

WATER-RIGHT DOCKET

Russell Cave National Monument

Docket No: 1

WELL. MAIN PARK WATER SYSTEM

Administrative Agreements

00-00-0000: special use permit

1. *See* 11/14
2. *Cover*

FORM 10-11
(Rev. Oct. 1960)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SPECIAL USE PERMIT
Russell Cave National Monument

Mr. Oscar Ridley of Route 1, Bridgeport, Alabama is hereby authorized during the period from January 1, 1963 to December 31, 1963 to use the following-described land in the above-named area:

The location of the proposed pipeline is shown on the attached sketch (page 3). The proposed pipeline is to connect with the water system of Russell Cave National Monument about fifty feet southwest of residence number 1. It is to be routed around the west end of the residence access road and to the property line near Mr. Ridley's barn.

for the purpose of constructing a pipeline to connect his household water system with that of Russell Cave National Monument and to use water produced by the monument,

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 Five and No/100 Dollars (\$ 5.00) 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 Bridgeport, Alabama, this 10th day of October 1963.

The undersigned hereby accept: this permit subject to the terms, covenants, obligations, and reservations, expressed or implied herein.

TWO WITNESSES TO SIGNATURES		PERMITTEE'S SIGNATURE	
NAME	Dorothy Bradford	NAME	Oscar Ridley
ADDRESS	Bridgeport, Alabama	ADDRESS	Route 1, Bridgeport, Alabama
NAME	John A. Speer	NAME	
ADDRESS	Bridgeport, Alabama	ADDRESS	
APPROVED		DATE	
NAME		NAME	
ADDRESS		ADDRESS	

Sign names or initials as written in body of permit. For responsibility, permittee should sign and date permit. If permittee is a corporation, etc., should sign with the sufficiency of such signature being attested by its officers, directors, or other authorized persons.

This copy for the Record at Denver, Washington

... paragraph number 1 on page 2 of this permit.

... with the performance of (its) (his) obligation under any contract, the Permittee agrees as follows. **14-10-0131-984**

(1) The Permittee will not discriminate against any employee or applicant for employment because of race, sex, color, or national origin. The Permittee will take affirmative action to assure that applicants who are employed, and that employees are treated during employment, will not be regarded on their race, sex, color, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or assignment, transfer, recruitment or 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 Secretary setting forth the provisions of this section, and information on these.

(2) The Permittee will, in all solicitations or advertisements for employees placed by it or on behalf of the Permittee, state that all qualified applicants will receive consideration for employment without regard to race, sex, color, or national origin.

(3) The Permittee will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice of its obligations under this section, advising the said labor union or workers' representative of the Permittee's commitments under this section, 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. 10925 of March 6, 1961, and with the rules, regulations, and pertinent orders of the President's Committee on Equal Employment Opportunity created thereby.

(5) The Permittee will furnish all information and reports required by Executive Order No. 10450 of May 22, 1961, and by the rules, regulations, and orders of the said Committee, and permit access to (its) (his) books, records, and accounts by the Secretary and the Committee for purposes of investigation to assure compliance with such rules, regulations, and orders.

(6) In the event of the Permittee's non-compliance with the nondiscrimination clauses of this permit or with any of the said rules, regulations, or orders, this permit may be suspended in whole or in part and the Permittee may be declared ineligible for further Government permits in accordance with procedures authorized in Executive Order No. 10925 of March 6, 1961, and such other sanctions may be imposed and remedies invoked as provided in the said Executive Order or by rule, regulation, or order of the President's Committee on Equal Employment Opportunity, or as otherwise provided by law.

(7) The Permittee will include the provisions of the foregoing paragraphs (1) through (6) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the President's Committee on Equal Employment Opportunity issued pursuant to section 303 of Executive Order No. 10925 of March 6, 1961, 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 Secretary may direct as a means of enforcing such provisions, including sanctions for non-compliance. 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 Secretary, the Permittee may request the United States to enter into such litigation to protect the interests of the United States.

(continued on reverse side)

(b) The Permittee and (its) (his) employees shall not discriminate because of race, religion, color or national origin against any person by refusing to furnish such person any accommodation, facility, service, or privilege offered to or enjoyed by the general public. Nor shall the Permittee or (its) (his) employees publicize the accommodations, facilities, services, or privileges in any manner that would directly or inferentially reflect upon or question the acceptability of the patronage of any person because of race, religion, color, or national origin. The Permittee shall include and require compliance with a provision similar to the one contained in this subsection in any subcontract made with respect to the operations authorized hereunder.

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SPECIAL USE PERMIT CONTINUATION SHEET

AREA

Russell Cave National Monument, Bridgeport, Alabama

PERMIT NO.

14-10-02-31-984

PAGE NO.

23

Special Conditions (Continued)

16. The United States assumes no responsibility for the quality of the water supplied.

17. The permittee agrees and understands that he will make available at his residence an outlet to be used by the personnel of Russell Cave National Monument for fire suppression, and that the permittee's use of water is subject to prior needs of the United States.

