

DRILLER: REMOVE COPY AND RETAIN FOR YOUR RECORDS. RETURN COUNTY COPY TO COUNTY ENVIRONMENTAL AGENCY. SUBMIT COPY TO OWNER. RETURN ALL OTHER PARTS TO DEPARTMENT OF ENVIRONMENT, 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224.

1/10/03 O.V. SAB

C1 3848	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER <u>A 514292-A</u>

ST/CO USE ONLY DATE RECEIVED MM DD YY 8 13	DATE WELL COMPLETED MM DD YY 15 10-15-03	Depth of Well 22 300 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-94-3814 28 29 30 31 32 33 34 35 36 37
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OWNER Toll Brothers
 STREET OR RFD Pindel Chase TOWN Fulton
 SUBDIVISION PINDELL CHASE SECTION 1 LOT 1

WELL LOG			
Not required for driven wells			
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			
DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Brown mica	0	58	
Gray	58	105	
Brown	105	106	✓
Gray	106	280	
White	280	281	✓
Gray	281	300	

GROUTING RECORD	
WELL HAS BEEN GROUTED (Circle appropriate box)	yes <input checked="" type="checkbox"/> no <input type="checkbox"/>
TYPE OF GROUTING MATERIAL (Circle one)	
CEMENT <input checked="" type="checkbox"/> BENTONITE CLAY <input type="checkbox"/>	
NO. OF BAGS <u>21</u> NO. OF POUNDS <u>174</u>	
GALLONS OF WATER <u>126</u>	
DEPTH OF GROUT SEAL (to nearest foot)	
from <u>0</u> ft. to <u>58</u> ft.	
(enter 0 if from surface)	

CASING RECORD	
casing types insert appropriate code below	
<input checked="" type="checkbox"/> STEEL	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> PLASTIC	<input type="checkbox"/> OTHER
MAIN CASING TYPE <u>ST</u>	
Nominal diameter top (main) casing (nearest inch) <u>06</u>	Total depth of main casing (nearest foot) <u>63</u>
60 61 63 64 66 70	

OTHER CASING (if used)	
diameter inch	depth (feet) from to
_____	_____
_____	_____

SCREEN RECORD	
screen type or open hole	insert appropriate code below
<input checked="" type="checkbox"/> STEEL	<input type="checkbox"/> BRASS
<input type="checkbox"/> PLASTIC	<input type="checkbox"/> OPEN HOLE
<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO.: M S D 009

DRILLERS SIGNATURE [Signature]
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: D

DEPTH (nearest ft.)	
1 <u>No</u>	2 <u>63</u>
3 <u>300</u>	
4 _____	
5 _____	
6 _____	
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76 _____	

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

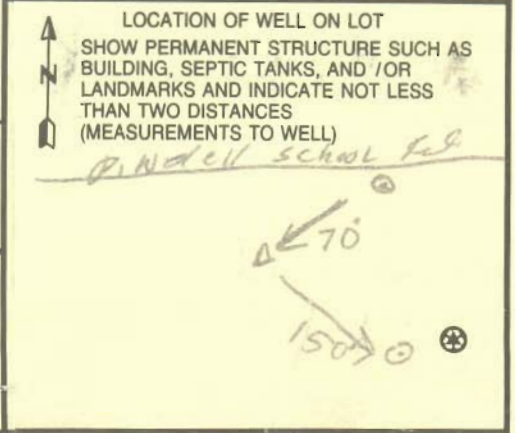
T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST		
HOURS PUMPED (nearest hour)	<u>3</u>	
PUMPING RATE (gal. per min.)	<u>8.5</u>	
METHOD USED TO MEASURE PUMPING RATE	<u>1 gal</u>	
WATER LEVEL (distance from land surface)		
BEFORE PUMPING	<u>21</u> ft.	
WHEN PUMPING	<u>74</u> ft.	
TYPE OF PUMP USED (for test)		
<input type="checkbox"/> air	<input type="checkbox"/> piston	<input type="checkbox"/> turbine
<input type="checkbox"/> centrifugal	<input type="checkbox"/> rotary	<input type="checkbox"/> other (describe below)
<input type="checkbox"/> jet	<input checked="" type="checkbox"/> submersible	

