

C1 8588

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 13

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Buckner, Stephen; STREET OR RFD 1721 Willow Springs Dr.; TOWN Sykesville; SUBDIVISION Willow Highlands W568; SECTION; LOT 4

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, FEET (FROM, TO), check if water bearing. Rows include Top Soil, Tan Sand, Sandstone, Mika, Sandstone.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N); TYPE OF GROUTING MATERIAL (CM, BC); NO. OF BAGS, NO. OF POUNDS; GALLONS OF WATER; DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE (ST, CO, PL, OT); Nominal diameter top (main) casing; Total depth of main casing

OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

screen type or open hole (ST, BR, HO, PL, OT); insert appropriate code below

DEPTH (nearest ft.)

Table for DEPTH with columns: 1, 2, 3; rows for A, C, H, S, C, R, E, E, N

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

C 3

PUMPING TEST

HOURS PUMPED; PUMPING RATE; METHOD USED TO MEASURE PUMPING RATE; WATER LEVEL; BEFORE PUMPING; WHEN PUMPING; TYPE OF PUMP USED

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO); TYPE OF PUMP INSTALLED PLACE; CAPACITY; GALLONS PER MINUTE; PUMP HORSE POWER; PUMP COLUMN LENGTH; CASING HEIGHT

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)

B 1 8690
1 2 3 6

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
532493 please type

STATE PERMIT NUMBER
140-95-1855
70 fill in this form completely 79

Date Received (APA)
OWNER INFORMATION
8 MM DD YY 13
Buckner Stephen
15 Last Name Owner First Name 34
1721 Willow Springs Dr.
36 Street or RFD 55
Sykesville MD 21784
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
8 COUNTY 21
Willow Highlands WSGC
23 SUBDIVISION 42
SECTION 44 46 LOT 4 48 50
Sykesville
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 0 MI
73 76 77 78

DRILLER INFORMATION
Curtis Winslow MSD 150
76 Driller's Name License No. 81
Winslow Pump and Well, Inc.
Firm Name
P.O. Box 521 Hollywood, MD 20636
Address
Curtis Winslow 12.24.09
Signature Date

B 4
1 2
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
1721 Willow Springs
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST 2 EAST
SOUTH
34 100 FT 37
DISTANCE FROM ROAD ENTER FT OR MI 38 39
TAX MAP: 15 BLK: 4 PARCEL 145

B 2 WELL INFORMATION
1 2
APPROX. PUMPING RATE (GAL. PER MIN.) 0
8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 0 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 6 OK

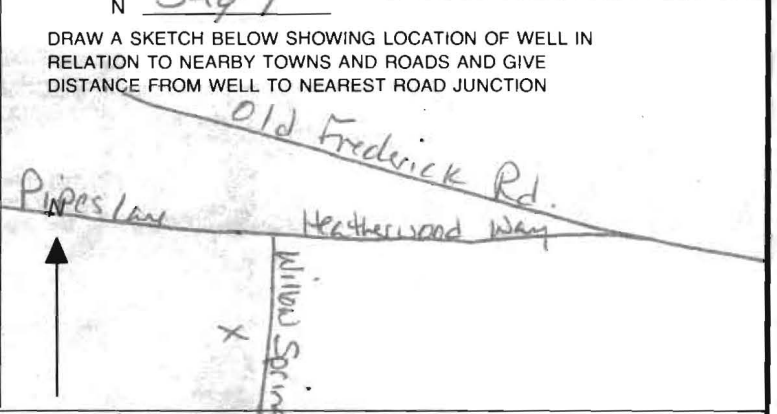
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard 13
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S → 41
DATE ISSUED 1/14/10 Kim Voff 1/14/11
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 541 000 EAST GRID 0808 000
50 55 57 63

APPROXIMATE DEPTH OF WELL 200 FEET OK
24 28
APPROXIMATE DIAMETER OF WELL 1 INCH NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. Deep Drilled well
2.
3.
WRITE THE BOX NUMBER FROM THE MAP HERE
E 808
N 541
000
000

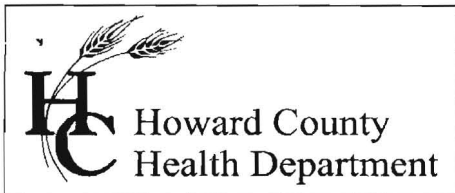
METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
37 CABLE REVerse-ROTary DRive-POINT
other

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)
APPROP. PERMIT NUMBER G
PERMIT No. 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Grout bores from bottom to top. SEE MEMO...
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



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

Thursday, January 14, 2010

IMPORTANT

MEMORANDUM - Geothermal Wells

To: Curtis Winslow (Winslow Pump and Well Inc.)
FILE

From: Kevin Wolf, Environmental Sanitarian 
Well and Septic Program

Re: **Geothermal Wells**

(Information taken directly from memorandum of understanding, MDE dated November 30th, 2007 Chief, On-site Systems Division,)

MDE has been receiving calls of concern from interested parties and local delegated approving authorities suggesting that closed loop geothermal wells are not being properly located and grouted. The purpose of this memorandum is to provide guidance to the public, the industry and delegated approving authorities on the expected construction standards until such time as the well construction regulations (COMAR 26.04.04) are amended to include construction standards for closed loop geothermal wells.

Therefore, the On-Site Systems Division recommends the following actions be considered by the Delegated Approving Authorities upon receipt of an application and prior to the issuance of permits for closed-loop geothermal wells. The Maryland Board of Well Drillers and the Conference of Environmental Health Directors has reviewed and provided comment on this guidance.