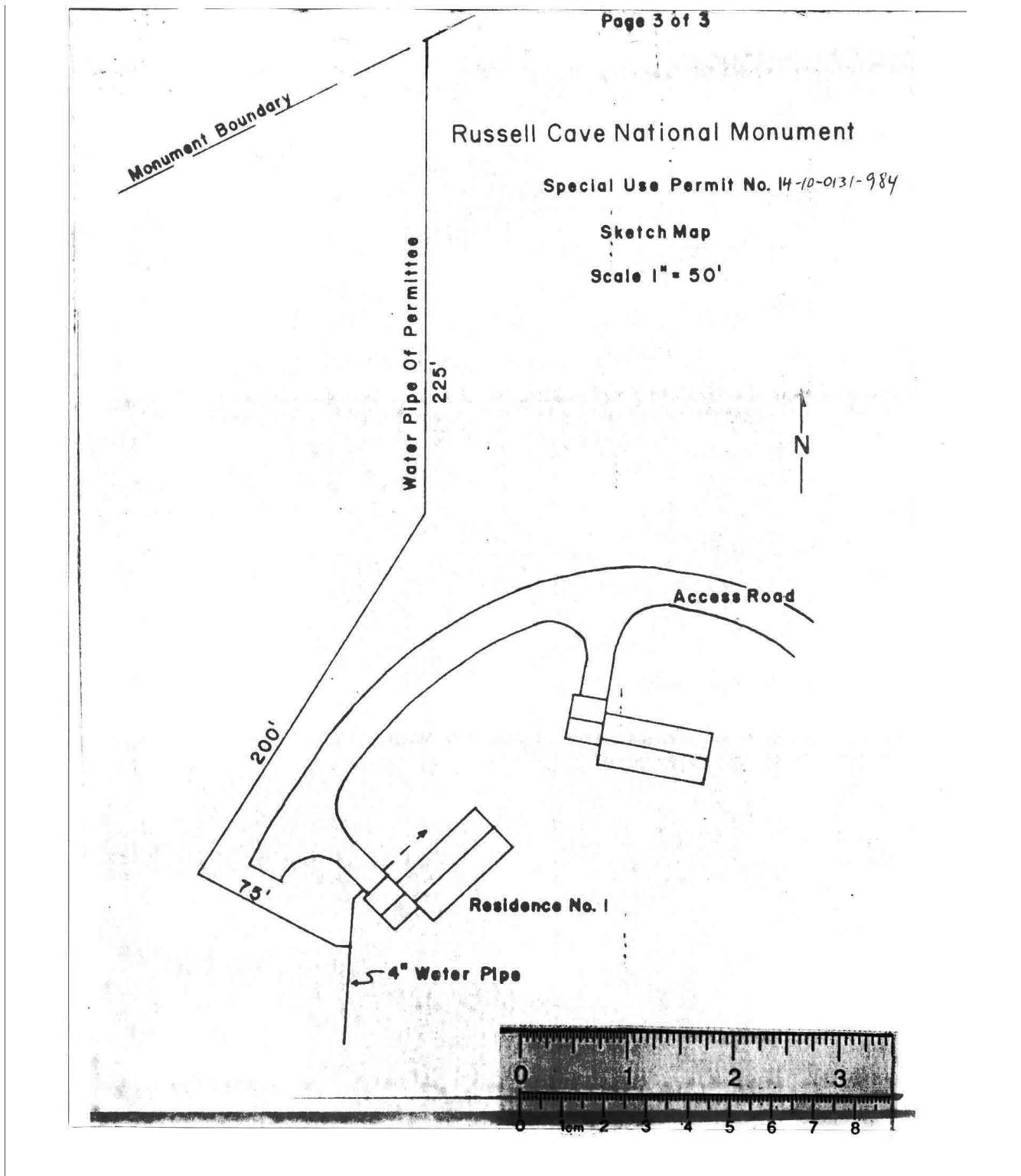
18. Any necessary construction or maintenance will be performed by the permittee or his agents at his expense, and in such manner as not to damage federal land or interfere with the use of such land.

19. Permittee shall and hereby does waive and release any and all claims against the United States of America or its employees for any and all damages, loss, or cost to person or property resulting either directly or indirectly from the use of said premises and/or from the exercise of the privilege granted by the permit.

20. Permittee agrees that no structure shall be erected on federal land and only one pipe line in ground shall be buried for a distance of about 500 feet extending from permittee's property to the water system of Russell Cave National Monument.

21. This permit shall be automatically renewable at its expiration for future periods of one year upon payment of five dollars (\$5.00) on January 1 of each year, unless extended in whole or in part longer than 10 years, or until December 31, 1974, unless extended in writing by the Director of the National Park Service.

22. The fee schedule established for this permit includes payment for water supplied by the Government to the permittee.



Supporting Hydro Data

SAMPLE LOG

Russell Cave National Monument, Jackson County, Ala.

Test Well

Driller: Dodson Drilling Co.

(Samples described by Charles Copeland, Geologist,
Geological Survey of Alabama)

	Thickness (feet)	Depth (feet)
<u>Sta. Genevieve Limestone</u>		
Clay, grayish-orange, sandy; limestone, medium light-gray, oolitic, fossiliferous, chert very light gray; gravel, varicolored, fine to medium size; limonite; crinoid stems.	15	15
Clay, grayish-orange, sandy; limestone, medium light-gray, oolitic, fossiliferous; chert, light-gray to medium-gray; gravel, varicolored, fine to medium size; limonite; crinoid stems and columnals.	12	27
Limestone, medium light-gray, oolitic, fossiliferous weathered; chert and gravel from above; crinoid columnals. Below 30 ft. includes Bryozoa fragments.	8	35
Limestone, greenish-gray, fine-grained, fossiliferous; limestone, light olive-gray, partly oolitic, fossiliferous; light brownish-gray, chert fragments; Brachiopods (cf. <u>Perditocardinia dubia</u> Hall), Bryozoa.	5	40
Limestone, greenish-gray, fine to medium crystalline, fossiliferous; limestone, light olive-gray, coarse-grained, partly oolitic, fossiliferous; crinoid stems.	5	45
Limestone, greenish-gray to light-gray, medium to coarsely crystalline, fossiliferous; chert, light-gray in minor amounts; fragmentary brachiopods and Bryozoa; crinoid stems.	5	50
<u>Gap</u>	5	55
Assorted wood fragments and plant remains.	3	58

