#### Fo. 1 GW-2 1978-19,000

### COMMONWEALTH OF VIRGINIA

### WATER WELL COMPLETION REPORT

C-258

• BWCM No. 143-345

(Certification of Completion/County Permit)

W=6844

SWCB Permit

State Water Control Boar
P. O. Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

			County Permit
A June of the second of the second of	11.	Control of the Contro	Certification of inspecting official:
ounty/Gity 9	Lenuco Ca	untu	This well does does not
Situation 1		County/City Stamp	meet code/low requirements.
Virginia Plane Coordinates	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		S
397.808 N	Owner Honric	_	
2,347,967 E	•Well Designation or Num	nber Liculation Exploration	For Office Use
Latitude & Longitude	Address Prairie	1 A-11a) Bose Hole #1	, - recogerant
N N	Test Hol	le	Tax Map I.D. No.
W	Phone		Subdivision
Topo. Map No.			Section
Elevation 58 ft.	Orilling Contractor	Sammon Well Co One	Block .
Formation	Address At 2	BAN 1128	Lot
Lithology	Precuidence	e Forge va 23/40	_ Class Well I, IIA
River Basin	Phone 966 -20	615	IIB , IIIA , IIIB
Province	- Julian La	A . ( )	IIIC IIID IIIE
Type Logs	WELL LOCATION:	(feet/milesdirection) of	
Cuttings	4	miles (direction) of	
Water Analysis		ude map showing location marked)	ρ,
Aquifer Test			Rig
enquirer rest	Date started 4/- 2/	1-86 • Date completed 2/-30-	Ple Type rig Mud air soil
			Tribets Level Section
MELL DATA: New / Re	worked Deepened_	2 WATER DATA 6 W	
Total depth 385			ater temperature 3///
Depth to bedrock		- Static water level ful	npumped level measured) 3/.4
	and roosel		pumping water level
Hole size (Also include rean	m 0 to 50		
	m 50 to 38.		No, flow rateg p
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57) SAmples

Rec 6/28/86

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes; an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)					12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)	
DEPTH (feet)		TYPE OF ROCK OR SOIL REMARKS		Drilling		
om	То	(color, material, fossils, hardness, etc.)	(water, caving, cavities, broken, core, shot, (etc.)	Time (Min.)		
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		Section 1997 Committee			see attach	
		The fire Common care white the			Det unach	
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	3		All Services			

#### State Water Control Board Regional Offices

Valley Reg. Off. 116 North Main Street P. O. Box 268 Bridgewater, Va. 22812 703 828-2595

Southwest Reg. Off. 403 East Main Street P. O. Box 476 Abingdon, Va. 24210 703-628-5183

West Cantral Reg. Off, Exacutive Park 3312 Peters Creek Road mke, Va. 24019 - 982 - 7432 Piedmont Reg Off 4010 West Broad Street P O Box 6616 Richmond, V4 23230 804 257-1006 14

Tidewater Reg. Off. 287 Pembroke Office Park Suite 310 Pembroke No. 2 Va. Beach, Va. 23462 804-499-8742

Northern Virginia Reg. Off 5515 Cherokee Avenue Suite 404 Alexandria, Va. 22312 703-750-9111

13.	Well lot dedicated?	; Size	ft. X	ft., Well	house?
	Distance to nearest poll	utant source	ft.	, Type	
	Distance to nearest prop	perty line	ft.	, Building	ft.

