after pumping YRS hrs (microhmohm at 25°C) 1,400

Yield 75 GPM (max XXX) Pump _____

Ft of coll. Cottonwood Cove campground.

Appearance Clear

Temp (°F) 77 Use Dom., Ps, Irr. Producing intervals _____

Collector _____ depends on lake _____

Chemist KO level - 20-90'

Date completed Aug. 3, 1964

Checked by JON

Date transmitted _____

	apm	ppm
SiO ₂		26
Fe (total)		0.02
Ca	5.14	103
Mg	2.46	30
Na	6.96	160
K	0.15	6.0
Na + K	14.71	
HCO ₃	3.20	195
CO ₃	0.00	0
SO ₄	7.37	354
Cl	3.86	137
F	0.02	0.3
NO ₃	0.27	17
	14.72	B 0.25

Provisional records, subject to revision.

WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

DECKET No. 16

Log No.
 Rec. 19
 Well No.
 Permit No.
 Do not fill in

Owner U.S. National Park Service Driller S. H. McKinney & Son
 Address Boulder City, Nevada Address 1042 S. Main Las Vegas Lic. No. 44
 Location of well: SW 1/4 NW 1/4 Sec 24, T 28 N/S, R 65 E, in Clark County
 or Cottonwood Cove, Lake Mead National Recreation Area
 Water will be used for Domestic Total depth of well 90 ft.
 Size of drilled hole 12" to 50 feet, 8" to 90 Weight of casing per linear foot 22 lb.
 Thickness of casing 1 1/4" wall Temp. of water 77° F
 Diameter and length of casing 90 feet of 8 5/8" OD
 (Casing 12" in diameter and under give inside diameter; casing 12" in diameter give outside diameter.)
 If flowing well give flow in c.f.s. or g.p.m. and pressure.
 If nonflowing well give depth of standing water from surface 43 ft.
 If flowing well describe control works
 (Type and size of valve, etc.)
 Date of commencement of well October 1, 1957 Date of completion of well October 10, 1957
 Type of well rig 72 Speed Star Spudder

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
0	8	8	Boulders
8	15	7	gravel and sand
15	80	65	lightly cemented gravel
80	90	10	water at 43 feet to 80 ft. sandy clay

Water-bearing Formation, Casing
Perforations, Etc.Chief aquifer (water-bearing
formation)from 43 to 80 ft.

Other aquifers

First water at 43 feet.

Casing perforated

from 50 to 90 ft.

Size of perforations

10 rows 2" slots 125 Mesh

Diam. casing	From feet	To feet	Length	Remarks"—Seals, Grouting, Etc.
8 5/8"	00	0	90	8" casing cemented down to 30 feet with 3 yards concrete.

Pumped clean water after 30 minutes pumping.

[illegible]

D KET No 16

National Park Service
 (Sample) Cottonwood Cove
 10/10/57

P--(Phenolphthalein Alkalinity)-----	0	- P.P.M.
M--(MethylOrange Alkalinity - Carbonate hardness)--	132	"
pH--(Hydrogen Ion Concentration)-----	7.8	"
Cl--(Chlorides - Salinity)-----	114	"
Ca--(Calcium)-----	88	"
Mg--(Magnesium)-----	22	"
SO ₄ --(Sulphates)-----	222	"
NCH--(Non-carbonate hardness)-----	186	"
Total hardness as Calcium carbonate-----	318	"
Dissolved Solids(Total)-----	1200	"
Carbon Dioxide (Free)-----	4.5	"

Confy

Other Supporting Information



IN REPLY REFER TO:
D5039-DSC-TWE

United States Department of the Interior
NATIONAL PARK SERVICE
DENVER SERVICE CENTER
755 Parfet Street
P.O. Box 25287
Denver, Colorado 80225

September 5, 1980

OTAKE
SLOAT
PUBULIS

RECEIVED
Western Regional Office
SEP 8 '80

Regional Director	
Asst. Regional Dir.	
Operations Eval.	
Administration	
Operations	
Public Affairs	
Media Contact	

9/11/80
WITCKI

Memorandum

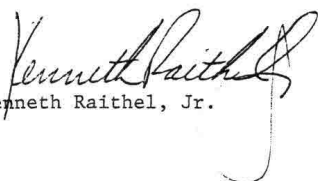
To: Regional Director, Western Region

From: Assistant Manager, Pacific Northwest/Western Team, DSC

Reference: Lake Mead, Package 328, Cottonwood Cove, Construction Drawings and Specifications, Water System

Subject: Transfer of Water Rights from Old Well to New Well at Cottonwood Cove

From telephone conversations with Larry Reynold of the State of Nevada, Department of Water Resources, it has been learned that it will be necessary to transfer water rights from the existing well producing water with excessive fluorides (Well No. 2) to the new well to be drilled this fall. Technically, this transfer does not have to occur until the new well is put into service, but the application for permission should be submitted several weeks in advance. By copy of this memorandum, we are sending the necessary forms and applicable regulations to the Superintendent, Lake Mead for his use in submitting the application.


Kenneth Raithel, Jr.

cc:
Supt., Lake Mead, w/enc

Do not know which
water right is the "old well," or well #2.
Could be ~~certificate~~ number 5619 or 5620

Year of
the
Visitor

**Lake Mead National Recreation Area
Boulder City, Nevada**

L54

19921) Docket 16

19922)

19935 - Docket 13

September 19, 1963

**Mr. Elmo J. DeRocco, State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada**

Dear Mr. DeRocco:

We have received the notification of readiness of the Certificates
of Appropriation for the subject permits. Enclosed is a Postal
Money Order in the amount of \$3.00 for the issuing and recording
of the Certificates.

Sincerely yours,

**Charles A. Richey
Superintendent**

Enc.

cc:

WASO

WODC

Southwest Region - all w/encs.

1-

W O D C
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OPTION TAKEN - DATE

File

Lake Mead National Recreation Area
Boulder City, Nevada

L54

August 26, 1963

19921)

19922) Docket 16

19936 Docket 13

Mr. Elmo J. DeRicco, State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Dear Mr. DeRicco:

The proofs of beneficial use under the subject applications are enclosed.

They have been amended as directed by Mr. Peter G. Morros' letter of August 15, 1963. We appreciate very much the help you have given us during our period of proving up the applications.