	Thickness (feet)	Depth (feet)
<u>Ste. Genevieve Limestone--Continued</u>		
Sand, pale yellowish-orange, medium-grained, subangular, quartzitic; limestone, light-gray, finely crystalline; crinoid columnals; chalcedony.	2	60
Limestone, light-gray, saccharoidal; quartz grains from above; limestone, medium light-gray, finely crystalline.	5	65
Limestone, light-gray, saccharoidal; limestone, medium light-gray, finely crystalline; limonitic sandstone pebbles; chert fragments; chalcedony.	7	72
Gravel, pale yellowish-orange, composed of fine to medium size limonitic quartz sandstone pebbles; sand, pale yellowish-orange, medium to very coarse grained, quartzitic; chalcedony; clay in minor amounts.	3	75
<u>Gap</u>	1.5	76.5
Gravel, pale yellowish-orange, composed of fine to medium size limonitic quartz sandstone pebbles; sand, pale yellowish-orange, medium to very coarse grained, quartzitic; limestone, medium light-gray, finely crystalline; oolitic and saccharoidal limestone from above; chalcedony; crinoid stems; brownish-gray chert fragments. Below 80 ft. includes white to very light gray medium to coarsely crystalline limestone.	6.5	83
Limestone, white to very light gray, medium to coarsely crystalline; light bluish-gray chert.	8	91
Limestone, very light gray to light olive-gray, oolitic; large quartz grains; one doubly terminated euhedral quartz crystal noted.	4	95
Limestone, very light gray to light-gray, medium crystalline with glauconite trace.	4	99
Limestone, light-gray to light olive-gray, coarsely crystalline, partly oolitic; sandstone, pale yellowish-orange, quartzitic, limonitic, fine to medium grained, present in minor amounts.	6	105

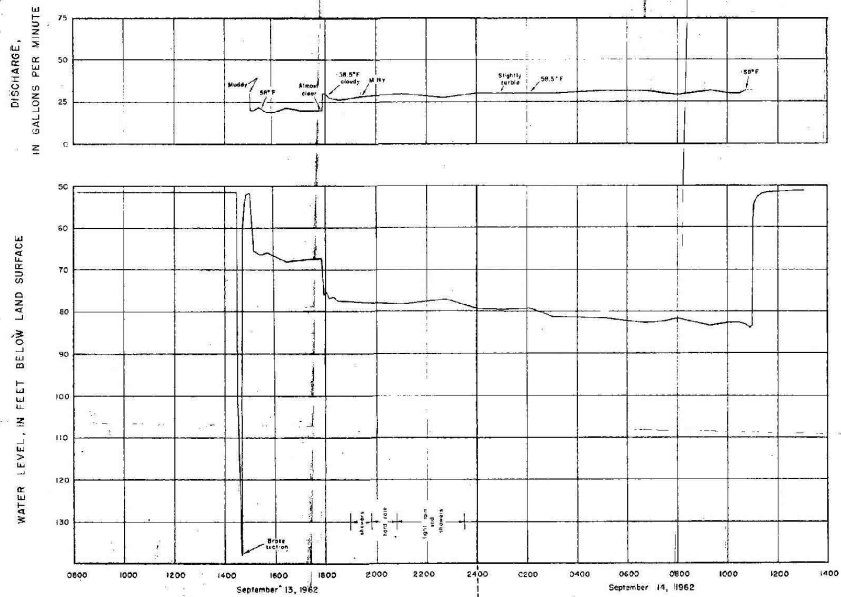
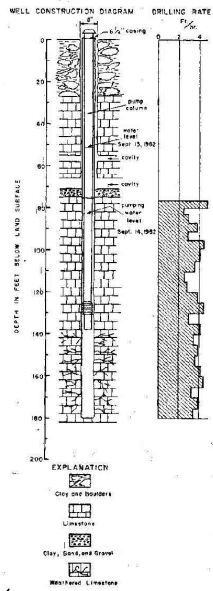
	Thickness (feet)	Depth (feet)
<u>Ste. Genevieve Limestone--Continued</u>		
Sandstone, pale yellowish-orange to moderate reddish-brown, fine to medium grained, quartzitic, limonitic; limestone, very light gray to light olive-gray, finely crystalline; limestone, light-gray to light olive-gray, coarsely crystalline, partly oolitic, chalcedony, large quartz grains; Bryozoa and brachiopod fragments; material is probably from a crevice.	10	115
<u>St. Louis Limestone</u>		
Limestone, medium light-gray, medium crystalline and material caved from above.	5	120
Limestone, medium light-gray to dark yellowish-brown, medium crystalline; chert, brownish-gray and light bluish-gray; and material caved from above.	5	125
Limestone, light olive-gray, silty (coarse silt size quartz particles) saccharoidal in appearance and white chert. Below 140 ft. includes crinoid stems and columns.	20	145
Limestone, light olive-gray to brownish-gray, silty, slightly dolomitic, saccharoidal in appearance; chert, white and light bluish-gray; light greenish-gray limestone fragments.	5	150
Limestone, very light gray to light olive-gray, medium crystalline, slightly weathered.	5	155
Limestone, very light gray to light olive-gray and brownish-gray, medium crystalline, slightly weathered. Below 160 ft. includes light bluish-gray chert.	15	170
Limestone, very light gray to light olive-gray and brownish-gray, medium to coarsely crystalline, slightly weathered.	5	175
Limestone, light olive-gray, silty, saccharoidal in appearance; limestone, light greenish-gray fragments; chert, light olive-gray and bluish-gray mottled.	5	180

NOTE

1. The brachiopods similar in appearance to *Perditocardinia dubia* (Hall) are quite small in size and are probably immature specimens. The lack of ornamentation characteristic of the species may be attributed to poor preservation and/or the immaturity of the specimens.

Reference: Index Fossils of North America, p. 355, pl. 139, figs. 30-34

2. The St. Louis Limestone contact was based on the first occurrence of a non-oolitic limestone sequence, which begins at 115 feet.



Graph showing fluctuation in water level during pumping of test well 1.

DRILLING REPORT

Dodson Drilling Co., Fayetteville, Tenn.

Test Well, Russell Cave National Monument
Jackson County, Tenn.

