



WATER-RIGHT DOCKET

Joshua Tree National Park

Docket No: 5

RATTLESNAKE SPRING (GUZZLER)

Preliminary Docket Information

09-13-1973: water right/source docket information

WATER RESOURCES/WATER RIGHTS

DATE: September 13, 1973

WATER RIGHT/SOURCE DOCKET INFORMATION

REGION Western AREA Joshua Tree National Monument

SITE Rattlesnake Spring

STATE California COUNTY San Bernardino DOCKET NO WR #6

LOCATION Sec. 27, T1S, R5E

REGIONAL BASIN _____ LOCAL BASIN _____

ACQUIRED BY Appropriation

APPLICATION _____ PERMIT _____ CERTIFICATE _____

ACTION DUE _____ PRIORITY _____ RESERVATION August 10, 1936

QUANTITY _____ USE Wild animal watering

STATUS Active SOURCE Spring (guzzler)

REMARKS _____

NARRATIVE:

This project, for the construction of a water system to protect wildlife in JOTR, was begun on June 18, 1970. It was made necessary by the drying up of Rattlesnake Spring, after several years of decreasing water flow, and was part of a general plan to rehabilitate many of the springs which had failed in the Monument.

A "guzzler" was constructed by locating a large apron of sheet steel upslope from the spring in such a way as to catch rainfall and snow melt. A pipeline was laid from the apron to an underground storage tank, and thence to a trough for the animals to drink from.

Construction was completed on July 27, 1970.

The spring itself has never been registered with the State.

Compiled by William N. Murray

Approved by W. Werrell

Page 1 of 1

W A T E R D O C K E T I N F O R M A T I O N

A R E A Joshua Tree National Monument

DOCKET NO. 85

APPLICATION NO. _____

PERMIT NO. _____

CERTIFICATE NO. _____

TITLE OF DOCKET Rattlesnake Spring Development

PRIORITY _____

REMARKS: _____

Other Supporting Information

NATIONAL PARK SERVICE
WASHINGTON, D.C. 20240

IN REPLY REFER TO:

L54-NW

L54-NW
D-2623 WR Lenn
John WR # 6
Memorandum

Memorandum

From: Chief, Division of Water Resources

Subject: Completion Report - Rattlesnake Spring Development -
Joshua Tree

Enclosed for your information and files is your copy of the subject completion report.

We are filing our copy in the correspondence file, unless advised otherwise.

Manuel Morris
Manuel Morris

Enclosure

cc:
Director, Western Region (2)

[illegible]

Form 10-7/4
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park Joshua Tree National Monument		Region Western	Order No. 120131
Location in Park S27-T1S R5E		State(s) California	Fund Symbol 1401033
☐ Contract and/or ☒ Day Labor		County or Counties San Bernardino	Year Programmed 1970
Work Order Title Rattlesnake Spring Development (Guzzler)			PCP No. M-30
			Master Plan No. NM-JT 2028-F
			Master Plan Corrected By
			As Built Drawings By
			Date Started June 18, 1970
			Date Completed July 27, 1970
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)		TOTAL COSTS (For completion by FFO)	
230 - Utility Systems			
.1 Water			
Construction Cost: (includes tanks and all other supplies and personnel services)			
		970	
		MAR 25 1971	
TOTAL		\$ 2,989.00	

DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES		
No.	To	Submitted By:	Title:	Date:
1	WASO	<i>Roman F. Dott</i>	Maintenance Supervisor	9/21/70
2	DCSSC	By: Roman F. Dott		
1	WR Programs	Approved By: <i>WR Supervisor</i>	Title: SUPERVISOR	Date: SEP 22 1970
1	Area, JOTR			
1	WR FFO			
2	WR PROP Mgt	COSTS VERIFIED BY: <i>Foon Lee</i>	Title: Supv. Accountant	Date: 3/25/71

WASO

11360

Form 10-474A
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Work Order Number

120131

Fund Symbol

1401033

COMPOSITION OF COST FOR COMPLETION REPORT

Park	Region	Year Programmed
Joshua Tree National Monument	Western	1970
Location in Park		
S27-T1S R5E		
Work Order Title		
Rattlesnake Spring Development (Guzzler)		