WATER SERVICE PIPE: Checked	under	D 8 i (c	0.0	
minutes. Pipe size inche	s, Material			
Installer				
Date				

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signatura	Lay Richard	(2)	Seall. Date 52786
Signature	- They Succession	13	seall, Date of To
	(Well driffer or authorized person)		1-1.13
	0	License No.	15648

## GAMMON WELL CO., INC.

WELL DRILLING • PUMPS & WATER SYSTEMS INDUSTRIAL - COMMERCIAL - RESIDENTIAL RT 2 BOX 117B PROVIDENCE FORGE, VA 23140 (804) 966-2615

Submittal #7

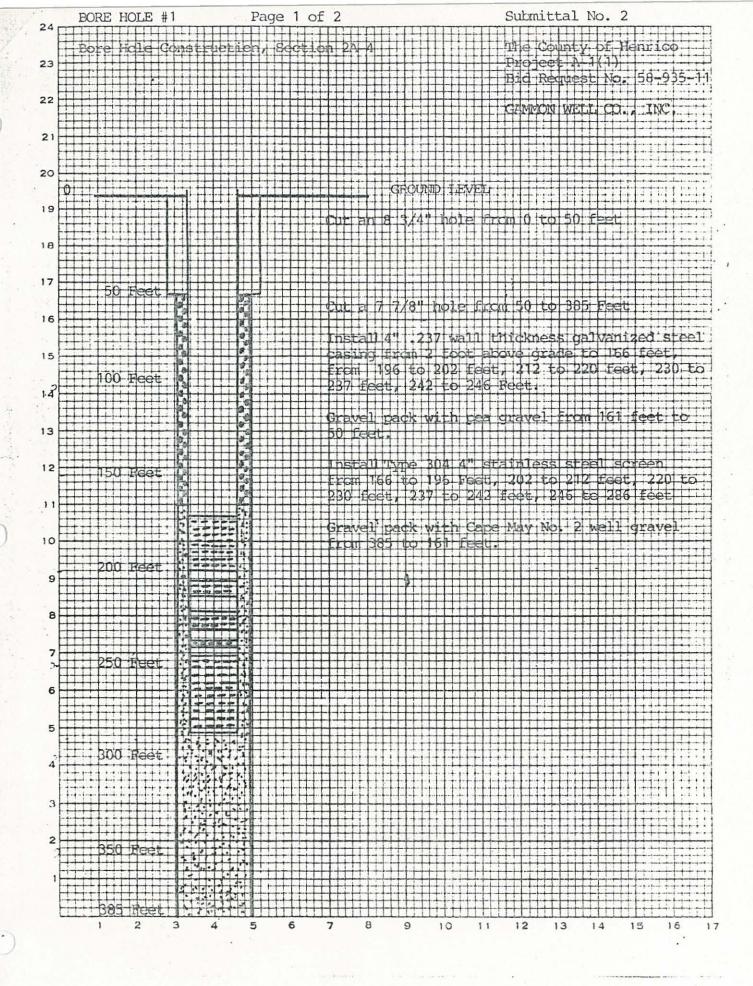
Page 1 of 1

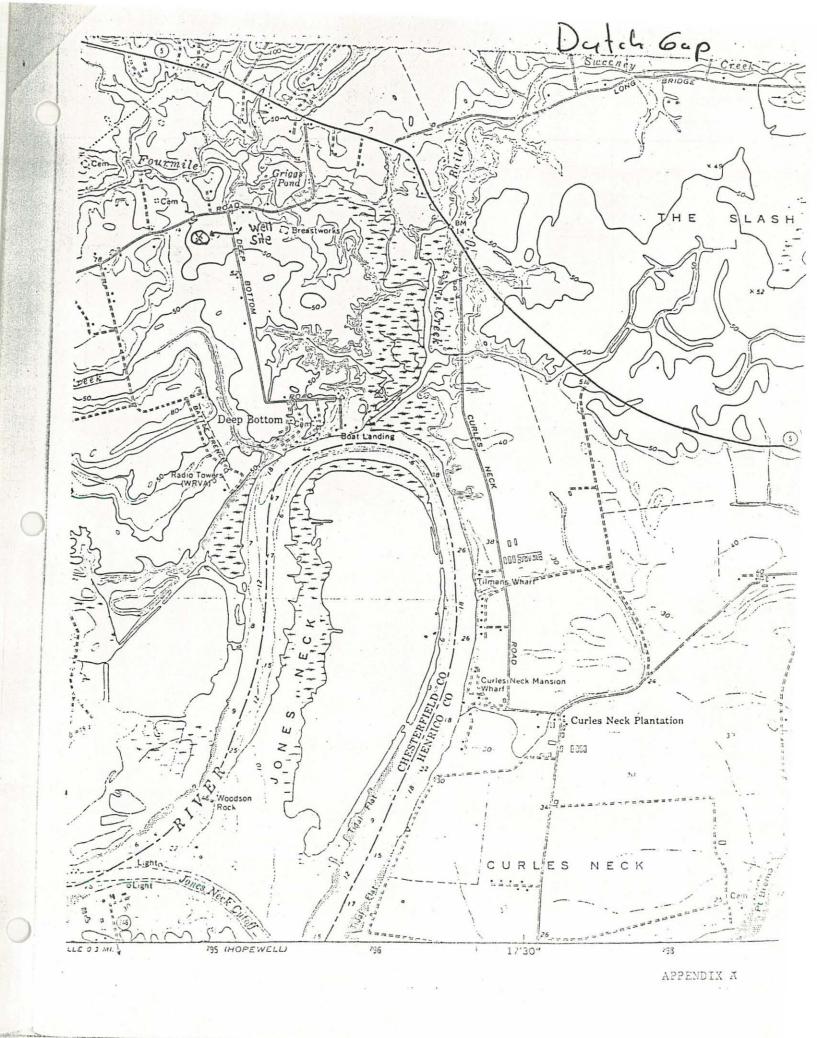
# PROJECT A-1(a) BORE HOLE # 1 DRILLER'S LOG

	DEPTH	TYPE OF ROCK OR SOIL
4-21-86	0 - 5 5 - 10 10 - 15	Topsoil, orange clay Orange clay, white clay White clay, orange clay, orange sand
	15 - 20 20 - 25	Orange sand, orange clay Orange sand, gravel (formation change & coarse gravel)
	25 - 30 30 - 35	Coarse gravel, orange clay (gray clay formation change)
	35 - 40 40 - 45 45 - 50	Gray clay, some gravel Some gravel, gray clay
	50 - 55 55 - 60	Gray clay, fine sand, small gravel Small flaky gravel, some green clay (formation change)
	60 - 65 65 - 70	Green sandy clay, small flaky gravel Small flaky gravel, green sandy clay Green sandy clay, gravel
