

B 1 4969
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
532516 please type

STATE PERMIT NUMBER

Ho-95-1868
70 fill in this form completely 79

Date Received (APA) 11283

OWNER INFORMATION

8 MM DD YY 13
UNITED AIR TEMP (REGAN)
15 Last Name Owner First Name 34
4098 ROXMILL COURT
36 GLENWOOD, MD 21738 Street or RFD 55
57 Town 70 State 72 Zip 76

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: 1/28/2010

B 2 WELL INFORMATION
APPROX. PUMPING RATE (GAL. PER MIN.) 8 500 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 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 2 x 375' OK

APPROXIMATE DEPTH OF WELL 300 FEET
APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

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

REPLACEMENT OR DEEPEMED 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 DEEPEM AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROX. PERMIT NUMBER G
PERMIT No. Ho-95-1868
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Grant from bottom to top.

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

B 3 HOWARD LOCATION OF WELL
8 COUNTY 21
Roxbury Estates
23 SUBDIVISION 42
SECTION 44 46 LOT 48 50
Glenwood
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 2 M I
73 76 77 78

B 4 4098 Roxmill Court
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH N
WEST W EAST E
SOUTH S
34 75 37
DISTANCE FROM ROAD Ft.
ENTER FT OR MI 38 39
TAX MAP: 21 BLK: 14 PARCEL 201

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard (13)
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S 41
DATE ISSUED 2/22/10
43 MM DD YY 48 CO SIGNATURE EXP. DATE 2/22/10
NORTH GRID 518 000 EAST GRID 0786 000
50 55 57 63

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 789 6
N 518 8
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
8 J J 10
Sketch showing location of well in relation to nearby towns and roads. Labels include Glenwood, Roxmill, and Roxbury Mill Rd. A circled '97' is present near the well location.

© COUNTY

C1 6964

SEQUENCE NO. (DENV 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 061110

DATE WELL COMPLETED 031016

Depth of Well 22 26 (TO NEAREST FOOT)

OK 2/9/16 SC

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1868

OWNER last name first name TOWN SECTION LOT

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Includes handwritten entries for Brown mica, Conglomerate, etc.

GROUTING RECORD WELL HAS BEEN GRouted (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC NO. OF BAGS 47 NO. OF POUNDS 2350

CASING RECORD casing types insert appropriate code below ST CO STEEL CONCRETE PL OT PLASTIC OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

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

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

C2 DEPTH (nearest ft.) 1 116 93 375 2 3 38 39 41 45 47 51

CIRCLE APPROPRIATE LETTER 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...

DRILLERS IDENT. NO.

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

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

OEP 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

C3 PUMPING TEST HOURS PUMPED (nearest hour) PUMPING RATE (gal. per min. to nearest gal.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

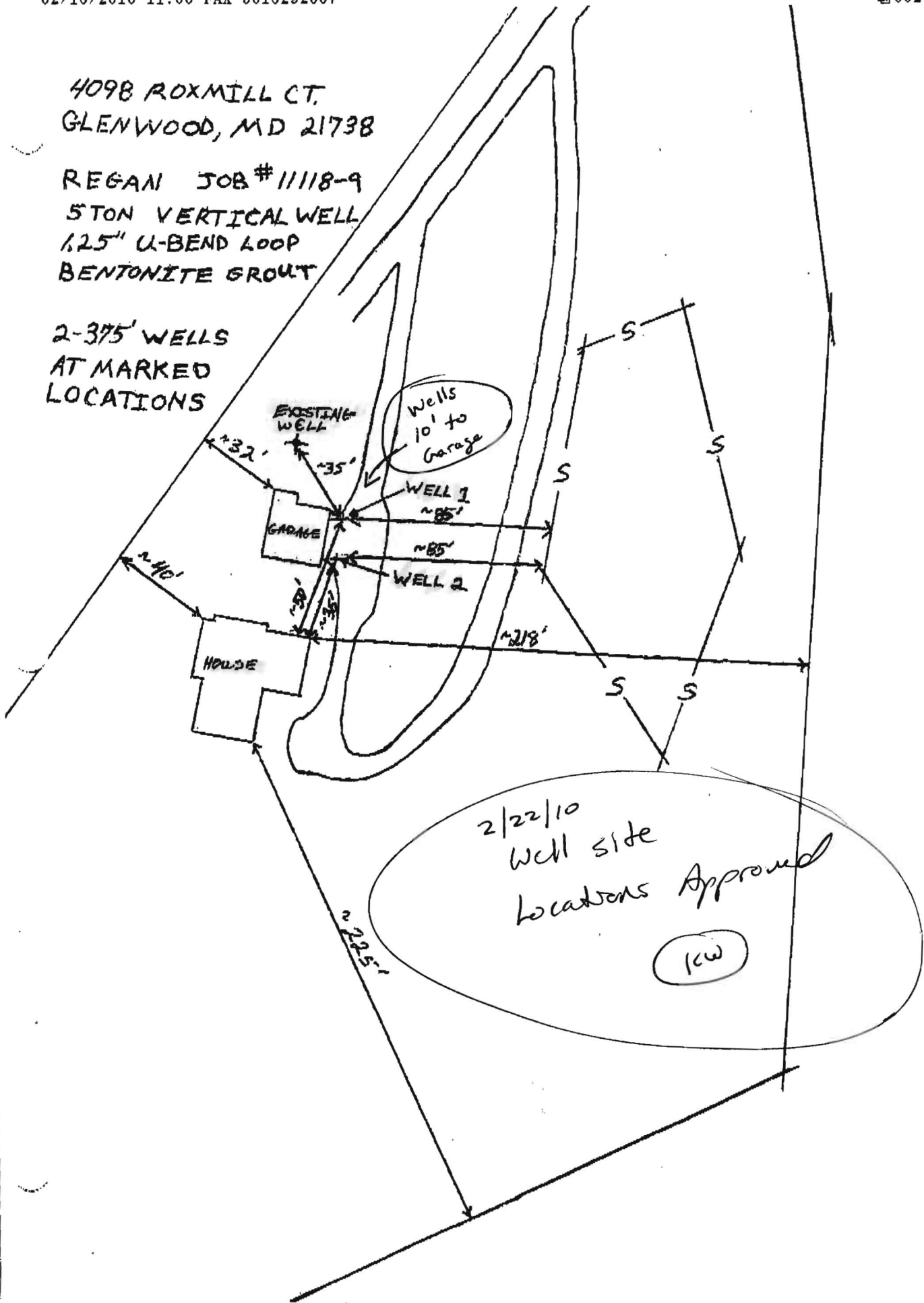
PUMP INSTALLED DRILLER WILL INSTALL PUMP YES NO (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) above below LAND SURFACE (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) Garage