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE		
(1) Personal Services.....	\$997.00	
(2) Travel.....	100.00	
(3) Contract Work.....		
(4) Supplies and Materials.....	717.00	
(5) Other Direct Expenses....(underground tanks).....	275.00	
(6) Operation of Equipment....(Helicopter rental).....	900.00	
(7) Depreciation of Equipment.....		
(8) Purchase of Construction Equipment.....		
(9) Purchase of Other Accountable Equipment.....		
(10) Other Costs:		
(11) TOTAL COST CHARGED TO FFO FUNDS	xxxxxxxxxx	\$2,989.00
OTHER COSTS:		
(12) PS&S, AP, and/or Facilitating Services @ _____ %.....	\$	
(13) Inventory and Other Non-Fund Costs		
(14) GROSS WORK-ORDER COSTS	xxxxxxxxxx	\$
LESS:		
(15) Residual Value of Construction Equipment on Line 8.....	\$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS	xxxxxxxxxx	\$2,989.00

Identify other costs and other credits by line item entry, on an attached schedule, or explain in narrative.

WASD

25543

NARRATIVE REPORT (RATTLESNAKE SPRING)

Work was started on the Rattlesnake Spring Guzzler on June 18, 1970. A 32' x 32' galvanized sheet steel apron was located about 200' upslope from the Rattlesnake Spring. This structure consists of 1024 sq. ft. catch apron, with a drain trough on the lower side to drain the water 70' through a 4" orangeburg pipe to the 2100 gallon underground storage tank. The tank has a 12" manhole, 2" opening for a filler pipe, and a 1½" vent pipe (with screen).

Another pipe that is 3/4" in diameter carries the water from the storage tank 70' to a valve box, and about 6' to the drinking trough that is covered with brush that is collected from dead brush locally. This arbor is on four metal posts and mesh wire.

The apron size is such that with good rainfall and snow melt, the 2100 gallon tank should fill in one twelve month span. The square foot size of the drain apron is 1024 sq. ft.

The entire guzzler system was built independent of natural spring flow, which in the past several years has gone dry on occasion, and finally has gone completely dry. There is no indication that the spring will ever flow again.

The Rattlesnake Spring was completed on the 27th day of July, 1970.

WASO

M-39-1

PARK: JOSHUA TREE, NM

Day Labor X
Contract

PCP Index No.

CLASS ☐ (A) - Estimate based on working Drawings
 CLASS ☐ (B) - Estimate based on preliminary plans
 CLASS ☒ (C) - Estimate based on similar facilities in other parks

P. S. & S. by

BPR ☐NPS ☒

FY 72

ESTIMATE

ITEM	QUANTITY	COST
Rehabilitate Springs @ \$2500 ea. Assums FY 70 Construction	11	27,500
	Say-----	27,520

NOTE: Estimate based on tele-con info from Park Supt.
 A recent job of spring rehabilitation cost \$2500.

CRM 1-27-68

NOTE: Estimate is revised in accordance with section
 13.5 of Budget Circular A-11. (Cost indices
 escalation is not included).

CRM

RESEARCH ESTIMATE APPROVED:

(Asst. Director, Resource Studies)

(Date)

CONSTRUCTION ESTIMATE APPROVED:

ROBERT H. COOMBS
 SUPVR., PROJECT CONTROL & ESTIMATES

JUN 19 1969

For (Design Office Chief)
 INTERPRETIVE ESTIMATE APPROVED:

(Date)

(Asst. Regional Director, Operations)

(Date)

ESTIMATE TOTALS

RESEARCH	
Construction	27,520
Plans, Surveys, and Supervision	5,510
Contingencies	3,670
CONSTRUCTION SUB TOTAL	36,700
INTERPRETIVE SUB TOTAL (100%)	
GRAND TOTAL	36,700

PARK: JOSHUA TREE

Day Labor X
Contract

M-39-1

PCP Index No.

CLASS ☐ (A) - Estimate based on working Drawings
 CLASS ☐ (B) - Estimate based on preliminary plans
 CLASS ☒ (C) - Estimate based on similar facilities in other parks

P. S. & S. by

BPR ☐NPS ☒

FY 72

ESTIMATE

ITEM	QUANTITY	COST
Rehabilitate Springs @ \$2500 Ea. Assume FY 70 Construction	11	27,500
	SAY -----	27,520
NOTE: Estimate based on tele-con info from Park Supt. A recent job of spring rehabilitation cost \$2500. CRM 11-27-68		
Add 16% for FY 72 Construction Total construction for FY 72 -----		4,430 31,950
CRM 5-2-69		
RESEARCH ESTIMATE APPROVED:		
(Asst. Director, Resource Studies)	(Date)	
		