	70 - 75 75 - 80	Gravel, sand, green sandy clay Green & white sandy clay, gravel
	80 - 85 85 - 90	Gravel Gravel
	90 - 95 95 - 100	Gravel Small gravel, green clay
	100 - 105 105 - 110	Green clay, white clay, small gravel, sand Greenish gray clay, small gravel (formation change)
	110 - 115 115 - 120	Green sandy clay, some small gravel Green sandy clay, small gravel
4-22-86	120 - 125 125 - 130	Small gravel, green sandy clay Green sandy clay, small gravel
	130 - 135 135 - 140	Green & white sandy clay, small gravel (formation change) White & Green sandy clay, small gravel
	140 - 145 145 - 150	Small gravel, white sandy clay White snady clay, small gravel, green sandy clay
	150 - 155 155 - 160	White sandy clay, larger gravel (formation change) Coarse gravel, dark gray clay (formation change)
	160 - 165 165 - 170	Dark gray clay Gray clay, gravel, sand (formation change 168 ft)
	170 - 175 175 - 180	Gravel sand Gravel sand
	180 - 185 185 - 190	Gravel sand Gravel, sand, tough green clay (formation change 185ft)
	190 - 195 195 - 200 200 - 205	Green clay, gravel, sand Gravel, sand, green clay (formation change dark gray clay 198ft) Dark gray clay, gravel (little more sand, green sandy clay, light gray clay
	205 - 210 210 - 215	Light gray clay, gravel, sand Gravel, light gray clay, sand
		,