Date	Depth		Floor- age	Time		Period (minutes)	Log
	From	To		Begin	End		
9- 3-62	0	15	15	11:45A	---	---	Mud and crevice
	15	27	12	-----	---	---	Crevice and boulders
	27	30	3	-----	---	---	Lime
9- 4-62	30	35	5	8:20A	7:40A	80	Lime
	35	40	5	7:45	8:30	45	Lime
	40	45	5	8:35	9:40	65	Lime
	45	50	5	9:45	10:40	55	Lime
	50	55	5	10:45	11:50	65	Lost sample at Cave
	55	55	3	11:50	---	---	Cave, wood and hickory nuts.
9- 5-62	55	50	2	-----	2:00P	70	Lime, water level 55 ft.
	---	---	---	-----	---	---	Set 50.5 ft. of casing
	60	65	5	9:50A	9:15A	85	Lime
	---	---	---	---	---	---	Let stand from 8:15 to 11:00A. Dry hole.
9- 6-62	65	72	7	10:11	11:30	20	Cave from 68 to 72 ft.
	71	75	5	-----	---	---	Red and green
	---	---	---	---	---	---	Pulled casing - resumed 8-in. hole to 75 ft.
9- 6-62	---	---	---	-----	---	---	Set 75.5 ft. of casing
	75	80	4	9:25A	10:10A	45	Lime
	80	85	3	10:20	11:35	75	Lime
	82	87	4	11:40A	1:10P	90	Lime
	87	91	4	1:30P	2:35	65	Lime
9- 7-62	91	95	4	2:40	3:05	85	Lime
	---	---	---	-----	---	---	Water level 74 ft. Bailed mud, 14 gallons
	97	99	2	8:35A	9:30A	55	Lime
	99	100	1	8:40	9:10	30	Lime, bottom 124 ft. Water level 71 ft. Bailed dry, 10 gallons
	105	110	5	8:10	9:05	55	Lime. Bailed dry, 10 gallons. Set 110 ft. casing to 110 ft. of hole.
9- 7-62	110	115	5	11:10A	1:10P	120	Lime. Bailed dry, 35 gallons.

Date	Depth		Foot- age	Time		Period (minutes)	Log
	From	To		Begin	End		
9- 7-62	115	120	5	1:25P	3:15P	110	Lime
9-10-62	---	---	---	---	---	---	Water level 52 ft.
	120	125	5	8:30A	9:50A	80	Lime
	125	130	5	10:10	11:20	70	Lime
	130	135	5	11:30A	1:15P	105	Lime
	135	140	5	1:25P	2:40P	75	Lime
9-11-62	---	---	---	---	---	---	Water level 52 ft.
	140	145	5	6:15A	7:45A	90	Lime, very fine cuttings, made water
	145	150	5	7:55	9:15	80	Lime, weathered
	150	155	5	9:25	10:50	85	Lime, weathered
	155	160	5	11:00A	12:15P	75	Lime, soft, made water
	160	165	5	12:35P	1:45P	70	Lime
	165	170	5	1:55	3:30	95	Lime, made water
9-12-62	---	---	---	---	---	---	Water level 52.6 ft.
	170	175	5	6:10A	7:00A	80	Lime
	175	180	5	7:45A	9:15	90	Lime

Made water from 140 to 180 feet. Rocks falling in from 140 to 145 ft. as hole was drilled from 150 to 180 feet. Baller hung at 140 or 145 ft. several times.

**Chemical Analyses of Water Samples from Test Well
at Russell Cave National Monument**

Constituent or property	Sample 1	Sample 2	Sample 3
Temperature (°F)	58.5	58.5	58
Silica (SiO ₂)	5.8	5.8	5.8
Iron (In solution at time of analysis)	.04	.00	.00
Manganese (Mn)	.02	.01	.01
Calcium (Ca)	44	45	45
Magnesium (Mg)	7.3	6.7	6.7
Sodium (Na)	2.1	2.1	2.3
Potassium (K)	.8	.8	.8
Bicarbonate (HCO ₃)	143	144	150
Carbonate (CO ₃)	0	0	0
Sulfate (SO ₄)	18	18	18
Chloride (Cl)	1.7	1.9	2.3
Fluoride (F)	.2	.0	.2
Nitrate (NO ₃)	3	1.2	2.9
Phosphate (PO ₄)	.0	.0	.0
Boron (B)	.14	.05	.09
Dissolved solids	171	176	183
Tons per acre foot	.23	.24	.25
Hardness as CaCO ₃	140	140	140
Noncarbonate hardness as CaCO ₃	22	22	17
Percent sodium	3	3	3
Sodium absorption ratio	.1	.1	.1
Specific conductance (micromhos at 25°C)	278	277	279
pH	7.2	7.1	7.1
Color	0	0	0

Other Supporting Information



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

Little River Canyon National Preserve
P. O. Box 45
Fort Payne, Alabama 35967



L54 (RUCA)

August 27, 1996

MEMORANDUM

TO: Chief, Water Rights Branch
FROM: Superintendent, RUCA/LIRI
SUBJECT: Special Use Permit to Provide Water to Non-NPS Entities

We appreciate the question recently raised about a special use permit to provide water to a park neighbor at Russell Cave National Monument. No park employee from that time is still around to explain why such a permit was ever prepared. However, I can assure you that we provide no water to any non-NPS party at Russell Cave today. We consider the permit null and void; it has no applicability or effect in the operation of Russell Cave today.

We hope the above is adequate documentation and sets the record straight. If you have any questions, please give me a call.