Sincerely,

Charles A. Richey
Superintendent

Encs. - 3

cc:
WASO w/4 enc.
WODC w/4 enc.
SW Region w/4 enc.

W O D C	
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ACTION TAKEN - DATE	

RE

28

JOHN A. CHAMBERLAIN
Director

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES
State Office Building, Boulder City, Nevada

ELMO J. DUBOCCO
State Engineer

GEORGE W. STENNEN
Assistant State Engineer

Re: 19921, 19922,
19936

August 15, 1963

United States Department of the Interior
National Park Service
Lake Mead National Recreation Area
Boulder City, Nevada

Attention Gilbert A. Kane - Civil Engineer

Gentlemen:

This letter is in connection with the proofs of beneficial use under the above-numbered permits.

The amount of water shown under Question 8, is the maximum amount that can be diverted, since this is the amount shown as being put to beneficial use. This would apply, regardless of the amount granted on the permit, provided it does not exceed the amount on the permit. The following are the amounts granted on the permits.

19921 - 0.165 c.f.s.
19922 - 0.333 c.f.s.
19936 - 0.248 c.f.s.

Under Question 9, the period of use under the permits is from January 1st to December 31st. If you wish to retain this period of use, this should be entered.

Enclosed are amended proof of beneficial use forms for your convenience. If you will complete these forms and return them to this office, they will be filed. There are no filing fees required.

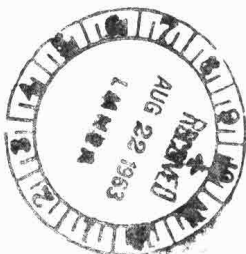
If we can be of further assistance, please contact us.

Very truly yours,

Peter G. Morros

Peter G. Morros, Hydraulic Engineer
Office Engineering Section

PGM:and
Enclosures



WODC

Address All Communications to
the State Engineer, Division
of Water Resources

STATE ENGINEER	
ASST. ENG.	
ADM. OFFICE	
CHIEF ENGINEER	
NATURAL RES.	
RECL. PROJECTS	
ENGINEERING	
ARCHITECTURE	
PLANT + EQUIP.	
ACCOUNTING	
FILE	
PREPARE REPORT	
COMMISSION	
STATION ENGINEER	

Lake Mead National Recreation Area
Boulder City, Nevada

L54

App. 19921 } Docket 16 July 23, 1963
19922 }
App. 19936 Docket 13

Mr. Elmo J. DeRicco, State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Dear Mr. DeRicco:

Enclosed for filing are the Proofs of Application of Water to
Beneficial Use for applications 19921, 19922, and 19936. A
postal money order for \$3.00 is enclosed to cover the filing
fees of the three proofs.

Sincerely yours,

Charles A. Richey
Superintendent

Encs. - 4

cc:
WASO w/3 encs.
WODC w/3 encs.
Southwest Region w/3 encs.

W O D C
JUL 23 1963
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RECEIVED
JUL 23 1963
DIVISION OF WATER RESOURCES
CARSON CITY, NEVADA

KN 26

W. R. R.
6/24/63

Lake Mead National Recreation Area
Boulder City, Nevada

L54

Docket 13
19936

June 24, 1963

Mr. Elmo J. DeRicco, State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Dear Mr. DeRicco:

With reference to your letter dated June 20, 1963 - First Notice to file Proof of Beneficial Use, we have just filed Proof of Completion of Work (due before August 22, 1963.) Our other permits indicate a one year lag between filing of Proof of Completion and filing of Proof of Beneficial Use. Would you please advise us as to whether or not the filing date for Proof of Beneficial Use for 19936 is in error or the filing dates for 19921 and 19922 are in error.

Sincerely,

Ralph R. Ramsey
Acting Superintendent

cc: Blair

W O D C

JUN 10 1963

Southwest Region
Santa Fe, New Mexico

JUN 5 - 1963

Memorandum

To: Director

From: Assistant Regional Director

Subject: Proofs of Completion of Work, Applications 19921,
19922 and 19936, Dockets Number 13 and 16, Lake
Mead Recreation Area

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NOT TAKEN DATE

Enclosed are copies of the subject Proofs of Completions as
supplied by the Superintendent, Lake Mead, which we have filed
in our Water Rights Dockets for Lake Mead as follows:

19921 and 19922 in Docket #16
19936 in Docket #13

By copies of this memorandum we are sending these to WODC and
the Superintendent of Lake Mead for insertion in their dockets.

Leslie P. Arnberger

SIGNED

Enclosures

In duplicate

cc: WASO w/1 copy of enclosures
WODC w/1 copy of enclosures
Superintendent, Lake Mead, w/1 copy of enclosures

Lake Mead National Recreation Area
Boulder City, Nevada

L54

May 23, 1963

Mr. Elmo J. DeRicco, State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Dear Mr. DeRicco:

Enclosed for filing are the Proofs of Completion of Work for
Applications 19921, 19922, and 19936. A Postal Money Order
for \$3.00 is enclosed to cover the filing fees necessary for
the three applications.

Sincerely yours,

Charles A. Richey
Superintendent

Encs. - 4

cc:
WISC
WODC
SOUTHWEST REGION
all w/encs.

W O D C	
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Lake Mead National Recreation Area
Boulder City, Nevada

L 54

June 4, 1962

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DATE

Memorandum

To: The Director

From: Superintendent, Lake Mead

Subject: Docket 13 (Echo Bay) and Docket 16 (Cottonwood Cove) - Water Rights Permit Applications 19921, 19922, 19936.

Enclosed is a verifax copy of the State Engineer's approval of subject applications with specified dates for proving up on the indicated wells. These copies are the third pages of the applications filed by this office with the State Engineer. Your office holds a copy of each application which will be complete and up to date when this page is inserted.

By copy of this memorandum, copies of these sheets are being sent to Regional Director, Region Three and Chief, WOEC to bring their water right dockets up to date.

Charles A. Richey
Superintendent

In duplicate

Attachments

Copy to: Regional Director, Region Three w/attachment
✓Chief, WOEC w/attachment
E. W. Blair w/attachment

EXTRA FILE COPY

Lake Mead National Recreation Area
Boulder City, Nevada

L54

May 23, 1962

Mr. Edmund A. Muth, State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Dear Mr. Muth:

Enclosed for filing are the Proofs of Commencement of Work
for Applications 19921, 19922 and 19936. A Postal Money
Order for \$3.00 is enclosed to cover the filing fees necessary
for the three applications.

