

C1 9632

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 7-28-91

Depth of Well 300 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1775

OWNER Gates, David STREET OR RFD 9391 Kings Grant TOWN Laurel MD SUBDIVISION Kings Woods SECTION 1 LOT 69

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Brn Clay, White Sand + clay, Brn Sand + Gumwood, Grey Green Clay, Black Rock.

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED [Y] [N]

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

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO. M 5 D 106 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D 873

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

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 30 NO. OF POUNDS 750 GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot) from 0 to 300 ft.

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE [ST] [CO] [PL] [OT] 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] [PL] [OT] STEEL BRASS BRONZE PLASTIC OPEN HOLE OTHER

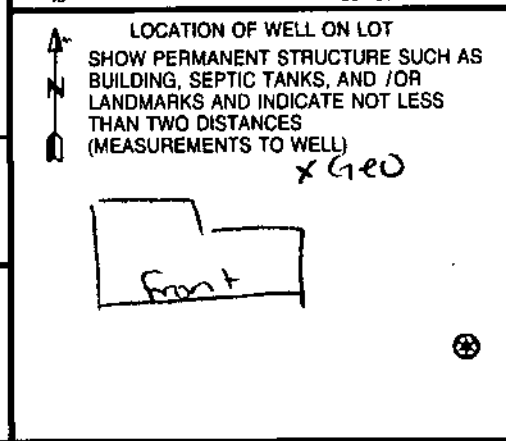
DEPTH (nearest ft.) SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) from to

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) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 ft. WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test) [A] air [P] piston [T] turbine [C] centrifugal [R] rotary [O] other (describe below) [J] jet [S] submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or 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 38 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 (nearest foot) 49 50 51



Minnick

B 1 2070

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 531032 please type

STATE PERMIT NUMBER HO-95-1775 fill in this form completely

Date Received (APA) 6/8/2009 OWNER INFORMATION Rates David M 9391 Kings Grant Rd Laurel Md 20723

LOCATION OF WELL Howard Kings Woods Laurel NEAREST TOWN MILES FROM TOWN

DRILLER INFORMATION Marshal Arnette MSD 106 Allied Environmental Services PO Box 1242, Millersville Md 21108

DIRECTION OF WELL FROM TOWN (CIRCLE BOX) ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) DISTANCE FROM ROAD 170 TAX MAP: 47 BLK: 15 PARCEL 1005

WELL INFORMATION APPROX. PUMPING RATE AVERAGE DAILY QUANTITY NEEDED

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard (13) Public COUNTY NAME COUNTY NO. DATE ISSUED 6/23/09 EXP. DATE 6/23/10

USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL 1 Closed Loop

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

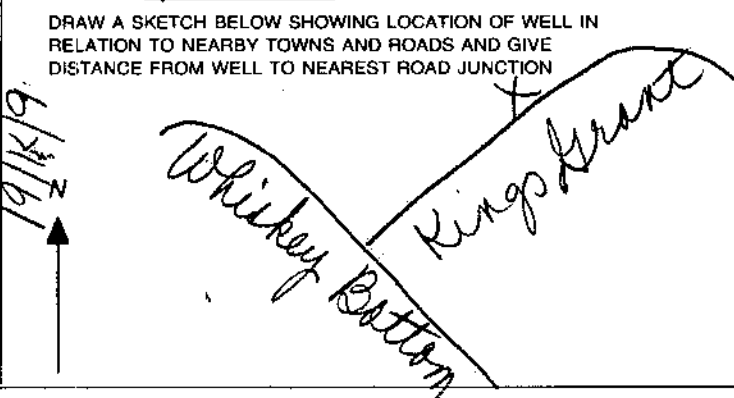
METHOD OF DRILLING (circle one) BORED (or Augered) AIR-ROTary CABLE other JETTED AIR-PERCussion REVerse-ROTary Jetted & DRIVEN ROTARY (Hydraulic Rotary) Drive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G PERMIT No. HO-95-1775

SPECIAL CONDITIONS

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1 Driller Well WRITE THE BOX NUMBER FROM THE MAP HERE E 8406 N 48070



