

C1 20723

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
WELL COMPLETION REPORTTHIS 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 TYPECOUNTY
NUMBER

ST/CO USE ONLY

DATE RECEIVED
MM DD YY
12 16 15

DATE WELL COMPLETED

MM DD YY
11-13-15

Depth of Well

22 300
(TO NEAREST FOOT)

11/23/2015

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
10-15-0170OWNER Bhatia Beenish, Gurinder SarthiWELL SITE ADDRESS 12213 Bassler Way

TOWN

Clarksville MD

SUBDIVISION

SECTION

LOT

14

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use
additional sheets if needed)

FEET

FROM TO

check
if water
bearing

Clay Rock Mx 0 20

Brn Rock 20 23

Gry Rock 23 300

3 Loops GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)YES NO
☒ Y ☐ N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ CMBENTONITE CLAY ☒ BCNO. OF BAGS 65 NO. OF POUNDS 3250GALLONS OF WATER 1625

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 300 ft.
48 TOP 52 54 BOTTOM 58
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
below☒ ST
STEEL☒ CO
CONCRETE☐ PL
PLASTIC☐ OT
OTHERMAIN
CASING
TYPENominal diameter
top (main) casing
(nearest inch)Total depth
of main casing
(nearest foot)E
A
C
H
C
A
S
I
N
G

OTHER CASING (if used)

diameter

inch

depth (feet)

from to

screen type
or open hole

SCREEN RECORD

(insert
appropriate
code
below)☒ ST
STEEL☒ BR
BRASS☒ HO
OPEN HOLE☒ PL
PLASTIC☐ OT
OTHER

C 2

DEPTH (nearest ft.)

E
A
C
H
C
A
S
I
N
G

1 2

8 9 11 15 17 21

23 24 26 30 32 36

38 39 41 45 47 51

SLOT SIZE 1 2 3

DIAMETER
OF SCREEN(NEAREST
INCH)

56 60 68

from to

GRAVEL PACK
IF WELL DRILLED
WAS FLOWING WELL
INSERT F IN BOX 68MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)

T

(E.R.O.S.)

W Q

70

72

74 75 76

TELESCOPE
CASINGLOG
INDICATOR

OTHER DATA

C 3

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)

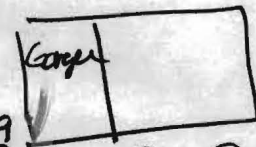
YES NO

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)

PUMP HORSE POWER

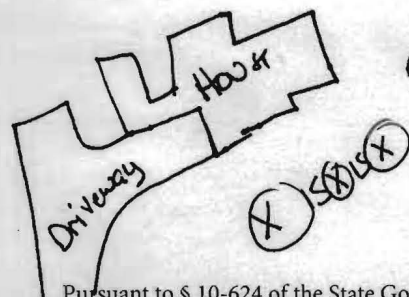
PUMP COLUMN LENGTH
(nearest ft.)CASING HEIGHT (circle appropriate box
and enter casing height)☒ + above☐ - below

LAND SURFACE

(nearest
foot)LATITUDE 39.23321 ^①
LONGITUDE 76.94060
(DEFAULT COORD. WGS 84)
NOTES:39.23329
76.94058
39.23335
76.94053

