

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

INTERVAL SHEET

Page 1 of 1

Well Repository No.: W- 7358

Date rec'd: Date Processed: 4/23/97

Sample Interval: from 0 to: 350'

PROPERTY: Garnet of Virginia #1

Number of samples: 35

COMPANY: Sydnor Hydrodynamics, Inc.

Total Depth: 349'

COUNTY: King George

Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-100	-	-	-	-
100-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-200	-	-	-	-
200-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-300	-	-	-	-
300-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-

Unwashed only.

COMMONWEALTH OF VIRGINIA  
WATER WELL COMPLETION REPORT

BWCM No. \_\_\_\_\_

(Certification of Completion/County Permit)

State Water Control Board  
P. O. Box 11143  
2111 North Hamilton St.  
Richmond, Va. 23220

County/City KING GEORGE COUNTY

County/City Stamp

SWCS Permit _____
County Permit _____
Certification of inspecting official: This well does _____ does not _____ meet code/low requirements.
S. _____
Date _____
For Office Use

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
• Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• River Basin _____
• Province _____
• Type Logs _____
• Cuttings _____
• Water Analysis _____
• Aquifer Test _____

• Owner Garnet of Virginia

• Well Designation or Number 1

Address 2457 Birchwood Creek Road  
King George, VA 22485

Phone (540) 775-3125

• Drilling Contractor Sydnor Hydrodynamics, Inc.

Address 2111 Magnolia Street  
Richmond, VA 23223

Phone (804) 643-2725

Tax Map I.D. No. _____
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____
IIIB _____, IIIA _____, IIIB _____
IIIC _____, IIIO _____, IIIE _____

WELL LOCATION: 475 (feet/miles N/E direction) of SR605

and 1250 feet/miles (direction) of SR 605

(If possible please include map showing location marked)

Date started 8/14/96 • Date completed 9/13/96 Type rig Mud Rotary

1. WELL DATA: New  Reworked \_\_\_\_\_ Deepened \_\_\_\_\_

• Total depth 349' ft.

• Depth to bedrock \_\_\_\_\_ ft.

• Hole size (Also include reamed zones)

- 30 inches from 0 to 6 ft.
- 20 inches from 6 to 100 ft.
- 13 inches from 100 to 349 ft.

• Casing size (I.D.) and material

- 22 inches from 0 to 6 ft.  
Material Black Steel  
Wt. per foot 88.61 or wall thickness .375 in.
- 14 inches from 0 to 100 ft.  
Material Black Steel  
Wt. per foot 55.80 or wall thickness .375 in.
- 6 inches from +2 to 262 ft.  
Material Black Steel  
Wt. per foot 19.13 or wall thickness .280 in.
- 6 inches from 292 to 304 ft.  
Material Spool Type 304 Stainless Steel  
Wt. per foot 19.13 or wall thickness .280 in.
- 6 inches from 324 to 329 ft.  
Material Spool Type 304 Stainless Steel  
Wt. per foot 19.13 or wall thickness .280 in.

• Screen size and mesh for each zone (where applicable)

- 6 inches from 262 to 292 ft.  
• Mesh size .020 Type 304 Stainless Steel
- 6 inches from 304 to 324 ft.  
• Mesh size .020 Type 304 Stainless Steel

• Gravel pack

- From 0 to 349 ft.
- From \_\_\_\_\_ to \_\_\_\_\_ ft.

