



WATER-RIGHT DOCKET

Theodore Roosevelt National Park

Docket No: 12

BUFFALO CORRAL WELL, NORTH UNIT

Supporting Hydro Data

02-10-1976: water well specifications, drilling and repairing

Info on buffalo Corral well

Arnegard, North Dakota 5-12-76 197

Bud Thompson

Water Drilling And Repairing

Phone 586-3773

Arnegard, N. D. 58335

Quote
IN ACCOUNT WITH

J.R. National Monument

Watford City, N.D. 58554

accounts over 60 days charged 1 1/2 per. mo.

60 ft of hole	5' =	2.50 =
60 ft of 4" CD 11 1/2" pipe	11 1/2' =	2.50 =
1 pump head (monitor)		1.41 =
15 ft of 2" galv. pipe	16' =	.88 =
5 ft of 7/8" galv. rod	6' =	.27 50 =
2' brass pump cap		.60 =
well seal 4" x 2"		.75 =
1 1/2 5 monitor pump		.75 =
3 hp Briggs & Stratton motor		
guard down for jack		1.35 =
1 1/2" x 1/2" x 1/2" for platform		.36 =
Labor on platform on hole		.50 =
		11.16 00
If we can use 4" monitor		
casing the job would be		
20.00 less money, also		
longer distance		

GENERAL SERVICES ADMINISTRATION
REG. NO. GSA GEN. REG. NO. 41 CFR 101-11.6201

(THIS IS NOT AN ORDER)

1. REQUEST NO. 1540 6 006	2. DATE ISSUED 01/28/76	3. REQUISITION/PURCHASE REQUEST NO.	4. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG. AND/OR DMS REG. 1 RATING:
5. ISSUED BY Superintendent, Theodore Roosevelt NMP Medora, North Dakota 58645		6. DELIVER BY (Date) 06/01/76	
7. FOR INFORMATION CALL (Name, area code and tel. no.) (No collect calls) Richard R. Portillo/Robert D. Powell (701) 623-4466		7. DELIVERY ☒ FOB DESTINATION ☐ OTHER (See Schedule)	
8. TO NAME AND ADDRESS (Street, city, state, and ZIP code) Bud Thompson Arnegard, North Dakota 58835		9. DESTINATION (Consignee and address including ZIP code) Superintendent Theodore Roosevelt NMP Watford City, ND 58854	

10. Please furnish quotations to the issuing office on or before close of business (date) 02/20/76. Supplies are of domestic origin unless otherwise indicate. This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it. This request does not commit the Government to pay any costs incurred in the preparation or the submission of this quotation, or to procure or contract for supplies or services.

SCHEDULE

11. ITEM NO.	12. SUPPLIES/SERVICES	13. QUANTITY	14. UNIT	15. UNIT PRICE	16. AMOUNT
1	Provide all material and labor to drill water well in North Unit of Theodore Roosevelt NMP, 15 miles south of Watford City, North Dakota, including general construction, procurement and installation of pumping facilities, construction of platform and installation of pump and installation of pumpjack and engine. The job shall be completed per the enclosed specifications.	1	Job	\$	\$1114.00

17. PRICES QUOTED INCLUDE APPLICABLE FEDERAL, STATE, AND LOCAL TAXES.

DISCOUNT FOR PROMPT PAYMENT ~~XXXXXXXXXXXX~~ % 20 CALENDAR DAYS, % 30 CALENDAR DAYS, % CALENDAR DAYS.

NOTE: Reverse must also be completed by the quotee.

18. NAME AND ADDRESS OF QUOTE (Street, city, county, State, including ZIP code) LLOYD R THOMPSON ARNEGARD N.D. 58835	19. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION Lloyd R Thompson LLOYD R THOMPSON OWNER	20. DATE OF QUOTATION Feb 10-1976	21. TELEPHONE (Include area code) 701-586-3773
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WATER WELL SPECIFICATIONS

A. General

1. Scope

- a. Estimated depth of well 60 feet.
- b. Minimum size of casing (inside diameter) 3 - 4 inches.
- c. Minimum gpm desired 3.
- d. Intended purpose of well stock water.

It is required that the well be drilled and cased. The drilling of the well may be abandoned at any depth by the Government when, in the opinion of the Superintendent, it is not feasible to continue. The contractor shall be required to furnish all labor, equipment, materials, tools and transportation necessary for accomplishment of the work.

2. Laws to be Observed. The contractor is assumed to be familiar with, and at all times shall observe and comply with, all Federal, State and local laws, bylaws, building and construction codes, and ordinances and regulations in any manner affecting the conduct of the work. The contractor shall furnish the Superintendent with his well driller's license number before starting work.

3. Well Log. The contractor shall keep a complete log of the well on suitable forms as required by the State. The well log shall contain entries of each stratum encountered and the pump testing information required by these specifications. Upon completion and acceptance of the well, the contractor shall furnish the Government an original and one copy of the well log. Any well logs, reports, or samples required by State laws shall be completed and delivered directly to the State government.