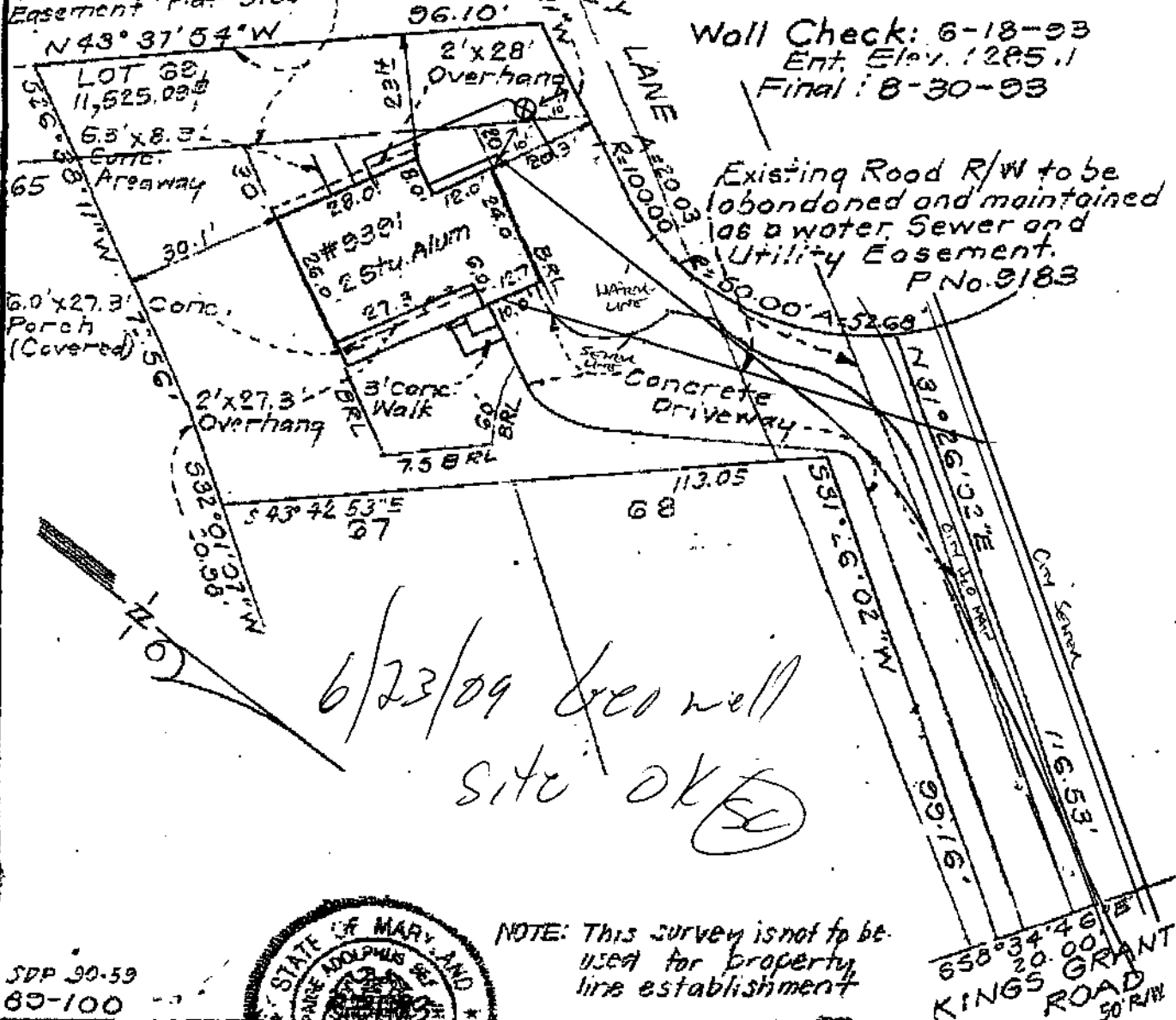
Minnick

NOTE: This Lot lies in an area classified as Zone-C area of minimal flooding, as shown on FIRM MAP of Howard County, Md. Community-Parcel Number 24004400 43-B, Panel 43 of 45, dated December 4, 1986.

LOCATION OF HOUSE
9391 KINGS GRANT ROAD
LOT 69
KINGS WOODS
SECTION ONE AREA TWO
LOTS 42 THRU 73
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

20' Drainage & Utility Easement Plat # 9183

Wall Check: 6-18-93
Ent. Elev. 1285.1
Final: 8-30-93



6/23/09 Geo well site OK

NOTE: This survey is not to be used for property line establishment



S.D.P. 90-59
89-100

658°34'46"E
20.00'
KINGS GRANT ROAD
50' R/W

BRUNING 40-22 60545-01

SURVEYORS CERTIFICATE

I hereby certify that the position of all existing improvements on the above described property have been carefully established by a transit tape survey and that unless otherwise shown, there are no encroachments.

[Signature] #304

CLARK • FINEBECK & SACKETT, INC.

