

C 1 5066

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 4/5/07

Depth of Well 500 (TO NEAREST FOOT)

4/16/07 O.K. RB

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0749

OWNER PRINCE INVESTMENTS L L C STREET OR RFD Huntfield Drive TOWN Fulton SUBDIVISION Prince Property SECTION SECTION LOT 6

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 FROM TO check if water bearing

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO Y N

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

DRILLERS LIC. NO. M W D 049 George F. Enderday DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. AW D 288

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

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO Y N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 39 NO. OF ROUNDS 3700 GALLONS OF WATER 234 DEPTH OF GROUT SEAL (to nearest foot) 56

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 60

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

SCREEN RECORD screen type or open hole insert appropriate code below STEEL BR BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

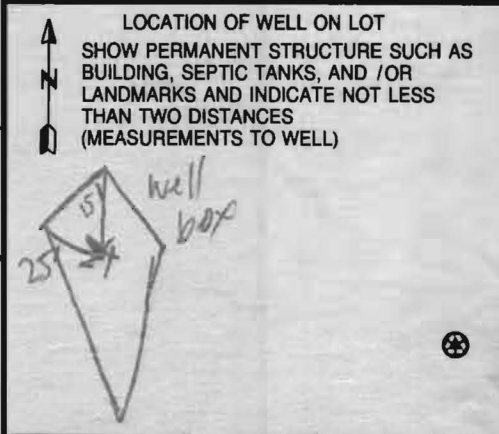
DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 40 PUMPING RATE (gal. per min.) 1 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 54 WHEN PUMPING 331 TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED DRILLER INSTALLED PUMP YES NO 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 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) + above - below LAND SURFACE 2 (nearest foot)



B 1 0318

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 526213

STATE PERMIT NUMBER

Ho-95-0749 fill in this form completely

Date Received (APA)

OWNER INFORMATION 10471

8 MM DD YY 13

Prince Investments L L C

15 Last Name Owner First Name 34

3905 National Drive, Suite 105

36 Street or RFD 55

Burtonsville, Md 20866

57 Town 70 State 72 Zip 76

LOCATION-OF WELL

Howard

CO# 21

8 COUNTY

Prince Property

23 SUBDIVISION 42

SECTION 44 46 LOT 5 48 50

Fulton

52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 1 M 1 73 76 77 78

DRILLER INFORMATION

George F. Easterday M W D 040

Driller's Name 76 License No. 81

L. Franklin Easterday, Inc.

Firm Name

9265 Brown Church Rd., MT. Airy, Md. 21771

Address

Signature George F. Easterday Date 1/25/2007

WELL INFORMATION

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)
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 13 A520082-E

COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S

DATE ISSUED 3/12/2007 Brian Baden 3/12/2008

43 MM DD YY 48 CO SIGNATURE EXP/DATE

NORTH GRID 477 0 0 0 EAST GRID 821 0 0 0

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)

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
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 G

PERMIT No. Ho-95-0749

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

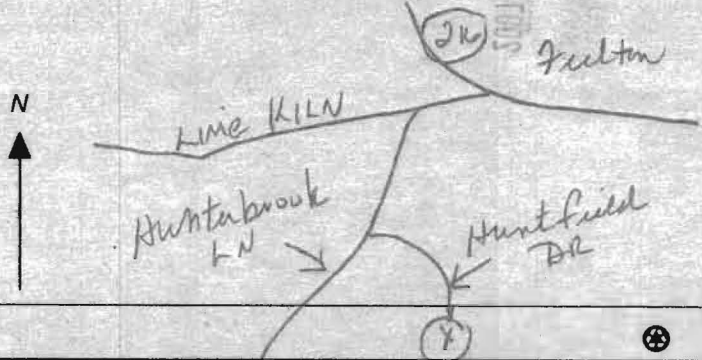
SOURCES OF DRILLING WATER

- 1. wells
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 821
N 477

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

8:30

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95-0749
 Location of property (road) Huntfield Drive
 Subdivision Prince Prop Lot 6 Block _____ Plat _____ Sec. _____
 Well Driller EASTDAY Owner PRINCE INVESTMENTS