4. Final Cleaning Up. Before final acceptance, all ground occupied by the contractor in connection with the work, shall be left in a neat and presentable condition; all foreign substances resulting from the work shall be removed. The casing shall be thoroughly swabbed, using alkalies if necessary, to remove oil, grease or joint dope. This work shall be considered necessary work to the accomplishment of the contract.

B. Construction

1. Drilling and Casing. A well hole of suitable size to permit the installation of a 3 - 4 inch inside diameter casing shall be drilled and cased by the contractor for the entire depth of the well. All metal casing installed by the contractor shall be new, prime pipe, meeting current American Society for Testing Materials or American Petroleum Institute specifications. Casings may be arc welded or joined by couplings.

2. Screening or Perforating. Because of uncertainty as to type of water-bearing strata which may be encountered and utilized, the following alternatives may be considered: (1) open bottom casing; (2) perforated casing; or (3) screen, to fit the size casing being used, at the option of the Superintendent.

3. Screening. In the event a screen is considered, the contractor shall provide a one-quart sample of water-bearing strata to the Superintendent along with his preliminary recommendation as to screen materials, type, length, and opening to be used. If a determination is made to use a screen, the Superintendent will establish the screen materials, type, length, and opening size to be used and will direct the contractor to proceed. Screen used shall be Johnson Everdur or stainless steel as manufactured by Edward E. Johnson, Inc., or approved equal. If the Superintendent elects to use gravel packing in conjunction with the screen, the gradation of the gravel and the thickness of the gravel or sand layer shall be as specified. The gravel shall be placed to avoid segregation of finer and coarse particles.

4. Perforating. The contractor shall be prepared and equipped to perforate the casing and/or install a section of perforated casing at any depth determined by the Superintendent who will establish the size and extent of the perforation and direct the contractor to proceed. The contractor shall remove any protrusions from inside of the casing that may have been caused by perforating.

5. Gravel Pack. If the Superintendent elects to use an open bottom casing, a gravel pack shall be placed in the bottom of the well according to the following:

a. Gravel shall pass a $\frac{1}{4}$ -inch screen and be retained on a No. 30 screen, and shall be well graded and composed of hard, durable, particles.

b. The gravel shall extend a minimum of 5 feet below the bottom of the casing and minimum of 3 feet up into the casing from the bottom, for a total of at least 8 feet.

6. Development and Testing. It is possible that more than one water-bearing stratum will need to be tapped to secure the desired amount of water. The contractor shall make the necessary tests at each water stratum encountered. Further, the contractor shall surge and develop the well, if so directed by the Superintendent until clear and free of sand.

The contractor shall test pump the well at the desired gpm shown in these specifications until the water level has stabilized. The well shall also be test pumped at the maximum rate of flow which will not damage the water producing aquifers until the water level stabilizes. The contractor shall record the static water level and the static pumping level for each flow measurement. This information shall be included in the well log.

7. Pollution Protection. In order to avoid pollution by surface water and to assure ample drainage away from the well, the top of the casing shall be left at least one foot above the existing grade at the well or higher if ordered by the Superintendent. At completion of the well, a temporary sheet metal cap or sanitary seal shall be installed on the top of the casing to prevent contaminating substances from entering the well.

All wells will be grouted to a minimum of 10 feet below the surface of the ground. The upper limit of grouting shall be the pitless adaptor elevation. Wells will be grouted deeper if needed to protect the casing from corrosive formations.

The contractor shall take such reasonable measures as necessary to prevent contamination of the well when work is not in progress at the site.

8. Pitless Adaptor and Sanitary Well Cap.

- a. ~~Shall fit well casing.~~
- b. ~~Shall meet the standards established by the State Board of Health and the United States Public Health Service.~~
- c. ~~The well cap shall be the watertight type and shall be removable without disconnecting any wires.~~

C. Pumping Facilities

After drilling a casing the well will be fitted out with a cylinder/sucker rod type pump. The cylinder will be brass or other noncorrosive material, 1½ to 2 inches in diameter. The cylinder will be attached to a 2 to 2½ inch galvanized pipe and fitted with wooden sucker rod

if available. Steel sucker rod if wooden rod cannot be procured.

D. Well Platform with Pump

Construct a 5' by 5' redwood or cedar platform over the well head and install a traditional, farm-type cast-iron well pump adaptable to windmill or motorized pumpjack operation and capable of pumping 3 gallons per minute.

E. Pumpjack and Engine

Install a pumpjack, powered by a 4-cycle, propane-powered engine, compatible with the type of pump installed and capable of pumping at a sustained rate of 3 gallons per minute.

Docket Information

Number of Documents in Docket 6

Documents Dated from 2/10/1976 to 2/10/1976

Docket Compiled: 12/15/2011