



WATER-RIGHT DOCKET

Effigy Mounds National Monument

Docket No: 1

HEADQUARTERS WELLS.

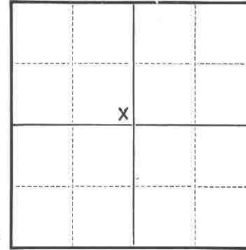
Supporting Hydro Data

01-28-1960: record of well

9-255
(Jan. 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

RECORD OF WELL



Locate well on plat of section.

1. Location: State Iowa County Allamakee
Nearest P. O. Mc Gregor Direction from P. O. North
Distance from P. O. 5 miles; N.W. ¼ sec. 34, T. 96 N. R. 3 W.
If in city, give street and number _____
Headquarters Well
2. Owner: National Park Service Address Effigy Mounds National Mon., Mc Gregor, Ia
Driller: Fred Schultz Address Farmersburg, Iowa
3. Situation: Is well on upland, in valley, or on hillside? Valley
4. Elevation of top of well: 690 ft. above the level of the sea
(Above or below) (Sea, depot, lake, or stream)
5. Type of well: Drilled; kind of drilling rig used Solid Tool
(Dug, driven, bored, or drilled) (Solid tool, jetting, rotary, etc.)
6. Depth of well: 141 ft.; year in which well was finished 1955
Does well enter rock? Yes; if so, at what depth? 35 ft.; kind of rock Dolomite
7. Diameter: At top 9 inches; at bottom 9 inches.
8. Principal water bed: Rock - Sandstone
(Gravel, sand, clay, or rock. If rock, state kind)
Depth to principal water bed 135 ft.; thickness of bed _____ ft.
If other water supplies were found, give depth to each _____
9. Casings: Kind Steel; size 6"; length 136 ft.; between depths of 0 and 136 ft.
Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
Packers (if any): Depth at which packers were used _____; kind _____
Screen or Strainer: Was well finished with screen? No; 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? No;
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? Yes; kind of pump Vertical Turbine;
size or capacity of pump 10-12 gpm; kind of power electric 3 hp
12. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;
well has been pumped at 2 20 gallons per minute continuously for two hours;
quantity of water ordinarily obtained from well 1,800 gallons per day.
13. Use: For what purpose is the water used? Domestic and public
14. Quality of the water: Hard (32.1 grains); is there an analysis? Yes
(Hard or soft, fresh or salty, etc.)
15. Cost of well, not including pump: 942.12 Temperature of water _____ ° F.
- Name of person filling blank Daniel J. Tobin, Jr.
- Date January 28, 1960 12 15 60 Address Effigy Mounds National Monument, Mc Gregor, Iowa

On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.

6-9642

LOG OF WELL

[illegible]

NO. 10-174 (REVISED 8/10)
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPLETION REPORT
CONSTRUCTION PROJECT
CR
REHABILITATION JOB

DATE March 28, 1957

REGION Two AREA Effigy Mounds National Monument

STATE Iowa

~~REMARKS~~

JOB TITLE Well and Well House

PCP ON
JOB NO. _____

LOCATION

IN AREA Headquarters

MASTER

PLAN NO. NM-EFF-2002

BLDG.

NO. 9

WORKING DWG.

NO. & TITLE NM-EFF-2017 - Temporary Pump House

"AS CONST." DWG.

SUBM. BY (DATE) _____

APPROPRIATION

TITLE & SYMBOL 14 X 1035, Construction, MPS

ACCT.

NO. 332.1

S&MC PROJ.