Depth of well 500 1/2
 Distance of measuring point (M.P.) above ground 16"
 Static water level (S.W.L.) below M.P. 54"

I. High rate pumping -- reservoir drawdown

Time pump started 8:45 Pumping rate 206 P.M
 Total time 30min to reach pumping water level 329' ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes Pump 480'

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 1/2 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:15	329'	60 sec		1 G.P.M
9:30	329'	60 sec		1 G.P.M
9:45	329'	60 sec		1 G.P.M
10:00	329'	60 sec		1 G.P.M
10:15	329'	60 sec		1 G.P.M
10:30	329'	60 sec		1 G.P.M
10:45	329'	60 sec		1 G.P.M
11:00	329'	60 sec		1 G.P.M
11:15	329'	60 sec		1 G.P.M
11:30	330'	60 sec		1 G.P.M
11:45	330'	60 sec		1 G.P.M
12:00	330'	60 sec		1 G.P.M
12:15	330'	60 sec		1 G.P.M
12:30	330'	60 sec		1 G.P.M
12:45	330'	60 sec		1 G.P.M
1:00	330'	60 sec		1 G.P.M
1:15	330'	60 sec		1 G.P.M
1:30	330'	60 sec		1 G.P.M
1:45	330'	60 sec		1 G.P.M
2:00	331'	60 sec		1 G.P.M
2:15	331'	60 sec		1 G.P.M
2:30	331'	60 sec		1 G.P.M
2:45	331'	60 sec		1 G.P.M
3:00	331'	60 sec	Bruce	1 G.P.M
HD-224 3:15	331'	60 sec		1 G.P.M

**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 24.04.04 (MCO Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: R.L. Purkey P.E.H. Telephone #: 301-873-7901
Address: 4593 Griffith Rd.
Mt Airy Md 21271

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): Robert Purkey License# 17381

*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: S. BATTISTA Telephone #: 301 492 3458
Subdivision: Prince Property Lot #: 6 Well Tag #: HO 95-0749
Site Address: 8149 Huntfield Dr.
Fulton Md 20759

Submersible Pump Data

Make: FRANKLIN
Model #: SD 412 11X
Pump Capacity: 10 GPM
Well Yield: 12 GPM

Pitless Adapter

Make: Cambell
Model#: B-300 X
Depth: 48' (36" min)
NSF approved:

Well Cap and Electric Conduit

Two piece watertight cap:
Screened, vented well cap:
Cap secured to casing:
Conduit: min 1 1/2" E.C.:
Conduit secured to well cap:

Depth of well encountered at time of pump installation: _____ (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.3

Torque restrictors of Cable guards are required - Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt _____

Piping to house

Type: POLY
PSI: 200 (160 psi min)
Depth of supply line: 42 (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration:
Approximate length of sleeve: 10'
Sleeve caulked and sealed properly:

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.