PUMP INSTALLED	
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.	
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.	<u>29</u>
CAPACITY: GALLONS PER MINUTE (to nearest gallon)	<u>31</u> <u>35</u>
PUMP HORSE POWER	<u>37</u> <u>41</u>
PUMP COLUMN LENGTH (nearest ft.)	<u>43</u> <u>47</u>
CASING HEIGHT (circle appropriate box and enter casing height)	
<input checked="" type="checkbox"/> above	LAND SURFACE
<input type="checkbox"/> below	<u>22</u> (nearest foot)



SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

B 1 **6061**

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
519552 please type

STATE PERMIT NUMBER
HD-94-3814
fill in this form completely

Date Received (APA) **082903**
8 MM DD YY 13
TOLL Brothers
15 Last Name Owner First Name 34
6830 Creekside Rd.
36 Street or RFD 55
Clarksville MD 21029
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
8 COUNTY **Howard** 21
23 SUBDIVISION **Pinecliff Chase** 42
SECTION 44 46 LOT 48 50
Columbia Fulton
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) **2** M 1
73 76 77 78

DRILLER INFORMATION
Allen Compton M SD 009
Driller's Name 76 License No. 81
Fogles Well Drilling
Firm Name
580 Obrecht Rd.
Address
Roller Gpt 833-03
Signature Date

B 4
1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

11 NEAR WHAT ROAD **Pinecliff Chase Dr** 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH NORTH
WEST WEST EAST EAST
SOUTH SOUTH
34 **60** 37 DISTANCE FROM ROAD FT
ENTER FT OR MI 38 39
TAX MAP: **41** BLK: **14** PARCEL **59**

B 2 WELL INFORMATION
1 2 APPROX. PUMPING RATE (GAL. PER MIN.) **5**
8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500**
14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
22 I INDUSTRIAL, COMMERCIAL, DEWATERING
 P PUBLIC WATER SUPPLY WELL
 T TEST, OBSERVATION, MONITORING
 G GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard COUNTY NAME **A514292A** COUNTY NO.
STATE SIGNATURE _____ INSERT S →
DATE ISSUED **10 10 03** Mark Kiffin 10/10/04
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID **486** 0 0 0 EAST GRID **0822** 0 0 0
50 55 57 63

APPROXIMATE DEPTH OF WELL **300** FEET
24 28

APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
30 AIR-ROTary AIR-PE-rcussion ROTARY (Hydraulic Rotary)
37 CABLE REVerse-ROTary DRive-POINT
other _____

REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)
 N THIS WELL WILL NOT REPLACE AN EXISTING WELL
 Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 D THIS WELL WILL DEEPEIN AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROP. PERMIT NUMBER **HD2003G003**
PERMIT No. **HD-94-3814**
70 71 72 73 74 75 76 77 78 79

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. WELL
2.
3.
WRITE THE BOX NUMBER FROM THE MAP HERE
E **822**
N **486**
000
000

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

SPECIAL CONDITIONS
*NOTE: - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-3814
 Location of property (road) Pindell Chase Dr
 Subdivision PINDELL CHASE Lot 1 Block _____ Plat _____ Sec. _____
 Well Driller Fogel's Owner Toll Bros

