



WATER-RIGHT DOCKET

Curecanti National Recreation Area

Docket No: 3

STEVENS CREEK WELL

Preliminary Docket Information

10-29-1980: water right record ; october 29, 1980

WATER RIGHT RECORD

Park: CURE

Docket Number:

Federal #3

IDENTIFICATION NO: CURE W 2 1 4 9 0 2 A F 0 3

DITCH/WATER SYSTEM: Stevens Creek

SOURCE OF SUPPLY: Well

LOCATION: SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 21, R49N, R2W NMPM
830 ft. from North section line
210 ft. from West section line

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number:

Certificate Record Number:

Date of Priority: 10/29/80

Quantity of Water: 15 gpm

Purpose: Recreational

Irrigated Land Description:

SUMMARY OF STATUS: Recreational use, campground, stand pipe use only, no plumbing or rest room use, therefore, no sewage disposal required.
6 inch plain casing to 68 feet
6 inch perforated casing from 68 to 88 feet.
Depth of well 125 feet.

WRJ-5-Rev. 76

COLORADO DIVISION OF WATER RESOURCES
 818 () Bldg., 1313 Sherman St., Denver, Col. 80203

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in **BLACK INK**. No overstrikes or erasures unless initialed.

FOR: ☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☒ A PERMIT TO INSTALL A PUMP
☐ REPLACEMENT FOR NO. _____
☐ OTHER _____
 WATER COURT CASE NO. _____

RECEIVED

MAR 10 1981

 WATER RESOURCES
 STATE ENGINEER
 COLO
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APR 17 1981

 WATER RESOURCES
 STATE ENGINEER
 COLO

(1) APPLICANT - mailing address
 United States of America, Dept. of the
 Interior, National Park Service
 NAME Rocky Mountain Region
 STREET P.O. Box 25287, 655 Parfet St.
Denver, Colorado 80225
 CITY _____ (State) _____ (Zip)
 TELEPHONE NO. 234-5787

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. _____ / 66426

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPROVED FOR DRINKING AND SANITATION IN A RECREATIONAL FACILITY.

(2) LOCATION OF PROPOSED WELL

County Gunnison
 NW 1/4 of the NW 1/4 Section 21
 Twp. 49 N Rng. 2 W NM P.M.
 (N.S.) (E.W.)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 15
 Average annual amount of ground water to be appropriated (acre-feet): 1.6
 Number of acres to be irrigated: None
 Proposed total depth (feet): 125
 Aquifer ground water is to be obtained from:
unknown

Owner's well designation Stevens Creek**GROUND WATER TO BE USED FOR:**

☐ HOUSEHOLD USE ONLY - no irrigation (0)
☐ DOMESTIC (1) ☐ INDUSTRIAL (5)
☐ LIVESTOCK (2) ☐ IRRIGATION (6)
☐ COMMERCIAL (4) ☐ MUNICIPAL (8)
☒ OTHER (9) Recreational

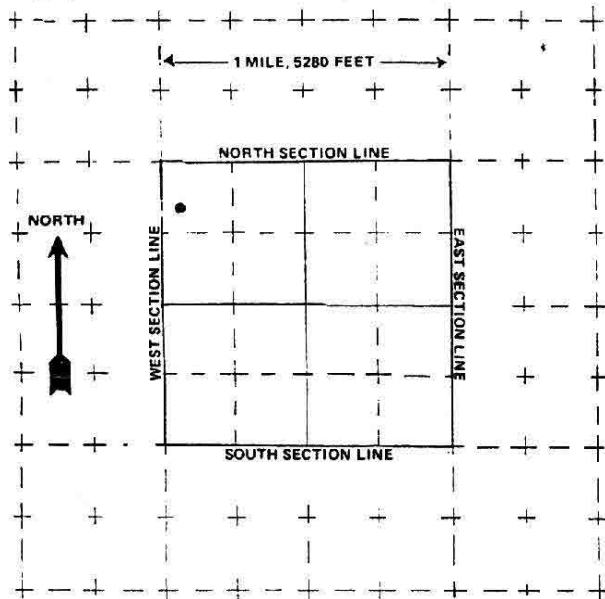
DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Kuchler's Water Wells
 Street 1560 6450 Road
 City Montrose CO 81401
 (State) (Zip)
 Telephone No. 249-9134 Lic. No. 864

