



WATER-RIGHT DOCKET

Lake Mead National Recreation Area

Docket No: 26

WILLOW BEACH WELL #2

Preliminary Docket Information

05-19-1976: water right/source docket information

WATER RESOURCES/WATER RIGHT

DATE: May 19, 1976

WATER RIGHT/SOURCE DOCKET INFORMATION

REGION Western Region AREA Lake Mead National Recreation Area
 SITE Willow Beach
 STATE Arizona COUNTY Mohave DOCKET NO WR #14
 LOCATION SE $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 29, T29N, R22W, G&SRB&M
 REGIONAL BASIN Cokorodo River LOCAL BASIN _____
 ACQUIRED BY _____
 APPLICATION _____ PERMIT _____ CERTIFICATE _____
 ACTION DUE _____ PRIORITY _____ RESERVATION _____
 QUANTITY 180,000 GPD USE Domestic and irrigation
 STATUS Active SOURCE 2 wells

REMARKS Hydrology Unit #15030101

NARRATIVE:

In 1956, the Park Service drilled a well 68 feet deep at Willow Beach in Lake Mead NRA. The depth to the principal water bed was 16 feet below land surface datum. Between March and May of 1958, the Park Service constructed a water system at Willow Beach consisting of a 25,000-gallon reservoir, and a four inch pipeline from the pump to the reservoir and from there to the future residential area.

On April 10, 1959, Mr. A. van V. Dunn distributed Lake Mead Water Right Dockets Number 12 through 18 to the Regional Director of Region Three. Included in the dockets were prints of Drawings Number 6982, 6983, 6984, 6985, 6987, 6988, and 6989. The irrigation studies which these drawings represented were being conducted in preparation for the litigation in the case of Arizona v. California. Mr. Dunn was worried that the figures he gave in his original testimony regarding irrigation at Lake Mead may have been low.

Drawing Number NRA-IM 6984, the irrigation study for the Willow Beach area, showed the pump enclosure located in a drainage channel adjacent to a boat launching area in a small cover below a cliff overlooking Lake Mohave. The net area to be irrigated was estimated to be 19.7 acres.

A second well was drilled in the 1960's and serves as the principle well at present. This well is located about 75 feet south of well #1.

Present development of the area includes: a 147 space campground, concessionaire and 20 room motel, marina, and trailer village. A Federal fish hatchery is located in the adjoining area - this area has had two wells in the past, but are utilizing NPS supply since they capped their well about one year ago.

Water usage for 1974 was 66,000,000 gallons.

There is no evidence of any State Water Right filings.

USGS Reports shows the presence of 4 wells in the area:

29-22-29BAD1 (SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 29 T29N R22W)
 29-22-29BAD2 (SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 29 T29N R22W)
 29-22-29BCC1 (SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 29 T29N R22W)
 29-22-29BCC2 (SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 29 T29N R22W)

Compiled by Kevin Kidder

Approved by W. Werrell

Page 1 of 1



WESTERN REGION

450 GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94102

IN REPLY REFER TO:

L54 (WR-RNW)

June 4, 1982

Mr. Wesley E. Steiner, Director
Department of Water Resources
99 E. Virginia Avenue
Phoenix, Arizona 85004

Reference: Arizona Groundwater Management Act
(1980), A.R.S. 45-593

Dear Mr. Steiner:

Enclosed are the completed well registration forms for existing wells within the State of Arizona owned by the United States Government, Department of the Interior, National Park Service, Western Region. These forms have been completed for the following areas: Casa Grande National Monument (1 well), Chiricahua National Monument (8 wells), Coronado National Memorial (6 wells), Fort Bowie National Historic Site (1 well), Grand Canyon National Park (no wells), Lake Mead National Recreation Area (14 wells), Montezuma Castle National Monument (3 wells), Organ Pipe Cactus National Monument (21 wells), Petrified Forest National Park (3 wells), Saguaro National Monument (14 wells), Tonto National Monument (1 well), Tumacacori National Monument (3 wells), Tuzigoot National Monument (1 well), and Walnut Canyon National Monument (1 well). The location of these National Park Service areas are shown on the enclosed map (in red).