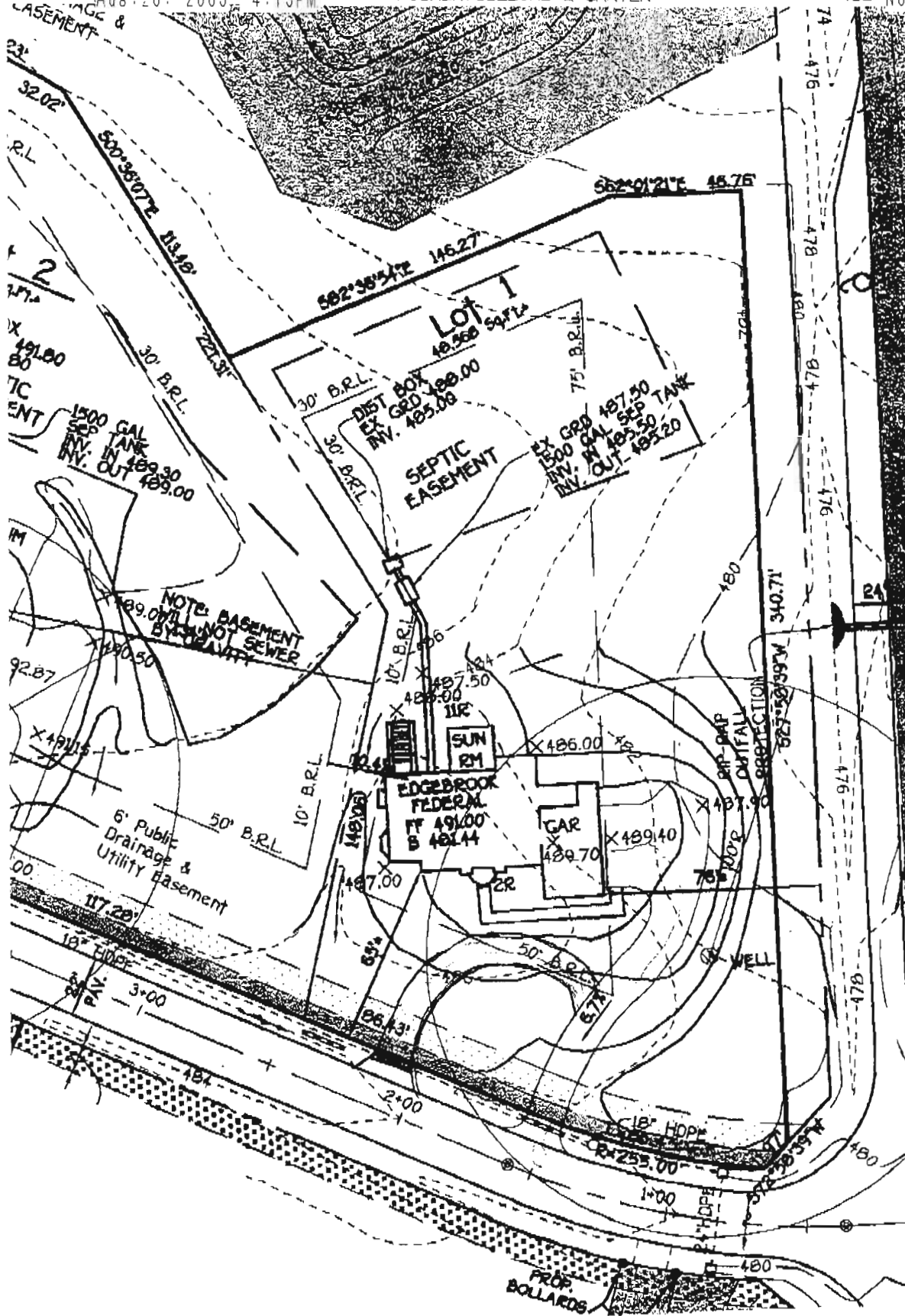
Depth of well 300
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 21'

I. High rate pumping -- reservoir drawdown

Time pump started 7:00 Pumping rate 20
 Total time 15 min to reach pumping water level 74' ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:00	21	3 seconds		20
7:15	74	7		8.5
7:30	74	7		8.5
7:45	74	7		8.5
8:00	74	7		8.5
8:15	74	7		8.5
8:30	74	7		8.5
8:45	74	7		8.5
9:00	74	7		8.5
9:15	74	7		8.5
9:30	74	7		8.5
9:45	74	7		8.5
10:00	74	7		8.5