William T. Springer
Superintendent

August 21, 1996

Note

To: RUCA Docket #001
From: Dan McGlothlin, Hydrologist, Water Rights Branch
Subject: August 21, 1996, Telephone Conversation with Bill Springer, Little River National Preserve

I had the above-captioned telephone conversation about the July 30, 1996, memo from Chief, Water Rights Branch to Superintendent, Russell Cave National Monument (RUCA). The two parks are managed jointly and Springer was responding to a copy of the memo he received from RUCA. Springer called to obtain clarification from the Water Rights Branch's request for a higher quality copy of a special use permit discovered in RUCA Docket #001 and to discuss the status of the special use. He said, to his knowledge, the permit was never effected and the permittee has deceased. I explained that the intent of the memo is for WRB to collect the most up-to-date information for its dockets. Springer indicated he would provide a written reply describing the status of the permit in question ("Ridley" permit, as he called it).



cc: 2380 - Hughes

Jeffrey C. Hughes

Dan McGlothlin

Owen Williams

adw
7/3

July 30, 1996

L54(2380)

RUCA/Water Rights

Memorandum

To: Superintendent, Russell Cave National Monument

From: Chief, Water Rights Branch

Subject: Special Use Permit to Provide Water to Non-National Park Service Entities

While reviewing the water rights dockets for National Park Service (NPS) Units, my staff discovered a copy of an old Special Use Permit (dated October 10, 1962, attached) in the Russell Cave National Monument (RUCA) docket. This Special Use Permit authorized the construction of a water supply pipeline from the RUCA water supply pipeline to a private residence located just outside the RUCA boundary to provide water to that residence. Our copy is difficult to read and has several illegible paragraphs. If you have a better copy or a current version, please provide us with a copy.

Our interest in this Special Use Permit arises because the NPS may be in violation of law and policy. Specifically, in regard to supplying water to non-NPS entities.

PL 91-383 authorizes the NPS to "enter into contracts for the sale or lease," to individuals, States or other political subdivisions, of water if "no reasonable alternative" sources are available and if such entities provide public accommodations or services to persons visiting the park. PL-94-458 amended PL 91-383 authorizing the NPS to enter into water sale or lease contracts "as long as such activity does not jeopardize or unduly interfere with the primary natural or historic resource of the area involved" in addition to the conditions stated above.

Current NPS standards of implementation (Special Directive 78-2) require the applicant to assess the effects of use of the water on the park's environment, administration, management and protection, and visitors in an Environmental Impact Statement in accordance with NPS Guidelines for Environmental Assessment and Statements. Permitted water use can only be granted, after Congressional committee review and concurrence for short term periods (one year or less), if it is determined that use of park water is in accordance with laws and regulations governing ownership of Federal water and rights, and if charges established allow recovery of the full cost of the water use in accord with 31 USC 483a and OMB Circular A-25.

An improved copy of the permit may allow the Water Resources Division to update its files with information that could justify the project. If such information is not contained in the permit, it will be necessary to determine whether or not the project meets the intent of policy and law. If you feel the park is supplying water to a private residence without the previously mentioned approvals, please feel free to contact either Jeff Hughes or Dan McGlothlin at (970) 225-3527 or (970) 225-3536 respectively, for assistance.

Attachment

cc: (All w/o Attachment)
Southeast Field Area, Assistant Field Director, Science, Natural Resources &
Ecosystem Management - Kimball
Appalachian Cluster Leadership Council Chair - Woods
Appalachian Cluster, SSO Superintendent - Bostic
Southeast Field Area, Water Resources Program Manager - Greiner
SOL (Washington D.C.) - Hanslin
2380 - Kimball, Flora, Jackson, McGlothlin, Hughes
FNP:JHughes:mf:7/30/96:S:\WRB\JCH\RUCA.MEM

10-10-1963
2. Cover

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SPECIAL USE PERMIT
Russell Cave National Monument

PERMIT NO. 10-10-31-264
PREVIOUS PERMIT NO. NONE

Mr. Oscar Ridley, of Route 1, Bridgeport, Alabama, is hereby authorized during the period from January 1, 1963, to December 31, 1963, to use the following-described land in the above-named area:

The location of the proposed pipeline is shown on the attached sketch (page 3). The proposed pipeline is to connect with the water system of Russell Cave National Monument about fifty feet southwest of residence number 1. It is to be routed around the west end of the residence access road and to the property line near Mr. Ridley's barn.

for the purpose of constructing a pipeline to connect his household water system with that of Russell Cave National Monument and to use water produced by the monument.

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 Five and No/100 Dollars (\$ 5.00) 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 Bridgeport, Alabama, this 10th day of October.

Lorito A. Bradley
Lorito A. Bradley, Superintendent

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

TWO WITNESSES TO SIGNATURES		*PERMITTEE (SIGNATURES)	
NAME	<u>Dorothy Bradford</u>	NAME	<u>Oscar Ridley</u>
ADDRESS	<u>Bridgeport, Alabama</u>	ADDRESS	<u>Route 1, Bridgeport, Alabama</u>
NAME	<u>John F. Spaul</u>	NAME	
ADDRESS	<u>Bridgeport, Alabama</u>	ADDRESS	

APPROVED (if approval is required by higher authority)

NAME _____ TITLE _____

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

(This copy for the Branch of Lands, Washington)

The following is the unclassified printed paragraph number 1 on page 2 of this permit.

Non-discrimination. In connection with the performance of (its) (his) obligations under this permit, the Permittee agrees as follows: 14-10-0131-984

(1) The Permittee will not discriminate against any employee or applicant for employment because of race, creed, color, 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, 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 Secretary 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 (it) (he) has a collective bargaining agreement or other contract or understanding, a notice to be provided by the Secretary, advising the said labor union or workers' representative of the Permittee's commitments under this section, 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. 10925 of March 6, 1961, and all the rules, regulations, and relevant orders of the President's Committee on Equal Employment Opportunity created thereby.

(5) The Permittee will furnish all information and reports required by Executive Order No. 10925 of March 6, 1961, and by the rules, regulations, and orders of the said Committee, or pursuant thereto, and will permit access to (its) (his) books, records, and accounts by the Secretary and the Committee for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the Permittee's non-compliance with the nondiscrimination clauses of this permit or with any of the said rules, regulations, or orders, this permit may be cancelled in whole or in part and the Permittee may be declared ineligible for further government permits in accordance with procedures authorized in Executive Order No. 10925 of March 6, 1961, and such other sanctions may be imposed and remedies invoked as provided in the said Executive Order or by rule, regulation, or order of the President's Committee on Equal Employment Opportunity, or as otherwise provided by law.

