



WATER-RIGHT DOCKET

Delaware Water Gap National Recreation Area

Docket No: 6

WALLPACK PENINSULA WELL

Supporting Hydro Data

06-02-1971: contract drilling report regarding the results of the test pump report for test well #2

I. D. Feakins

E. McConnell

RECEIVED
JUN 4 11 45 AM '71
EASTERN SERVICE
CENTER
D. F. Well Drilling Co., Inc.
CONTRACT DRILLING
Box 8 - Route 206 - Netcong, New Jersey 07857
Tel. 347-2250

June 2, 1971

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National Park Service
Eastern Service Center
4228 Wisconsin Avenue, N.W.
Washington, D. C. 20242

Re: National Park Service
Test Well #2
Wallpack, Delaware Water Gap

Gentlemen:

The results of the Test Pump Report for Test Well #2 are listed below:

Depth	147'
G.P.M.	72
Static Water Level	6 1/2'
Pumping Level	51
Draw Down	44 1/2'
Hours Pumped	8
Test Pump	126'

Test Pump 3 H.P. 126' 5/25/71

<u>Time</u>	<u>Static Water Level</u>	<u>G.P.M.</u>
8:30	6'	
8:45	38'	80
9:00	43'.6	78
9:30	47'.6	72
10:00	48'.8	72
10:30	49'.7	72
11:00	50'	72
11:30	50'.5	72

National Park Service

Page 2

June 2, 1971

<u>Time</u>	<u>Static Water Level</u>	<u>G.P.M.</u>
12:30	51'.3	72
1:30	51'.5	72
2:30	51'.7	72
3:30	51'.7	72
4:30	51'.7	72

Very truly yours,

D. F. Well Drilling Co., Inc.



Harold Schwabelmeier
General Manager

HS:rw

Other Supporting Information

Investigation of well at Wallpack Peninsula, Delaware Water Gap

National Recreation Area, Monroe County, Pennsylvania

On May 25, 1971, a well drilled for the National Park Service on Wallpack Peninsula, Monroe County, Pennsylvania, was test pumped in accordance with National Park Service contract with the well driller. The test began at 8:40 a.m. and was conducted for 8 hours. Water level measurements made periodically during the test are on the attached sheet. A time-drawdown plot of the attached data shows a decrease in the rate of drawdown, indicating improvement of the well and effects of slow drainage from the overlying unconsolidated glacial material and weathered bedrock. There were no apparent boundary conditions that would affect the well pumping at 75 gpm (gallons per minute) or less during an 8-hour period.

As information on well depth and depth to water-bearing zones were not available either from Park Service officials or driller employees up to this time, prediction of well performance at higher pumping rates is not possible.

A water sample was collected and a chemical analysis was made in the Harrisburg U.S. Geological Survey Laboratory. Results of the attached analysis indicate a moderately hard, calcium bicarbonate type water.

Date: May 25, 1977 Measurements by J. R. Holloway, USGS

Pumping test: Well Mo-200 (USGS number)

Duration of pumping test: 8 hours

Average pumping rate: 75 gpm

Total drawdown: 45.49 ft.

Specific capacity: 1.64 gpm per ft.

Static water level: 6.54 ft.

<u>Time (min.)</u>	<u>Depth to water (feet)</u>	<u>Time (min.)</u>	<u>Depth to water (feet)</u>
1	21.3	24	41.05
1½	24.1	27	42.62
2	27.0	30	43.57
3	29.2	35	44.74
4	30.4	41	45.62
5	31.22	46	46.19
6	32.00	50	46.68
7	32.55	61	47.58
8	33.01	70	48.15
10	33.56	87	49.12
12	32.85	98	49.54
13	35.07	124	49.96
14	37.00	140	49.94
15	38.80	174	50.52
16	Pump off.	189	50.86
19	Restarted.	240	51.22
20	35.0	335	51.46
21	38.0	390	51.71
22	39.65	470	52.03
23	40.37		

Chemical analysis of water sample from National Park Service
well at Wallpack Peninsula, Monroe County, Pennsylvania.