Sincerely yours,

Charles A. Richey
Superintendent

In duplicate

Enclosures - 4

Copy to: WASO (In duplicate) w/a
WODC (In duplicate) w/a
Region Three (In duplicate) w/a

W O D C
MAY 25 '62
CHF
ADM
PERS
P & P
ARCH
31 (1/5)
L.A.
SPEC
CONT
SFTV
11/11/62
2/1/62
ACTION TAKEN - DATE
File

HUGH A. SHAMBERGER
Director

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES
State Office Building, Carson City, Nevada

EDMUND A. MUTH
State Engineer

In reply refer to
No. 19921

November 9, 1961

Address All Communications to
the State Engineer, Division
of Water Resources

1	ASST. SUPT.	11/13
	ADM. OFFICER	
	CHIEF RANGER	
	NATURALIST	
2	GEN. FOREMAN	
	ENGINEER	11/12
	ARCHITECT	
	PROC. + PROP.	
2	ACCOUNTING	11/14
	FILE	
	PREPARE REPLY	
	COMMENTS	
	NECESSARY ACTION	
	SEE	

Las Vegas Review-Journal
737 N. Main Street
Las Vegas, Nevada

Gentlemen:

The affidavit of publication under Application 19921 in the name of U.S.A., National Park Service, Lake Mead Area, Boulder City, County of Clark, State of Nevada, was received in this office November 8, 1961.

There are several discrepancies on the publication notice. Several lines appear out of place; therefore, the continuity and significance of the publication notice is not accomplished.

Enclosed for your consideration is a verifax copy of the original publication notice which was mailed to you September 27, 1961. Please re-publish this publication notice in accordance with the information on the verifax copy for five (5) consecutive weeks.

Please advise this office with a copy of the first publication in order that we may check it further.

Your courtesy and cooperation will be appreciated.

Very truly yours,

EDMUND A. MUTH
State Engineer

By

L. Edward Parmenter
Hydraulic Engineer

LEP:kb
Enclosure

cc: Applicant
Mr. Francis Thorne



Region Three
Santa Fe, New Mexico

NOV 1-1961

L54

Memorandum

To: Director
From: Acting Regional Director
Subject: Application for the Appropriation of Water from Echo Bay Well, Docket No. 13, Cottonwood Cove Well and Cottonwood Cove (Public Campground) Well, Docket No. 16, Nevada Section, Lake Mead

W O D C	
NOV -3 '61	
CHIEF	
ADM	
PER	
P R P	
ANON	
ENGR	
L.A.	
REC	
COMM	
SFTY	
ACTION TAKEN - DATE	

Acty 3
Mar 11/1/3
2/1/61
None
16
17

We have received by memorandum Applications for Permit to appropriate the Public Waters of the State of Nevada for Echo Bay Well (Application No. 19936) and Cottonwood Cove Well No. 2 (Application No. 19922) and the Cottonwood Cove Well No. 3 (Public Campground), Application No. 19921. We have also received the location maps as drawn by State Water Rights Surveyor L. M. Robeau.

We have filed Application No. 19936 in Docket No. 13 and 19921 and 19922 in Docket No. 16, Lake Mead, with the accompanying location maps.

Our correspondence indicates that Superintendent, Lake Mead, forwarded copies of the applications and drawings to your office. From all indications they forwarded only copies of the applications to WODC.

By copies of this memorandum we are notifying you, the Superintendent, and WODC that these documents have become a part of our water rights dockets and at the same time requesting that if copies of the maps have not been forwarded to WODC that it be done.

(SIGNED)

George W. Miller
Acting Regional Director

In duplicate

Copy to: Chief, WODC (2)
Supt., Lake Mead

L-54 GME

Lake Mead National Recreation Area
Boulder City, Nevada

August 20, 1961

Edmund A. Muth
State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Docket 16

W O D C
AUG 25 '61
CLERK
ADM.
PERS.
P. P.
Asst. Dir.
Asst. Engr.
L. A.
SPEC.
CONT.
SFTY.
ACTION TAKEN - DATE

c8/28

8/24

Dear Mr. Muth:

In regards to your letter to Mr. L. M. Bobeau concerning Applications 19921 and 19936, this office originated the subject applications. This letter authorizes the change of paragraph 6 to read, "SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 23, and SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 24, T. 26 S., R. 65 E., M.D.B. & M," on Application No. 19921.

Application No. 19936 takes in an area of use in range 68 E. This office cannot agree with the changing of the range under paragraph 6 to read 67 E.

We are forwarding the original map for Application 19936 under separate cover.

Sincerely yours,

Charles A. Richey
Superintendent

Copy to: WASO (In duplicate)
WODC (In duplicate)
Region Three (In duplicate)
L.M. Bobeau

Lake Mead National Recreation Area
Boulder City, Nevada

August 20, 1961

L-54 GME

Edmund A. Muth
State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

Docket 16

W O D C	
AUG 25 '61	
	CLERK
	ADMIN
	PERSONNEL
	PLANNING
	ANALYSIS
	ENGINEERING
	L.A.
	SPECIAL
	CONSTRUCTION
	SAFETY
ACTION TAKEN - DATE	
<i>me</i>	

28/28

Dear Mr. Muth:

In regards to your letter to Mr. L. M. Bobeau concerning Applications 19921 and 19936, this office originated the subject applications. This letter authorizes the change of paragraph 6 to read, "SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 23, and SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 24, T. 26 S., R. 65 E., M.D.B. & M," on Application No. 19921.

Application No. 19936 takes in an area of use in range 68 E. This office cannot agree with the changing of the range under paragraph 6 to read 67 E.

We are forwarding the original map for Application 19936 under separate cover.

Sincerely yours,

Charles A. Richey
Superintendent

Copy to: WASO (In duplicate)
WODC (In duplicate)
Region Three (In duplicate)
L.M. Bobeau

Lake Mead National Recreation Area
Boulder City, Nevada

August 11, 1961

L-54 ~~ONE~~

Mr. Edmund A. Muth
State Engineer
Division of Water Resources
State Office Building
Carson City, Nevada

10

W O D C
AUG 16 1961

CHIEF	
ADM.	
PERS.	
P. P. P.	
ANAL.	
ENGR.	
L.A.	
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CONT.	
SFTY.	
ACTION TAKEN	DATE

None

Dear Mr. Muth:

Enclosed are the amended applications for permit to appropriate the waters of the State of Nevada for Cottonwood Cove Well No. 2 (19922), Cottonwood Cove Well No. 3 (19921), and Echo Bay Well (19936). The indicated changes have been made. Also enclosed are the original applications as requested in your letter of July 19, 1961.