Of the total 77 wells being registered, 12 wells have a pump capacity exceeding 35 gallons per minute and therefore payment in the amount of \$120.00 (\$10.00 X 12) will be forwarded to your office by the U.S. Treasury Department under separate cover as the registration fee for these non-exempt wells.

If there are any questions with regards to this matter, or if we can be of further assistance, please contact Gerard S. Witucki, Chief, Division of Water Resources, (415) 556-8660, of this Office.

Sincerely yours,

FOR John G. Chertoff

Howard H. Chapman
Regional Director, Western Region

Enclosures

See attached sheet for bcc's

Rodney Montanano	Index
Regional Office	S. 7-90
Regional Director	~~1667~~
Deputy Regional Director	
Administration:	
Park Operations	M/L
Plan & Recreation	
CDDP - P&R	
COMMUNICATIONS OF P.D.	
EEO	
Open Envtl	
A. Sam Takem	

See Dockets for
SAGO, CORO

bcc's sent to:

Superintendent, Casa Grande, w/respective encls., w/blank form & w/o map
Superintendent, Chiricahua/Fort Bowie, w/respective encls., w/blank form & w/o map
Superintendent, Coronado, w/respective encls., w/blank form & w/o map
Superintendent, Grand Canyon, w/o encls.
Superintendent, Lake Mead, w/respective encls., w/blank form & w/o map
Superintendent, Montezuma Castle/Tuzigoot, w/respective encls., w/blank form & w/o map
Superintendent, Organ Pipe Cactus, w/respective encls., w/blank form & w/o map
Superintendent, Petrified Forest, w/respective encls., w/blank form & w/o map
Superintendent, Saguaro, w/respective encls., w/blank form & w/o map
Superintendent, Tonto, w/respective encls., w/blank form & w/o map
Superintendent, Tumacacori, w/respective encls., w/blank form & w/o map
Superintendent, Walnut Canyon, w/respective encls., w/blank form & w/o map
General Superintendent, Southern Arizona Group, w/respective encls., w/blank form & w/o map
Field Solicitor, San Francisco Office - Attn: J. Burke, w/encls. & w/blank form
Field Solicitor, Phoenix Office - Attn: W. Swan, w/map, w/blank form & w/example of
completed form
Regional Director, Rocky Mountain Region - Attn: W. McKeel, w/map, w/blank form &
w/example of completed form
Regional Director, Southwest Region - Attn: G. Moore, w/map, w/blank form & w/example
of completed form
(WR)AF, w/SF 1034, w/o encls.

DEPARTMENT OF WATER RESOURCES
55 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004



REGISTRATION OF EXISTING WELLS

INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

Declaration: The United States gives jurisdiction to the State in the interest of public health, safety and morals. The State has power to regulate the rights of the United States to the use of water.

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☒
NON-EXEMPT WELL - \$10.00	☐

