

35694

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES
The Johns Hopkins University
BALTIMORE 18, MARYLAND

AA - C 6 2

AA 35694
12/2/2

APPLICATION FOR PERMIT TO DRILL WELL

An application must be submitted and permit received before drilling a well

Owner Dept. of the Army
Street or R F. D.
Post Office Ft. George G. Meade, Md.

Driller Henry A. Gropp 999
Street or R. F. D. P. O. Box 185
Post Office Glen Burnie, Md.
Date July 27, 1959

Quantity of Water Needed (G.P.M.)
Use for Water General Use T
Approximate Depth of Well (feet) 500'
Method of Drilling to be used Rotary

Location of Well TEST WELL #2
County Anne Arundel
Nearest Town Ft. Meade
Distance from Town in Ft. Meade
Direction from Town

PERMIT TO DRILL WELL
(Permit to be returned to Driller)

NOT TO BE FILLED IN BY DRILLER

Permit No. 35694

Samples of Cuttings Required by Department Yes No

Owner Requires Permit to Appropriate Water Yes No

Owner Has Permit to Appropriate Water Yes No

The applicant is herewith granted a permit to drill this well subject to the conditions stipulated.

John T. ... Director
072959

Date July 29, 1959

Special conditions that may apply:

Description of Location of Well
(This information should be definite enough to permit locating well on a county map)

Near what road

On which side of road (North, East, South, West)

Distance from road

Draw a sketch below showing location of well in relation to nearby towns, roads and streams with north in the direction of the arrow.

SEE ATTACHED MAP

NORTH

on permit 35693



(ORIGINAL)

12/2/2

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CB 2

WELL COMPLETION REPORT

This report must be submitted within 30 days after completion of the well

AA035694
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12/659

WELL DESCRIPTION

650 ~~37~~

Permit Number 35694

WELL LOG

State the kind of formations penetrated, their depth, their thickness, and if water-bearing

CASING AND SCREEN RECORD

State the kind and size of casing, liner, shoe, screen, and other accessories (if no casing used, give diameter of well)

Name of Owner

Dept. of the Army
Ft. Geo. G. Meade

| WELL LOG | FEET | | CASING AND SCREEN RECORD | DIAM. | FEET | PUMPING TEST |
|---------------------------------------|------------------|--|--------------------------|----------|------------------|--|
| | from.....to..... | | | (inches) | from.....to..... | |
| Brown sandy clay | 0-19 | | Black steel pipe | 6" | 0-180 | Hours Pumped <u>24</u> Each |
| White clay | 19-21 | | Bronze shutter | | | Type of Pump Used <u>Turbine</u> |
| Brown sand | 21-45 | | screen | 6" | 180-200 | Pumping Rate <u>See attached sheet</u> |
| Yellow sand | 45-48 | | Black steel pipe | 6" | 200-346 | Gallons per Minute <u>285</u> |
| Red & white clay | 48-58 | | Bronze shutter | | | WATER LEVEL |
| Red clay | 58-70 | | screen | 6" | 346-366 | Distance from land surface to water: <u>See attached sheet</u> |
| Red & white clay | 70-92 | | Black steel pipe | 6" | 366-625 | Before Pumping <u>90</u> Ft. |
| White clay | 92-120 | | Bronze shutter | | | When Pumping <u>135</u> Ft. |
| White & yellow clay | 120-126 | | screen | 6" | 625-650 | APPEARANCE OF WATER |
| Brown clay | 126-133 | | | | | Clear <u>X</u> |
| Red & white clay | 133-137 | | | | | Cloudy |
| White clay | 137-140 | | | | | Taste |
| Red & white clay | 140-153 | | | | | Odor |
| Dark red & white clay | 153-170 | | | | | Height of Casing Above Land Surface <u>2</u> Ft. |
| Green & white clay | 170-177 | | | | | PUMP INSTALLED |
| Greenish brown clay | 177-181 | | | | | Type <u>None</u> |
| streaks of fine sand & white clay | 181-189 | | | | | Capacity |
| White clay | 189-193 | | | | | Gallons per Minute |
| Med. coarse white sand, water-bearing | 193-228 | | | | | Gallons per Hour |
| White clay | 228-233 | | | | | Pump Column Length.....Ft. |
| streaks white clay & sand | 233-236 | | | | | REMARKS |
| Med. coarse sand | 236-252 | | | | | Total depth 650' |
| streaks red & brown clay | 252-269 | | | | | |
| White clay | 269-270 | | | | | |
| Fine sand | 270-272 | | | | | |
| Brown & red clay | 272-295 | | | | | |
| streaks brown clay & sand | 295-303 | | | | | |
| Brown clay | 303-317 | | | | | |
| Sandy white clay | 317-319 | | | | | |
| streaks red clay & fine sand | 319-326 | | | | | |
| Coarse sand | 326-329 | | | | | |
| Red & white clay & streaks of sand | 329-340 | | | | | |
| Coarse white sand, w.b. | 340-368 | | | | | |
| streaks of red & white clay and sand | 368-379 | | | | | |

NOTE: See attached sheet of three (3) separate pump tests on three (3) strata.