CONSTRUCTION ESTIMATE APPROVED:		
ROBERT H. COOMBS SUPVR., PROJECT CONTROL & ESTIMATES	MAY 5 - 1969	
(Design Office Chief)	(Date)	
For INTERPRETIVE ESTIMATE APPROVED:		
(Asst. Regional Director, Operations)	(Date)	
ESTIMATE TOTALS		
RESEARCH		
Construction.....75%.....		31,950
Plans, Surveys, and Supervision.....		6,390
Contingencies		4,260
CONSTRUCTION		
SUB TOTAL		42,600
INTERPRETIVE		
SUB TOTAL (100%)		
GRAND TOTAL		42,600

Form 10-411
(July 1965)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

PA WASO

PROJECT CONSTRUCTION PROPOSAL

DISTRIBUTION OF COPIES	
NO.	TO
1	WASO
1	WRO
2	AREA
2	DCSSC

1. STATEMENT OF MANAGEMENT'S REQUIREMENTS, PROPOSED WORK, AND ITS RELATIONSHIP TO OTHER FACETS OF THE PARK PROGRAM. (Provide detail data for "Management Information" on Form 10-411a, Supplemental Sheet and attach.)

Project Description:

Improve springs by opening outlets, and/or supplement by underground storage with fountain to supply water for wildlife.

Project Justification:

Frequent inspection trips to springs in Joshua Tree National Monument, and records kept on springs indicate that they are failing very badly, and that rehabilitation of these springs is becoming a very much needed improvement for the preservation of existing wildlife, or the existing wildlife will be lost because of spring failure. Most all of the springs in the Monument are dry, or are only weak seeps.

Springs to be Developed at This Time:

Quail Spring, Coxcomb Mt., Conejo Spring, Ruby Lee Well, and Red Rock Canyon.

2. ADVANCE REQUIREMENTS DATA

LAND STATUS Government owned	MASTER PLAN NO.	APPROVAL DATE
PCP NUMBERS OF PREVIOUSLY COMPLETE PORTIONS M-39	INTERRELATED & DEPENDENT PROJECT PCP NUMBERS	

INTERPRETIVE PROSPECTUS APPROVAL DATA

Protection of Wildlife**11/25/70 (RFD)**

WATER RIGHT NEEDS & STATUS

Survey by Office of Land and Water Rights. SSC

RESEARCH NEEDS & STATUS

Further research needed to coincide with long range program on types of water development.

OTHER

It would be more appropriate to study the following springs at this time:

Quail Spring, Coxcomb Mt., Conejo Spring, Ruby Lee Well, and Red Rock Canyon.

3. RECOMMENDED BY SUPERINTENDENT (Signature & Date)

(Sgd.) Wm. R. Supernaugh
Wm. R. Supernaugh NOV 25 1970

4. APPROVED BY REGIONAL DIRECTOR (Signature & Date)

(Sgd.) JOSEPH C. RUMBURG, JR. 12/15/70

5. LOCATION WITHIN AREA OR TERMINI

Throughout Joshua Tree National Monument

6. BLDG. OR RT. # AND SEC.

7. REGION

Western

8. PARK

Joshua Tree National Monument

9. PROJECT

Spring rehabilitation

Riverside

San Bernardino

(County)

California

(State)

10. PCP INDEX NO.

M-39-1

☐ (A) - Estimate based on working Drawings ☐ (B) - Estimate based on preliminary plans ☐ (C) - Estimate based on similar facilities in other parks	P. S. & S. by 4 BPR ☐ NPS ☐
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ITEM	QUANTITY	COST
Mitate Springs @ 2,500 each materials and services	11 each L. S.	\$27,500 4,450
Note: Estimate prepared from management requirements and information furnished by Superintendent on like project recently completed. G.D.S. 1/18/71		
CONSTRUCTION ESTIMATE APPROVED: (Asst. Director, Resource Studies) (Date)		ESTIMATE TOTALS RESEARCH 31,950 Construction 6,390 Plans, Surveys, and Supervision 4,260 Contingencies 42,600 CONSTRUCTION SUB TOTAL INTERPRETIVE SUB TOTAL (100%) 42,600 GRAND TOTAL
CONSTRUCTION ESTIMATE APPROVED: BRIAN J. ALLCOCK ESTIMATOR (Design Office Chief) SIGNED 25 JAN 1971 (Date)		
INTERPRETIVE ESTIMATE APPROVED: (Asst. Regional Director, Operations) (Date)		