FOR OFFICE USE ONLY	
REGISTRATION NO. 55-	629133
FILE NO. R(29-22)29	29
FILED 6-9-82	AT 1:30
(DATE)	(TIME)
INA	
AMA	

- Name of Registrant:
National Park Service, Western Region, Division of Water Resources
450 Golden Gate Ave., Box 36063, San Francisco CA 94102
(Address) (City) (State) (Zip)
- File and/or Control Number under previous groundwater law:
(File Number) 35- (Control Number)
- a. The well is located within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, of Township 29 N N/S, Range 22 W E/W, G & SRB & M, in the County of Mohave.
b. If in a subdivision: Name of subdivision _____, Lot No. _____, Address _____.
- The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
Unused
- If for irrigation use, number of acres irrigated from well _____.
- Owner of land on which well is located. If same as Item 1, check this box ☒
(Address) (City) (State) (Zip)
- Well data (If data not available, write N/A)
a. Depth of Well N/A feet
b. Diameter of casing N/A inches
c. Depth of casing N/A feet
d. Type of casing N/A
e. Maximum pump capacity N/A gallons per minute.
f. Depth to water N/A feet below land surface.
g. Date well completed 1965 (Month) (Day) (Year)
- The place(s) of use of water. If same as Item 3, check this box ☐
SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section _____ Township _____ Range _____
SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section _____ Township _____ Range _____
Lake Mead National Recreation Area - Willow Beach #2
Attach additional sheet if necessary.
- DATE JUN 3 1982 SIGNATURE OF REGISTRANT (Sgd) Gerard S. Witucki
GERARD S. WITUCKI
CHIEF, DIVISION OF WATER RESOURCES

CHANGE OF WELL INFORMATION

Registration Number 55 629133

I request the following information be changed in Well File Number B(29-22)29dec

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new) owner of the well described below:

Township _____ Range _____ Section _____, _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$

Registration #55-_____ File No. _____

Previous Owner _____ New Owner _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
CHANGES IN OWNERSHIP OR WELL
DATA SUCH AS PUMP CAPACITY, ETC.

State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E. Virginia Avenue, Phoenix, Arizona 85004

RECEIVED	
NPS WATER RESOURCES REGIONAL OFFICE	
JAN 25 1982	
D	
BRUCE BABBITT, Governor	
WESLEY E. STEINER, Director	
JAN 4, 1982	

Dear Well Owner:

Arizona's new Groundwater Management Act requires that all existing wells, regardless of size, be registered with the Department of Water Resources by June 14, 1982. An existing well is one that was drilled prior to June 12, 1980, and which has not been abandoned or sealed. Included are wells which were not completed by June 12, 1980, even though a Notice of Intent to Drill was filed with the Department.

For your convenience, enclosed are the registration forms and the information from your well file. If the information is still correct, simply transfer it to the new form. If the information needs to be updated, please do so on these forms. Be sure to file all forms in duplicate so we can return one copy to you.

There is no fee to register "exempt" wells with a pump capacity not exceeding 35 gallons per minute. "Non-exempt" wells, those with a pump capacity greater than 35 gallons per minute, cost \$10 each to register.

If you own additional wells for which we did not provide data, we probably do not have those wells in our records, or they are filed under another name. In the event you no longer own the well, please forward this information to the new owner.

If you have any questions about well registration, feel free to call us at 255-1546. The toll free number in Arizona is 1-800-352-5464.

Thank you for your cooperation.

Sincerely,

W. Don Maughan
W. Don Maughan
Deputy Director

WDM/CLL/
Enclosure

Think Conservation!

Office of Director 255-1554

Administration 255-1550, Water Resources and Flood Control Planning 255-1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255-1581, Hydrology 255-1586.

DSR:J SWL

Administrative Agreements

Form 10-114
(Rev. Oct. 1964)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

This permit is valid for _____ of _____

SPECIAL USE PERMIT

Lake Mead National Recreation Area None

(Area)

Fisher Contracting Co., of 2201 South 19th Ave., Phoenix, Arizona is hereby authorized during the period from August 1, 1966 to July 31, 1967 to use the following-described land in the above-named area:

A strip of land not to exceed twenty (20) feet in width, beginning at Lakeshore, Approx. 1/5 mile North of Willow Beach Fish Hatchery and extending approximately 4 miles Northeast to near U.S. Highway 93 & 466. This is delineated on attached Exhibit 'A'.

for the purpose of installing a temporary six (6) inch water line w/pumping plant (enclosed w/6' chain link fence) for use in construction of Arizona Highway Department Project No. F 039-1(8) and FLM-2(h).

subject to the conditions on the reverse hereof and attached pages and to the payment to the Government of the United States of the sum of twenty Dollars (\$ 20.00) in advance annually (Monthly, semiannually, etc.), or as follows: _____

payment to be made to the Superintendent by Express or Postal Money Order, Certified Check, or Draft payable to the National Park Service, or Cash.