(7) The Permittee will include the provisions of the foregoing paragraphs (1) through (6) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the President's Committee on Equal Employment Opportunity issued pursuant to section 303 of Executive Order No. 10925 of March 6, 1961, 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 Secretary may direct as a means of enforcing such provisions, including sanctions for non-compliance. 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 Secretary, the Permittee may request the United States to enter into such litigation to protect the interests of the United States.

(continued on reverse side)

(b) The Permittee and (its) (his) employees shall not discriminate because of race, religion, color or national origin against any person by refusing to furnish such person any accommodation, facility, service, or privilege offered to or enjoyed by the general public. Nor shall the Permittee or (its) (his) employees publicize the accommodations, facilities, services, or privileges in any manner that would directly or inferentially reflect upon or question the acceptability of the patronage of any person because of race, religion, color, or national origin. The Permittee shall include and require compliance with a provision similar to the one contained in this subsection in any subcontract made with respect to the operations authorized hereunder.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE		
SPECIAL USE PERMIT CONTINUATION SHEET		
AREA	PERMIT NO.	PAGE NO.
Russell Cave National Monument, Bridgeport, Alabama	11-10-07 N-98	2

Special Conditions (Continued)

16. The United States assumes no responsibility for the quality of the water supplied.
17. The permittee agrees and understands that he will make available at his residence an outlet to be used by the personnel of Russell Cave National Monument for fire suppression, and that the permittee's use of water is subject to prior needs of the United States.
18. Any necessary construction or maintenance will be performed by the permittee or his agents at his expense, and in such manner as not to damage federal land or interfere with the use of such land.
19. Permittee shall and hereby does waive and release any and all claims against the United States of America or its employees for any and all damages, loss, or cost to person or property resulting either directly or indirectly from the use of said premises and/or from the exercise of the privilege granted by the permit.
20. Permittee agrees that no structure shall be erected on federal land and only one pipe 1 inch in diameter shall be buried for a distance of about 500 feet extending from permittee's property to the water system of Russell Cave National Monument.
21. This permit shall be automatically renewable at its expiration for future periods of one year each upon payment of five dollars (\$5.00) on January 1 of each year, but not expiring in any term longer than 10 years, or until December 31, 1974, unless extended in writing by the Director of the National Park Service.
22. The \$5.00 dollar annual fee for this permit includes payment for water supplied by the Government to the permittee.

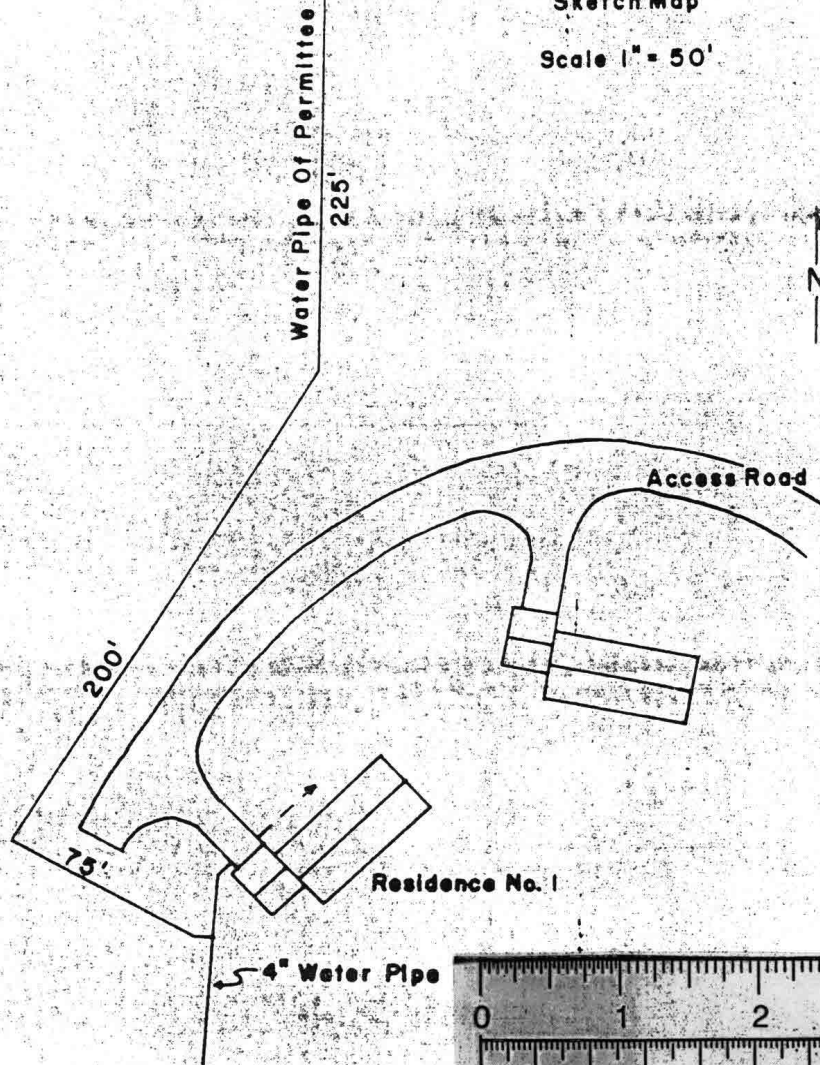
Monument Boundary

Russell Cave National Monument

Special Use Permit No. 14-10-0131-984

Sketch Map

Scale 1" = 50'





UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Southeast Region
Richmond 40, Virginia

WR copy
@ 11/14
Beit 10

IN REPLY REFER TO:

L54

27 1962

Memorandum

To: Director

From: Assistant Regional Director, Resource Planning, Southeast
Region

Subject: Production Well, Russell Cave

Mr. Reed's memorandum of October 22 requesting certain information on the completion of a production well at Russell Cave National Monument has been received.