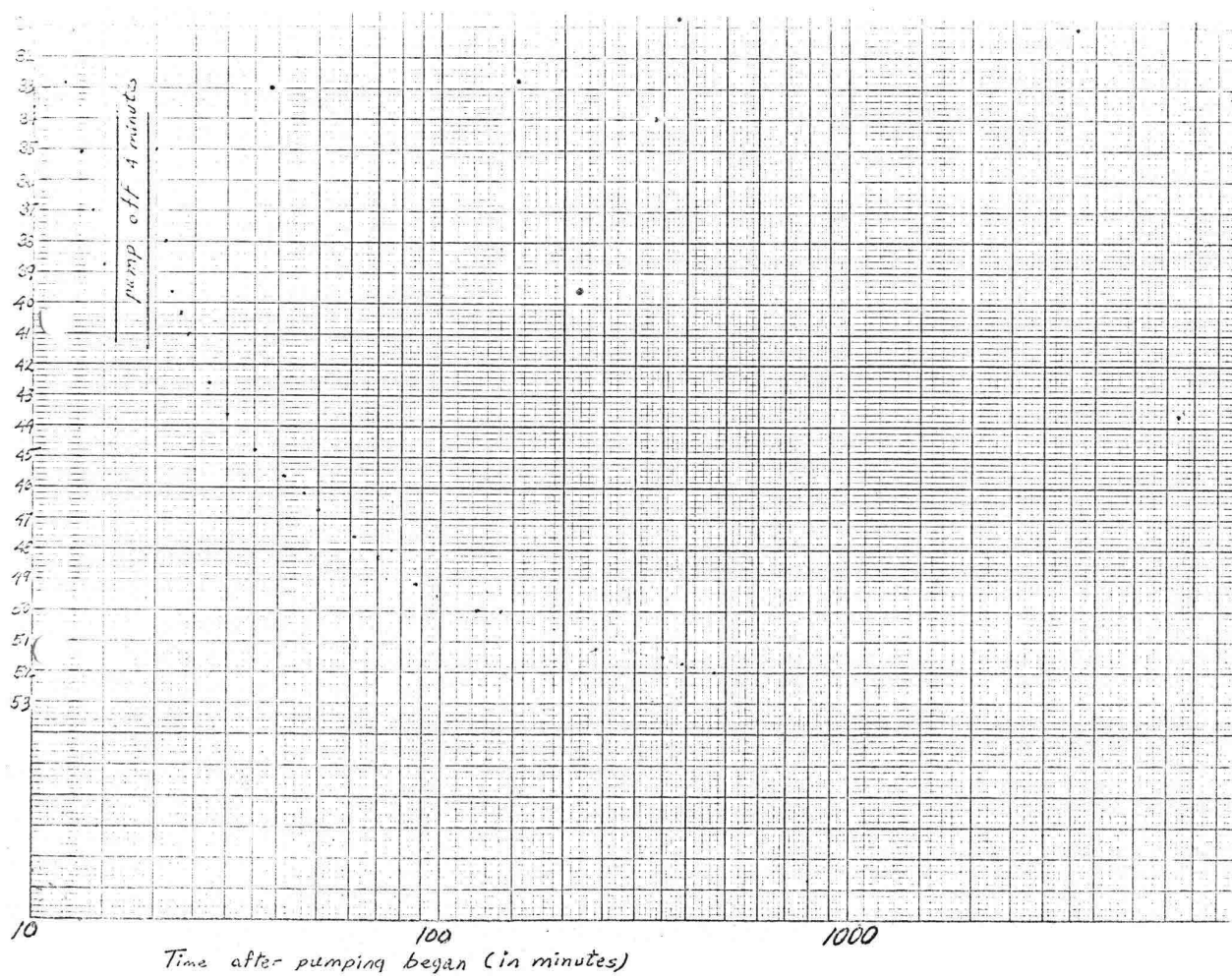
Date: May 25, 1971

Collected by: J. R. Hollowell

From: Well Mo-200 (USGS number)