Under paragraph 2 of application 19922, Cottonwood Cove Well No. 2, a revised amount of water applied for has been inserted.

Further, a paragraph has been inserted into the applications, "Nothing herein constitutes a waiver of any other right which the United States may have to the use of the same water."

The maps to support applications Nos. 19921, 19922, and 19936 have been corrected as indicated and are being returned to your office under separate cover.

Sincerely yours,

/s/ Charles A. Richey

Charles A. Richey
Superintendent

Enclosures

Copy to: WODC (In duplicate)
WASO (In duplicate)
Region Three (In duplicate)

HUGH A. SHAMBERGER
Director

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES
State Office Building, Carson City, Nevada

EDMUND A. MUTH
State Engineer

In reply refer to
No.

19921, 19922
& 19936

July 19, 1961

Address All Communications to
the State Engineer, Division
of Water Resources

Mr. L. M. Bobeau
206 Stewart Street
Las Vegas, Nevada

Dear Mr. Bobeau:

The above enumerated applications in the name of the United States of America, Park Service, Lake Mead National Recreation Area, Department of the Interior, are being returned to you for correction since they are defective in the following particulars:

Application No. 19921.

Under Paragraph 1: change the source of water to underground (Cottonwood Cove Well No. 3).

Under Paragraph 3: change the manner of use to public camp ground and domestic.

Omit Paragraph 4a and 4c.

Under Paragraph 5: describe the point of diversion as being in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 23, T. 28 S., R. 65 E., M.D.B.&M., or at a point from which the S.W. corner of Section 31, T. 28 S., R. 65 E., M.D.B.&M., bears S. 62° 34' 35" W., 29,577.50 feet.

Under Paragraph 7: give the period of use from January 1st to December 31st.

Under Paragraph 8: stipulate drilled well, pump, storage tank and distribution pipelines.

In answer to Paragraph 11: clarify the type and number of units to be served.

Please clarify if there are any other units other than the proposed 45' site public camp ground to be serviced by this water.

Application No. 19922.

Under Paragraph 1: change the source of water to underground (Cottonwood Cove Well No. 2).

Under Paragraph 3: change the manner of use from irrigation and domestic to quasi-municipal (resort) and domestic.

Omit Paragraph 4a.

Under Paragraph 5: describe the point of diversion as being within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 24, T. 28 S., R. 65 E., M.D.B.&M., or at

Page 2

L. M. Bobeau

a point from which the S.W. corner of Section 31, T. 28 S., R. 65 E., M.D.B.&M., bears S. 66° 20' 34" W., 29,268.23 feet.

Under Paragraph 7: give the period of use from January 1st to December 31st.

Under Paragraph 8: stipulate drilled well, pump, storage tank and distribution pipelines.

In answer to Paragraph 11: give the type and number of units to be served with this water. (do not use a supplemental sheet for this answer).

Application No. 19936.

Under Paragraph 1: change the source of water to underground (Echo Bay Well).

Under Paragraph 3: change the manner of use from irrigation and quasi-municipal to quasi-municipal (resort) and domestic.

Omit 4a and 4c.

Under Paragraph 5: describe the point of diversion as being located within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 5, T. 19 S., R. 68 E., M.D.B.&M., or at a point from which the N. W. corner of Section 1, T. 19 S., R. 68 E., M.D.B.&M., bears N. 68° 53' 42" W., 12,471.09 feet.

Under Paragraph 7: give the period of use from January 1st to December 31st.

Under Paragraph 8: stipulate drilled well, pump, storage tank and distribution pipelines.

Maps to support Applications Nos. 19921, 19922 and 19936 are being returned to you under separate cover via certified mail for correction.

In the affidavit and title block change the manner of use from recreation to quasi-municipal (resort).

On both maps outline the proposed place of use by legal 40 acre subdivisions in heavy _____ lines.

Please return the original and amended applications together with the respective supporting maps to this office on or before September 18, 1961 or it becomes mandatory for the State Engineer to cancel these applications.

You are advised that the applications, if returned properly corrected within sixty days, will be refiled, retaining the priority of their original filings, and if not returned within the time stated will be canceled.

Very truly yours,

EDMUND A. MUTH
State Engineer

By

L. Edward Parmenter
L. EDWARD PARMENTER
Hydraulic Engineer

LEP:lb

CC: Charles A. Richey, Supt.
Enclosures

Lake Mead National Recreation Area
Boulder City, Nevada

July 11, 1961

L-54
LAKE

State of Nevada
Department of Conservation and Natural Resources
Division of Water Resources
State Office Building
Carson City, Nevada

Gentlemen:

Please refer to our recent applications to appropriate water
for the following areas:

- 12 1) Echo Bay
16 2) Cottonwood Cove Campground
17 3) Cottonwood Cove Concession Area

We are enclosing a statement to be attached to each of the above
applications.

Sincerely yours,

Jerry B. House
Assistant Superintendent

Attachments (3)

Copy to: The Director w/copy attachment, Airmail
Regional Director, Region Three, Airmail
Chief WODC w/copy attachment

W O D C
JUL 14 1961

CIF	
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26-74
None

Attachment

"Nothing herein constitutes a waiver of any other right which
the United States may have to the use of the same water."

Region Three
Santa Fe, New Mexico

JUL 7 1961

~~LASH~~
LANE

Donker 13 16

Memorandum

To: Superintendent, Lake Mead National Recreation Area

From: Acting Regional Director

Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood Cove Well; and (3) Cottonwood Cove (Public Campground), Nevada Section, Lake Mead

You have received a copy of Mr. Dunn's memorandum of June 27 pertaining to your applications to appropriate water in the above named areas. All of Mr. Dunn's recommendations should be considered and comprehensive data shown on the applications should be consistent so that if items are called to our attention by the State Engineer or the State Colorado River Commission we will be prepared to amend our applications.

