



WATER-RIGHT DOCKET

Theodore Roosevelt National Park

Docket No: 8

HEADQUARTERS WELL, NORTH UNIT

Preliminary Docket Information

00-00-0000: water right record

WATER RIGHT RECORD

Park: THRO

Docket Number:
Federal #8

IDENTIFICATION NO: THRO, W, 3, 5, 148, 9, 9, A, F, 0, 8

DITCH/WATER SYSTEM: Headquarters, North Unit

SOURCE OF SUPPLY: Well

LOCATION: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35, T148N, R99W

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: 1193

Certificate Record Number:

Date of Priority: June 19, 1964

Quantity of Water: .025 c.f.s. Irrigation, .002 c.f.s. Domestic

Purpose: Domestic, fire protection and irrigation

Irrigated Land Description:

SUMMARY OF STATUS: This is a Federal water right consisting of a well

Well drilled in 1935.

Application to Appropriate Water was filed June 19, 1964. Approved July 23, 1964.

North Unit Hedgecroft well

STATE OF NORTH DAKOTA
BOARD OF WATER WELL CONTRACTORS
900 E. BOULEVARD • BISMARCK, NORTH DAKOTA 58501

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Board of Water Well Contractors within 30 days after completion or abandonment of the well.

WELL OWNER
Name Theodore Roosevelt National Park
Address Medora, N. Dak. 58645

WELL LOCATION
Sketch map location must agree with written location.

NORTH

County McKenzie
1/4 1/4 1/4 Sec. 35 Twp. 143 N. Rg. 99 W.

PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Industrial
☐ Stock ☐ Municipal ☒ Test Hole

METHOD DRILLED
☐ Cable ☐ Reverse Rotary ☐ Bored
☐ Forward Rotary ☐ Jetted ☐ Other
If other, specify _____

WATER QUALITY
Was a water sample collected for chemical analysis?
☐ Yes ☐ No
If so, to what laboratory was it sent _____

WELL CONSTRUCTION
Diameter of hole _____ inches. Depth _____ feet.
Casing: ☐ Steel ☐ Plastic ☐ Concrete
☐ Threaded ☐ Welded ☐ Other
If other, specify _____
Pipe Weight: _____ Diameter: _____ From: _____ To: _____
_____ lb/ft. _____ inches _____ feet _____ feet
_____ lb/ft. _____ inches _____ feet _____ feet
_____ lb/ft. _____ inches _____ feet _____ feet
_____ lb/ft. _____ inches _____ feet _____ feet
Was perforated pipe used? ☐ Yes ☐ No
Length of pipe perforated _____ feet
Was casing left open end? ☐ Yes ☐ No
Was a well screened installed? ☐ Yes ☐ No
Material _____ Diameter _____ inches
(stainless steel, bronze, etc.)
Slot size _____ set from _____ feet to _____ feet
Slot size _____ set from _____ feet to _____ feet
Slot size _____ set from _____ feet to _____ feet
Slot size _____ set from _____ feet to _____ feet
Was a packer or seal used? ☐ Yes ☐ No
If so, what material _____
Type of well: Straight screen ☐ Gravel packed ☐
Was the well grouted? _____ Yes ☐ No ☐
To what depth? _____ feet
Material used in grouting _____
Well head completion: Pitless adapter _____
12" above grade _____ Other _____
If other, specify _____
Was well disinfected upon completion? ☐ Yes ☐ No

7. WATER LEVEL
Static water level _____ feet below land surface
If flowing: closed-in pressure _____ psi
GPM flow _____ through _____ inch pipe
Controlled by: ☐ Valve ☐ Reducers ☐ Other
If other, specify _____

8. WELL TEST DATA
☐ Pump ☐ Bailor ☐ Other _____
Pumping level below land surface: _____
_____ ft. after _____ hrs. pumping _____ gpm
_____ ft. after _____ hrs. pumping _____ gpm
_____ ft. after _____ hrs. pumping _____ gpm

9. WELL LOG

Formation	Depth (ft.)	
	From	To
Brown & yellow shale	0	14
Coal (slack)	14	15
Brown & yellow shale	15	25
Gray shale	25	30
Coal	30	31
Gray shale	31	39
Sandstone, gray	39	41
Gray shale	41	59
Coal	59	60
Gray shale	60	70
Gray shale, sandy	70	75
Sandstone	75	79
Sand, gray, fine, clayey	79	88
Coal	88	89
Gray shale	89	98
Sandstone	98	101
Gray shale	101	190
Coal	190	204
Gray shale	204	231
Coal	231	236
Gray shale	236	244
Sandstone	244	249
Gray shale	249	262
Coal w/shale layers	262	270
Gray shale	270	300

(cont'd)

(Use separate sheet if necessary.)