Issued at Boulder City, Nevada, this 16th day of August, 1966.

/S/ William J. Briggie Acting Superintendent

The undersigned hereby accepts this permit subject to the terms, covenants, obligations, and reservations, expressed or implied, therein.

TWO WITNESSES TO SIGNATURES		* PERMITTEE (SIGNATURE)	
NAME		NAME	
<u>/S/ J. C. Mason</u>		<u>/S/ R. D. Fisher</u>	
ADDRESS		ADDRESS	
<u>1138 E. Northview, Phoenix, Arizona</u>		<u>R. D. Fisher, Vice President</u>	
NAME		NAME	
<u>/S/ R. S. Bates</u>		<u>FISHER CONTRACTING CO., 2201 SOUTH</u>	
ADDRESS		ADDRESS	
<u>6702 North 14th Drive, Phoenix, Ariz.</u>		<u>19TH AVE., PHOENIX, ARIZONA 85005</u>	
APPROVED: (If approval is required by higher authority)			
NAME	TITLE	DATE	

*Sign name or names as written in body of permit; for co-partnership, permittees should sign as "members of firm"; for corporation, the officer authorized to execute contracts, etc., should sign, with title, the sufficiency of such signature being attested by the Secretary with corporate seal, in lieu of witnesses.

(This copy for the Branch of Lands, Washington)

CONDITIONS OF THIS PERMIT

1. **Regulations.**—The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with the regulations of the Secretary of the Interior, or other authorized officer of the Government, governing the area.

2. **Definition.**—The term "Director, National Park Service" as used herein shall include the appropriate Regional Director or Superintendent as the representative of the Director.

3. **Rights of the Director.** Use by the permittee of the land covered hereby is subject to the right of the Director, National Park Service, to establish trails, roads, and other improvements and betterments over, upon, or through said premises, and further to the use by travelers and others of such roads and trails as well as of those already existing. If it is necessary to exercise such right, every effort will be made by the National Park Service to refrain from unduly interfering or preventing use of the land by the permittee for the purpose intended under this permit.

4. Nonclassification.

~~REDACTED~~

5. **Damages.**—The permittee shall pay the United States for any damage resulting from this use which would not reasonably be inherent in the use which the permittee is authorized to make of the land described in the permit.

6. Construction.—No building or other structure shall be erected under this permit except upon prior approval of plans and specifications by the Director, National Park Service, and the premises and all appurtenances thereto shall be kept in a safe, sanitary, and signily condition.

7. **Removal of structures and improvements.**—Upon the expiration of this permit by limitation of time or its termination for any reason prior to its expiration date, the permittee, if all charges due the Government hereunder have been paid, shall remove within such reasonable period as is determined by the Superintendent, but not to exceed 90 days unless otherwise stipulated in this permit, all structures and improvements placed on the premises by him, and shall restore the site to its former condition under the direction of the Superintendent. If the permittee fails to remove all such structures and improvements within the aforesaid period, they shall become the property of the United States, but that will not relieve the permittee of liability for the cost of their removal and the restoration of the site.

B. Water Rights. The United States reserves the rights to perfect title to all rights for water which may be developed or used in connection with this permit and shall furnish water to the permittee when available at reasonable rates to be approved by the Director, National Park Service. Should such water service be unavailable or inadequate, the permittee may, with prior approval of the Director, provide the same at his own expense, subject to such special requirements as may be prescribed.

9. **Disposal of refuse.**—The permittee shall dispose of brush and other refuse as required by the Superintendent.

10. **Timber cutting.**—No timber may be cut or destroyed without first obtaining a permit therefor from the Director, National Park Service.