OWNER'S COPY**APPLICATION APPROVED**PERMIT NUMBER 119675DATE ISSUED MAY 11 1981EXPIRATION DATE MAY 11 1983
 BY Robert G. Longenecker
 (STATE ENGINEER)
BY AssistantI.D. 4-59 COUNTY 26

(5) THE LOCATION OF THE PROPOSED WELL and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) = 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot = 43,560 cubic feet = 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) THE WELL MUST BE LOCATED BELOW distances from section lines.

830 ft. from North sec. line
(north or south)
210 ft. from West sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner United States of America

No. of acres 34 Will this be the only well on this tract? Yes

(8) PROPOSED CASING PROGRAM

Plain Casing

6 in. from 0 ft. to 68 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

6 in. from 68 ft. to 88 ft.

_____ in. from _____ ft. to _____ ft.

(9) FOR REPLACEMENT WELLS give distance and direction from old well and plans for plugging it:
N/A

(10) LAND ON WHICH GROUND WATER WILL BE USED:

Owner(s): United States of America

No. of acres: _____

Legal description: Curecanti National Recreation Area

(11) DETAILED DESCRIPTION of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used. Recreational use - campground, stand pipe use only, no plumbing or

rest room use, therefore, no sewage disposal required.

(12) OTHER WATER RIGHTS used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used

(13) THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.

Wes Wolfe Acting Assoc. Regional Director, Park Operations
SIGNATURE OF APPLICANT(S)

Use additional sheets of paper if more space is required.

WR-128-72F

CC - CO DIVISION OF WATER RESOURCES

300 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE-
ON. TYPE OR PRINT IN BLACK
INK.

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER _____

WELL OWNER National Park Service _____ % of the _____ % of Sec. _____ADDRESS Curecanti National Recreation Area _____ R. _____ P.M. _____DATE COMPLETED 10-29-80, 19 _____Stevens Creek Well
WELL LOG

From	To	Type and Color of Material	Water Loc.
0	10'	~~Soil~~ Soil, Sand & Gravel	
10'	88'	consolidated sand, gravel, & cobbles	23.4' to 88'
88'	125'	Sandstone & Shale Lenses Green & Red Shales (Morrison Formation)	
TOTAL DEPTH <u>125</u>			

Use additional pages necessary to complete log.

HOLE DIAMETER

8 in. from 0 to 88 ft.6" in. from 88 to 125 ft.

_____ in. from _____ to _____ ft.

DRILLING METHOD Air Rotary

CASING RECORD: Plain Casing

Size 6" & kind Steel from 0 to 88 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing

Size 6" & kind Steel from 88 to 88 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD

Material _____

Intervals _____

Placement Method _____

GRAVEL PACK: Size _____

Interval _____

TEST DATA

Date Tested 10-29-80, 19 _____Static Water Level Prior to Test 23.4' ftType of Test Pump Elect. SubmersibleLength of Test 8 hrs.Sustained Yield (Metered) 38 G.P.M.