10. DATE COMPLETED December 17, 1980

11. WAS WELL PLUGGED OR ABANDONED?
☒ Yes ☐ No
If so, how _____

12. REMARKS:

13. DRILLER'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge.
Gregory Drilling Company 144
Driller's or Firm's Name
1077 2nd Ave. Dickinson, N. D. Certificate No.
Address
Signed by Gregory Drilling Company 12/22/80

Gray shale, sandy	300	309
Brown shale w/coal layers	309	312
Gray shale	312	332
Shale light brown	332	336
Coal	336	339
Gray shale	339	360
Sand, gray fine	360	365
Brown shale	365	389
Sandstone	389	390
Gray shale	390	400

Document No. 174430

Office of State Engineer
STATE OF NORTH DAKOTAWater License No. 1193

Permit No. 1193 Priority Date June 19, 1964
 Name of Permit Holder National Park Service, United States of America, Department of the Interior
 Address Medora, North Dakota
 Source of Water Ground Water Supplies (North Unit Headquarters Well)
 Quantity of Water Approved in Permit 3.8 acre-feet Nature of Use Domestic, Fire Protection, and Irrigation
 Date Application Approved and Permit Issued July 23, 1964
 Date Certificate of Completion Issued October 19, 1964 Date Water Beneficially Used 1964

This is to certify that the holder(s) of the permit to divert and appropriate water as indicated above has completed construction of the works as set forth therein and evidenced by the Certificate of Completion issued by me on October 19, 1964, and that the holder(s) of said permit did, on the 31st day of July, 1964, submit proof of the application to beneficial use of 3.8 acre feet of water for the following purpose

Domestic, Fire Protection and Irrigation

Now, therefore, by virtue of the authority vested in me by the laws of the State of North Dakota, I hereby grant and confirm to the National Park Service of Medora, North Dakota holder of said Permit No. 1193, a right dating from June 19, 1964 to appropriate and divert from a point located in the NW 1/4 Sec. 35, Twp. 148N., Rge. 99W., a quantity of water limited to the amount that can be beneficially used herein, but not to exceed 3.8 acre feet annually for Domestic, Fire (purpose) Protection and Irrigation and if purpose is irrigation, water is to be applied to the following lands to which this water right is appurtenant:

Sec.	Twp.	Rge.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Total
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
35	148N	99W							2										2

Estimated return flow to stream

This water right is subject to the limitation on the use of water as set forth in the laws of this State and to the rights of prior claimants recognized under the laws of North Dakota, and to the following additional limitations

The right to use water for irrigation set forth herein is limited to the above described lands and is subject to cancellation for nonuse.

WITNESS my hand and seal at Bismarck, North Dakota, this 30th day of November, 1964.

(SEAL)

STATE OF NORTH DAKOTA)
 COUNTY OF BURLEIGH)SS

Milo W. Hoisveen
 State Engineer
 State of North Dakota

On this 30th day of November, 1964, before me a notary public, personally appeared Milo W. Hoisveen, known to me to be the same person who executed the Water License and acknowledged to me that he executed the same.

Ronald J. Selberg
 Notary Public

SWCC Form 113

Form 113
 11-30-1964

Buy North Dakota Products
 119 PAGE 543 (1000 - 6-63)

BOOK 119 PAGE 544

DOCUMENT NO. 174439

STATE OF NORTH DAKOTA, ss. REGISTER OF DEEDS
COUNTY OF MCKENZIE.
I hereby certify that the within instrument was filed
in this office for record on the 15 day of
June, 1964, at
1:19 o'clock P.M., and was duly recorded in
Book 119 of McKenzie on Page 543
Guthrie, as Amended
REGISTER OF DEEDS

By 150

Supt. Ins. Pers. Soil Mgmt. Park:
Mckenz. N. Dak.



RECORD OF WELL

of section ----->

NORTH UNIT HEADQUARTERS WELL

1. Location: State North Dakota County McKensie
 Nearest P.O. Watford City, N. D. Direction from P.O. South
 Distance from P.O. 17 miles; NW $\frac{1}{4}$ sec. 35 T. 14 S. R. 99 W.
 If in city, give street and number
National Park Service, US of America

2. Owner: Department of the Interior Address Medora, North Dakota
 Driller: C.A. Simpson Address Bisbee, North Dakota

3. Situation: Is well on upland, in valley, or on hillside: Upland

4. Elevation of top of well: 1965 ft. Above the level of Sea
 (above or below) (Sea, depot, lake or stream)

5. Type of well: Drilled; kind of drilling rig used Jetting
 (dug, driven, bored or drilled) (solid tool, jetting, rotary)

6. Depth of well: 360 ft.; year in which well was finished 1935
 Does well enter rock? No; if so, at what depth? ft.; kind of rock

7. Diameter: At top 4 inches; at bottom inches.

8. Principal water bed: Sandstone
 (Gravel, sand, clay or rock. If rock, state kind)
 Depth to principal water bed 360 ft.; thickness of bed 33 ft.
 If other water supplies were found, give depth to each

9. Casings: Kind ; size ; length ft.; between depths of & ft.
 Kind ; size ; length ft.; between depths of & ft.
 Kind ; size ; length ft.; between depths of & ft.

Packers (if any); Depth at which packers were used ; Kind
 Screen or Strainer; Was well finished with screen? Kind of screen
 length of screen ft.; diameter inches; size of openings

10. Head: Does well at present overflow without pumping? No; did it overflow when new?
 if flowing, give pressure lb. per sq. inch; or height water will rise in a pipe
 ft. above surface; original pressure or head ; if not flowing, give water
 level in well ft. below surface.