Well
 Site
 OK - No Insp
 Staked
 by
 Surveyor
 MR
 10/10/03

SITE DEVELOPMENT PLAN

DINDELL CHASE

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Foakes Well Drilling Telephone #: 410-795-5670
Address: 580 Abrecht Rd
Sykesville, Md 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): Allen Compton License# MSD 009

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Toll Brothers Telephone #: _____
Subdivision: Pindell Chase Lot #: 1 Well Tag #: HO-99-3814
Site Address: 11704 Pindell Chase Dr.

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Go-Job</u>	Make: <u>Cornwell</u>	Two piece watertight cap: <u>yes</u>
Model #: <u>75B07422</u>	Model#: <u>N/A</u>	Screened, vented well cap: <u>yes</u>
Pump Capacity <u>7</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <u>yes</u>
Well Yield: <u>8.5</u> GPM	NSF approved: <u>yes</u>	Conduit min 18" B.G.: <u>yes</u>
Depth of well encountered at time of pump installation: <u>300</u> (feet)		Conduit secured to well cap: <u>yes</u>
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4		
Torque arrestors or Cable guards are required - Must circle one		
Safety rope, if used, attached to inside of well casing with eye bolt <u>N/A</u>		

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" Poly Plastic</u>	PVC sleeved to undisturbed soil at wall penetration: <u>yes</u>
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve: <u>5</u>
Depth of supply line: <u>42</u> (36" min)	Sleeve caulked and sealed properly: <u>yes</u>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

[Signature] 5-11-04
Signature of company representative responsible for installation date

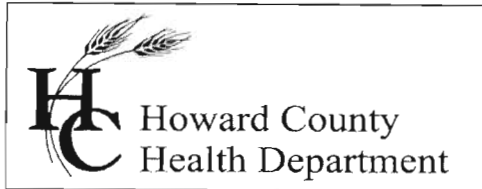
For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 2/26/04 (50) RB

Inspection Data:

Pitless adapter and water supply line at least 36" below grade	<input checked="" type="checkbox"/>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>
Safety rope installed inside of well casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>

RD-215 (Rev. 8/00)



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

May 17, 2004

Toll MD II
7164 Columbia Gateway Drive
Columbia, MD 21046

SENT VIA FACSIMILE 410-531-8472

RE: 11704 Pindell Chase Drive
Pindell Chase, Lot 1
BP # B00144667
Well Permit # HO-94-3814

Dear Sirs:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 05/12/2004.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the **initial** sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-94-3814. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department, as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