11. **Fire prevention and suppression.**—The permittee and his employees shall take all reasonable precautions to prevent forest, brush, grass, and structural fires and also shall assist the Superintendent in extinguishing such fires in the vicinity of any tract which may be used hereunder.

12. **Soil erosion.**—The permittee shall take adequate measures, as directed and approved by the Superintendent to restrict and prevent soil erosion on the lands covered hereby and shall so utilize such lands as not to contribute to erosion on adjoining lands.

13. **Benefit.**—Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit or derive, either directly or indirectly, any pecuniary benefit to arise therefrom: *Provided, however,* That nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

14. **Assignment.**—This permit may not be transferred or assigned without the consent of the Director, National Park Service, in writing.

15. **Revocation.**—This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Director, National Park Service.

Form 10-111a
(Dec. 1956)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SPECIAL USE PERMIT CONTINUATION SHEET

AREA	PERMIT NO.	PAGE NO.
Lake Mead National Recreation Area	3:602:705	3

16. This temporary water line is to be installed and laid on the ground and confined to a 20 foot strip. The first section, several mile long extending from the lakeshore, is to be laid in the washes lying into the existing jeep trail, which it is to follow to the highway.

17. Any disturbance to trail, washes and general landscape will be obliterated. Upon completion of Arizona Highway Department Project No. F 039-1 (8) and FLH- 2 (4) this line is to be removed. Approval of clean up must be cleared through the Superintendent, Lake Mead National Recreation Area, or his designated representative.

ATTACHMENT A

CONTINUATION OF CONDITIONS OF TEYS PERMIT (Form 10-114)

United States Department of the Interior
National Park Service

The following provisions constitute Condition 4 in accordance with Executive Order No. 11246 of September 24, 1965.

Nondiscrimination. If use of the land covered by the permit will involve the employment by the permittee of a person or persons, the permittee agrees as follows:

- (1) The Permittee will not discriminate against any employee or applicant for employment because of race, creed, color, ancestry, or national origin. The Permittee will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, ancestry or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Permittee agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Superintendent setting forth the provisions of this non-discrimination clause.
- (2) The Permittee will, in all solicitations or advertisements for employees placed by or on behalf of the Permittee, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.
- (3) The Permittee will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the Superintendent, advising the labor union or workers' representative of the Permittee's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Permittee will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Permittee will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the Superintendent and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the Permittee's noncompliance with the nondiscrimination clauses of this permit or with any of such rules, regulations, or orders, this permit may be cancelled, terminated or suspended in whole or in part and the Permittee may be declared ineligible for further Government contracts or permits in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Permittee will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Permittee will take such action with respect to any subcontract or purchase order as the Superintendent may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, That in the event the Permittee becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Superintendent, the Permittee may request the United States to enter into such litigation to protect the interests of the United States.



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Water Resources Division
1201 Oak Ridge Drive, Suite 250
Fort Collins, Colorado 80525



November 21, 1994

TO: Steve Spearman, LAME
FROM: Larry Martin, Hydrogeologist, Water Resources Division
Subject: Wells at the Willow Beach Fish Hatchery

Per your request through Alice Johns, I checked our files to see if we have any information regarding the wells at the fish hatchery. These wells are of interest to FWS because they reportedly produced water that was 80°+ water. Such water could potentially be used for rearing warm water endangered fish species.

The only information I could find regarding the 2 wells that did exist at the fish hatchery was in a USGS Administrative Report, "Geohydrologic Reconnaissance of Lake Mead National Recreation Area -- Hoover Dam to Mount Davis, Arizona" by C.B. Bentley, August, 1971. All of the information for these two wells are contained in tables 2 & 3 (copies attached).

The wells were drilled to depths of 80 & 90 feet and completed in granitic and metamorphic rocks. One well had a reported yield of 10 gallons per minute and a static water level 41 feet below land surface. Information for the other well is not available. Both wells were reported to be abandoned and destroyed.