The most important suggestion that Mr. Dunn has made is the addition to all applications of the "waiver" statement which reads: "Nothing herein constitutes a waiver of any other right which the United States may have to the use of the same water." All other suggestions are of a technical nature and can be substituted if required on these applications.

We realize that Park Engineer Blair has many assorted duties and therefore has a minimum amount of time to contribute to these water right problems. It is anticipated that Civil Engineer Fields of this office will be in your area in September or October and at that time a great many of the water right problems can be resolved and additional filings made.

(SIGNED)

George W. Miller
Acting Regional Director

Copy to: Director (2)
Chief, WOBC (2)

JUL 11 1961	
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None	

RS

Region Three
Santa Fe, New Mexico

L-74
LANE

JUL 7 1961

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ACTION TAKEN - DATE	
None	

Memorandum

To: Director

From: Assistant Regional Director

Subject: Applications for Permits to Appropriate Public Waters of the State of Nevada, Cottonwood Cove Campground and Cottonwood Cove Concessioner Wells, Docket No. 16, Lake Mead National Recreation Area

Attached is a copy of a letter of transmittal from Superintendent Richey of Lake Mead to the State Engineer of Nevada and copies of application forms for permits to appropriate public waters of the State of Nevada at Cottonwood Cove Campground and Cottonwood Cove Concessioner Well, Lake Mead National Recreation Area.

We have placed these in Docket No. 16, Lake Mead and by copies of this memorandum are sending them to WODC for insertion in their docket. The transmittal letter indicates that Superintendent Richey sent copies directly to your office.

George W. Miller
Assistant Regional Director

In duplicate

(SIGNED)

Attachments

Copy to: Chief, WODC (2) w/attachments
Supt., Lake Mead without attachments

L54-OBL

June 27, 1961

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood Cove Well; and (3) Cottonwood Cove (Public Campground), Nevada Section, Lake Mead

Copies of the subject applications have been received with copies of the Superintendent's letters of transmittal to the State Engineer of June 2 and 7. It is gratifying to note that the applications for the appropriation of water at Lake Mead are now being prepared, but several points should be considered before more are filed.

All applications should include the following statement, and it should be added to the subject applications if they are returned by the State Engineer for any other corrections or supplemental information before being advertised:

Nothing herein constitutes a waiver of any other right which the United States may have to the use of the same water.

Most diversions, or wells, should be numbered or given other distinctive identity in each area of use. There may ultimately be more than one well to serve the Cottonwood Cove Campground, and more than one well to concessioner at Cottonwood Cove. It is also possible that Federal and concession developments may be served from some of the same wells. For this reason, the applications should be for the appropriation of water from Cottonwood Cove Well No. 1, and Cottonwood Cove Well No. 2, etc.

The present, or pending, applications may be for the appropriation of water from replacement wells. Such a well might be numbered Well No. 1, Replacement 1, or Well No. 3, but the two wells should be described, and the priority of use should be that of the first well to serve the facilities.

The applications do not agree as to installed diversion capacity, quantity of water claimed, or justifiable water demand, and will need

W O D
JUN 29 1961

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None

revision at the time of proof even if the amounts are not challenged when advertised. We did not receive copies of the supporting maps.

1. The Echo Bay pump has a capacity of 100 gpm, or 0.223 c.f.s., which would deliver 161.5 acre-feet per year if pumped continuously, but the claim is for 0.248 c.f.s. or 180 acre-feet per year. There are five acres to irrigate, and the demand will probably be about 10 acre-feet per acre per annum, or a total of 50 acre-feet per year. This leaves 130 acre-feet per year for the "quasi-municipal" uses, largely domestic type with the major item of sanitation, which is likely to be challenged as excessive. Normally, the pump may be operated at the suggested 111.0% of rated capacity; but for only between 8 and 12 hours per day at the seasonal peak, and continuous operation on one or two days. Either the annual acre-foot per year claim should be reduced, or the present well and pump should be designated as the first of several which will be needed ultimately. I have suggested 10-acre-feet per acre as the annual irrigation demand, which may be either a little high or low, and a local irrigation engineer should be consulted.

2. The concessioner's Cottonwood Cove well has a capacity of 150 gpm, or 0.334 c.f.s., which should be the designated rate of diversion, rather than the indicated 0.207 c.f.s. With 15 acres to be irrigated, and a probable demand of 10 acre-feet per acre per year if the vegetation is similar to that at Echo Bay, there would be no supplemental water for the domestic or quasi-municipal purposes. Also, why is the answer to question 3 in this application "irrigation and domestic" while that in the application for Echo Bay for "irrigation and quasi-municipal", while identical uses are indicated in answers to question 11?

3. The application for the Cottonwood Cove Campground claims the continuous diversion at the rated pump capacity, with a suggestion that half will be used for irrigation if 10 acre-feet per acre per annum are needed. Each of the 45 camp sites may have an average of 3 people using 35 gpc per day. If fully occupied throughout the year, the domestic demand should be about 5.35 acre-feet per year, instead of 60 acre-feet per year.

The claims should be reviewed by some one with more knowledge than I have of the detailed local demands, to be prepared in the event that a representative of the State Colorado River Commission raises questions after an analysis similar to mine. I also advise against proof for final license in any area at this time, unless all diverted water is being used. If it is used, there should be a supplemental application to establish the priority for future increases.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Lake Mead
Chief, WODC (2)

Lake Mead

*WV
@*

July 20, 1961

L54-CBL

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Maps to Support Applications for the Appropriation of Water
from (1) Echo Bay Well, Docket 13; (2) Cottonwood Cove Well;
and Cottonwood Cove (Public Campground) Well, Docket 16,
Nevada Section, Lake Mead

The two drawings, one in duplicate for two applications, which Mr. Richey forwarded with memorandum of July 7 to you, are excellent records of the surveys. I hope Mr. Bobeau can do more of the surveys.

I am pleased to see that some permanent NPS survey monuments in the area, were established, or tied into the survey for the Cottonwood Cove Wells where the sections are projected five miles by triangulation and traverse. It is also excellent to have such complete records of the surveys from which the ties were computed, and I did not realize that such detail was required by the State.

For future maps I believe that the title should be modified to designate "The United States" as the claimant, as Mr. Richey did in the related applications, by putting that on the first line, and "National Park Service, Department of the Interior" on the second line in smaller letters.