11. Pump: Is the well pumped? No; kind of pump
 size of capacity of pump ; kind of power

12. Yield: Natural flow at present (if any) gallons per min.; original flow gal.
 per min. - well has been pumped at 26 2/3 gallons per minute continuously for
24 hours; quantity of water ordinarily obtained from well gal. per day.

13. Use: For what purpose is the water used? Domestic, Fire Protection, and Irrigation

14. Quality of the water: Artesian - Soft; is there an analysis? Yes
 (hard, soft, fresh or salty, etc)

15. Cost of well, not including pump: \$500. Temperature of water 54 OF

Name of person filling blank Einar L. Johnson
District Park Ranger

Date October 20, 1964 Address Medora, North Dakota

On the back of this sheet give the record of the beds through which the well passes.

Wells for Water

Phone 65

C. A. SIMPSON

Well Drilling and Well Supplies

Bisbee, North Dakota

LOG OF WELL DRILLED AT CCC CAMP 17 MILES SOUTH OF WATFORD CITY, NORTH DAKOTA IN AUGUST, 1935.

1-28	Yellow Clay
28-30	Layer of Coal
30-40	Yellow and gray clay
40-92	Blue gray shale, more sandy - 75-92
92-105	Layer of coal with fine sand directly under
105-107	Hard sand rock
107-120	Blue shale
120-150	Sandy blue shale
150-151	Rock
151-173	Sandy blue shale turning to sandstone
173-195	Shale
195-205	Layer of Coal
205-236	Shale
236-242	Coal
242-250	Shale
250-255	Hard layer of sandstone
255-257	Coal
257-310	Light colored shale
310-360	Brown Shale
360-393	Sandstone - source of water supply

Pumping Test: A 24-hour pumping test at approximately 1,000 gallons per hour was run on this well.

Material furnished by Driller:

363 feet of six-inch galvanized standard well drillers pipe installed as casing.
38 feet of perforated 5-inch SS galvanized casing inserted in the bottom of well in sandstone strata.
116 feet of 4-inch galvanized drop pipe.
116 feet of 1 7/8 inch octagon-ash sucker rod.
One 3 3/4" x 44" brass lined, ball valve deep well cylinder.

OFFICE OF STATE ENGINEER
STATE OF NORTH DAKOTA
CERTIFICATE OF COMPLETION

Permit No.: 1193

Name of Permit Holder: National Park Service, United States of America-Department
of the Interior

Address: Medora, North Dakota

Priority Date: June 19, 1964

Date Application Approved: July 23, 1964

Source of Water: Ground Water Supplies (North Unit Headquarters Well)

Points of Diversion: NW1/4, Section 35, Township 14S north, Range 99 west

Quantity Allowed in Permit: 3.8 acre-feet

Nature of Use of Water: Domestic, Fire protection and irrigation

This is to certify that the holder of the permit indicated above has fully complied with the provisions of the laws of the State of North Dakota relating to the proof of completion of works to divert water for beneficial use as set out and described in said permit and related application, and that said works have been constructed or installed and are adequate to store, divert and convey water to the place of intended use in accordance with the application, plans, maps and permit indicated above on file in the office of the State Engineer with the following exceptions _____

Dated at Bismarck, North Dakota this 12th day of October, 1964.

/s/ Milo N. Holmsten
State Engineer
State of North Dakota

(SEAL AFFIXED)

Name of Paper McKenzie County Journal
 Where Published Bismarck, N.D.
 Date of Issue 7/9/64
 Sent By State Engineer
 Location McKenzie County, N.D.
 Copy Sent WAGO YEG ☐ NO ☐

**NOTICE OF HEARING ON PETITION
FOR APPROPRIATION OF WATER
FROM GROUND-WATER SOURCES
(North Unit Headquarters Well)**

TAKE NOTICE. That National Park Service, United States of America, Department of the Interior, Medora, North Dakota has made application to the State Engineer of North Dakota for a permit to divert and appropriate water from the ground-water sources. The petition prays for a permit to divert and appropriate water from a point on the ground-water sources in the NW1/4 Section 35, Township 148 North, Range 99 West for irrigation of .025 cubic feet per second of water and .002 cubic feet the average approximate amount per second of water for domestic use during the operating season, for each year said permit may remain in force, with an annual diversion of 3.8 acre-feet for domestic, fire protection and irrigation a total of 2 acres for irrigation in McKenzie County, North Dakota, and as shown on the map accompanying the application.

TAKE NOTICE, further that the State Engineer will consider said application in his office in the State Capitol, Bismarck, North Dakota, on the 13th day of July, 1964, at the hour of 9:30 o'clock a.m. on that date, at which time and place, all persons interested may present their views in person or in writing.

Dated at Bismarck, North Dakota this 26th day of June 1964.
 MILO W. HOISVEEN,
 State Engineer,
 1301 Capitol Building,
 Bismarck, North Dakota.
 (July 2-9)

-met-

**NOTICE OF HEARING ON PETITION
FOR APPROPRIATION OF WATER
FROM GROUND-WATER SOURCES
(North Unit,
Squaw Creek Picnic Area Well)**

TAKE NOTICE. That National Park Service, United States of America, Department of the Interior, Medora, North Dakota has made application to the State Engineer of North Dakota for a permit to divert and appropriate water from the ground-water sources.

