

COMMONWEALTH OF VIRGINIA  
STATE WATER CONTROL BOARD  
P. O. Box 11143, 2111 North Hamilton Street  
Richmond, Virginia 23230  
Phone (804) 770-1411

~~Ken Nierke~~  
W-4259  
C-549

WATER WELL COMPLETION REPORT

PERMIT NUMBER 1-10 (Certification of Completion) DATE REC'D 20-25  
BWCM WELL NO. 11-19 (For use in all groundwater areas) TRUCK TAG NO. \_\_\_\_\_

LOCATION (Card 1)

COUNTY: Rockingham

WELL IS LOCATED APPROX. 1 1/2 feet/miles  
E (direction) of Lacy Springs and  
~~800-8500~~ feet/miles N (direction) of  
Road 806 and 2.50 ft. W. of Rd. 717

WELL IS NEWLY CONSTRUCTED X 26 OR IS AN  
ALTERATION, REHABILITATION, OR EXTENSION  
OF AN EXISTING WELL 27. NUMBER OF  
CERTIFICATE OF GROUNDWATER RIGHT OF EXIST-  
ING WELL, IF APPLICABLE \_\_\_\_\_  
28-37

FOR OFFICE USE:

VA. PLANE COORDINATES: \_\_\_\_\_ N \_\_\_\_\_ E  
38-43 44-50

TOPOGRAPHIC MAP NUMBER: \_\_\_\_\_  
51-55

OWNER (Card 2)

NAME: Kline Realty (Lacy Heights) 11-40  
STREET: 1469 South Main Street 41-55  
CITY: Harrisonburg 34-72  
STATE: VA ZIP: 22801  
73-74 75-79

DRILLER (Card 3)

NAME: \_\_\_\_\_ 11-40  
STREET: \_\_\_\_\_ 41-55  
CITY: \_\_\_\_\_ 34-72  
STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
73-74 75-79

CONTRACTOR (Card 4)

SIGNATURE: \_\_\_\_\_  
NAME (type): Burner Well Drilling, Inc. 11-40  
STREET: Box 98 41-55  
CITY: McGaheysville 34-72  
STATE: VA ZIP: 22840  
73-74 75-79

BASIC DATA (Card 5)

DATE STARTED: 7/25/74 DATE COMPLETED: 8/1/74 DEPTH DRILLED: 437  
11-16 17-22 23-28

DEPTH OF COMPLETED WELL: 437 STATIC WATER LEVEL: 95 feet below land surface.  
27-30 31-33

YIELD TEST: Pumped Method; Drawdown 210 feet; Yield 30 gpm; Duration 72 hours.  
34-35 36-38 39-42 43-44

WAS THE WELL LOGGED? ~~YES~~ No; if Yes, BY WHOM? N/A; TYPE OF LOG(S): N/A  
45 46-55 56-58

WAS THE WATER ANALYZED? ~~YES~~ No; if Yes, BY WHOM? N/A. TYPE OF RIG: Air Rotary  
59 60-68 69-71

WELL TO SUPPLY: ~~XXXXX/XXXXX/XXXXX/XXXXX/XXXXX/XXXXX/XXXXX/XXXXX/XXXXX/XXXXX~~ Subdivision XXXXX  
(circle which) 72 73 74 75 76 77 78

WERE WELL DRILLINGS SAVED? Yes YES (Well cuttings should be collected at 10-foot inter-  
vals and shipped express collect to this office in a shipping container. Sample bags  
are furnished free of charge upon request).  
79

PUMP DATA (Card 6)

BRAND NAME: Goulds 11-30  
TYPE: Submersible 31-43  
MODEL NUMBER: 2SEL50412 46-60  
RATED CAPACITY: 30 gpm at  
61-65 340 feet of head. 66-68  
DEPTH OF INTAKE: 380 69-71  
RATED HORSEPOWER: 5 72-74

CONSTRUCTION DATA (Card 7)

HOLE SIZE: 10 inches from 0 to 100 feet 11-12 13-20  
8 inches from 100 to 220 feet 21-22 23-30  
6 1/8 inches from 220 to 350 feet 31-32 33-40  
6 inches from 350 to 437 feet  
CASE SIZE: 6 inches from 5" to 220 feet 41-42 43-50  
6 inches from \_\_\_\_\_ to \_\_\_\_\_ feet 51-52 53-60  
6 inches from \_\_\_\_\_ to \_\_\_\_\_ feet 61-62 63-70

GROUTING? Yes NO; from surface to  
71 100 feet.  
72-74

SCREEN DATA (Card 8)

DOES THE WELL HAVE SCREENS? ~~Yes~~<sup>11</sup>/No; OR  
 DOES THE WELL HAVE SLOTTED OR PERFORATED PIPE? ~~Yes~~<sup>12</sup>/No

LOCATION OF SCREENS: Give the diameter and depth of all screens or sections of slotted or perforated pipe.

<u>13-14</u> inches from <u>15-18</u> to <u>19-22</u> feet	<u>43-44</u> inches from <u>45-48</u> to <u>49-52</u> feet
<u>23-24</u> inches from <u>25-28</u> to <u>29-32</u> feet	<u>53-54</u> inches from <u>55-58</u> to <u>59-62</u> feet
<u>33-34</u> inches from <u>35-38</u> to <u>39-42</u> feet	<u>63-64</u> inches from <u>65-68</u> to <u>69-72</u> feet

QUALITY DATA (Card 9)

DID ANY STRATUM CONTAIN WATER WHICH WAS UNUSABLE? Yes/No; TYPE OF WATER 11 13-22

DEPTH OF STRATUM: from 23-26 to 27-30 feet; from 31-34 to 35-38 feet. WATER TEMPERATURE: 39-40 °F

If a permit was not issued for this well and a USGS topographic map is not available, a written description and sketch map of well location will suffice.