Remember, bentonite alone should be mixed at a ratio of 2 lbs or greater per gallon of water. If *thermal-enhanced* grout is to be used, remember to follow manufactures specifications when mixing. Health Department officials can inspect this grout by requesting the well driller to collect a sample of the grout in a bucket. If the sand settles out within 1 hour, the grout mix is improper. Thermal enhanced bentonite grouts are a mixture of bentonite and quartz sand. The sand stays suspended in the clay for the life of the well. Please refer to the NGWA published article "Guidelines for the Construction of Vertical Boreholes for Closed Loop Heat Pump Systems" (1997)

• The following information needs to accompany geothermal well application permits:

1) A **Site Plan** that is to scale or a plan that shows nominal distances from features on the property to the geobores and indicates other pertinent features and structures on, or to be constructed on, the property; and

2) A **cross-sectional diagram** of the proposed geothermal well construction including a **statement of the intended grout mix**.

Geothermal Wells may be permitted by cluster. The size of the cluster shall be determined by the Delegated Approving Authority.

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

WATERWELL

HO 880461

LAYOUT FOR HEALTH DEPARTMENT

Property owner's signature: _____

Property owner: Steve Buckner

Property address: 1721 Willow Springs Dr.

Sikeston, MO 21784

Owner's number: 410 442 2836

Driller's signature: Curtis Winslow MSD 150
Curtis E. Winslow

Distance between Well and:

1. Road 100

2. House 25

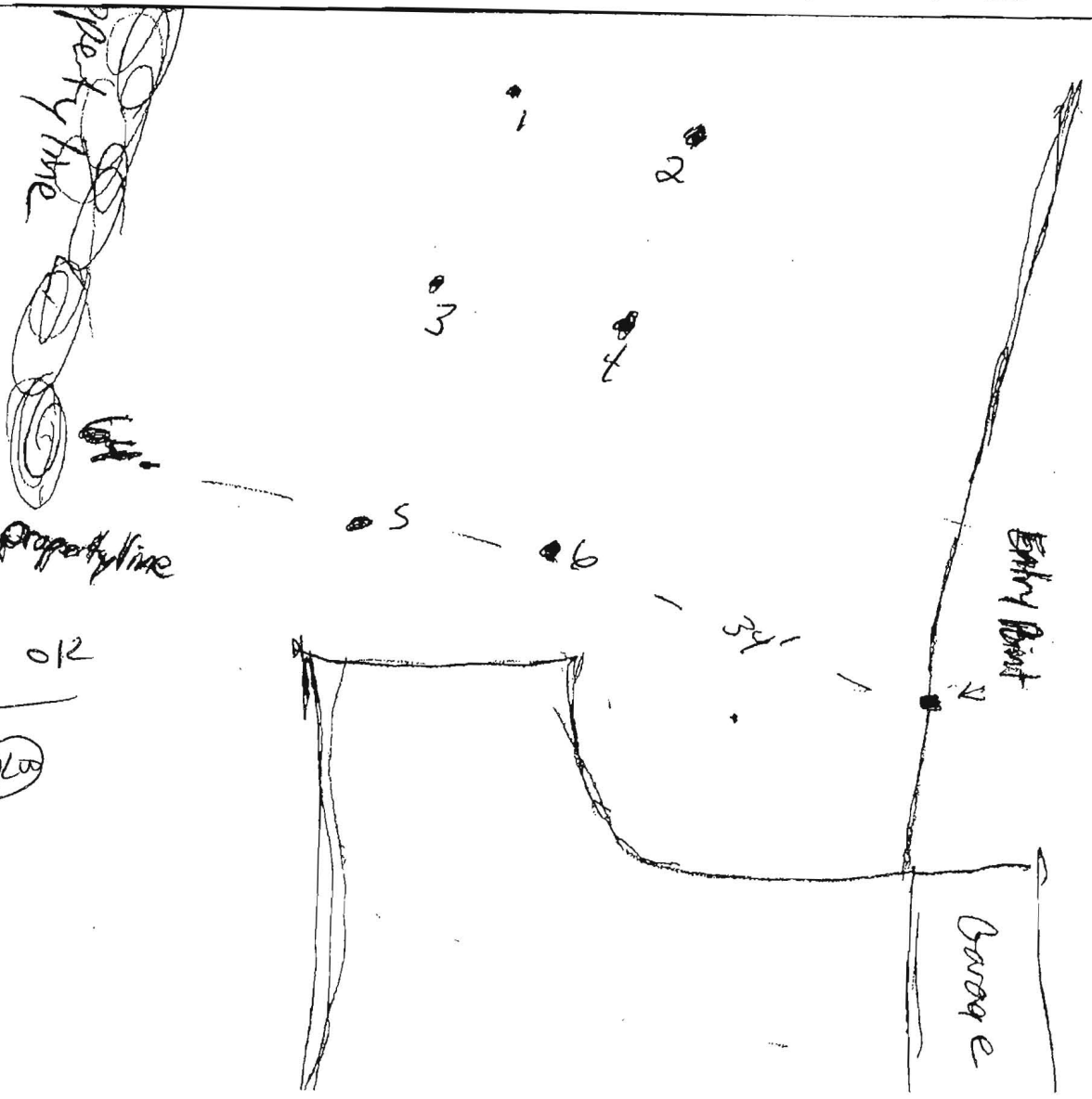
3. Septic 60

4. Ex. Well 66

5. Prop. line 64

6. Oil Tanks N/A

7. Neighbor's Septic 100+



2/13/10
well sites OK

(K)

ED:R HA 25.21.05

- 4
- 5
- 6
- 1
- 2
- 3

Well #	A	B
1	27.9	87.5
2	25.6	78
3	32	71
4	47.7	105
5	42	95
6	43	86