Hours Pumped 24 Each
Type of Pump Used Turbine
Pumping Rate See attached sheet
Gallons per Minute 285

WATER LEVEL
Distance from land surface to water: See attached sheet
Before Pumping 90 Ft.
When Pumping 135 Ft.

APPEARANCE OF WATER
Clear X
Cloudy

Height of Casing Above Land Surface 2 Ft.

PUMP INSTALLED
Type None
Capacity
Gallons per Minute

REMARKS
Total depth 650'

Well Was Completed
Date Dec. 16, 1959
Well Driller H. A. Gropp
H. A. Gropp
Signature

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WELL DESCRIPTION

WELL LOG

State the kind of formations penetrated, their depth, their thickness, and if water-bearing

CASING AND SCREEN RECORD

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Permit Number 35694

Name of Owner
Dept. of the Army
Ft. Geo. G. Meade

| | FEET | | DIAM. (inches) | FEET | |
|---|------------------|--------|-------------------|------------------|--|
| | from.....to..... | | | from.....to..... | |
| Med. fine sand | 379 | 382 | | | |
| Rock | 382 | 382'6" | | | |
| Gray clay & wood | 382'6" | 397 | | | |
| Red & white clay | 397 | 430 | | | |
| Brown & white clay | 430 | 464 | | | |
| Red & white clay | 464 | 502 | | | |
| Streaks of sand & brown clay | 502 | 506 | | | |
| Sandy rock | 506 | 516 | | | |
| Streaks of red, yellow & white clay | 516 | 546 | | | |
| White & brown clay | 546 | 572 | | | |
| White clay | 572 | 573 | | | |
| Fine white sand | 573 | 581 | | | |
| White clay | 581 | 582 | | | |
| Fine to med. white sand | 582 | 598 | | | |
| Coarse white sand | 598 | 613 | | | |
| Streaks white clay & sand | 613 | 623 | | | |
| Coarse white sand and wood, water-bearing | 623 | 650 | | | |
| Green clay | 650 | 659 | | | |
| Rock | 659 | | | | |

PUMPING TEST

Hours Pumped
Type of Pump Used
Pumping Rate
Gallons per Minute

WATER LEVEL

Distance from land surface to water:
Before Pumping Ft.
When Pumping Ft.

APPEARANCE OF WATER

Clear
Cloudy
Taste
Odor

Height of Casing Above Land Surface Ft.

PUMP INSTALLED

Type
Capacity
Gallons per Minute
Gallons per Hour
Pump Column Length Ft.

REMARKS

.....
.....
.....
.....
.....
.....

Well Was Completed
Date
Well Driller

Dept. of the Army
 Ft. Geo. G. Meade

STRATUM 193' - 228':

PUMPING TEST:

| | |
|-------------------|---|
| Hours Pumped | 24 Hrs. (30 minutes off for mechanical trouble) |
| Type of Pump Used | Turbine - 200' setting |
| Pumping Rate GPM | Average 285 |

WATER LEVEL:

Distance from land surface
 to water:

| | |
|----------------|------|
| Before Pumping | 90' |
| When Pumping | 135' |

Field Water Analysis: pH 5.0 Fe .8 ppm

STRATUM 340' - 368':

PUMPING TEST:

| | |
|-------------------|------------------------|
| Hours Pumped | 24 Hrs. |
| Type of Pump Used | Turbine - 340' setting |
| Pumping Rate GPM | Average 220 |

WATER LEVEL:

| | |
|----------------|------------------|
| Before Pumping | No determination |
| When Pumping | No determination |

Note: Stratum 340'-368' isolated from other strata by means of packers.

Field Water Analysis: pH 5.0 Fe .8 ppm

STRATUM 623' - 650':

PUMPING TEST:

| | |
|-------------------|------------------------|
| Hours Pumped | 24 Hrs. |
| Type of Pump Used | Turbine - 640' setting |
| Pumping Rate GPM | Average 240 |

WATER LEVEL:

| | |
|----------------|------------------|
| Before Pumping | No determination |
| When Pumping | No determination |

Note: Stratum 623'-650' isolated from 2 above strata by packer set at 300'.

Field Water Analysis: pH 4.5 Fe 1.0 ppm