# GROUND WATER EXPLORATION PROGRAM PROJECT A-1(a) BORE HOLE # 1 DRILLER'S LOG CONTINUED

	DEPTH	TYPE OF ROCK OR SOIL
	215 - 220	Sand, gravel, more gray clay than before
	220 - 225	Gray clay, gravel sand
	225 - 230	Light gray clay, gravel, sand (dark gray clay, formation change 232 ft)
	230 - 235	Dark gray clay, sand gravel
	235 - 240	Dark gray clay, sand, small gravel
	240 - 245	Dark gray clay, sand, small gravel
4-24-86	245 - 250	Dark gray clay, sand, small gravel, light greenish gray clay
Water to the second	250 - 255	Small gravel, sand light & greenish gray clay
	255 - 260	Small gravel, coarse gravel, white sandy clay (formation change 255ft)
	260 - 265	White sandy clay, sand, gravel
	265 - 270	Gravel, white sandy clay, sand
	270 - 275	Sand, gravel, light gray clay
	275 - 280	Light gray clay, sand, coarse gravel
	280 - 285	Coarse gravel, sand, light gray clay
	285 - 290	Light gray clay, sand, gravel, redish brown clay (formation change 285ft)
	290 - 295	Redish brown clay
	295 - 300	Redish brown clay
	300 - 305	Redish brown clay
	305 - 310	Redish brown clay, some gravel
	310 - 315	Redish brown clay, some gravel
	315 - 320	Redish brown clay, some small gravel
	320 - 325	Redish brown clay
	325 - 330	Redish brown clay, gravel, hard dry black clay
	330 - 335	Redish brown clay, gravel
	335 - 340	Redish brown clay, small gravel, decompossed granite (formation change)
	340 - 345	Redish brown clay, decompossed granite
	345 - 350	Redish brown clay, decompossed granite
	350 - 355	Redish brown clay, red sand stone, decompossed granite
A STATE OF THE STA	355 - 360	Redish brown clay, red sand stone, coarse gravel
	360 - 365	Redish brown clay, coarse gravel, red sandstone
	365 - 370	Red sandstone, gravel, redish brown clay
	370 - 375	Redish brown clay
	375 - 380 ,	Brown sandy clay, gravel
	380 - 385	Brown sandy clay, gravel
13.10		이 있는것 하셨습니다 살이 맛있다면 하다 보이는 것 같아 되었다면 하셨다면 하셨다면 하네요. 그 나는 나는 사람이 없는 것이다면 하셨다면 하셨다면 하셨다면 하다면 하나 하나 나를 다 되었다.
		보고를 받았습니다. 그리는 전환에 하는 그들은 하는 사이를 하는 것이 되었다. 사람은 전략하는데, 전 하는 모든 사람이 되었다.





#### VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

#### INTERVAL SHEET

Page 1 of 1

Date rec'd: 6/28/86 Date Processed: 7/1/86 Sample Interval: from Ø to: 385

PROPERTY: Henrico Co. Shound auter Exploration
Program Project A-La. (Bone Hole #1)

COMPANY: Lam man Well Co., tre: Total Depth: 385

COUNTY: Henrico

Oil or Gas: Water: Exploratory!

From-To

From-To

From-To

From-To

From-To	From-To	From-To	From-To	From-To
0-5 5-10- 10-15 15-20 20-25	150 -155 155 - 160 160 - 165 165 - 170 170 - 175	300 - 305 305 - 310 310 - 315 315 - 320 320 - 325		
25 - 30 30 - 35 35 - 40 40 - 45 45 - 50	75 - 180   80 - 185   185 - 190   190 - 195   195 - 200	325 - 330 330 - 335 335 - 340 340 - 345 345 - 350		= = = = = = = = = = = = = = = = = = = =
50 - 55 55 - 60 60 - 65 65 - 70 70 - 75	200 - 205 205 - 210 210 - 21.5 215 - 220 220 - 225	350 - 355 355 - 360 360 - 365 365 - 370 370 - 375		
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100 - 105 105 - 110 110 - 115 115 - 120 120 - 125	250 - 255 255 - 260 260 - 265 265 - 270 270 - 275	- - - - - -		=======================================
125-130 130-135 135-140 140-145 145-150	275 - 280 280 - 285 285 - 290 290 - 295 295 - 300	- - - - -		- - - - -

Both Worked of unwashed Samples.