Water quality data is available for both wells from the fish hatchery (see attached table 3). Water has high concentrations of sulfate, 1,800 and 1,050 mg/l and dissolved solids, 3,420 and 2,219 mg/l. Data from this table may be useful in evaluating whether new wells should be constructed in the area to supply warm water for the fish hatchery.

If I can be of any other assistance in this matter, please give me a call at (303)-225-3515.

cc: Bill Burke, LAME
Alice Johns, WRD

Table 2. --Occurrence of water in wells and springs in the Lake Mead National Recreation Area—Hoover Dam to Mount Davis

Location: See figure 3 for description of well-numbering system.

Yield: E, estimated; R, reported.

Land-surface altitude: Determined from U.S. Geological Survey topographic maps.

Use: N, not used; PS, public supply.

Water level: R, reported.

Remarks: C, chemical analysis of water shown in table 3.

Location	Name or type of occurrence	Aquifer	Depth of well (feet)	Diameter of casing (inches)	Depth of casing (feet)	Land-surface altitude (feet above mean sea level)	Water level		Yield (gpm)	Use	Remarks
							Depth below land surface (feet)	Date measured (month-year)			
(B-29-22)29bad1	Willow Beach Fish Hatchery well No. 1	Granitic and metamorphic rocks	90	-----	-----	660	-----	-----	-----	N	C; well abandoned and destroyed; unsurveyed.
29bad2	Willow Beach Fish Hatchery well No. 2	do.	80	-----	-----	680	41 R	5/67	10 R	N	C; well abandoned and destroyed; unsurveyed.
29dec1	Willow Beach Camp-ground well No. 1	Younger alluvium	68	8	68	660	24.9	10/70	-----	PS	Unsurveyed.
29dec2	Willow Beach Camp-ground well No. 2	do.	-----	11	-----	660	26.0	10/70	425	PS	C; unsurveyed; 16 foot water level at high lake level reported.
(B-30-23)10bed	Hot spring	Volcanic rocks	-----	-----	-----	650	-----	-----	30 E	N	
10cac	do.	do.	-----	-----	-----	650	-----	-----	20 E	N	C; temperature 61.0°C.
10cba	do.	do.	-----	-----	-----	660	-----	-----	100 E	N	Temperature 61.5°C.
10c4b	do.	do.	-----	-----	-----	680	-----	-----	100 E	N	
15c4d	do.	do.	-----	-----	-----	750	-----	-----	5 E	N	
26bec	do.	do.	-----	-----	-----	760	-----	-----	50 E	N	C; temperature 45.0°C.

Table 3. --Chemical analyses of water from selected sources and drinking-water standards, Lake Mead National Recreation Area—Hoover Dam to Mount Davis

[Analyses by U. S. Geological Survey, except as indicated. Results in milligrams per liter, except as indicated. Dissolved solids calculated as the sum of the determined constituents, using the carbonate equivalent of the bicarbonate]

No.	Source	Date of collection	Temperature (°C)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Dissolved solids	Hardness as CaCO ₃		Specific conductance (micro-mhos at 25°C)	pH	Aquifer
															Calcium, magnesium	Non-carbonate			
11-1/	Willow Beach Fish Hatchery Well No. 1	1962	-----	32	Trace	401	92	498	178	0	1,800	311	-----	3,420	1,380	1,234	-----	8.1	Granitic and metamorphic rocks.
12-2/	Willow Beach Fish Hatchery Well No. 2	1967	-----	-----	.4	252	50	300	-----	-----	1,050	156	2.7	2,210	840	-----	2,780	-----	Do.
12	Willow Beach campground Well No. 2	9/28/70	30.0	27	----	118	33	196	209	0	440	128	.9	1,050	430	259	1,680	8.1	Younger alluvium.
13	Hot spring	10/23/70	61.0	38	----	270	9.8	731	56	0	845	910	4.2	2,840	715	661	4,400	8.0	Volcanic rocks.
14	do.	10/23/70	45.0	37	----	230	13	600	35	0	580	890	2.8	2,350	630	602	3,830	7.7	Do.
15	Lake Mohave	1/9/69	-----	9.5	0	88	31	109	163	0	300	97	.6	715	348	215	1,150	8.2	
16	-----	-----	-----	-----	.3	-----	-----	-----	-----	-----	250	250	4/.8	500	-----	-----	-----	-----	

Analysis reported by Willow Beach Fish Hatchery, Bureau of Sport Fisheries and Wildlife.