The petition prays for a permit to divert and appropriate water from a point on the ground-water sources in the NW1/4 Section 31, Township 148 North, Range 99 West the average approximate amount of .0089 cubic feet of water per second of time during the operating season, for each year said permit may remain in force, with an annual diversion of 6.5 acre-feet, domestic use and fire protection McKenzie County, North Dakota, and as shown on the map accompanying the application.

TAKE NOTICE, further that the State Engineer will consider said application in his office in the State Capitol, Bismarck, North Dakota, on the 13th day of July, 1964, at the hour of 9:30 o'clock a.m. on that date, at which time and place, all persons interested may present their views in person or in writing.

Dated at Bismarck, North Dakota this 26th day of June 1964.
 MILO W. HOISVEEN,
 State Engineer,
 1301 Capitol Building,
 Bismarck, North Dakota.
 (July 2-9)

-met-

440
 Bell Malt
 Coal (last)
 L & L R
 main

NOTICE OF HEARING ON PETITION
FOR APPROPRIATION OF WATER FROM

GROUND - WATER SOURCES

~~North Unit Headquarters Well~~

TAKE NOTICE, That ~~National Park Service, United States of America,~~
~~Department of the Interior, Moscow, N. Dak.~~ has made application to the State
Engineer of North Dakota for a permit to divert and appropriate water from the
~~ground-water sources~~.

The petition prays for a permit to divert and appropriate water from a
point on the ~~ground-water sources~~
in the ~~Section 35, Township 148 North, Range 99 West~~
the average approximate amount ~~for irrigation of .025 cubic feet per second of water~~
~~and .002 cubic feet per second of water for domestic use~~
~~of time during the operating season, for each year said permit may remain in~~
force, with an annual diversion of 2.0 acre-feet, for
~~domestic, fire protection and irrigation - a total of 2 acres for irrigation in~~
~~in McKenzie County, North Dakota~~, and as shown on the map
accompanying the application.

TAKE NOTICE, further that the State Engineer will consider said applica-
tion in his office in the State Capitol, Bismarck, North Dakota, on the 13th
day of July, 1964, at the hour of 9:30 o'clock a. m.
on that date, at which time and place, all persons interested may present their
views in person or in writing.

Dated at Bismarck, North Dakota this 26th day of June 1964.

/s/ Milo W. Hoisveen, State Engineer
1301 Capitol Building
Bismarck, North Dakota

DO NOT COMPLETE THIS SIDE OF FORM — THIS SIDE FOR USE OF STATE ENGINEER

PERMIT

This is to certify that I have examined the foregoing application and hereby approve the same subject to prior water rights; rate of withdrawal not to exceed 13 gallons per minute. Acre-feet and rate of withdrawal subject to satisfaction by State Engineer. Failure to
 (If denied state reason, if approved state condition, if any, to approval)

comply with any order of the State Engineer may result in forfeiture of water right.

The amount of water to be appropriated shall be limited to the amount that can be used beneficially, not

to exceed 2.8 acre feet each year.

1. Date of priority June 19, 1964
2. Date of hearing on application July 13, 1964
3. Date of approval by State Water Conservation Commission July 23, 1964
4. Construction to be initiated on or before July 1, 1965
5. Construction to be completed on or before July 1, 1967
6. Water shall be beneficially used on or before July 1, 1969

WITNESS my hand and seal this 29th day of July, 19 64

/s/ Milo W. Holmstrom
 State Engineer
 Secretary, State Water Conservation Commission