Form 10-411
(July 1965)UNITED STATES
NAT. PARK SERVICE
DEPARTMENT OF THE INTERIOR

COPY TO

WHSO

DATE 12/4/68

FOR YOUR

INFORMATION DISTRIBUTION OF COPIES

WESTERN REGION

NO. INITIALS TO

6 Western Region
2 Area

PROJECT CONSTRUCTION PROPOSAL

1. STATEMENT OF MANAGEMENT'S REQUIREMENTS, PROPOSED WORK, AND ITS RELATIONSHIP TO OTHER FACETS OF THE PARK PROGRAM. (Provide detail data for "Management Information" on Form 10-411a, Supplemental Sheet and attach.)

Justification

Records filed at Monument Headquarters indicate a drastic decline in the available wildlife water supply from natural springs. Some springs are completely dry, others reduced to a mere seep. A guzzler type water development was installed at Stubbe Springs in June, 1968 to assure water during dry periods of the spring. A five year spring rehabilitation program has been proposed to develop eleven more springs, with the first priority for work going to Lost Palm Spring in the Cottonwood District and the Bare Tree Spring in the Covington area. Early construction may preserve the desert habitat.

(The Office of Land & Water Rights, SSC, 1960 Water Rights planning programs include \$500 under M&P and \$5,500 under construction for U.S.G.S. investigations. See memo Acting Chief Branch of Water Resources to Chief, LWSSC, 8/21/68, L54.)

2. ADVANCE REQUIREMENTS DATA

LAND STATUS

U. S. Gov't. Owned - National Park Service

MASTER PLAN NO.

APPROVAL DATE

PCP NUMBERS OF PREVIOUSLY COMPLETE PORTIONS

INTERRELATED & DEPENDENT PROJECT PCP NUMBERS

INTERPRETIVE PROSPECTUS APPROVAL DATA

DATE

WATER RIGHT NEEDS & STATUS

Survey by Office of Land and Water Rights, SSC

RESEARCH NEEDS & STATUS

Further research needed to coincide with long-range program on types of water development.

Construction records kept on guzzler type development at Stubbe Spring, contains valuable information for future development of this type. The Office of LWSSC tentative 1969 water rights planning program includes \$5,000 under B&U for studies and \$19,000 under construction for well drilling & USGS assistance. See memo Acting Chief Branch of Water Resources to Chief, LWSSC 8/21/68, L54.

3. RECOMMENDED BY SUPERINTENDENT (Signature & Date)

Wm. R. Superbaugh

9/30/68

4. APPROVED BY REGIONAL DIRECTOR (Signature & Date)

Raymond E. Mulvaney 11/4/68

5. LOCATION WITHIN AREA OR TERMINI

Springs located throughout the Monument

7. REGION

Western

8. PARK

Joshua Tree National Monument

9. PROJECT

Spring Rehabilitation (11 springs)

Riverside and
San Bernardino

(County)

California

(State)

10. PCP INDEX NO.

M-39

JOSHUA TREE N.M.		Day Labor		M-39	
CLASS ☐ (A) - Estimate based on working drawings	P.S. S. by				
CLASS ☐ (B) - Estimate based on preliminary plans	BPR ☐		NPS ☒ FY N/P		
CLASS ☒ (C) - Estimate based on similar facilities in other parks					
ESTIMATE					
ITEM		QUANTITY		COST	
 Rehabilitate Springs @ \$2500 Ea.		11		27,500	
		Say-----		27,520	
NOTE: Estimate based on tel-con info from Park Supt. a recent job of spring rehabilitation cost \$2500.					
RESEARCH ESTIMATE APPROVED:		ESTIMATE TOTALS			
(Asst. Director, Resource Studies) _____ (Date)		RESEARCH.....			
		Construction..... 75% 27,520			
		Plans, Surveys, and Supervision..... 5,510			
		Contingencies..... 3,670			
CONSTRUCTION ESTIMATE APPROVED:		CONSTRUCTION SUB TOTAL..... 36,700			
For (Design Office Chief) _____ (Date)		INTERPRETIVE SUB TOTAL (100%).....			
INTERPRETIVE ESTIMATE APPROVED:		GRAND TOTAL..... 36,700			
(Asst. Regional Director, Oper. i) _____ (Date)					

GSA DC 66-2827

Docket Information

Number of Documents in Docket 12

Documents Dated from 12/3/1968 to 9/13/1973

Docket Compiled: 4/19/2011