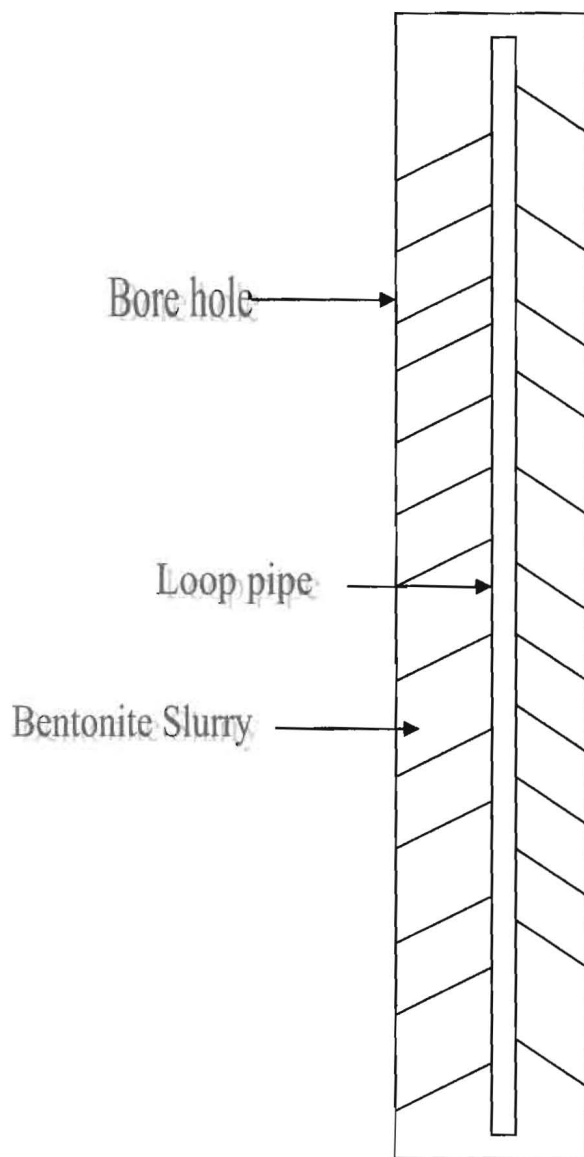
4098 ROXMILL CT.
GLENWOOD, MD 21738

REGAN JOB #11118-9
5TON VERTICAL WELL
1.25" U-BEND LOOP
BENTONITE GROUT

2-375' WELLS
AT MARKED
LOCATIONS



GEOHERMAL WELL DESIGN



Owner United AIR Temp (Regan)

Location 4098 Roxmill Court

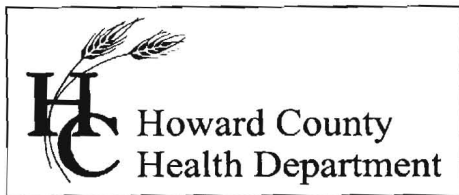
Number of wells 2

Depth 395 Loop Size 1 1/4

Grout Material-----Bentonite Slurry from bottom to G.L.

5010 EE - 1 V11 2:12

10/10/10 10:10



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

Friday, February 05, 2010

IMPORTANT

MEMORANDUM - Geothermal Wells

To: L. Franklin Easterday, Inc.
 FILE

From: Kevin Wolf, Environmental Sanitarian *(KW)*
 Well and Septic Program

** Mailed out to Driller on 2/5/2010*

Re: **Geothermal Wells**
 4098 Roxmill Court, Regan Property

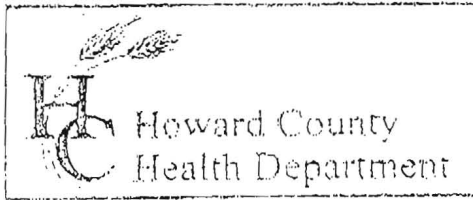
The following information needs to accompany the geothermal well application for the above referenced property prior to permit release:

- Please show on the **Site Plan** the nominal distances from the existing well to the geobores. In addition, please show the distance from the geobores to any septic system components. Are the bores located next to a garage? How far from the garage/house are the bores? Please show these distances on the site plan and re-submit to this office prior to any permit release.

Remember, geothermal setbacks are as follows:

Setbacks to→	Well	Septic	House	R.O.W.
CLOSED LOOP GEOTHERMAL	30ft	50ft (up-gradient) 100ft (down-gradient)	30ft	15ft
OPEN LOOP GEOTHERMAL	100ft	100ft		

Any questions please feel free to call me. 410-313-1771



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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

- The well site has been staked by marked on Blacktop & garage
 (professional land surveyor or company employing professional land surveyors)
 on 1-25-10 (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 6/10/03

0100 EE -1 VM 2:12