SYMBOL _____

CONSTRUCTION DATA		SUMMARY OF EXPENDITURES	
CONSTRUCTION ITEMS	QUANTITIES		
		01 PERSONAL SERVICES	540.00
		02 TRAVEL	
		03 TRANS. OF THINGS	
		04 COMM. SERVICES	
		05 RENTS & UTIL. SERV.	
		06 ~~PRINTING & REPRO.~~	2.25
		07 OTHER ~~EXPENSES~~	689.36
		08 SUPPLIES & MATERIALS	957.79
		09 EQUIPMENT	.06
		10 LANDS & STRUCTURES	
		15 TAXES & ASSESSMENTS	10.80
		TOTAL CONSTRUCTION COSTS	2,200.00
		TOTAL CONSTRUCTION ALLOT.	2,200.00
		UNOBLIGATED BALANCE	None
		TECH. SUPERVISION COSTS	
		TOTAL TECH. SUPER. ALLOT.	
		UNOBLIGATED BALANCE	None
		TOTAL PROJECT COST	2,200.00

REMARKS: This job consisted of drilling of a well and installing 6" steel well casing. After drilling was completed, a temporary well house was constructed, 8' x 6'-8" in size. Well drilling was accomplished by use of a purchase order and the well house construction was done by force account. The well is 141 feet in depth, the depth of water in casing is 75' below ground level, and the length of casing in solid rock is 136'. Well Tests to 20 GPM which was the limit of capacity of testing equipment. Water is supplied by an electric pump and stored in a 120 gallon pressure tank. Building is heated by electric wall type heater. This was an emergency job due to failure of old well which supplied the only available water supply and consequently had no PCP submitted.

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

SUBMITTED: Walter J. Burdett DATE 3/28/57
Superintendent TITLE
CONCURRED: _____
SUPERINTENDENT

CONCURRED: _____ DATE _____
ASST. REGIONAL DIRECTOR (RD)
APPROVED: Walter J. Burdett
REGIONAL DIRECTOR
3/28/57 2696

Other Supporting Information

HISTORY of WATER WELL DEVELOPMENT
EFFIGY MOUNDS NATIONAL MONUMENT
January 29, 1960

Effigy Mounds National Monument was established by Presidential Proclamation October 25, 1949. Prior to establishment the lands now comprising the headquarters site were the farmstead of John Laird. The first record of a well at the area comes from a memorandum dated May 20, 1953 from Superintendent Kennedy to The Regional Director, Region Two, which states " it was decided to use an old well drilled in 1911 and in 1949 when the Monument was established, was fitted with a broken hand-pump. As to water consumed during the period 1911 through 1949 we offer the following upon which to base an estimate. Mr. Ralph Blackwell, a Monument employee and lifelong resident of the area believes the Laird Farm usually had 25 - 30 head of stock and two families drawing from the well.

Early in 1950 the above well was cleaned, disinfected and fitted with a Myers jet type pump equipped with a 3/4 h.p. electric motor. This pump served a 40 gallon pressure tank system for the Superintendent's quarters. Studies made by Regional Engineer Oliver prior to the pump setting showed the well to be 96 feet deep with a sandy bottom. Water was standing in the well at the 75 foot mark which gave a water depth of 21 feet at that time. The well was cased with 5 inch steel casing.

This system remained in and out of operation from early 1950 through May 1953 at which time a Myers piston type pump was installed. The well provided water for the domestic consumption of the Superintendent's family plus a public bubbler for the May through October visitor season.

Water samples from the above well consistently tested "unsafe" and constantly contained sand. During the summer of 1955 pumping and contamination problems became so acute it was necessary to abandon the well and redrill nearby.

On November 18, 1955 Mr. Fred Schultz of Farmersburg, Iowa completed drilling and casing a new well approximately 30 feet south - southwest of the original (1911) hole. This well was cased with 6 inch steel casing from the 0 to 136 foot depth. The bottom 5 feet of the well was left uncased. The Myers piston pump was reset in this well and a 120 gallon pressure tank was installed in a temporary well house.

The well completed in November 1955 still serves the area but under MISSION 66 development a Peerless vertical turbine pump was installed during September of 1959. This pump now serves a 20,000 gallon concrete storage tank which supplies the Monument needs.

In 1959 under MISSION 66 two residences, a storage and workshop, and a Visitor Center were constructed at the Monument. The residences were occupied about January 1, 1960. Present estimate of water consumption is estimated at 1,800 gallons daily. Prior to development the only water provided the public was drinking water, there were no flush toilets. To assist in estimating the water consumption for the period January 1950 through January 1959 we append a tabulation of the annual Visitor Count.

Maps and Miscellaneous Information

Docket Compiled: 3/10/2011