Robert Purkey
Signature of company representative responsible for installation

4-24-09
date

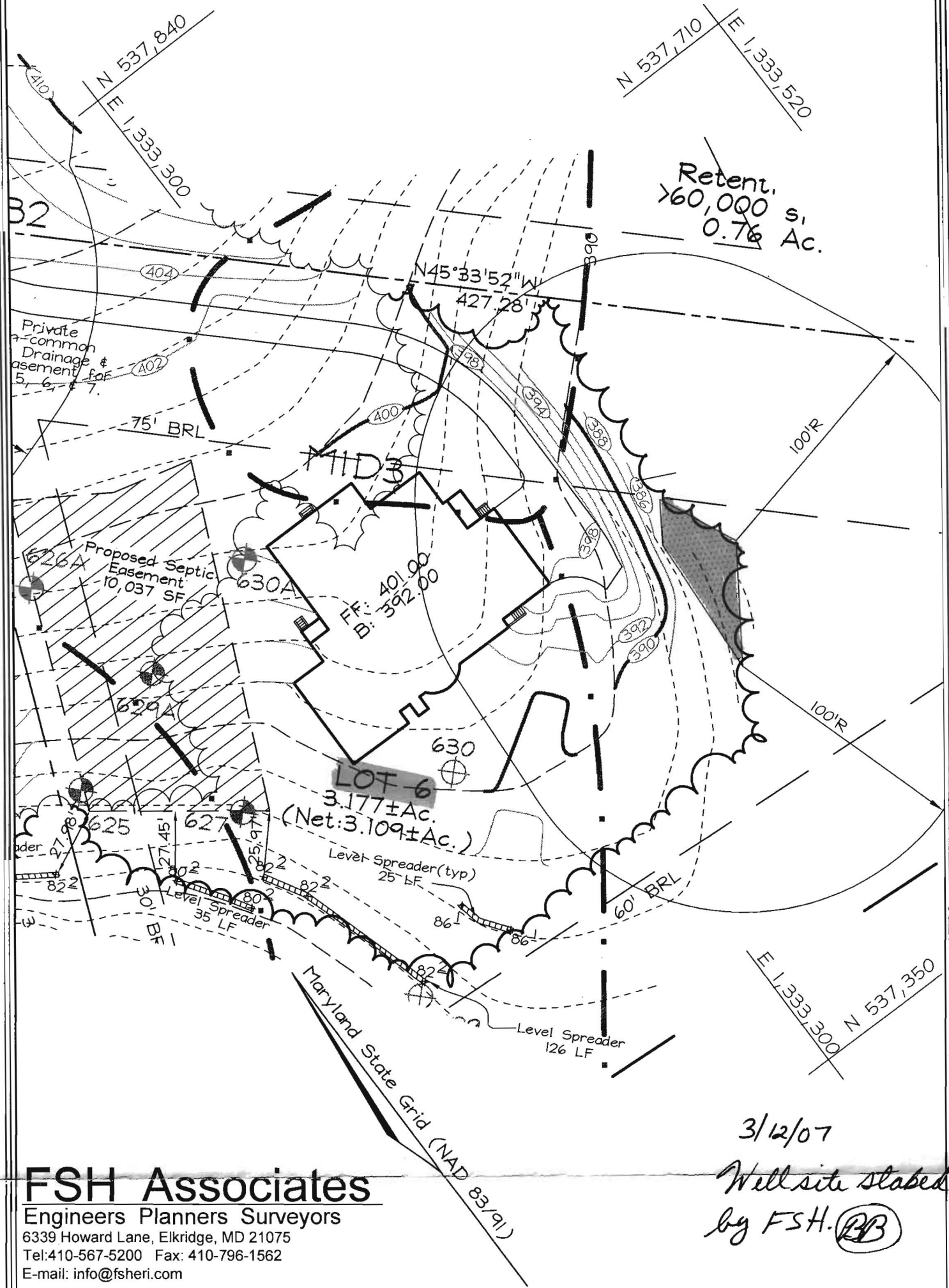
For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 7/16/08 (KW)

- Inspection Data: Pitless adapter and water supply line at least 36" below grade
- Two piece cap installed and attached to casing securely
- Elec. conduit extends at least 18" below grade/attached to cap properly
- Safety rope installed inside of well casing
- Correct well tag attached properly and casing 3" above finished grade
- Water supply line sleeved adequately at house connection
- Adequate grout observed below pitless adapter

Irrigation
Well Also
Good

Note:
 The proposed well box on this plan has been staked out in the field by FSH Associates, Professional Surveyor prior to well drilling.



Retent.
 >60,000 s,
 0.76 Ac.

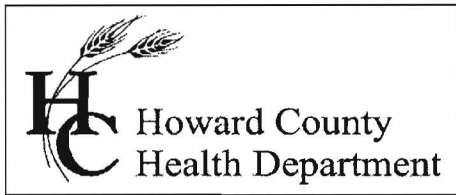
3/12/07
 Well site staked
 by FSH. (RB)

FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane, Elkridge, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@fsheri.com

DESIGN BY: ZYF
 DRAWN BY: SAR
 CHECKED BY: ZYF
 SCALE: 1"=50'
 DATE: Jan. 18, 2007
 W.O. No.: 3227
 SHEET No.: 6 OF 7

WELL PERMIT PLAN
PRINCE PROPERTY
 LOT 6

TAX MAP 46 GRID 01
 5TH ELECTION DISTRICT
 PARCEL 104
 HOWARD COUNTY, MARYLAND



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter Beilenson, M.D., M.P.H., Health Officer