Time: 1300

Temperature (°C)	10.5
Specific conductance (micromhos at 25°C)	180
pH	7.3
Color	1
Concentrations in milligrams per liter:	
Silica (SiO ₂)	7.4
Total iron (Fe)	.10
Manganese (Mn)	.02
Calcium (Ca)	32
Magnesium (Mg)	2.6
Sodium (Na)	3.0
Potassium (K)	1.8
Bicarbonate (HCO ₃)	84
Sulfate (SO ₄)	34
Chloride (Cl)	1.2
Fluoride (F)	.1
Nitrate (NO ₃)	.3
Phosphate (PO ₄)	.02
Dissolved solids:	
Residue on evaporation	119
Sum of dissolved constituents	124
Hardness as CaCO ₃	
Total Ca+Mg	91
Noncarbonate	22



Form 10-194
(Rev. 9/60)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Check One:

Monthly
Estimate☐

EASTERN SERVICE CENTER

(Park)

Release of Claims
Executed 6/14/71

UNIT PRICE CONTRACT

Final
Estimate☒

ESTIMATE NO. 1	FOR (Period) 4/28/71 to 6/1/71	DATE 6/17/71
CONTRACT NO. 14-10-6:990-365	COMPLETION DATE 6/1/71	EXTENDED DATE
CONTRACTOR D.F. Well Drilling Co., Inc. Rt. 206, Netcong, N.J. 17859		ORIGINAL CONTRACT \$6,206.00
PROJECT Drilling of Test Wells		CHANGE ORDERS* \$ 340.00
LOCATION Watergate, Wallpack Peninsula		TOTAL CONTRACT \$6,546.00

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
<u>WATERGATE</u>					
1	50LF	Drill hole to receive 6"	0	13.10	---
2	job		0	60.00	---
3	250LF		186	6.00	1,116.00
4	8HRS	Pump test	8	37.25	298.00
5	4HRS	Develop	4	40.00	160.00
6	8HRS	Stand by time	0	30.00	---
7	job	Abandonment	0	190.00	---
<u>Change order #1</u>					
1.	114 LF		114	12.10	1,379.40
<u>WALLPACK TEST HOLE #2</u>					
1	50LF		50	13.10	655.00
2	job		0	60.00	---
3	250LF		97	6.00	582.00
4	8HRS	Pump test	8	37.25	298.00
5	4HRS	Develop	4	40.00	160.00
6	8HRS	Stand by time	0	30.00	---
7	job	Abandonment	0	190.00	---

RECOMMENDED (Project Supervisor)

Garland Moore

APPROVED (Contracting Officer)

Ray U. Martinez
Chief, Procurement and Contracting
Officer

DATE

6/17/71

SUMMARY

TOTAL TO DATE	\$ 4,648.40
LESS RETAINED AMOUNT.....	---
NET.....	4,648.40
LESS PREVIOUS PAYMENTS.....	---
LESS LIQUIDATED DAMAGES.....	---
DUE THIS ESTIMATE.....	4,648.40
% COMPLETED TO DATE:	100

*Show Breakdown on Reverse

(See Reverse for Distribution)

Phone 663-1202

LAKELAND LABORATORIES

18 Nautical Terr.

Lake Hopatcong, N. J. 07849

WATER ANALYSIS (In Milligrams per Liter)

Laboratorie No. 6 ap
71-156Examined 5/25/71FROM D.F. Wall Drilling, Co., Netcong, N.J.National Park Service

CHEMICAL

Test Well #2 Wallpack Pa.

Color <u>0</u>	Nitrite <u>.004</u>	Phosphates <u>0</u>	Manganese <u> </u>
Turbidity <u>0</u>	Chloride <u>4</u>	Odor <u>0</u>	Sulfate <u> </u>
Ph <u>7.9</u>	Hardness <u>80</u>	Detergents <u> </u>	Cyanides <u> </u>
Chlorine <u>0</u>	Iron <u>.07</u>	CO2 <u> </u>	Chromium <u> </u>
Nitrate <u>6</u>	Copper <u>0</u>	Alkalinity <u> </u>	D. C. <u> </u>

B. O. D.

BACTERIAL

MEMBRANE TECHNIQUE.