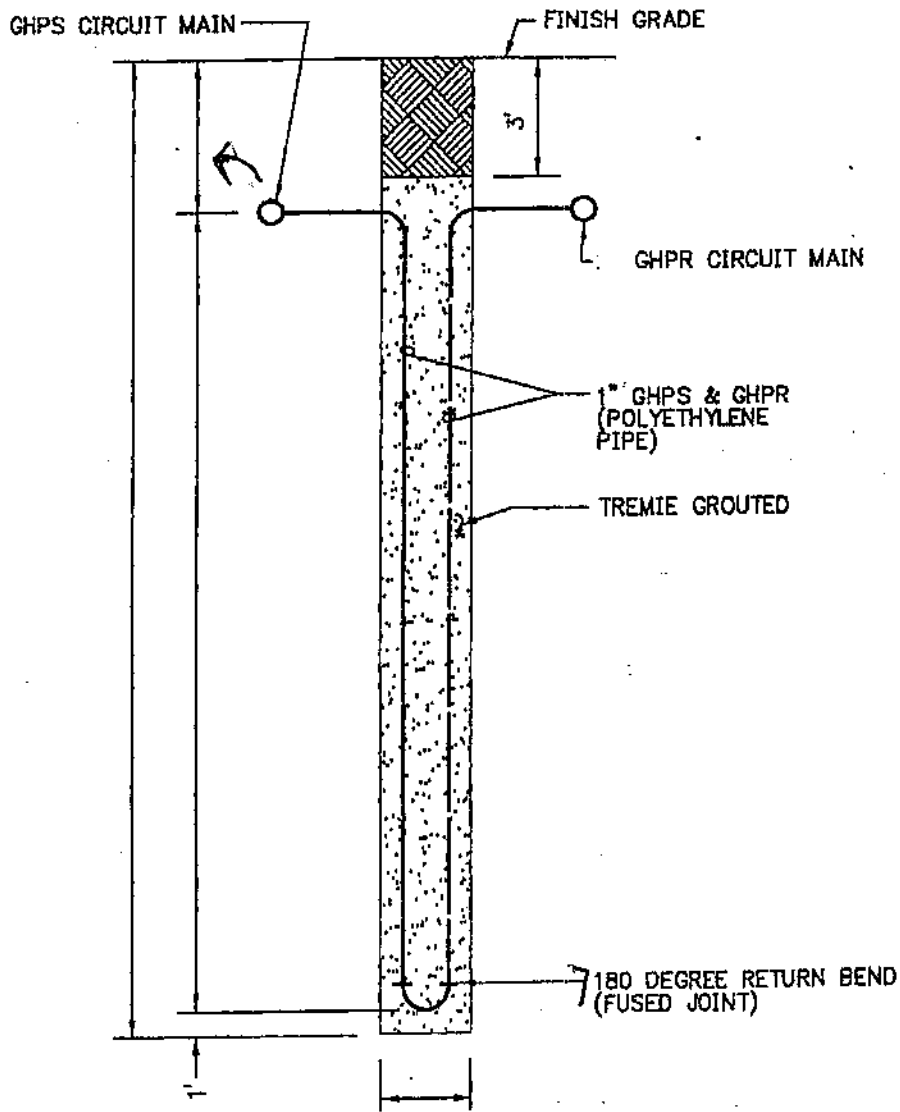
ENGINEERS • PLANNERS • SURVEYORS
7125 MINSTREL WAY COLUMBIA, MD. 21045
(410) 381-7500-BALTO. • (301) 621-8100-WASH.

REFERENCE	DRAWN BY KWC	CHECKED BY KWC
Plat 9183	DATE 8-30-93	FILE NO. 4594-W
	SCALE 1/2" = 30'	

9391 KINGS GRANT ROAD
LAUREL MD

DETAIL $\frac{1}{M.O.1}$

TYPICAL GHPS/GHPR CIRCUIT MAINS BELOW GRADE
NOT TO SCALE



DETAIL $\frac{2}{M.O.1}$

TYPICAL VERTICAL BOREHOLE
NOT TO SCALE

*Grouted with bentonite clay
from bottom to top.*

9391 KINGS GRANT ROAD

LAUREL M.D.



P.O. Box 1242, Millersville, MD 21108
p) 410-789-2711 f) 410-789-2712
www.alliedwells.com

23 June 2009

Re: 9391 Kings Grant Rd., Laurel, MD

To Whom it May Concern:

On the property listed above, there is limited access for a drilling location for the installation of a geothermal loop. The front yard is inaccessible due to several trees that exist. The back yard is inaccessible due to trees and the slope of the land. Therefore, the only location for the geothermal loop is where it is shown on the site plan submitted by Allied Well Drilling. I, David Gates, the owner of the property, agree with this loop location for these reasons.

Contractor:  Brian Sweeney

Homeowner:  David M. Gates