The total cost of the production well in the amount of \$1,059 was charged directly to B&U Construction Account (B-3), consequently there will be no reimbursement to the Water Resources Account.

Mr. Sanford, U. S. Geological Survey Tuscaloosa Office, will prepare a final administrative report including the results of the pump test and other pertinent field data collected during the well drilling. After receiving this information a water docket will be prepared.

.(Signed)

Neal A. Butterfield

cc:
BODC
Supt., Russell Cave

RUSSELL CAVE

WR copy
10/23
WAB/67

October 22, 1962

LS4-RL

Memorandum

To: Regional Director, Southeast Region
From: Acting Chief, Branch of Water Resources
Subject: Production Well, Russell Cave

Mr. Butterfield's memorandum of September 26 to Chief, Eastern Office of Design and Construction, reports on the completion of a successful well at Russell Cave.

A docket assembly should be started, when time permits, to include the well log and pump test analysis and other pertinent data available.

Please advise this Office of the approximate amount the Water Rights construction account is to be reimbursed from B&W funds for the subject production well.

SIGNED

E. W. Reed

cc:
Superintendent, Russell Cave
Chief, EODC (2)
✓ Mr. Dunn

VABerté:ljc

✓



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Southeast Region
Richmond 40, Virginia

SEP 26 1962

IN REPLY REFER TO:

L54

Memorandum

To: Chief, NODC
From: Assistant Regional Director
Subject: Production Well, Russell Cave National Monument

District Geologist Powell, U. S. Geological Survey, Tuscaloosa, Alabama, advised Mr. Vick in a telephone conversation on September 17, that the well drilling contractor had completed the water well at Russell Cave National Monument. The 6-inch well was drilled to a depth of 182'. According to Mr. Powell the most productive water bearing zone and water of the best quality were located at the 140' level in fractured limestone.

A pump test was conducted on the well by the contractor starting at 2:40 p.m. September 13 and ending at 11:00 a.m. September 14, The well capacity was found to be 30 gallons per minute at a pumping level of 82.3'. After the pump test, the well was allowed to recover and the static water level was measured at 82'. Mr. Powell recommended that the bottom of the pump be set at 138'.

A water sample was collected from the well for chemical analysis and the results of this analysis will be available within the next two weeks. This information will be forwarded to you as soon as it is received in this office.

Neal A. Butterfield
Assistant Regional Director

Copy to: Director
Supt., Russell Cave

than 50 feet. It is reported to yield "dingy-colored" water after hard rains, indicating surface drainage. The spring at Russell Cave reacts in a similar way, and the results of bacteriological analyses indicate the water is polluted. The general southeastward movement of ground water at the park is controlled by topography and dip of the rocks.

The second phase of the investigation indicated that water of adequate quantity and satisfactory chemical and bacteriological quality is available, provided the well is properly constructed. The site for drilling the test hole was selected based on convenience to park planning and the location of known caves, which are a source of surface pollution. The test hole was drilled to 180 feet and cased to 75.5 feet. Two shallow solution cavities were sealed off; the water in the upper cavity, from 55 to 58 feet, was polluted from surface sources, as indicated by wood fragments and plant remains. The lower cavity, from 66 to 72 feet, was cased because of caving clay, sand, and gravel. Water was developed in a zone of broken limestone from 140 to 180 feet. The drilling report by Dodson Drilling Co., and the sample description by Charles Copeland, Geological Survey of Alabama, are attached.

The results of a bail test on the test well indicated a potential yield of at least 30 gpm (gallons per minute). The test well was pumped on September 13-14, 1962, for 20 hours to accurately determine the yield to be expected. The results of the test pumping indicate that the well can be pumped at 20 gpm with a pumping level of less than 90 feet. A graph of the data from the pumping test and a construction diagram of the well at the time of the test are attached. Three water samples, for chemical analyses, were collected during the pumping test: sample 1 collected 3 hours after pumping started, sample 2 collected 11 hours after pumping started, and sample 3 collected at the end of the 20-hour test. The chemical analyses are enclosed for reference. The results of the analyses indicate the water is hard, low in dissolved solids and of satisfactory chemical quality for public supply.

Pollution was the most important problem considered in the drilling and construction of the test hole. The casing is sealed around the bottom by clay, sand, and gravel in the lower cavity preventing contamination entering the well bore from the upper cavity. Cement grout placed around the casing from the surface to 27 feet below land surface would prevent infiltration of surface water around the outside of the casing.

It would be advisable to plan facilities for sewage and waste disposal as far east or south of the well as is economically feasible, since the general movement of ground water is southeast.

The pump intake setting, based on a pumping rate of 20 gpm, seasonal changes in water level anticipated at Russell Cave, the estimated drawdown of water level in the well during pumping, and the character of the aquifer, should be at a depth of about 130 feet.

Water from the well was never completely clear during the pumping test; however, the cloudy or turbid appearance was caused by development of the aquifer rather than surface-water pollution. An intense rain during the test did not cause any noticeable change in the turbidity.