PERMIT NO. 1193

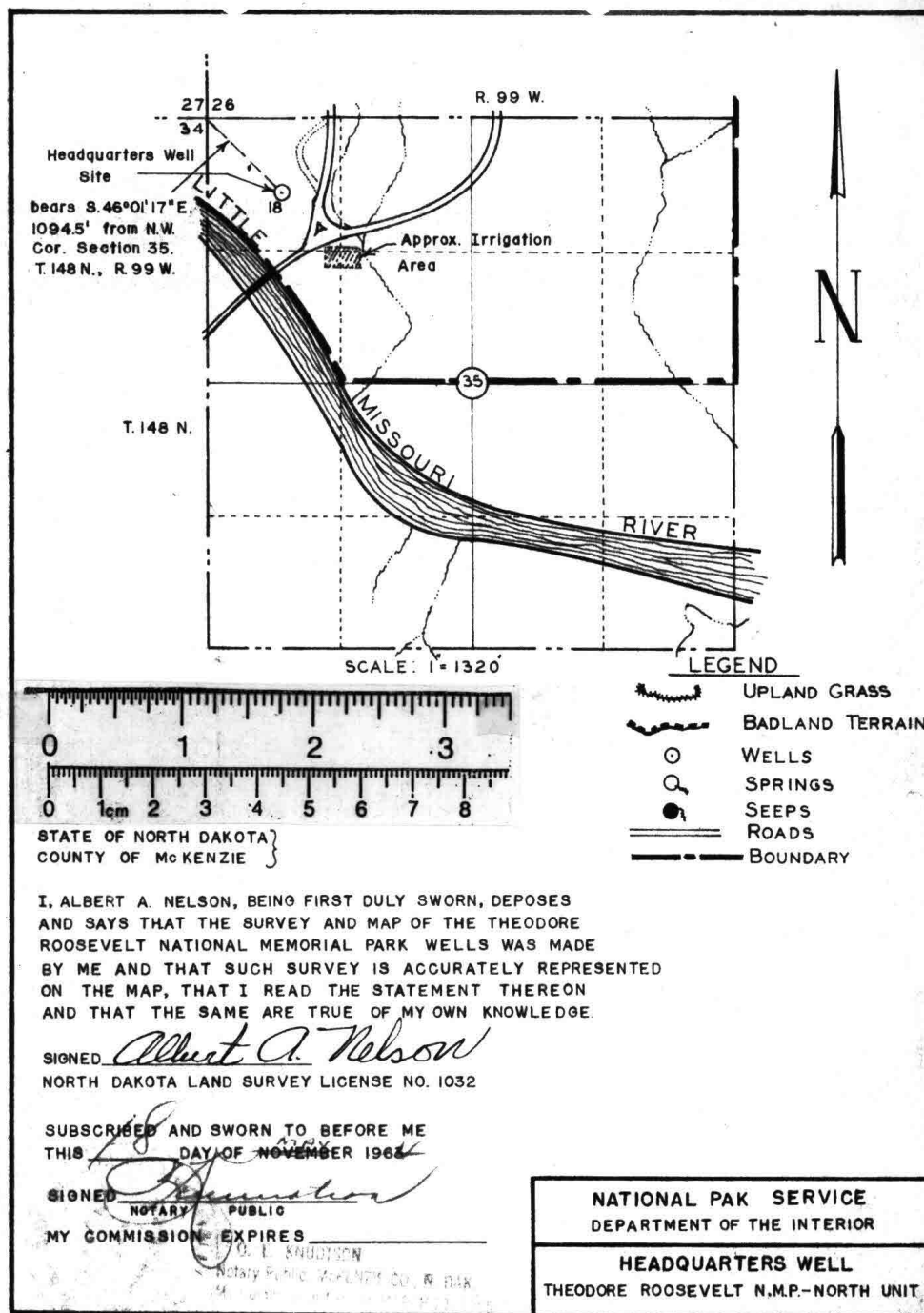
Application for a Permit to Divert and Appropriate
 the Water of the State of North Dakota

Applicant National Park Service
 Address Medora, North Dakota
 Point of Diversion in NW 1/4 of Section 35
 Township 14S N., Range 99 W.
 Source ground-water
 Acres to be irrigated domestic use, fire protection and irrigation

The State of North Dakota
 State Engineer's Office

This instrument was received and filed for record on the 19th
 day of June A. D. 19 64, at 2:00 o'clock P. M.
/s/ Milo W. Holmstrom (State Engineer)

"BUY NORTH DAKOTA PRODUCTS"



Supporting Hydro Data


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Permit Number --- 01193**Permit Information**

Priority Date: 6/19/64
Use Type: Domestic
Status Code: Perfected

U.S. NATIONAL PARK SERVICE
 MEDORA, ND

Point of Diversion Information
14809935BB

Beneficial Use	Date	Year	Acres	Rate
County	McKenzie			
Basin	Little Missouri River	2002	1.1	0.0 7.0
Aquifer	Undefined	2001	1.1	0.0 8.0
Status	Active	2000	1.0	0.0 8.0
Source	Ground Water	1999	0.9	0.0 8.0
App. Acre Feet	3.8	1998	1.3	0.0 8.0
App. Acres	2.0	1997	1.1	0.0 8.0
App. Pumping Rate	13.0	1996	0.9	0.0 8.0
App. Storage	0.0	1995	1.4	0.0 8.0
		1994	0.8	0.0 8.0
		1993	1.1	0.0 8.0
		1992	1.0	0.0 8.0
		1991	1.0	0.0 10.0
		1990	1.0	0.0 10.0
		1989	0.9	0.0 10.0
		1988	0.9	0.0 10.0
		1987	0.9	0.0 10.0
		1986	0.9	0.0 10.0
		1985	0.9	0.0 10.0
		1984	0.9	0.0 10.0
		1983	0.9	0.0 10.0