(Total) Coliform Per 100 Ml's 0 With / M-Endo Media. @ 35 Degrees Centigrade(Total) Fecal Coliform Per 100 Ml's With / M-FC Media. @ 44.5 Degrees Centigrade

FERMENTATION TUBE TECHNIQUE

<u> </u> 10cc Tubes Positive	Presumptive <u> </u> 10cc Tubes Positive <u> </u>
<u> </u> 1cc Tubes Positive	<u> </u> 1cc Tubes Positive <u> </u>
<u> </u> 1cc Tubes Positive	Confirmed <u> </u> 10cc Tubes Positive <u> </u>
<u> </u> 0.01cc Tubes Positive	<u> </u> 1cc Tubes Positive <u> </u>

Most Probable Number Per 100 ml. Standard Plate Count @ 35 DegreesThis water (does not) meet State requirements bacterially.
does

REMARKS

R. Stoll
 R. STOLL, Director
 N. J. Licenses S-579-T-415, W-405

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National Recreation Area, Monroe County, Pennsylvania

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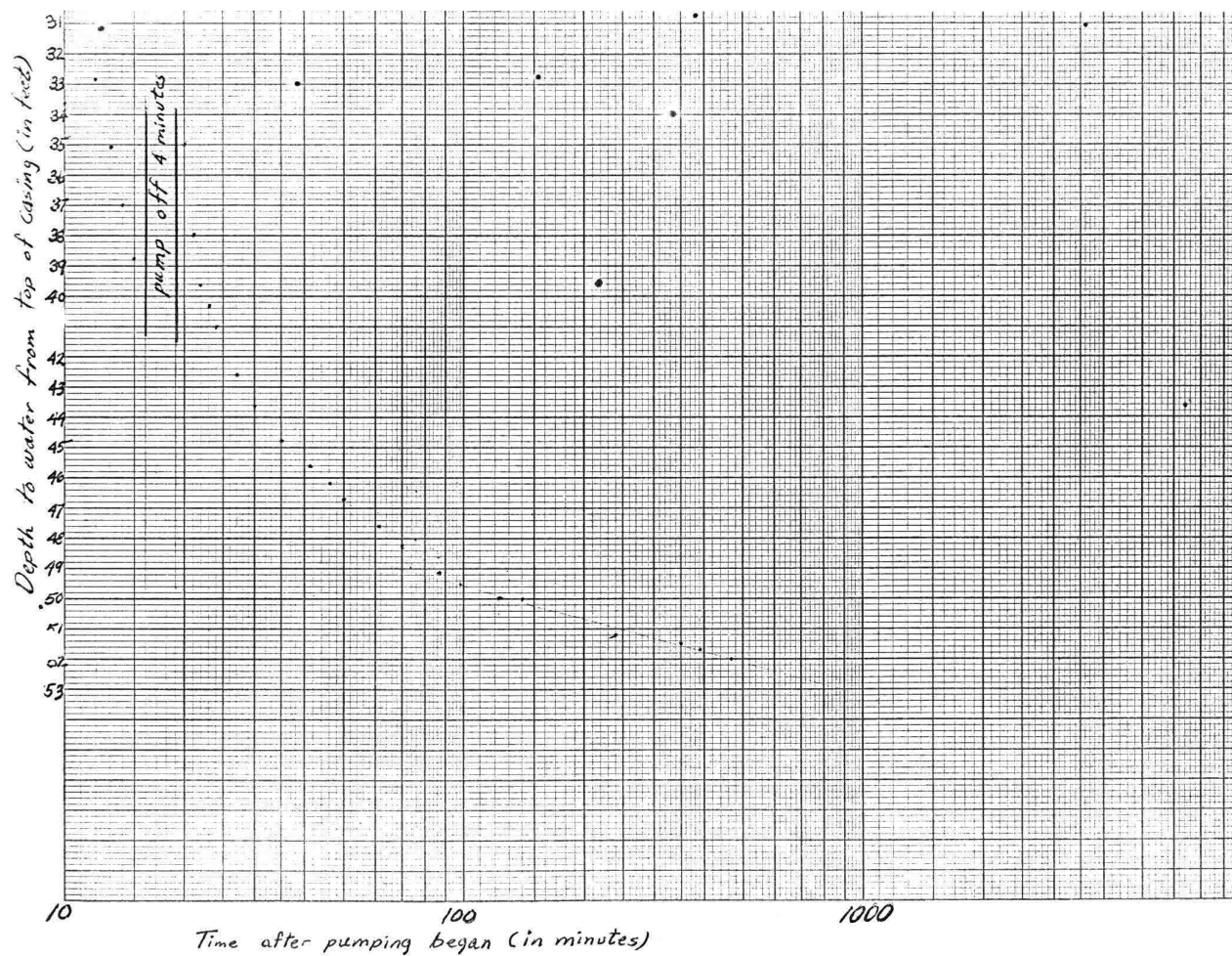
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Hardness as CaCO ₃	
Total Ca+Mg	91
Noncarbonate	22