WCDC should have copies of the drawings for its docket assemblies. Such distribution is not shown on Mr. Richey's memorandum.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Lake Mead
Chief, WCDC (2)
Mr. Dunn

AvVDunn:lct

*James
H. Richey
State
Engineer*

Lake Mead National Recreation Area
Boulder City, Nevada

L 54

June 14, 1961

AIR MAIL

Department of Conservation and Natural Resources
State of Nevada
Division of Water Resources
P. O. Box 606
Carson City, Nevada

Attention: Mr. Edmund A. Muth
State Engineer

Gentlemen:

As requested in your letter of June 6, we are enclosing
Government checks in the amount of \$25.00 for filing fees to
appropriate water for the following areas:

- (a) Echo Bay Well
- (b) Cottonwood Cove Well Campground Area
- (c) Cottonwood Cove Well Concession Area

Application forms for "b" and "c" above, which were forwarded
by your letter, are hereby returned for processing. Appli-
cation form for "a" above was transmitted by our letter of
June 7, 1961.

Sincerely,

Charles A. Richey
Superintendent

Enclosures

KWB:sms

Region Three
Santa Fe, New Mexico

JUL 7 1961

~~1-58~~
LNUZ

Docket 13 16

Memorandum

To: Superintendent, Lake Mead National Recreation Area

From: Acting Regional Director

Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood Cove Well; and (3) Cottonwood Cove (Public Campground), Nevada Section, Lake Mead

You have received a copy of Mr. Dunn's memorandum of June 27 pertaining to your applications to appropriate water in the above named areas. All of Mr. Dunn's recommendations should be considered and comprehensive data shown on the applications should be consistent so that if items are called to our attention by the State Engineer or the State Colorado River Commission we will be prepared to amend our applications.

The most important suggestion that Mr. Dunn has made is the addition to all applications of the "waiver" statement which reads: "Nothing herein constitutes a waiver of any other right which the United States may have to the use of the same water." All other suggestions are of a technical nature and can be substituted if required on these applications.

We realize that Park Engineer Blair has many asserted duties and therefore has a minimum amount of time to contribute to these water right problems. It is anticipated that Civil Engineer Fields of this office will be in your area in September or October and at that time a great many of the water right problems can be resolved and additional filings made.

(SIGNED)

George W. Miller
Acting Regional Director

Copy to: Director (2)
✓ Chief, WODC (2)

ACTION TAKEN - DATE	
None	
SETV	1/24/61
SPEC	1/24/61
COIT	1/24/61
L.A.	1/24/61
ARCH	1/24/61
ENG	1/24/61
P & P	1/24/61
PERS	1/24/61
ADM	1/24/61
CHF	1/24/61
JUL 11 1961	

Region Three
Santa Fe, New Mexico

JUL 7 1961

L-54
LAME

Dunn 12/16

Memorandum

To: Superintendent, Lake Mead National Recreation Area

From: Acting Regional Director

Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood Cove Well; and (3) Cottonwood Cove (Public Campground), Nevada Section, Lake Mead

You have received a copy of Mr. Dunn's memorandum of June 27 pertaining to your applications to appropriate water in the above named areas. All of Mr. Dunn's recommendations should be considered and comprehensive data shown on the applications should be consistent so that if items are called to our attention by the State Engineer or the State Colorado River Commission we will be prepared to amend our applications.

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(SIGNED)

George W. Miller
Acting Regional Director

Copy to: Director (2)
Chief, WODC (2)

ACTION TAKEN - DATE	None	SFTY	CONC	SPEC	L.A.	ARCH	ENG	P & P	ADM	CHF	JUL 11 1961

URL Copy

Lake Mead National Recreation Area
Boulder City, Nevada

L54-OBL

July 7, 1961

Memorandum

To: Regional Director, Region Three

From: Superintendent, Lake Mead

Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood Cove Well; and (3) Cottonwood Cove (Public Campground), Nevada Section, Lake Mead

Please refer to Mr. A. van V. Dunn's memorandum of June 27, 1961, above subject. We are forwarding prints of the supporting maps to Mr. Dunn, as well as your office, by copy of this memorandum.

The statement contained on the first page of Mr. van Dunn's memorandum is being forwarded to the State Engineer for attachment to the applications. Designating each well by number appears to be a good idea and will be incorporated providing the applications are returned for corrections, etc.

We appreciate Mr. van Dunn's diligence in pointing out the differences we show between designated rate of diversion and existing pumping capacity. Obviously we have indicated our estimate of ultimate annual usage. We shall attempt to clarify this at the time proof of beneficial use is established.

We agree that proof for final licensing should be withheld until all water is being used, at which time we shall know more accurately our usage and can adjust our proofs accordingly. During the interim we have at least begun to establish a priority of right to appropriate.

Charles A. Richey
Superintendent

Enclosures (3)

Copy to: A. van V. Dunn w/copy 3 drawings ✓

4/15/61

Region Three
Santa Fe, New Mexico

L-54
LAME

JUL 7 1961

Memorandum

To: Director
From: Acting Regional Director
Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood
Cove Well; and (3) Cottonwood Cove (Public Campground),
Nevada Section, Lake Mead

Your memorandum of June 27 to this office concerning the above subject came just a few days after we filed the information on the above applications in our water dockets and notified you by memorandum.

These applications were submitted to the State Engineer of Nevada by the Superintendent, Lake Mead and were prepared under his supervision. He has a registered water rights engineer as a member of his staff who compiled the technical data. Any corrections or additions will be made by Superintendent, Lake Mead.

Under our M&P Account 1961 we had a project programed for Lake Mead. It was intended to send Civil Engineer Fields to Lake Mead. He was to have worked with Park Engineer Blair and to have brought all of the water right dockets up to date. However, because of other projects which were deemed more important by this office Mr. Fields has not had time to make this trip. We are rescheduling this project for 1962 and have placed it among the high priority items to be accomplished by this office during this fiscal year.

SIGNED]

George W. Miller
Acting Regional Director

In duplicate

Copy to: Chief, WODC (2)
Supt., Lake Mead

*note by A.D. on orig, routed to files thru Vint:
"licensed or not, the engineer did not present
proper Fed. Claim 7/11/61"*



L54-OEL

June 27, 1961

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Right Applications for (1) Echo Bay; (2) Cottonwood Cove Well; and (3) Cottonwood Cove (Public Campground), Nevada Section, Lake Mead

Copies of the subject applications have been received with copies of the Superintendent's letters of transmittal to the State Engineer of June 2 and 7. It is gratifying to note that the applications for the appropriation of water at Lake Mead are now being prepared, but several points should be considered before more are filed.

