

INTERVAL SHEET

10

Page 1

VDMR WELL NO. WELL NO. 0291

Sample Interval: from ~~0~~ to ~~753~~
0 to 739'-5"

PROP: PROP: NAVAL PROV. GR.
POWERHOUSE #2

Total Depth _____

COMP: COMP: SHANNAHAN ARTES.
WELL CO.

Oil _____ Gas _____ Water Exploratory _____

COUNTY: KING GEORGE

Cuttings _____ Core _____ Other _____

VDMR WELL NO: 0291

FROM: 0 TO: 739'-5"

From-To	From-To	From-To	From-To	From-To
Box #1				
0-10	00-10	00-10	-	-
10-20	10-20	10-20	-	-
20-30	20-30	20-30	-	-
30-40	30-40 Box #2	30-40	-	-
40-50	40-50	40-50	-	-
50-60	50-60	50-60	-	-
60-70	60-70	60-70	-	-
70-80	70-80	70-86	-	-
80-90	80-90	86-96	-	-
90-100	90-400	96-710	-	-
00-10	00-10	10-20	-	-
10-20	10-20	20-30	-	-
20-30	20-30	30-39'5"	-	-
30-40	30-40	-	-	-
40-50	40-50	-	-	-
50-60	50-60	-	-	-
60-70	60-70	-	-	-
70-80	70-80	-	-	-
80-90	80-90	-	-	-
90-200	90-500	-	-	-
00-10	00-10	-	-	-
10-20	10-20	-	-	-
20-30	20-30	-	-	-
30-40	30-40	-	-	-
40-50	40-50	-	-	-
50-60	50-60	-	-	-
60-70	60-70	-	-	-
70-80	70-80	-	-	-
80-90	80-90	-	-	-
9-300	90-600	-	-	-

Interval Sheet

PROP. NAVAL P. OR.
POWERHOUSE 22
COMP. BAYVIEW APTS
WELL CO.
COUNTY: BREVARD
ADJ. WELL NO. 0191
FROM

Sheet No. _____

--- Cuttings

--- Core

--- Water Well

--- Gas Well

From-To

From-To

From-To

From-To

From-To

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Total Depth _____

(10)

WATER WELL COMPLETION REPORT
 Department of Conservation and Economic Development
 VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, University Station, Charlottesville, Virginia

W-0291

OWNER: U. S. Government Address: _____

TENENT: Naval Proving Ground

WELL LOCATION: Town Dahlgren, County King George, Approx. _____ ft miles

(direction) of _____ and _____ ft. _____ of _____ miles

(Give directions and distance in feet or tenths of miles from two reference points shown on topographic or county highway maps.)

DRILLER: Shannahan Artesian Well Co. Inc.

Address: St. Michaels, Maryland

WATER CONDITIONS

DEPTH

STATIC WATER LEVEL 63 Feet

WATER (aquifers):

674^(from) ft. 686^(to), 698^(from) ft. 726^(to)
732 ft. 739 ft.

YIELD

WELL PUMPED (or bailed) at 370 G.P.M. with 135 ft. DRAWDOWN after 24 hrs. PUMPING.

ARTESIAN (natural) FLOW _____ G.P.M.; HEAD _____ ft. (above grnd.)

REMARKS: _____

QUALITY OF WATER

COLOR None TASTE None

ODOR None OTHER _____

ANALYSIS: AVAILABLE - Yes No ; ATTACHED - Yes No

TEMPERATURE 69°

(salt, brackish, iron, sulfur, acid, other) WATER _____ (from) _____ (to) _____ ft. _____ ft.

USE OF WATER

FOR Industrial & Domestic

(domestic, town, industry, irrigation, etc.)

ADEQUACY, PERMANENCE O.K.

PUMP (installed)

TYPE Pomona Turbine (Fairbanks Morris)

H.P. 40 DEPTH OF INTAKE 230' ±

Top of impellers

CONSTRUCTION

RIG TYPE (or method) Rotary

(rotary, cable, bored, dug, driven, etc.)