Other Supporting Information

Form 10-174
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park Theodore Roosevelt National Memorial Park		Region Midwest	Work Order No. 2-WR-65B														
Location in Park At various locations within the North and South Units of Theodore Roosevelt National Memorial Park		State(s) North Dakota	Fund Symbol 14x1035 (0343)														
County or Counties Billings & McKenzie		Year Programmed 1963	PCP No.														
☐ Contract and/or ☒ Day Labor		Master Plan No.	Master Plan Corrected By														
Work Order Title Filings for water rights with State Water Commission, carry-over from 1963 F.Y.		As Built Drawings By	Date Started August, 1962														
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)		Date Completed October, 1964															
100.8 Utilities: Sewer Systems and Water Systems: Water rights filing for 8 water wells located within Theodore Roosevelt National Memorial Park (6 wells in the South Unit and 2 wells in the North Unit). <table> <tr> <td>Surveyor Fee</td> <td>\$ 36.00</td> </tr> <tr> <td>Application Fee</td> <td>~~184.00~~ 160.00</td> </tr> <tr> <td>Notary Fee</td> <td>12.00</td> </tr> <tr> <td>Advertising Fee</td> <td>20.70</td> </tr> <tr> <td>Filing Fee</td> <td>~~24.00~~</td> </tr> <tr> <td></td> <td>~~\$276.70~~</td> </tr> <tr> <td></td> <td>252.70</td> </tr> </table> Filings For Wells: Peaceful Valley Picnic Area Well ✓ North Unit Headquarters Well Halliday Well Rasmussen Well Squaw Creek Campground Well Medora Headquarters Well Cottonwood Campground Well Peaceful Valley Headquarters Well or Peaceful Valley Ranch Well Prorated Cost for Each Well: \$31.60 <i>M. R. ...</i>		Surveyor Fee	\$ 36.00	Application Fee	~~184.00~~ 160.00	Notary Fee	12.00	Advertising Fee	20.70	Filing Fee	~~24.00~~		~~\$276.70~~		252.70	~~\$276.70~~ 252.70	
Surveyor Fee	\$ 36.00																
Application Fee	~~184.00~~ 160.00																
Notary Fee	12.00																
Advertising Fee	20.70																
Filing Fee	~~24.00~~																
	~~\$276.70~~																
	252.70																
TOTAL		\$ 252.70															
DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES															
No.	To	Submitted By:	Title:														
2	WASO	<i>Warren D. Hotchkiss</i>	Superintendent														
2	MRO																
1	Area																
		Approved By:	Title:														
		COSTS VERIFIED	Title:														
		BY (Sgt) Irvine R. Elbert	Regional Accounting Officer														
			Date: DEC 14 1964														

Form 10-174A
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPOSITION OF COST FOR COMPLETION REPORT

Work Order Number

2-WR-65B

Fund Symbol

14X1035 (0343)

Park

Theodore Roosevelt National Memorial Park

Region

Midwest

Year Programmed

1963

Location in Park

At various locations within the North and South Units of Theodore Roosevelt NMP

Work Order Title

Filings for water rights with State Water Commission; carry-over from 1963 F.Y.

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE

(1) Personal Services.....	\$
(2) Travel.....	
(3) Contract Work.....	
(4) Supplies and Materials.....	
(5) Other Direct Expenses.....	252.70
(6) Operation of Equipment.....	~~276.70~~
(7) Depreciation of Equipment.....	

10. Purchase of Construction Equipment

11. Purchase of Other Assets (not for sale)

12. Other Costs:

13. TOTAL COST (Sum of lines 1 through 12)

14. Credits:

15. Balance of Fund Balance

16. Balance of Fund Balance

17. Balance of Fund Balance

18. Balance

19. Residual value of Construction Equipment at time 6

20. Other Credits

21. TOTAL CREDIT (Sum of lines 19 through 20)

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

252.70

~~276.70~~

252.70

~~276.70~~

NARRATIVE PORTION OF COMPLETION REPORT
ON
WATER RIGHTS FILINGS
IN
THEODORE ROOSEVELT NATIONAL MEMORIAL PARK

Much of the information required to complete the eight (8) "Record of Well" forms attached is unavailable. An inspection was conducted of records in the Billings County Court House with no success. Evidently, water sources developed before the Park was established, ~~was~~ was accomplished without keeping a written record of progress.

From checking the files at Park Headquarters, it is noted that there was an interest in 1948 to obtain water rights for wells located within the Park. However, due to the lack of funds, this project did not get underway until 1962.

The completion costs of most of the wells could not be determined because the cost of the drilling operation had been included with the installation of water lines and other utilities.

Form 10-176
(Rev. 9-56)

**UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
COMPLETION REPORT OF CONSTRUCTION PROJECT**

Mass

REGION Two	AREA Theodore Roosevelt Nat Mem Park	COUNTY McKenzie	STATE North Dakota
PROJECT OR JOB TITLE Water and Sewer System			PCP NO. U-10-1 U-11-1
LOCATION IN AREA North Unit, Protection and Maintenance Area		MASTER PLAN NO.	BUILDING NO.
WORKING DRAWING NO. AND TITLE NMP-TR-3009			
APPROPRIATION TITLE AND SYMBOL 14X1035, NPS, Account No. 332.4			WORK ORDER NO.
CONTRACT NO. 14-10-232-159		DATE WORK STARTED 10-10-56	DATE WORK COMPLETED 2-28-57 11-30-56
NAME OF CONTRACTOR Buckman and Filkowski		ADDRESS Belfield, North Dakota	

COST ANALYSIS

CONSTRUCTION ITEMS	QTY.	UNIT COST IN PLACE	TOTAL COST IN PLACE
Furnishing all labor and materials for the construction of a water and sewer system for the North Unit	(See attachment)		\$29,614.23
Other direct expenses (telephone)			6.95
Facilitating Services			296.14
TOTAL			\$29,917.32

