

STATE OF CALIFORNIA—RESOURCES AGENCY
STATE WATER RIGHTS BOARD
REPORT OF INSPECTION

Application 21642 Owner Warren E. Barker
Permit 14449 Address 2099 Centella Place
License _____ Newport Beach, California

Date of Inspection May 7, 1968 Inspected by F. M. Kuchta
Accompanied by Mr. Muncy (lessee) on day prior to actual survey of reservoir
Persons interviewed None
Reason for Inspection Time expired December 1, 1967

Filing Data

Date filed February 10, 1964 Amount allowed 14 acre-feet per annum
Date approved August 24, 1964 Season October 15 to April 15
Time allowed to complete December 1, 1967 Purpose Stockwatering and recreational uses
Permitted acreage, if irrigation -----

Recommendation

The project was found to be complete and license is recommended as follows:

| | |
|-------------------------|--|
| 1. Amount | <u>14 acre-feet per annum</u> |
| 2. Season of collection | <u>October 15 to April 15</u> |
| 3. Purposes | <u>Stockwatering and recreational uses</u> |
| 4. Point of diversion | <u>As in permit</u> |
| 5. Place of use | <u>At reservoir within NW$\frac{1}{4}$ of NE$\frac{1}{4}$ of Section 8, T28N, R6W, MDB&M</u> |

Source

Name An unnamed stream Is record of flow maintained? No
Tributary to Spring Gulch Th Dry Creek etc. If so, by whom? -----
County Tehama Is supply natural flow? Yes
From (direction) West to Spring Gulch Estimated minimum flow No flow in summer
During what portion of year does minimum flow occur? Normally dry from April or May until fall rains
Measured or estimated flow at time of inspection No flow

Diversion System

Is point of diversion at location specified in permit, license or order? Yes, it appears to be correct
If not, when will petition be submitted? -----
If diversion point has been moved, roughly describe present location with respect to authorized location -----

Would change cause any injury? -----
Is diversion by gravity or pumping? Gravity collection in on-stream reservoir
Is diversion system complete? Yes If not, briefly explain what remains to be done -----

If not complete, does it appear to have been pursued with reasonable diligence? Complete

What is the capacity of the limiting section? Approximately 14 AF
Explain briefly manner of determining above capacity Transit-stadia spiderweb survey to determine area - Plotted to scale and planimetered - Height of dam, freeboard and drawdown by use of hand level. Sounded from a kayak.

19 68

First Inspection

Place of Use

(Permit)

Name of place of use, if commonly known as such No particular name
Describe briefly any changes from place of use as described in permit, license or order None

Is petition required? No If so, indicate when it will be submitted ----

Is place of use developed to a point where full use of water may be made? Yes
If not, describe briefly what remains to be done ----

Does it appear that development has been pursued with due diligence? Complete when application filed.
Does permittee or licensee own or control all the land originally covered or as covered by change? Yes

Major Use of Water

Briefly describe method of applying water to major use Livestock drink direct from the reservoir.
Recreational use is fishing. Two families were fishing in the reservoir while it was being surveyed -- with very fine results -- bass and bluegill.

Does method of use appear to be wasteful, judging from local standards? No
Explain answer Normal for this dry area. If water were not collected during the winter months, it would waste into the ocean.

List units served during maximum season (if applicable) About 50 head of cattle

Other Uses

Average number of persons served during maximum period _____ Number of housing units _____
Plumbing facilities available _____
Area of garden, lawn, etc., served _____ Area sprinkled to allay dust _____
Number of domestic livestock served 50 head of cattle
Other miscellaneous domestic use _____
Recreational use Fishing

Extent of Use of Water

Season of use and/or diversion to storage: From about October 15 to about April 15 of the succeeding year.

Average rate of use by direct diversion during maximum period _____
Approximate beginning and ending dates of maximum period _____
Year of maximum use 1965

Complete the following only if storage is involved
Maximum amount diverted to storage in one season 7 or 8 AF Year 1964-65
Does the purpose for which water was stored require withdrawal before use? No
If so, give maximum withdrawal in one season Est. 7 or 8 AF Year 1965
How much water was held over in dead storage? At minimum est. 6 AF
For what purpose? Stockwatering in fall and to maintain fish.

Other Rights

Permittee also has Applications 21641, 21978 and 21979 covering other reservoirs on property in this area and according to Mr. Muncy probably some additional new filings. Riparian to Spring Gulch, Long Gulch and other sources.