Sincerely yours,

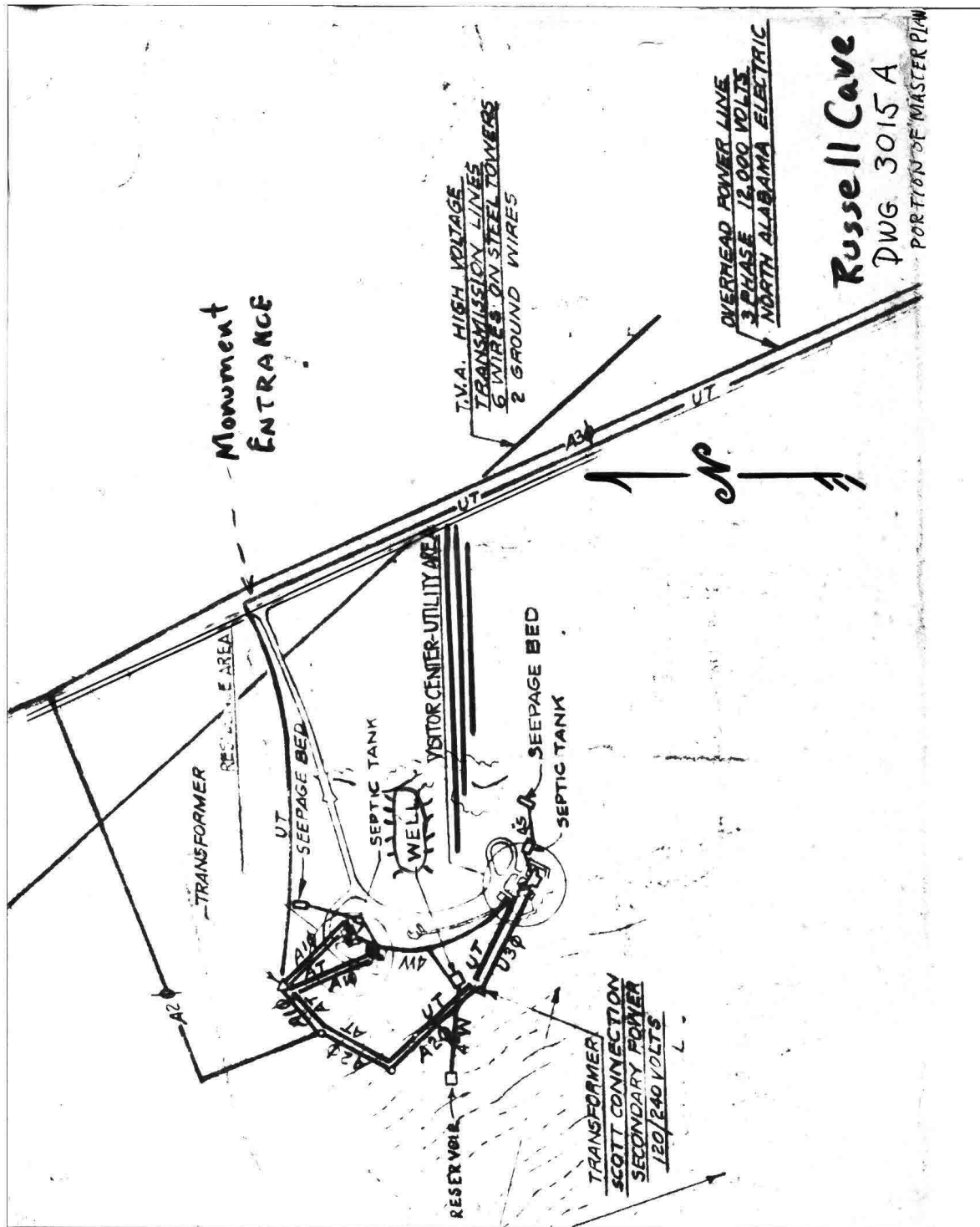
For the District Geologist
William J. Powell

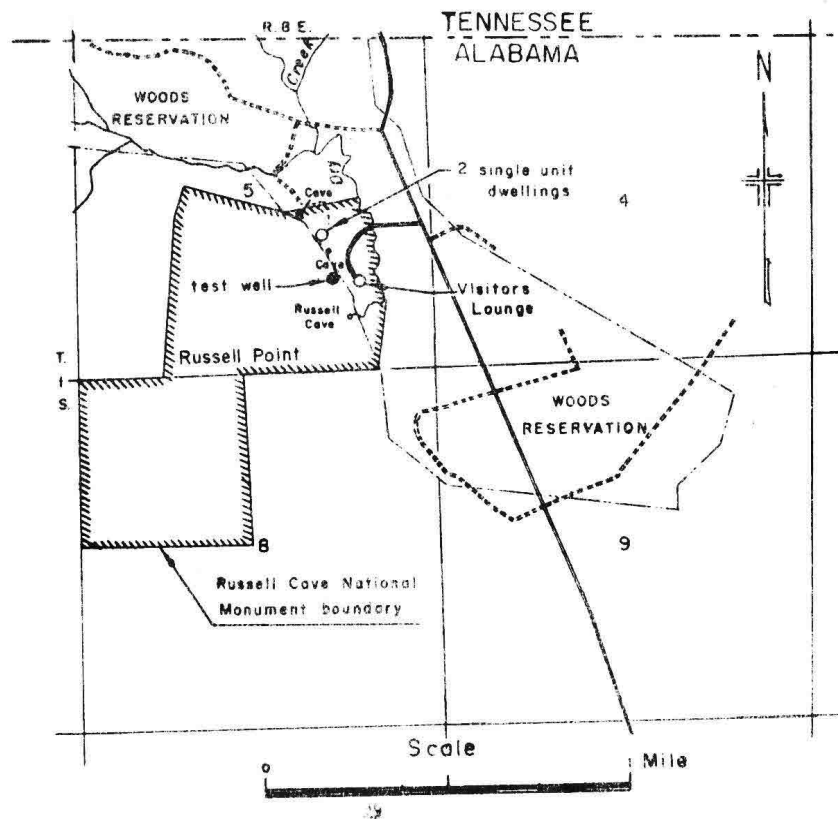
Thomas H. Sanford, Jr.
Geologist

Enclosure (6)

cc:

Division Hydrologist, MCA
Chief, Ground Water Branch 4053 0001
Branch Area Chief, GW, MCA
Zoro Bradley





Sketch map of Russell Cave National Monument,
Jackson County, Alabama

Docket Information

Number of Documents in Docket 30

Documents Dated from 6/15/1962 to 8/27/1996

Docket Compiled: 6/16/2011