COSTS AGREE WITH FIELD FINANCE OFFICE RECORDS - 9/26/57

C. D. Van Kirk, Supervisory Accountant

SUMMARY OF EXPENDITURES

PERSONAL SERVICES \$.00	EQUIPMENT \$.00	MATERIALS AND SUPPLIES \$.00
OTHER \$6.95	Facilitating Services 296.14	

CHANGE ORDERS

ORIGINAL CONTRACT AMOUNT ~~29,273.50~~ 29,273.50	FIRST RE 4,207.00	SECOND 3,968.00	THIRD
FINAL CONTRACT AMOUNT ~~29,273.50~~ 29,614.23	FOURTH	FIFTH	SIXTH

THIS PROJECT OR JOB HAS BEEN COMPLETED IN ACCORDANCE WITH
APPROVED DRAWINGS, SPECIFICATIONS, AUTHORIZED CHANGES

SUBMITTED BY (Name and title) (Sgd) John W. Jay, Jr.	DATE 4-19-57
APPROVED BY (Name and title) John W. Jay, Jr., Superintendent	DATE

(ATTACH NARRATIVE STATEMENT, PHOTOGRAPHS, AND "AS BUILT" DRAWINGS TO THIS FORM)

Contract No. ~~14~~14-10-232-159 - Furnishing all labor and materials for the Construction of a water and sewer system for the North Unit Protection and Maintenance Area, Theodore Roosevelt Nat Memorial Park, North Dakota

Total Amount of Contract: \$ 29,614.23

Water System - Main Bid

2512 lin. ft. 6-inch cast iron pipe, installed	@ 3.98	9,997.76
174 lin. ft. 4-inch cast iron pipe, installed	2.65	461.10
1 each, fire hydrant, with valve and tee, installed	254.00	254.00
1 each, 6-inch AWWA gate valve with valve extension box installed	104.00	104.00
1 each, 4-inch AWWA gate valve with valve extension box installed	87.75	87.75
1 each, steel reservoir, 50,000 gallon capac.		10,682.00

Alternate Bid "A"

280 ft. 6-inch cast iron pipe installed	3.98	1,114.40
241.5 lin ft. 4-inch cast iron pipe installed	2.65	639.98
257 lin ft. 2-inch galvanized steel pipe install.	1.72	442.04
1 each, 6-inch AWWA gate valve with extension box installed	104.00	104.00
1 each, fire hydrant, with valve and tee ins.	254.00	254.00
1 each, 2-inch AWWA gate valve with extension box and tee installed	60.00	60.00

Sewer system - Main Bid

1 each, 2,000 gal., 2-compartment reinforced concrete septic tank in place	522.00	522.00
660 lin. ft., 6-inch diam. std strength clay sewer pipe in place	2.12	1,399.20
1 each precast reinf. concrete manhole, including frame and cover	190.00	190.00
1 each, 4'-0", x 4'-0" concrete distribution box in place	176.00	176.00
400 lin. ft. 12-inch corrugated metal, half-circle culvert in place	3.60	1,440.00

Alternate Bid "B" Sewer System

2 each, 600 gal. precast septic tanks in place	160.00	320.00
2 each, 3'-0", 12'-0" brick leaching wells including frames and covers in place	630.00	1,260.00
Change Orders Nos. 1, 2, and 3		126.00

Total Contract Amount: \$ 29,614.23

COMPLETION REPORT

Water and Sewer Systems North Unit Protection & Maintenance Area

The contract for the installation of the water and sewer systems was awarded in July, 1956, to Buckman and Folkowsky, of Belfield, North Dakota. Construction on the sewer system started early in August, but due to a delay in delivery of materials, construction in the water system did not get underway until early October.

Sewer System

The sewer system actually consists of three separate systems. The two systems for the entrance station and utility area each consisted of a 600 gallon septic tank and a leaching well. The system for the residential area consisted of a 2,000 gallon, two compartment, septic tank and a sub-surface irrigation system for the septic tank effluent disposal.

The septic tanks were all pre-cast, reinforced concrete tanks. The leaching wells were 3 ft. inside diameter, by 15 ft. deep. They were constructed of brick with the lower ten feet laid with open joints. Standard cast iron manhole rings and covers were used for covers. The one manhole in the residential area system was a precast reinforced concrete manhole. All sewer lines were 6 inch vitrified clay pipe with hot poured joints. A total of 660 feet was installed.

The sub-surface irrigation system consists of two 200 ft. lines with flow to the lines controlled at a reinforced concrete distribution box. Flow is controlled by means of adjustable gates at the entrance into the two lines. The lines consist of a 3 ft. wide ditch, with the lower 6 inches filled with gravel. Twelve inch diameter corrugated metal half-circle culvert was laid on the gravel and an additional foot of gravel placed in the ditch. Balance of the backfill is normal soil.

The sewer system was completed early in October, 1956, at a total construction cost of \$5,287.20.

Water System

The water system consists of a reservoir, pump house, pumping equipment, and distribution system.

The reservoir is a 25,000 gallon steel tank. The tank is buried on a hill just north of the Maintenance and Protection area. The elevation of the reservoir is approximately 130 feet above the area served. A 50,000 gallon reservoir was originally planned for the system but on further consideration of the maximum demand, it was decided to reduce the size and a change order was issued.