Analysis reported by Arizona State Health Laboratory.

Data from U.S. Public Health Service (1962).

Mandatory maximum content: 1.4 mg/l.



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

WESTERN REGION

450 GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94102

L54 (RNW)

April 20, 1982

Memorandum

To: All Superintendents, Arizona Areas, Western Region

From: ~~ACTING~~ Regional Director, Western Region

Subject: Arizona Groundwater Management Act, required filings

In compliance with the Arizona Groundwater Management Act of 1980, we are required to register all existing wells within the State on or before June 12, 1982, see enclosure.

The Field Solicitor's Office has advised us that registration of existing wells on National Park Service lands should be made either as a matter of comity, in the case of Federal reserved water rights, or as a matter of compliance with Arizona State law, in the case of Federal non-reserved water rights.

The Division of Water Resources has begun to compile the necessary information for the filings, and in the process may be contacting your offices for further information. They will submit this material to the State.

Information which you feel the Division of Water Resources may not have, concerning recently changed well conditions, pump capacities, etc., should be relayed as soon as possible to the Division of Water Resources at 556-8660.

If you have any questions concerning the well registration requirements, please do not hesitate to contact Mr. Witucki and his staff.

W. Bruce White

Enclosure

cc:
General Superintendent, SOAR

L54
(WR)RNW

Sen 12

September 21, 1981

Witucki
Mills
Kilgore
9/21
PK 9/21

Davis
Reg. Dir.
9/22

Memorandum

To: Field Solicitor, San Francisco
ACTING
From: Regional Director, Western Region
Subject: Arizona Groundwater Management Act: Registration of Inactive Wells;
Filing for "Grandfathered Rights"

The Division of Water Resources has received inquiries from the affected National Park Service areas concerning certain provisions of the Arizona Groundwater Management Act of 1980, and we are still awaiting a response from your Office regarding our June 11, 1981 memorandum to you. As required by the Act, all wells in the State must be registered with the Arizona Department of Water Resources by June 12, 1982. However, it is not clear whether it is appropriate to register the inactive wells located in the parks within the State of Arizona. Since registration of these inactive wells may have a bearing on the Service's right to drill new or replacement wells in the future, we have tentatively planned to register all wells located within the affected parks. With these concerns in mind, we would appreciate a legal determination and your recommendations as to the registration of inactive wells pursuant to the Arizona Groundwater Management Act.

Through field investigations conducted by the Division of Water Resources staff, telephone conversations with the field areas, and communication with your staff, we determined that it was not necessary to file for "Grandfathered Rights" for any of the wells located in the parks within the designated Active Management Areas since none of the wells in question has a pumping capacity greater than 35 gallons per minute. Under the provisions of the Act, such wells were exempt from filing for "Grandfathered Rights."

Your assistance and cooperation in this matter is appreciated.

(SGD) JOHN H. DAVIS

cc:
General Supt., SOAR
Supts., Saguaro, Tumacacori, & Casa Grande

(WR)RNW:Reed:Werrell:Witucki;ms 9/21/81

L-54

Region Three
Santa Fe, New Mexico

MAY 20 1959

Memorandum

To: Director

From: Acting Regional Chief of Operations

Subject: Water Rights Dockets 12, 13, 14, 15, 16, 17 and 18,
Lake Mead

Mr. Dunn's memorandum of April 10 transmitting the above numbered dockets arrived while Mr. Fields and Mr. Kell were enroute to Lake Mead and for some reason did not arrive in the Regional Office until April 29.