DATE STARTED 3/2/59; COMPLETED 4/2/59

TOTAL DEPTH 739 ft.

BEDROCK at _____ ft.

SURFACE ELEVATION 17.67 ft.

LOCATION SKETCH OR MAP TRACING

N

COORDINATES

N - 243,260

E - 2,420,915

W E

S

HOLE SIZE

(diam.) (from) (to)
20 in. surf ft. 202 ft.
15 surf 739

CASING SIZE

(diam.) (from) (to)
16 in. surf ft. 200 ft.
10 surf 739

SCREEN (or perforations)

(diam.) (from) (to) (opening size)
10 in. 674 ft. 686 ft. #25 slot *Helically wound Bronze, continuous slot type (Johnson Co)*
10 698 726 #25 slot
10 739 739 #30 slot

OTHER CONSTRUCTION INFORMATION: (gravel pack, depth and size of shot, packer, plugs, etc.)

10" casing inside 16" casing
Gravel between 10" & 16"

REMARKS 16" casing to depth of 200' & grouted between case & soil

10" inside 16" to depth of 739'-5" (includes screen)

Gravel pack between 10" & 16" CASINGS

Samples sent _____
 Log of well (over) _____

10

WATER WELL COMPLETION REPORT

Department of Conservation and Economic Development

VIRGINIA DIVISION OF MINERAL RESOURCES

Box 3667, University Station, Charlottesville, Virginia

W-0291

No. 2 Power house well

OWNER: Naval Proving Ground #1 Address: Dahlgren, Virginia

TENENT: Naval Proving Ground

WELL LOCATION: Town N.P.G. (on base), County King George, Approx. _____ ft. miles

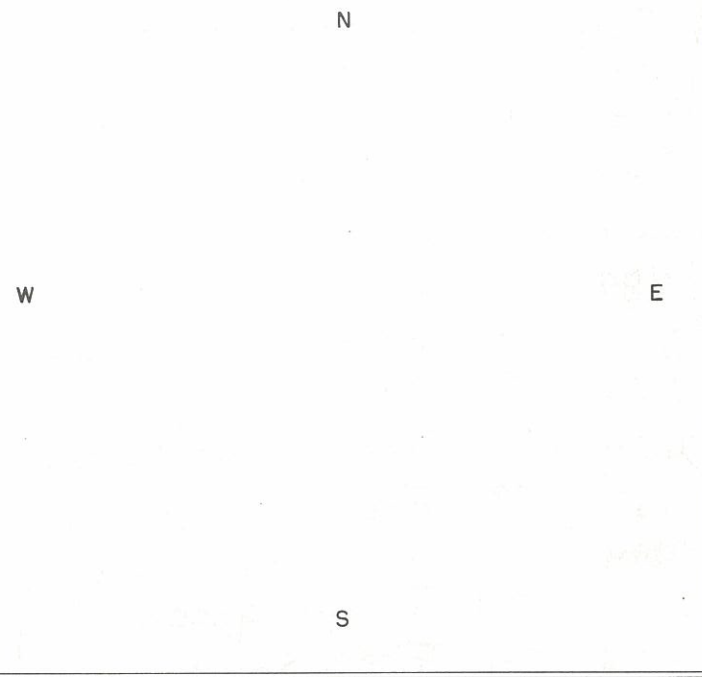
(direction) of _____ and _____ of _____

(Give directions and distance in feet or tenths of miles from two reference points shown on topographic or county highway maps.)

DRILLER: Shannahan Artesian Well Co.

Address: St. Michaels, Md. Riverview 5-3171

LOCATION SKETCH OR MAP TRACING



WATER CONDITIONS

DEPTH

STATIC WATER LEVEL 63'

WATER (aquifers):
(from) _____ (to) _____ (from) _____ (to) _____
ft. _____, ft. _____
ft. _____, ft. _____

YIELD

WELL PUMPED (or bailed) at 350 G.P.M. with 135' ft. DRAWDOWN
after 24 hrs. PUMPING.