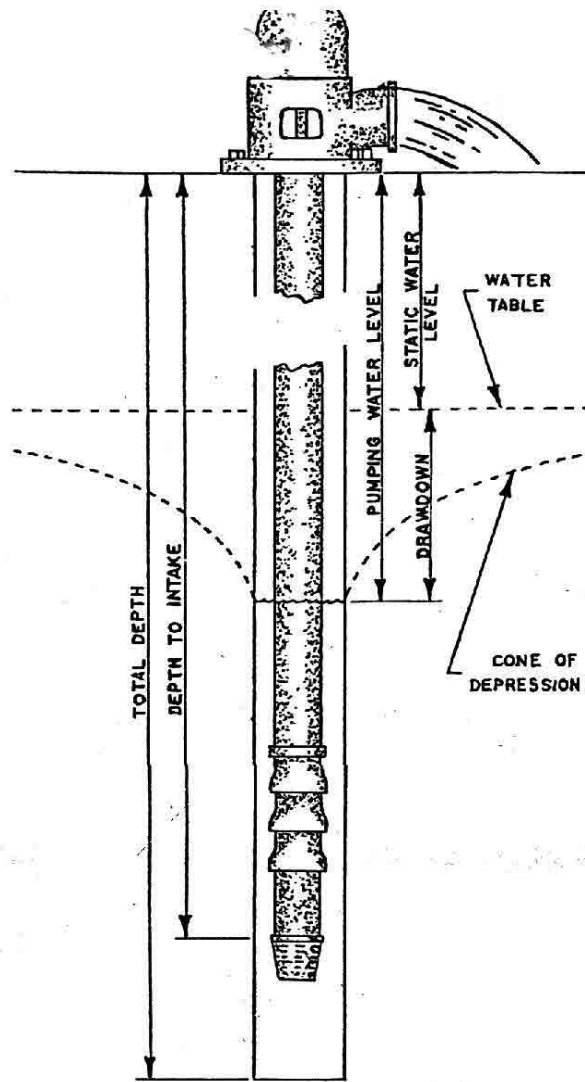
Final Pumping Water Level _____

PUMP INSTALLATION REPORT

Pump Make _____
 Type _____
 Powered by _____ HP _____
 Pump Serial No. _____
 Motor Serial No. _____
 Date Installed _____
 Pump Intake Depth _____
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested _____
 Static Water Level Prior to Test _____
 Length of Test _____ Hours
 Sustained yield (Metered) _____ GPM
 Pumping Water Level _____
 Remarks _____



CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Richard L. Kuchler License No. 864

State of Colorado, County of _____ SS

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

My Commission expires: _____, 19 _____.

Notary Public _____

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

Supporting Hydro Data

DRILLING LOG		DIVISION		INSTALLATION		SHEET OF SHEETS	
1. PROJECT <i>Curiganti National Reservation</i>				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station) <i>Stevens Creek West</i>				11. DATUM FOR ELEVATION SHOWN (FBM or MSL)			
3. DRILLING AGENCY <i>Mucklers Water Wells</i>				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED ☐ UNDISTURBED ☐	
5. NAME OF DRILLER <i>Louis Muckler</i>				14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED _____ COMPLETED _____	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING %	
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR <i>R. S. Muckler</i>			
9. TOTAL DEPTH OF HOLE <i>125'</i>							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	10'		Soil sand + gravel			Water Table 23.4	
	20'		Unconsolidated sand, gravel, & cobbles			Drilled 6" from 0 to 125'	
	30'					Reamed 8" to 88'	
	40'						
	50'					6" Steel Casing from 0 to 88'	
	60'					Perforated from 68' to 88'	
	70'						
	80'						
	90'		88'			Water Make from 23' to 88'	
	100'		Sandstone + Shale Layers				
	110'		Coarsest Red + Gray Shales (Morrison Formation)				
	120'		125'				
	130'						

DRILLING LOG		DIVISION		INSTALLATION		SHEET OF SHEETS	
1. PROJECT Curecanti National Recreation Area				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station) Stevens Creek Well				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY Kuchlers Water Wells				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER Louis Kuchler				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE			
9. TOTAL DEPTH OF HOLE 125'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drifting time, water loss, depth of weathering, etc., if significant) g	
	10		Soil, Sand & Gravel			Water table 23.4	
	20					Drilled 6" from 0 to 125' Reamed 8" to 88'	
	30						
	40		Unconsolidated Sand, Gravel and Cobbles			6" Steel casing from 0 to 88'	
	50						
	60					Perforated from 68' to 88'	
	70						
	80					Water make from 23' to 88'	
	90						
	100		Sandstone & shale lawyers Green & red & gray shale (Morrison formation)				
	110						
	120						
	130						

WATER WELL CX 1200-0-9007 29 1980
 STEVENS CREEK WELLSITE #2A

(3) (CONT.)