By memorandum of April 24 Park Engineer Blair transmitted copies of the Well Drilling Logs for:

- (a) Katherine, Docket No. 10
- (b) Temple Bar, Docket No. 11
- (c) Willow Beach, Docket No. 14
- (d) Cottonwood Cove, Campground, Docket No. 1

Also supplied was a chemical analysis of the water from each of the above wells.

Copies of each log and analysis have been made and placed in our respective dockets. We have attached copies of each log and analysis for your Washington Office dockets and copies are being supplied to the Western Office of Design and Construction for insertion into the proper dockets.

Messrs. Fields and Kell are at Carlsbad Caverns to initiate installations of wells and recording devices at Rattlesnake Springs. Any additional comments needed in further reply to Mr. Dunn's memorandum of April 10 must wait their return May 23.

Jerome C. Miller
Acting Regional Chief of Operations

In duplicate w/4 sets attachments

Copy to: Supt., Lake Mead w/o attachments
WDC (2) w/4 sets attachments



L54-CBL

April 10, 1959

Memorandum

To: Regional Director, Region Three
From: Chief, Water Resources Section
Subject: Water Right Dockets 12, 13, 14, 15, 16, 17 and 18,
Lake Mead

With copies of this memorandum we are distributing folders for the subject dockets as follows:

Docket No. 12	Las Vegas Wash
Docket No. 13	Echo Bay
Docket No. 14	Willow Beach
Docket No. 15	Overton Beach
Docket No. 16	Cottonwood Cove Proposed Residential Area Cottonwood Cove
Docket No. 17	Cottonwood Vacation Cabin Sites
Docket No. 18	Water Line to Boulder Beach Ranger Station

Also attached are three extra prints of Drawing 6982, 6983, 6984, 6985, 6987 and 6989. The drawings have been prepared for interim record and study purposes. The extra prints are for you to refer to the office which can supply the corrections and extras needed for water right applications, of which a part will be either in narrative form, or preferably on the standard forms which should be obtained from the State Engineer of Nevada and Water Division of Arizona Land Department.

We cannot locate well logs for wells at Willow Beach (Docket 14), Overton Beach (Docket 15) and Cottonwood Cove (Docket 16). If you have or can obtain the well logs we would like copies for inclusion in their respective dockets.

The purpose of this study is as outlined in my memorandum of October 22, 1958, to the Regional Director, Region Three. The prints with that memorandum were chiefly to obtain section ties.

My immediate concern is the area of irrigation at Lake Mead since I believe my original estimate as testified in Arizona vs. California may be low for the dates I gave. Water right filings will reflect accelerated development if the claims exceed my testified totals in each state for 1966 and 1975. We should also estimate, and include domestic and other water uses in the applications.

These records are being sent to you as soon as we can complete computations and map compilation which we started. We expect Mr. Fields to take over the rest of the work leading to the preparation of water right applications.

A. van V. Duan
Chief, Water Resources Section

Attachments 7

Copy to: Superintendent, Lake Mead, with 7 attachments
Chief, WDRS, with 7 attachments

April 1959

LAKE MEAD - WILLOW BEACH - IRRIGATION STUDY					
Location	Gross Area	Net Irrigation Area	% of Gross Area to be Irrigated	@ 5 AF/A/AN	@ 8 AF/A/AN
A. Picnic Area Public Camp- ground	14.62 acres	10.23 acres	70%	51.15	81.84
B. Residential employee area Trailer Camp	13.53 acres	9.47 acres	70%	47.35	75.76
TOTAL	28.15 acres	19.70 acres	70%	98.50AF	157.60AF

Derived from Drawing No. 6984

Docket Information

Number of Documents in Docket 20

Documents Dated from 4/10/1959 to 11/21/1994

Docket Compiled: 6/2/2016