5/15/09
~~*11/29/2009*~~

Homeowner
8149 Huntfield Drive
Fulton, MD 20759

RE: Prince Property - Lot 6
8149 Huntfield Drive
BP # B007002836
Well Permit # HO-95-0749

Dear Sir/Madam:

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 5/15/2009. Final approval of the well line connection to the dwelling was approved on 7/16/2008.**

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-95-0749. 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 Samples: 3/20/09

Date of Well Completion: 4/5/07

Approving Authority,

Brian Baker
Brian Baker, Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

Water Testing Laboratories

P.O. Box 712
Stevensville, MD 21666
410-643-7711

of Maryland, Inc.

Cromwell Builders
Mike Ponsi
9 Stone Meadow Court
Lutherville, Md 21093

Reporting Date: 4/1/2009
Report #: K5151

Submitted Sample Address: 8149 Huntfield Drive
Fulton, Md 20759
Submitted Sample Source: Bathroom sink
Date / Time Collected: 3/30/2009 09:00 AM
Sample Type: Drinking Water
Sampler/Company: D. Pitts 4322DP, WTL of MD
Field Record: Chlorine residual: Absent Clear when drawn
Well #: HO-95-0749

5/15/09
Sample Taken
Before Water
Treatment Installed
per Builder
(BB)

Analytical Results

Parameter	Result	Units	Detection Level	MCL	Analytical Method
Total Coliforms	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B
<i>E. Coli</i>	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B
Nitrates	5.7	mg/L	1.0	10	EPA 353.2
Nitrites	ND	mg/L	0.01	1.0	EPA 354.1
Sand	Absent	P/A	Present/Absent	Present	Visual
Turbidity	ND	NTU	0.5	10	SM 2130B
pH	6.3	SU	0.1	6.5-8.5 (SMCL)	EPA 150.1
Iron	ND	mg/L	0.1	0.3 (SMCL)	SM 3400D
Lead	ND	mg/L	0.005	0.015	SM 3113B

Notes:

- Bacteriological analysis of this sample indicates this water is Safe for human consumption.
- MCL is EPA's maximum contaminant level under primary drinking water regulations. SMCL is secondary maximum contaminant level and is the aesthetic quality only. If your result is above any MCL or SMCL, you may want to consider a water treatment system or a new well. Please check your local regulations for any restrictions or additional limits.
- ND - Not Detected.
- Sample received and examined within EPA's recommended holding time
- Analyzed by Lab 214.
- SM - Greenberg, Clesceri and Eaton, *Standard Methods for the Examination of Water and Wastewater*, 20th Ed.

Reported by,

Christine Rodgers

C. Rodgers, Customer Service Representative

Reviewed by: *BB*

Zach Y. Fisch

From: Daniel Thiele [dthiele@thielegeotech.com]
Sent: Monday, November 17, 2008 7:04 PM
To: Zach Y. Fisch; bruceryan@modernfoundations.com
Cc: Everett Owen
Subject: Prince Property, Parcel 104 (Lot 6), Howard County, MD
Expires: Wednesday, July 15, 2009 1:00 AM

I have reviewed the drawing depicting the possible future/alternate well locations relative to the Stone Strong precast modular retaining wall. I have run additional calculations to evaluate the impact of a water well drill rig operating near to the wall.

The first alternate well location is depicted south of the driveway at a distance over 25 feet from the face of the wall. Based on our revised calculations, if the drill rig is operated no closer than 12 feet from the face of the wall, the calculated safety factors are still above the recommended minimums.

The second location is further south near the end of the wall as presently designed. The wall height is substantially reduced in this area, and our calculations show that the drill rig can be safely operated as close as 5 feet from the face of the wall.

If these setback restrictions can be followed, then well installation at the future/alternate locations should not adversely impact the retaining wall.

Please contact me if you have any questions.
DT



Daniel J. Thiele, P.E.
13478 Chandler Road
Omaha, Nebraska 68138-3716
402/556-2171 Fax 402/556-7831

GEOTECHNICAL, MATERIAL, AND ENVIRONMENTAL ENGINEERING