Henrico County OWNER:

Groundwater Exploration Program, #1

DRILLER: Gammon Well Co., Inc. W# 6844 C# 258

TOTAL DEPTH:

385 Dutch Gap

QUAD: Henrico

ELEV:

58'

#### GEOLOGIC LOG

#### Depth (feet)

COUNTY:

- 0- 5 Sand, grayish orange (10YR 7/4), fine - to medium-grained, subangular to subrounded, moderately - well sorted; quartz (clear), clay, illmenite(?).
- 5- 10 Sand, as above.
- 10- 15 Sand, as above with 10-15% coarse granules.
- 15- 20 Gravel, multicolored - white to light brown (5YR 5/6), medium-gained to very coarse granule, angular to subrounded; poorly sorted; quartz feldspar, rock fragments, illmenite, clay; sand about 40-50% of sample.
- 20- 25 Gravel, as above with no sand; base of Windsor Formation.
- 25 30Sand, moderate yellowish brown (10YR 5/4), very fine - to fine-grained, subangular to rounded, moderately well sorted; quartz, qypsum (selenite), glauconite (20-25%); gravel is contamination from above.
- 30 35Sand, as above with 30% glauconite and moderate clay; sample 25-30 and 30-35 are weathered.
- 35- 40 Sand, as above with 40% glauconite and moderate clay.
- 40- 45 Sand, as above with 40% glauconite, moderate clay, Mollusca fragments, forams; base of the Aquia Formation.
- 45- 50 Sand with pea gravel, very pale orange (10YR 8/2), fine - to coarsegrained, angular to subrounded, poorly sorted; quartz (milky with white clay), feldspar, garnet, gravel (15-20%).
- 50- 55 Gravel with sand, very pale orange (10YR 8/2), pea gravel, about 60-70% of sample; sand same as 45'-50'.
- 55- 60 Gravel with sand, same as 50'-55'.
- 60- 65 Gravel with sand, same as 50'-55'.
- 65 70Gravel with sand, same as 50'-55'.
- 70- 75 Sand with pea gravel, same as 45'-50'.
- 75- 80 Gravel with sand, same as 50'-55'.

OWNER: Henrico County -2-Groundwater Exploration Program, #1

## Depth (feet)

- 80-85 Gravel, multicolored, pea size, variety of rock type mainly quartz, Quartzite, pegmatite; no sand.
- 85-90 Gravel, same as above.
- 90-95 Gravel with sand, same as 50'-55'.
- 95-100 Gravel, same as 80'-85'.
- 100-105 Gravel with sand, same as 50'-55'.
- 105-110 Gravel, same as 80'-85'.
- 110-115 Sand with pea gravel, same as 45'-50'.
- 115-120 Sand with pea gravel, same as 45'-50'.
- 120-125 Sand with pea gravel, same as 45'-50'.
- 125-130 Sand with pea gravel, same as 45'-50'.
- 130-135 Sand with pea gravel, same as 45'-50'.
- 135-140 Sand with pea gravel, same as 45'-50'.
- 140-145 Gravel with sand, same as 50'-55'.
- 145-150 Sand with pea gravel, same as 45'-50'.
- 150-155 Gravel with sand, same as 50'-55', minor clay.
- 155-160 Gravel with sand, same as 50'-55'; abundant gray, sandy clay.
- 160-165 Gravel, same as 80'-85'; abundant gray sandy clay.
- 165-170 Gravel, same as 80'-85'; minor clay.
- 170-175 Gravel, same as 80'-85'; minor clay.
- 175-180 Sand with pea gravel, same as 45'-50'.
- 180-185 Gravel with sand, same as 50'-55'.
- 185-190 Gravel with sand, same as 50'-55', with minor clay.
- 190-195 Gravel with sand, same as 50'-55'.
- 195-200 Gravel with sand, same as 50'-55'; abundant gray, sandy clay.
- 200-205 Sand with pea gravel, same as 45'-50', with minor clay.