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JUN 16 8 47 AM '71 RELEASE OF CLAIMS

EASTERN SERVICE
GCH 118

For and in consideration of the receipt of final payment in the amount of \$ 24,643.40 from the United States of America (hereinafter called the Government) under and pursuant to Contract No. 14-10-6-990-365 for Drilling Test Wells, Delaware Water Gap, National Recreational Area Delaware

the undersigned hereby does remise, release, and discharge the Government, its officers, agents, and employees of and from any and all claims and demands whatsoever under or arising from the said contract, except specified claims in stated amounts listed as follows:

No exceptions

This release has been executed this 14 day of June 1971.

D F WELL DRILLING COMPANY, INC

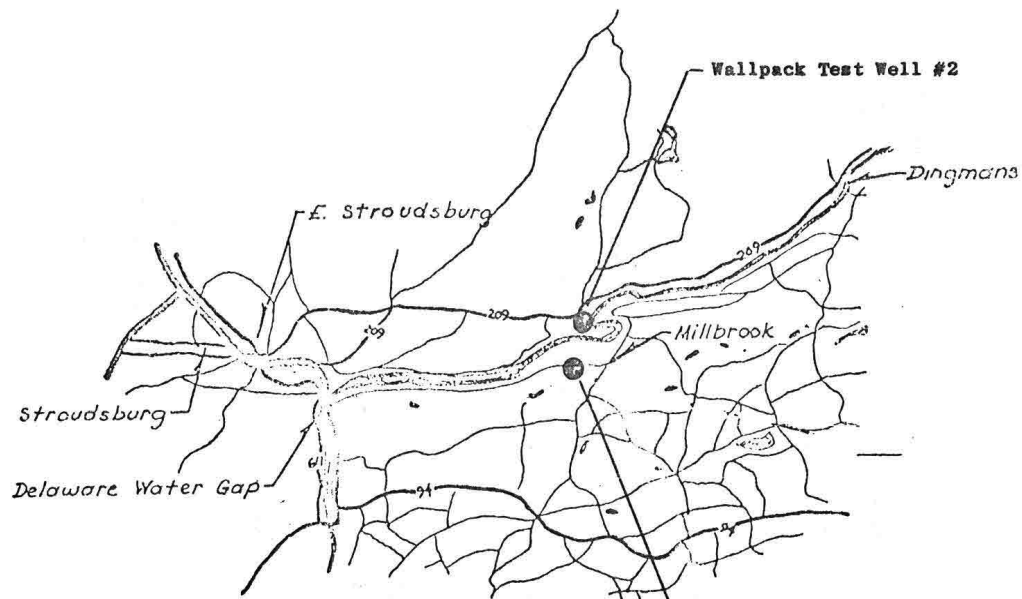
BY

H. J. Schwabacher

TITLE

Gen Mgr.

EASTERN SERVICE CENTER	
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☐	ACA
☐	CSM
☐	DAT
☐	DM
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☒	LW 8:11
☐	PM
☐	LIBRARY
☐	FILES



Docket Information

Number of Documents in Docket 14

Documents Dated from 5/25/1971 to 6/17/1971

Docket Compiled: 2/23/2011