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Most diversions, or wells, should be numbered or given other distinctive identity in each area of use. There may ultimately be more than one well to serve the Cottonwood Cove Campground, and more than one well to concessioner at Cottonwood Cove. It is also possible that Federal and concession developments may be served from some of the same wells. For this reason, the applications should be for the appropriation of water from Cottonwood Cove Well No. 1, and Cottonwood Cove Well No. 2, etc.

The present, or pending, applications may be for the appropriation of water from replacement wells. Such a well might be numbered Well No. 1, Replacement 1, or Well No. 3, but the two wells should be described, and the priority of use should be that of the first well to serve the facilities.

The applications do not agree as to installed diversion capacity, quantity of water claimed, or justifiable water demand, and will need

revision at the time of proof even if the amounts are not challenged when advertised. We did not receive copies of the supporting maps.

1. The Echo Bay pump has a capacity of 100 gpm, or 0.223 c.f.s., which would deliver 161.5 acre-feet per year if pumped continuously, but the claim is for 0.248 c.f.s. or 180 acre-feet per year. There are five acres to irrigate, and the demand will probably be about 10 acre-feet per acre per annum, or a total of 50 acre-feet per year. This leaves 130 acre-feet per year for the "quasi-municipal" uses, largely domestic type with the major item of sanitation, which is likely to be challenged as excessive. Normally, the pump may be operated at the suggested 111.0% of rated capacity; but for only between 8 and 12 hours per day at the seasonal peak, and continuous operation on one or two days. Either the annual acre-foot per year claim should be reduced, or the present well and pump should be designated as the first of several which will be needed ultimately. I have suggested 10-acre-feet per acre as the annual irrigation demand, which may be either a little high or low, and a local irrigation engineer should be consulted.

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The claims should be reviewed by some one with more knowledge than I have of the detailed local demands, to be prepared in the event that a representative of the State Colorado River Commission raises questions after an analysis similar to mine. I also advise against proof for final license in any area at this time, unless all diverted water is being used. If it is used, there should be a supplemental application to establish the priority for future increases.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Lake Mead
Chief, WODC (2)

Mr. Dunn
AvVDunn:ict

4

Lake Mead National Recreation Area
Boulder City, Nevada

June 2, 1961

L S.

AIR MAIL

Mr. Edmund A. Muth, State Engineer
Department of Conservation and Natural Resources
Division of Water Resources
State of Nevada
P. O. Box 606
Carson City, Nevada

RECEIVED	
NPS REGION THREE OFFICE	
JUN 5-1961	
SURNAME	DATE
REG. DIR.	
ASST. R.D.	
ADMIN.	
OPERATIONS	NOV 6
RANGER ACT.	
INTERP.	
RECREATION	
SOLICITOR	
FILES	

Dear Mr. Muth:

We are enclosing application forms for permits to appropriate
Public Waters of the State of Nevada for the following locations:

- (a) Cottonwood Cove Campground Well
- (b) Cottonwood Cove Well located in Concessioner Area

DOKE
#1
LAN

Also enclosed with each application is an accompanying map prepared by State Water Right Surveyor L. M. Bobeau. Both wells are on United States Government owned land and are located very close to the edge of Lake Mead. Both water works have been substantially completed and are in use. No previous filing was made on these wells by this office because of the pending water suit - Arizona vs. California.

We assume our next step will be to file "Proof of Beneficial Use of the Water." In this connection, if a map or set of drawings are necessary to more fully describe the works we would like permission to submit a set of reproducible of our "As Constructed" contract drawings. These drawings are 22" x 35" over all width and have our standard title blocks. We could insert a certification as to correctness on the drawing and have it signed by Mr. E. W. Blair, State Water Rights Surveyor. We would appreciate your consideration on this since a re-drafting to meet your regulations would take our personnel away from end of the year accelerated programs.

Sincerely,

Charles A. Richey
Superintendent

Enclosures

Copy to: The Director -Attention Mr. A. Van V. Dunn w/attachment }
Regional Director, Region Three w/attachment } AIR MAIL

250 Lane

April 1959

LAKE MEAD - COTTONWOOD COVE - IRRIGATION STUDY					
Location	Gross Area	Net Irrigation Area	% of Gross Area to be Irrigated	@ 5 AF/A/AN	@ 8 AF/A/AN
A.Public Camp- ground	3.87 acres	2.85 acres	74%	14.25	22.80
B.Public dock, beach & shore area	2.82 acres	2.04 acres	72%	10.20	16.32
C.Concessioner boat trailer storage area	1.26 acres	0.62 acres	49%	3.10	4.96
D.Employee quarters, boat trailer parking, cafe, repair shop, marine store & office	6.67 acres	4.34 acres	65%	21.70	34.72
E.Concessioner trailer court	8.23 acres	4.11 acres	50%	20.55	32.88
F.Overnight facilities, cafe & store	5.02 acres	3.03 acres	60%	15.15	24.24
G.Deluxe guest units, beach	4.80 acres	3.15 acres	66%	15.75	25.20
TOTAL	32.67 acres	20.14 acres	62%	100.70AF	161.12AF