2. WATER DATA • Water temperature \_\_\_\_\_ °F

- Static water level (undumped level-measured) 50.77 ft.
- Stabilized measured pumping water level 81.31 ft.
- Stabilized yield 175 gpm after 48 hours
- Natural Flow: Yes \_\_\_\_\_ No  Flow rate \_\_\_\_\_ gpm
- Comment on quality \_\_\_\_\_

1. WATER ZONES: From 262 to 292

From 304 To 324 From \_\_\_\_\_ To \_\_\_\_\_

From \_\_\_\_\_ To \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

4. USE DATA:

Type of use: Drinking  Livestock Watering \_\_\_\_\_

Irrigation \_\_\_\_\_ Food processing \_\_\_\_\_ Household \_\_\_\_\_

Manufacturing \_\_\_\_\_ Fire safety \_\_\_\_\_ Cleaning \_\_\_\_\_

Recreation \_\_\_\_\_ Aesthetic \_\_\_\_\_ Cooling or heating \_\_\_\_\_

Injection \_\_\_\_\_ Other \_\_\_\_\_

• Type of facility: Domestic \_\_\_\_\_, Public water supply

Public institution \_\_\_\_\_ Farm \_\_\_\_\_ Industry \_\_\_\_\_

Commercial \_\_\_\_\_, Other County Landfill

5. PUMP DATA: Type \_\_\_\_\_ • Rated H.P. \_\_\_\_\_

- Intake depth \_\_\_\_\_ • Capacity \_\_\_\_\_ at \_\_\_\_\_ head

6. WELLHEAD: Type well seat Pitless to be installed

Pressure tank \_\_\_\_\_ gal. Loc. \_\_\_\_\_

Sample tap \_\_\_\_\_, Measurement port \_\_\_\_\_

Well vent \_\_\_\_\_, Pressure relief valve \_\_\_\_\_

Gate valve \_\_\_\_\_, Check valve (when required) \_\_\_\_\_

Electrical disconnect switch on power supply \_\_\_\_\_

7. DISINFECTION: Well disinfected  yes \_\_\_\_\_ no \_\_\_\_\_

Date 9/10/96 Disinfectant used Chlorine & HTH

Amount 5 gal & 3 lbs, Hours used 24 hours

8. ABANDONMENT (where applicable) • yes \_\_\_\_\_ no \_\_\_\_\_

Casing pulled yes \_\_\_\_\_ no \_\_\_\_\_ not applicable \_\_\_\_\_

Plugging grout From \_\_\_\_\_ to \_\_\_\_\_ material \_\_\_\_\_

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)			REMARKS (water, caving, cavities, broken, core, shot, etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
DEPTH (feet)	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)				
From	To				
0	6	Fill Dirt			
6	23	Yellow Sandy Clay			
23	40	Gray Clay & Gravel. Some Black Sand			
40	49	Green Clay			
49	98	Green Clay & Shells			
98	149	Green Clay & Gravel			
149	160	Green Clay & Gravel			
160	170	Brown, Green & Gray Clay			
170	190	Green Clay			
190	200	Fine Sand			
200	230	Brown & Green Clay			
230	245	Med Sand			
245	250	Green Clay			
250	265	White Sandy Clay			
265	289	Coarse Sand			
289	300	Coarse Sand			
300	335	Fine Sand			
335	349	Brown & Green Clay			

13. Well lot dedicated? \_\_\_\_\_; Size \_\_\_\_\_ ft. X \_\_\_\_\_ ft.; Well house? \_\_\_\_\_  
 Distance to nearest pollutant source \_\_\_\_\_ ft., Type \_\_\_\_\_  
 Distance to nearest property line \_\_\_\_\_ ft., Building \_\_\_\_\_ ft.

14. WATER SERVICE PIPE: Checked under \_\_\_\_\_ p. s. i. for \_\_\_\_\_ minutes. Pipe size \_\_\_\_\_ inches, 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.

**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.  
 408 East Main Street  
 P. O. Box 476  
 Abingdon, Va. 24210  
 703-628-5183

West Central Reg. Off.  
 Executive Park  
 5312 Peters Creek Road  
 Roanoke, Va. 24019  
 703-982-7432

Piedmont Reg. Off.  
 4010 West Broad Street  
 P. O. Box 6616  
 Richmond, Va. 23230  
 804-257-1006

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

Signature \_\_\_\_\_ (Seal), Date 9/25/96  
 (Well driller or authorized person)  
Douglas H. Nelson License No. 621