DRILLER'S LOG

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc.; hardness, color, etc.)	REMARKS (water, caving, shot, screen, samples, etc.)
From	To		
0	48	Clay	No water from 0 to 100 ft.
48	70	Limestone	
70	70½	Mud seam	
70½	127	Limestone	
127	130	Mud seam	
130	138	Limestone	
138	140	Soft limestone	
140	210	Limestone	
210	218	Broken limestone	
218	270	Soft limestone	
270	285	Red rock	7 to 8 gpm Mud
285	320	Soft limestone	
320	332	Approx. 50% red and white rock, rest blue limestone	
332	437	Soft slate	

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

INTERVAL SHEET

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Well Repository No.: C-649 W- 4259

Date rec'd: 7/3/75 Date Processed: 11/17/75

Sample Interval: from 0 to: 437'

PROPERTY: Kline Realty  
 Lacey Heights Subdivision  
 COMPANY: Burner Well Drilling Company

Number of samples: 43

Total Depth: 437'

COUNTY: Rockingham (Lacey Sp.)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0- 10	350 - 360	-	-	-
10- 20	360 - 370	-	-	-
20- 30	370 - 380	-	-	-
30- 40	380 - 390	-	-	-
40- 50	390 - 400	-	-	-
50- 60	400 - 410	-	-	-
60- 70	410 - 420	-	-	-
70- 80	420 - 430	-	-	-
80- 90	430 - 437	-	-	-
90- 100	-	-	-	-
100- 110	-	-	-	-
-	-	-	-	-
120- 130	-	-	-	-
130- 140	-	-	-	-
140- 150	-	-	-	-
150- 160	-	-	-	-
160- 170	-	-	-	-
170- 180	-	-	-	-
180- 190	-	-	-	-
190- 200	-	-	-	-
200- 210	-	-	-	-
210- 220	-	-	-	-
220- 230	-	-	-	-
230- 240	-	-	-	-
240- 250	-	-	-	-
250- 260	-	-	-	-
260- 270	-	-	-	-
270- 280	-	-	-	-
280- 290	-	-	-	-
290- 300	-	-	-	-
300- 310	-	-	-	-
310- 320	-	-	-	-
320- 330	-	-	-	-
330- 340	-	-	-	-
340- 350	-	-	-	-

OWNER: Kline Realty (Lacey Heights)  
DRILLER: Burner Well Drilling Company  
COUNTY: Rockingham (Lacey Sp.)

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T.D.-437'

GEOLOGIC LOG

Depth  
(in feet)

0 - 10	Overburden — pink to tan silty matrix with rounded to angular, brown to red, weathered shale fragments, some angular quartz gravel, and red-weathered sandstone fragments
10 - 20	Overburden — tan silty-clay with fragments of light-gray to white, mottled yellow and red clay
20 - 30	" — more yellow ochereous clay chips
30 - 40	" — same as 10-20' interval
EDINBURG FORMATION	
40 - 50	Limestone — black, fine-grained
50 - 60	" "
60 - 70	" "
70 - 80	" "
80 - 90	" "
90 - 100	" "
100 - 110	" — dark-gray, fine-grained
110 - 120	No Sample
120 - 130	Limestone — black, fine-grained
130 - 140	" "
140 - 150	" — fossiliferous (casts of brachiopod shell fragments)
150 - 160	" Black, shaley chips

160 - 170	Limestone - dark-gray, some weathered, ocherous yellow chips
170 - 180	" "
180 - 190	" "
190 - 200	" "
200 - 210	" "
210 - 220	Limestone — gray, fine-grained, thin, ocherous yellow lamelli
220 - 230	" "
230 - 240	Limestone — black, fine-grained
240 - 250	Limestone — dark-gray, very fine-grained
250 - 260	Limestone — dark-gray, some weathered tan fragments with dark-gray lamelli
260 - 270	Limestone — dark-gray, with white calcite veins
270 - 280	Limestone — dark-gray to gray with some ocherous, orange-to yellow-stained chips
280 - 290	" "
290 - 300	Limestone — black, fine-grained, shaley chips
300 - 310	" " with some larger chips
310 - 320	" "
320 - 330	Limestone — fine-grained, predominantly gray; some red to pink chips of impure limestone, and white vein-calcite cleavage fragments
330 - 340	Limestone — gray to black, fine-grained
340 - 350	Limestone — gray, fine-grained; some shaley chips, fine pink bands or lamelli, and calcite veins with red stains
350 - 360	Limestone — black, fine-grained; shaley chips and larger fragments

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360 - 370	Limestone — black, fine-grained; shaley chips and larger fragments
370 - 380	" "
380 - 390	" "
390 - 400	" "
400 - 410	" "
410 - 420	" "
420 - 430	" " with minor amount of white vein calcite

GEOLOGIC SUMMARY

<u>Thickness</u> (in feet)	<u>Rock Unit</u>	<u>Age</u>
0 - 40	Overburden	—
40 - 430	Edinburg Formation	Ordovician

VA. DIVISION OF MINERAL RESOURCES  
William S. Henika, Geologist  
November 19, 1975