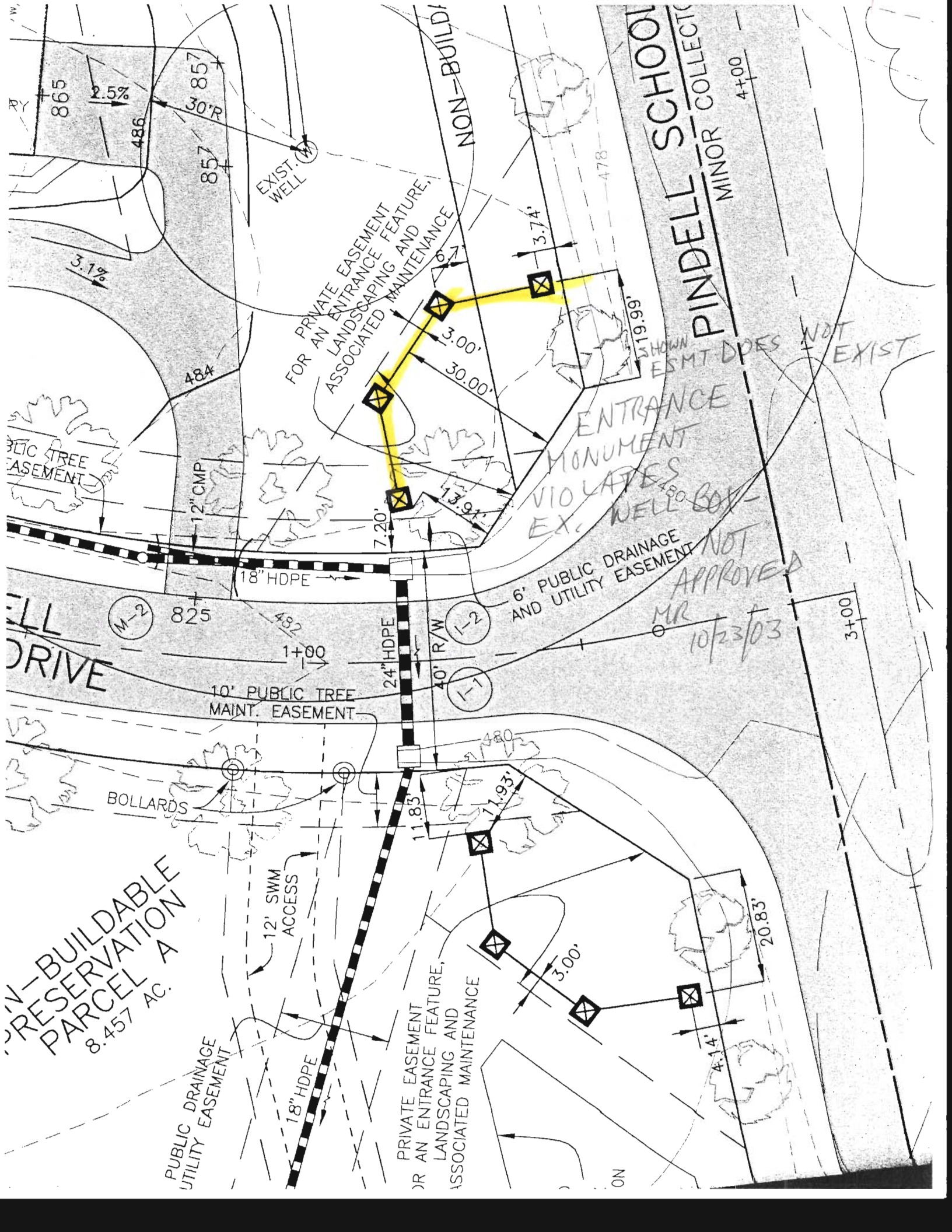
Date of Water Sample: 05/05/2004
Date of Well Completion: 10/15/2003

Respectfully,

Brian Baker, R. S.
Well and Septic Program

BB/mlb

cc: Building Inspector's Office
Community Services Program
File



PINDELL SCHOOL
MINOR COLLECTOR

NON-BUILDABLE

FOR PRIVATE EASEMENT
FOR AN ENTRANCE FEATURE,
LANDSCAPING AND
ASSOCIATED MAINTENANCE

ENTRANCE
MONUMENT
VIOLATES
EX. WELL

6" PUBLIC DRAINAGE
AND UTILITY EASEMENT

NOT
APPROVED
MR
10/23/03

NON-BUILDABLE
PRESERVATION
PARCEL A
8.457 AC.

PUBLIC DRAINAGE
UTILITY EASEMENT

PRIVATE EASEMENT
FOR AN ENTRANCE FEATURE,
LANDSCAPING AND
ASSOCIATED MAINTENANCE

865
2.5%

857
30'R

484

12" CMP

18" HDPE

7.20'

24" HDPE

10' PUBLIC TREE
MAINT. EASEMENT

11.83'

12' SWM
ACCESS

18" HDPE

480

11.93'

3.00'

20.83'

4.14'

478

4+00

3+00

SHOWN
ESMT DOES NOT
EXIST

ON