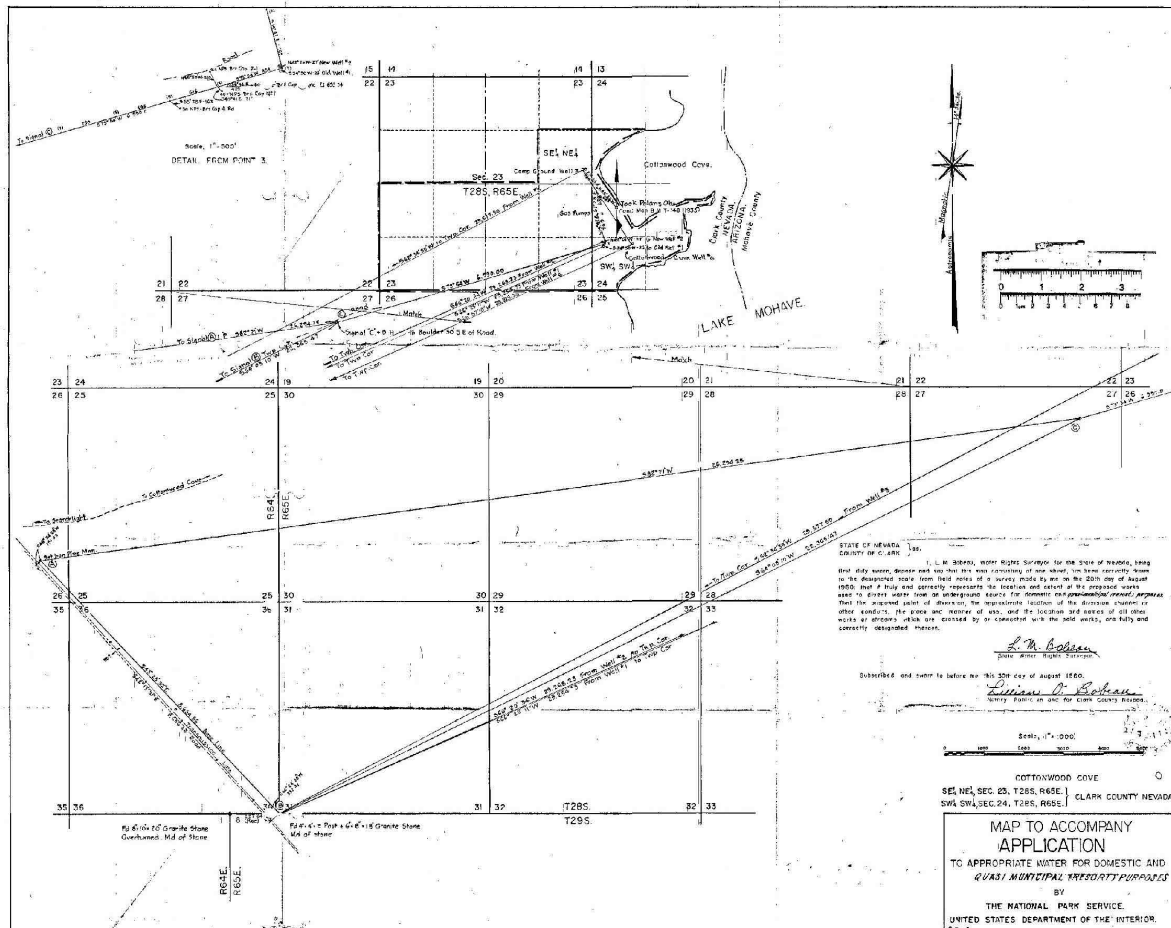
Derived from Drawing No. 6989

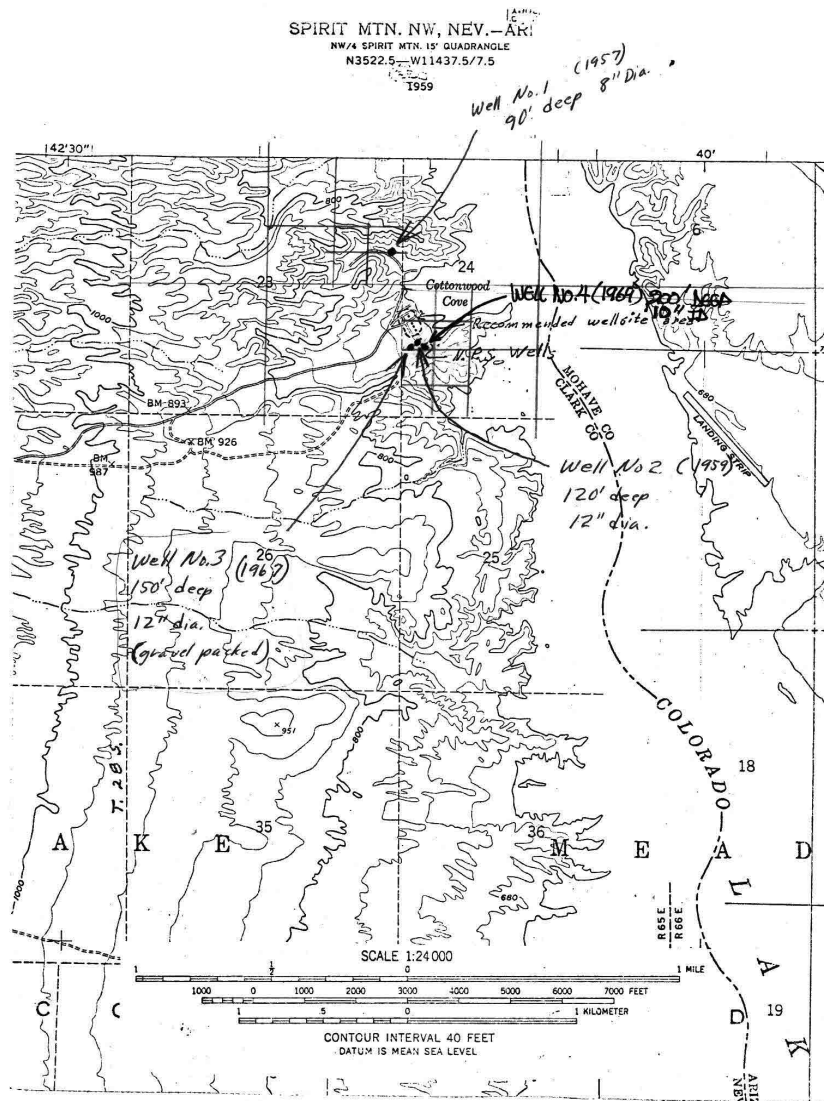
April 1959

Irrigation Study

LAKE MEAD - COTTONWOOD COVE PROPOSED RESIDENTIAL AREA-					
Location	Gross Area	Net Irrigation Area	% of Gross Area to be Irrigated	@ 5 AF/A/AN	@ 8 AF/A/AN
A.Residences	1.51 acres	0.50 acres	33%	2.50	4.00
B.Information Station	0.25 acres	0.03 acres	12%	0.15	0.24
TOTAL	1.76 acres	0.53 acres	30%	2.65AF	4.24AF

Derived from Drawing No. 6987





Docket Information

Number of Documents in Docket 63

Documents Dated from 10/1/1957 to 9/5/1980

Docket Compiled: 4/21/2011