The distribution system consists of 2,792 ft. of 6 inch line, 415.5 ft. of 4 inch line, and 257 ft. of 2 inch line. The four inch and six inch lines are cement lined, mechanical joining, cast iron pipe. The two inch line is galvanized steel. One inch galvanized steel service lines were installed to the two residences and connections were made to the existing 2 inch plastic line that serves the temporary installations in the area.

A change order was issued for the construction of a new pump house and installation of a new deep well pump. The pump house is constructed of masonry block with a mineral filled roll roofing on 1 inch T&G sheathing. Outside dimensions of the pump house are 100 inches, by 10 ft. 0 inches. The pump is a peerless Hi-Lift with an electric motor drive. It is rated at 18 gpm against a 150 ft. head. The motor is a 3 HP, 220 volt, 60 cycle, single phase motor.

Two 4-inch fire hydrants were installed for fire protection; one hydrant near the residential area and one near the utility area.

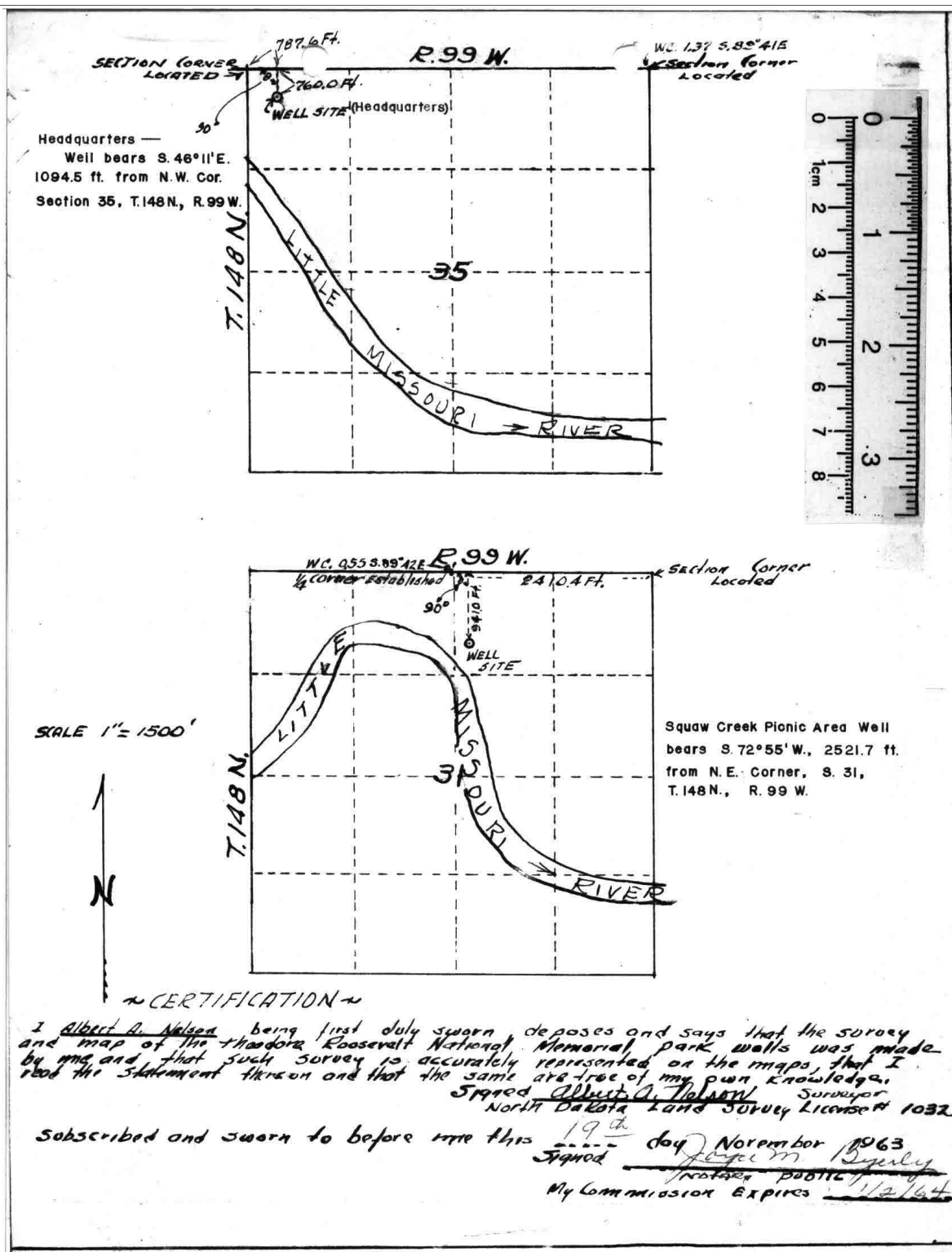
The system as constructed is a usable unit with capacity and provisions to handle any foreseeable expansion. Total cost of construction of the water system was \$24,201.03.

Approved by:

John W. Jay, Jr.
Superintendent

Prepared by:

Ralph M. Stratton
Project Supervisor



Docket Information

Number of Documents in Docket 22

Documents Dated from 11/19/1963 to 9/9/2003

Docket Compiled: 3/28/2012