ARTESIAN (natural) FLOW _____ G.P.M.; HEAD _____ ft. (above grnd.)

REMARKS: _____

QUALITY OF WATER

COLOR Clear TASTE Good

ODOR No OTHER _____

ANALYSIS: AVAILABLE - Yes No ; ATTACHED - Yes No

TEMPERATURE _____ (from) _____ (to) _____
WATER _____ ft. _____ ft.
(salt, brackish, iron, sulfur, acid, other)

USE OF WATER

FOR Industry
(domestic, town, industry, irrigation, etc.)

ADEQUACY, PERMANENCE _____

PUMP (installed)

TYPE None as yet.

H.P. _____ DEPTH OF INTAKE _____

CONSTRUCTION

RIG TYPE (or method) Rotary
(rotary, cable, bored, dug, driven, etc.)

DATE STARTED _____; COMPLETED Mar. 5, 1959

TOTAL DEPTH 739' ft.

BEDROCK at _____ ft.

SURFACE ELEVATION _____ ft.

REMARKS Well logged (elect.) on 3/5/59 to depth of 488' where electrode stopped.

HOLE SIZE

(diam.) (from) (to)
in. ft. ft.
19" 0' 205'

CASING SIZE

(diam.) (from) (to)
in. ft. ft.
16" 0' 205'

10" 0' 672'

SCREEN (or perforations)

(diam.) (from) (to) (opening size)
in. ft. ft.
10" 672' 739'

OTHER CONSTRUCTION INFORMATION: (gravel pack, depth and size of shot, packer, plugs, etc.)
Gravel Pack

Samples sent yes
Log of well (over)

LOG

FURNISHED BY Mr. Shannahan

DATE: _____

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	2	Br. Clay	
2	8	" " with gravel	
8	197	Green clay some shell	
197	198	Rock	
198	206	Crusty	
206	207	Hard rock	
207	287	Sandy clay	
287	323	Tight Clay, green	
323	336	Free brown clay & sand, coarse	
336	456	Green clay	
456	480	Green & white clay, hard	
480	489	Free coarse mud. brown	
489	520	Tough brown clay	
520	528	Tough green clay	
528	531	Free sand	
531	534	Sandy clay	
534	546	Free sandy clay; fine sand with it	
		Drilled like water sand but full of clay	
546	561	Tight mixed clay	
561	565	Tight clay, 2' in 1/2 hr.	
565	604	Tight mixed clays	gummy
604	613	Tight mixed clays	" ✓
613	670'5"	Very hard clay	
670'5"	686'5"	Gray water bearing sand	
686'5"	695	Sandy clay	
695	739'5"	Free gray sand with clay streaks	
739'5"	753	Sandy clay	

VIRGINIA DIVISION OF
RECEIVED
 JUN 5 1959
REGISTERED
 MINERAL RESOURCES

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT
DIVISION OF MINERAL RESOURCES

Box 3667, University Station, Charlottesville, Virginia

WWCR-#10
VDMR-#291

WATER WELL COMPLETION REPORT

OWNER: U. S. Government Mailing Address: _____
 TENANT: Naval Proving Ground Mailing Address: Dahlgren
 DRILLER: Shannahan Artesian Well Co., Inc. Mailing Address: St. Michaels, Maryland
 WELL LOCATION: County King George Approx. _____ ft. _____ miles
 _____ (direction) of _____ and _____ ft. _____ miles of _____
(Give direction and distance in feet or tenths of mile from two reference points - roads, towns, rivers, etc. - on county highway or other map)

WATER CONDITIONS

DEPTH

STATIC WATER LEVEL 63 feet
 WATER ZONES (fissures or formations supplying water)

(from)	(to)	(from)	(to)
<u>674</u>	<u>686</u>	<u>698</u>	<u>728</u>
ft.	ft.	ft.	ft.
<u>732</u>	<u>739</u>		
ft.	ft.		