OWNER: Henrico County -3-Groundwater Exploration Program, #1

#### Depth (feet)

- 205-210 Sand with pea gravel, same as 45'-50', with minor clay.
- 210-215 Sand with pea gravel, same as 45'-50'; abundant gray, sandy clay.
- 215-220 Sand with pea gravel, same as 45'-50'; abundant gray, sandy clay.
- 220-225 Sand with pea gravel, same as 45'-50'; abundant gray, sandy clay.
- 225-230 Gravel with sand, same as 50'-55'.
- 230-235 Sand with pea gravel, same as 45'-50', abundant gray, sandy clay.
- 235-240 Sand with pea gravel, same as 45'-50', abundant gray, sandy clay.
- 240-245 SAnd with pea gravel, same as 45'-50', abundant gray, sandy clay.
- 245-250 Sand with pea gravel, same as 45'-50', abundant gray, sandy clay.
- 250-255 Sand with pea gravel, same as 45'-50', abundant gray, sandy clay.
- 255-260 Sand with pea gravel, same as 45'-50'.
- 260-265 Sand with pea gravel, same as 45'-50', gray, sandy clay.
- 265-270 Sand with pea gravel, same as 45'-50', minor clay.
- 270-275 Sand with pea gravel, same as 45'-50', minor clay.
- 275-280 Sand with pea gravel, same as 45'-50', minor clay.
- 280-285 Gravel with sand, same as 50'-55'.
- 285-290 Gravel with sand, same as 50'-55'; siltstone, dark reddish brown (10R 3/4) to greenish gray (5GY 6/1), brown color result of weathering; top of Triassic in this sample.
- 290-295 Siltstone and clay, dark reddish brown (10R 3/4) to greenish gray (5GY 6/1); gravel is contamination.
- 295-300 Sandstone with clay matrix, framework grains quartz and feldspar, medium to coarse-grained, angular to subrounded, moderately sorted; some dark reddish brown siltstone.
- 300-305 Sandstone, same as above.
- 305-310 Sandstone, same as above.
- 310-315 Sandstone, same as above.
- 315-320 Sandstone, same as above.

OWNER:	Henrico County -4- W# 6844 Groundwater Exploration Program, #1
Depth (feet)	
320-325	Sandstone, same as above.
325-330	Sandstone, same as above.
330-335	Sandstone, same as above.
335-340	Sandstone with clay matrix, greenish gray (5GY 6/1) with faint reddish tint; framework grains quartz and feldspar, fine - to medium-grained, angular to subangular, moderately sorted.
340-345	Sandstone, same as above.
345-350	Sandstone, same as above, more reddish brown color.
350-355	Sandstone, same as 295'-300'.
355-360	Sandstone, same as 295'-300'.
360-365	Sandstone, same as 295'-300'.
365-370	Sandstone, same as 295'-300'.
370-375	Sandstone, same as 335'-340'.
375-380	Sandstone, same as 335'-340'.
380-385	Sandstone, same as 335'-340'.
	GEOLOGIC SUMMARY
0 - 25	Rock Unit
0- 25	Windsor Formation Pliocene(?)
25-245	Aquia Formation Paleocene

Potomac Group

Newark Supergroup

245-290

290-385

Virginia Division of Mineral Resources Eugene K. Rader, Geologist August 27, 1986

Cretaceous

Triassic