90'-95' 90% LT. PURPLE FINE GRAIN SANDSTONE
 10% GRAY YELLOW SHALE ; MUDDSTONE
 95'-100' 100% YELLOW ; BROWN SANDSTONE FINE GRAIN
 100'-105' 30% YELLOW FINE GRAIN SANDSTONE
 70% RED-PURPLE GREEN SANDSTONE FINE GRAIN
 105'-110' 100% GREEN ; RED-PURPLE ~~GRAY~~ FINE GRAIN
 SANDSTONE
 110'-115' 100% RED-PURPLE FINE GRAIN SANDSTONE
 115'-120' 100% RED-PURPLE AND GREY FINE GRAIN
 SANDSTONE
 120'-125' SAME AS ABOVE

PUMP TEST STEVENS CREEK WELLSITE #2A

TIME	GPM	DRAW DOWN	RECOVERY RATE
1	37	27	26
2	37	27	25
3	37	27 [±]	24 [±]
4	37	27 [±]	24 [±]
5	36 [±]	28	24 [±]
7	37	28 [±]	
10	39	25 [±]	
15	39 [±]	29	
20	40 [±]	29	
25	40 [±]	29	
30	40 [±]	30 [±]	

(CONT.)

Richard S. Lynn

WATER WELL CX 1200.0-9007 OCT 29 1980
 STEVENS CREEK WELL SITE #2A

(4) (cont)

TIME	GPM	DRAW DOWN	RECOVERY RATE
40	39 [±]	30 [±]	
50	39 [±]	30 [±]	
60	39 [±]	30 [±]	
75	38 [±]	30 [±]	
90	38 [±]	30 [±]	
105	38 [±]	30 [±]	
120	38 [±]	30 [±]	
3 hr	38 [±]	30 [±]	
4 hr	38 [±]	29 [±]	
5 hr	38 [±]	29 [±]	
6 hr	38 [±]	29 [±]	
7 hr	38 [±]	30 [±]	
8 hr	38 [±]	30 [±]	

NOTE: FOR PUMP TEST PUMP WAS SET AT 55'
 18,796 GALS WERE PUMPED IN 8 hrs

Michael S. Lynn

1100 Simms Street
Lakewood, Colorado
Phone (303) 233-8155

EARTH



AIR

Mailing Address:
1100 Simms Street
Golden, Colorado 80401

December 5, 1980

Job: 0113

WATER

NATURAL RESOURCES LABORATORY, INC.

Jack Wendleton
National Park Service
655 Parfet Street
P.O. Box 25287
Denver, Colorado 80225

REPORT OF ANALYSES

Sample water Analyses	Stevens Creek	East Elk
As mg/l	0.002	0.002
Ba mg/l	<0.1	<0.1
Cd mg/l	<0.001	<0.001
Cr mg/l	0.004	<0.001
Pb mg/l	0.005	<0.005
Hg mg/l	<0.0001	<0.0001
NO ₃ as N mg/l	1.2	0.02
Se mg/l	<0.002	<0.002
Ag mg/l	0.001	<0.001
F ⁻ mg/l	0.4	0.4
Cl ⁻ mg/l	8.	<2.
Cu mg/l	0.052	<0.001
TDS* mg/l	260.	170.
Fe mg/l	0.10	0.20
Mn mg/l	<0.1	0.2
SO ₄ ⁼ mg/l	35.	30.
Zn mg/l	<0.002	0.014
CO ₃ ⁼ mg/l	<2.	17.
HCO ₃ ⁼ mg/l	190.	100.
S ⁼ mg/l	**	**
pH	7.6	9.2

Full sample description: Stevens Creek - Well #2A, Curecanti NRA CX-1200-0-9007
East Elk - Well #7, CX 1200-0-9007

* by calculation from specific conductance

Thank you

** No preserved sample was received for S⁼ analysis

Beth Madden

Beth Madden

ANALYTICAL SERVICES AND RESEARCH

Docket Information

Number of Documents in Docket 10

Documents Dated from 10/29/1980 to 3/10/1981

Docket Compiled: 2/15/2011