QUANTITY OF WATER

WELL PUMPED (or bailed) at 370 Gal. per Min. with
135 feet DRAWDOWN after 24 HOURS PUMPING.
 FLOW (natural) _____ G.P.M. HEAD _____ ft. (above ground)
 REMARKS: _____

QUALITY OF WATER

COLOR None TASTE None
 ODOR None OTHER _____

ANALYSIS AVAILABLE - Yes No ATTACHED Yes No

TEMPERATURE 69°
 _____ WATER (from) _____ ft. (to) _____ ft.
(salt, brackish, iron, sulfur, acid, other)

USE OF WATER: Domestic Town Industry Farm Public

CONSTRUCTION

RIG TYPE (or method) Rotary
(rotary, cable, bored, driven, etc..)
 DATE: Started 3/2/59; Completed 4/2/59
 TOTAL DEPTH 739 ft.
 BEDROCK at _____ ft.

GROUTING INFORMATION

METHOD USED _____
 GROUTING MATERIAL _____
 DEPTH OF GROUTING _____

REMARKS: Screen continued from above

<u>10</u>	<u>698</u>	<u>726</u>	<u>#25 slot</u>	<u>Helically wound bronze continuous slot type</u>
<u>10</u>	<u>739</u>	<u>739</u>	<u>#30 slot</u>	<u>(Johnson Co.)</u>

Other construction information: 10" casing inside 16" casing
Gravel between 10" & 16"
16" casing to depth of 200' & grouted between case
& soil 10" inside 16" to depth of 739'-5"
(includes screen) Gravel pack between 10" & 16"
 _____ casings

N

COORDINATES
 N - 243,260
 E - 2,420,915

E

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HOLE SIZE

CASING SIZE

(diam)	(from)	(to)	(diam)	(from)	(to)
<u>20</u>	<u>surf</u>	<u>202</u>	<u>16</u>	<u>surf</u>	<u>200</u>
<u>15</u>	<u>surf</u>	<u>739</u>	<u>10</u>	<u>surf</u>	<u>739</u>

SCREEN (or perforations)
 (diam.) (from) (to) (opening size)
10 in. 674 ft. 686 ft. #25 slot See below

(Fairbanks Morris) **PUMP** (installed)

TYPE Pomona Turbine Cap. (gpm) _____
 H.P. 40 Depth of intake 230' + ft.
top of impellers

located

Log of well (over)

Dahlgren

LOG

FURNISHED BY

Mr. Shannahan

DATE:

DEPTH (feet)		TYPE OF SOIL OR ROCK PENETRATED (gravel, clay, etc., hardness, color, etc)	REMARKS (water, caving, shot, screen, sample, etc)
FROM	TO		
0	2	Br. clay	
2	8	" " with gravel	
8	197	Green clay some shell	
197	198	Rock	
198	206	Crusty	
206	207	Hard rock	
207	287	Sandy clay	
287	323	Tight clay, green	
323	336	Free brown clay & sand, coarse	
336	456	Green clay	
456	480	Green & white clay, hard	
480	489	Free coarse mud, brown	
489	520	Tough brown clay	
520	528	Tough green clay	
528	531	Free sand	
531	534	Sandy clay	
534	546	Free sandy clay; fine sand with it Drilled like water sand but full of clay	
546	561	Tight mixed clay	
561	565	Tight clay, 2' in 1/2 hr.	Gummy
565	604	Tight mixed clays	
604	613	Tight mixed clays	
613	670'5"	Very hard clay	
670'5"	686'5"	Gray water bearing sand	
686'5"	695	Sandy clay	
695	739'5"	Free gray sand with clay streaks	
739'5"	753	Sandy clay	