CALCULATIONS

How was information regarding season of use (shown on Page 2) obtained? From Mr. Muncy (lessee) at time of tour to several reservoirs on this property. Variable with seasons but about normal.
Show method of obtaining each item of basic information used in calculation below:
See bottom of Page 1

Show formula used in computing direct diversion or capacity of storage reservoir:
Average of areas of two successive contours x interval = capacity in that section, etc. etc.

CALCULATION OF DIVERSION DURING MAXIMUM SEASON
(In tabular form—not narrative)

For calculations of capacity of reservoir see Page 4.

The permit was issued in the amount of 14 acre-feet per annum and according to my survey, the reservoir has a capacity of 13.8 AF or about 14 acre-feet.

License is recommended in the full permit amount of 14 acre-feet.

CALCULATION OF ANNUAL USE BY MONTHS

(If a reasonably accurate calculation of use "by months" cannot be made, leave spaces blank but in space provided for calculations explain reasons).

| | | | | | | | |
|----------|----|-------|----|-----------|----|----------|----|
| January | AF | April | AF | July | AF | October | AF |
| February | AF | May | AF | August | AF | November | AF |
| March | AF | June | AF | September | AF | December | AF |



If more space is needed for calculations, use supplemental sheets. All remarks to be on page following this and supplemental sheets.

An earthen fill dam $22\frac{1}{2}'$ high
to crest with about $3\frac{1}{2}'$ of freeboard

Water down 1' 5-7-68 -- since water
lines (high & present) were only
3 to 10' apart, only the high water
line is plotted.

Numbers within reservoir indicate
depths when it is full.

Theo. $\frac{1}{16}$ Sec. Line

Theo. $\frac{1}{16}$ Sec. Line

Theo. NE $\frac{1}{4}$ Center Sec 8

Sta. 1A Sta. 1

A-21642
Scale 1"=100'

5A

Bearings and distances

Sta. 1 to:

| | | |
|----|------|------------------------|
| 1A | 55' | $35\frac{1}{2}^\circ$ |
| 2 | 110' | $25\frac{1}{2}^\circ$ |
| 3 | 210' | $350\frac{1}{2}^\circ$ |
| 4 | 330' | $347\frac{1}{2}^\circ$ |
| 5 | 440' | 347° |
| 7 | 310' | 338° |
| 8 | 215' | 329° |
| 9 | 220' | 322° |
| 10 | 305' | 313° |
| 11 | 405' | 311° |
| 12 | 490' | 308° |
| 13 | 585' | 309° |
| 14 | 560' | 307° |
| 15 | 450' | 305° |
| 16 | 380' | $302\frac{1}{2}^\circ$ |
| 19 | 100' | 301° |
| 20 | 40' | $302\frac{1}{2}^\circ$ |

Sta. 1A to:

| | | |
|----|------|-------------|
| 6 | 380' | 339° |
| 17 | 355' | 291° |
| 18 | 255' | 289° |

Deflection 5-1 turn L to 5A $140^\circ 135'$

Calculations of capacity

| | | |
|-----------------|-----------------|-----------------------------------|
| High water area | 1.55 ac | |
| 5' depth | 1.13 ac | $1.34 \times 5' = 6.7 \text{ AF}$ |
| 10' depth | 0.60 ac | $0.86 \times 5' = 4.3 \text{ AF}$ |
| 15' depth | 0.28 ac | $0.44 \times 5' = 2.2 \text{ AF}$ |
| 19' depth | Negligible area | $0.14 \times 4' = 0.6 \text{ AF}$ |

Total Capacity 13.8 AF

Permit amount = 14 AF

REMARKS

This is a good stockwatering and recreational reservoir as it fills easily each year and does not go dry before the fall rains begin, thus it is ~~able~~ able to maintain fish and also serve as a fall stockwatering supply until it rains sufficiently in the fall to allow some run-off to begin.

There was no manner of definitely determining what the drawdown at maximum might have been. Mr. Muncy (who formerly owned the property) checks to see that it has not gone dry in the fall, but as to measuring definite drawdown, he just doesn't even attempt to guess.

Maximum use, as noted previously occurred during 1965 when about 50 head of cattle had access to this supply. Mr. Muncy prefers, for the benefit of the range, to limit the herd in this area to somewhere between 20 and 25 head.

May 9, 1968


Engineering Associate