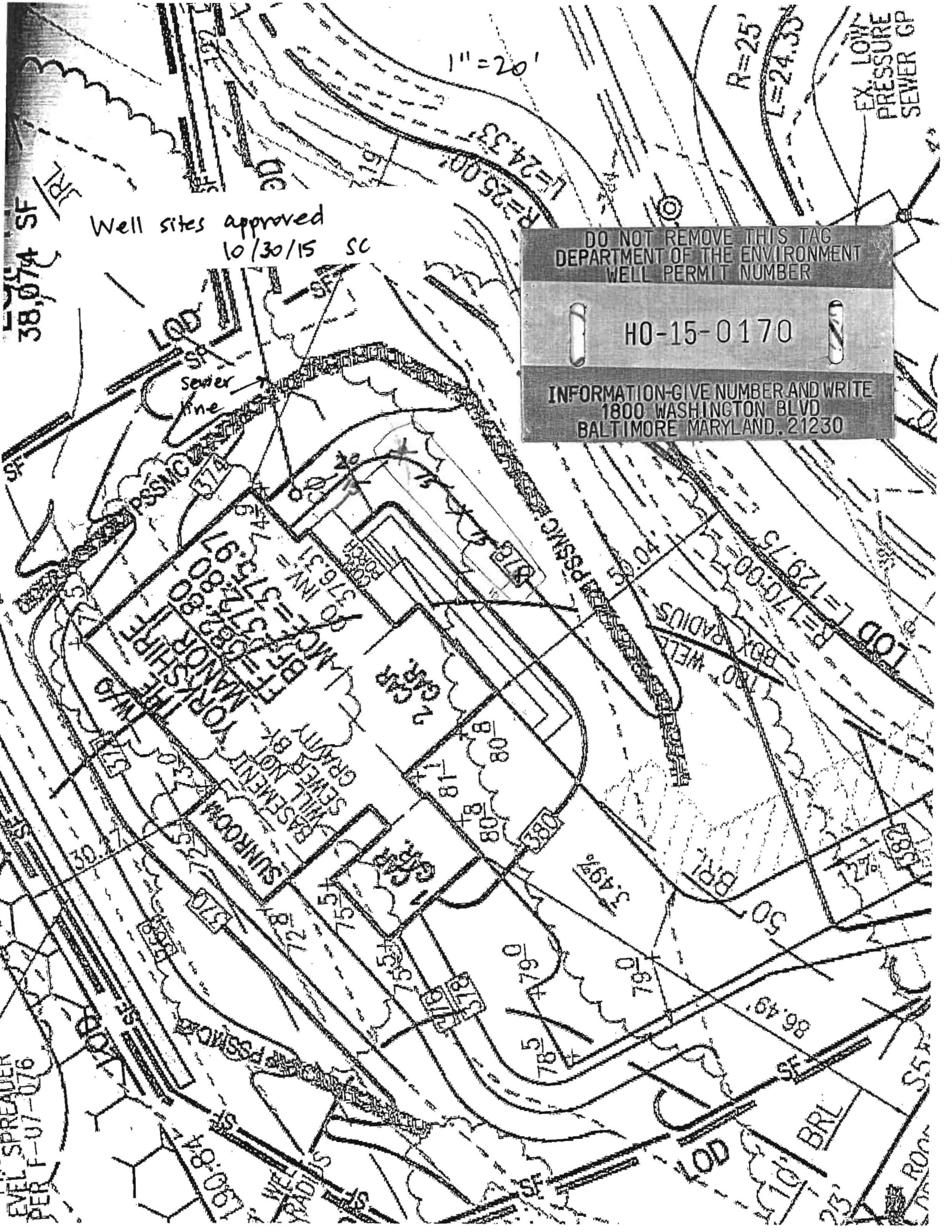
05-454395

EMERGENCY/TEMP NO. IF ANY

B 1		SEQUENCE NO. (MDE USE ONLY) 45119	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 556592 please type		STATE PERMIT NUMBER HO-15-0170 fill in this form completely	
Date Received (APA) 08/21/15			B 3 LOCATION OF WELL Howard COUNTY Walnut Creek Phase SUBDIVISION SECTION 14 LOT 14 Clarksville NEAREST TOWN			
OWNER INFORMATION Bhatia Beenish + Gurrak Sruithi Last Name First Name 13503 Kildare Hills Terr Street or RFD Germentown MD 20874 Town State Zip			B 4 SOURCES OF DRILLING WATER 1. Public 2. 3.			
DRILLER INFORMATION C John Hess m/w 553 Driller's Name License No. Allied Environmental Services Firm Name PO Box 129 Annapolis Junction MD 20701 Address John Hess Signature 08/18/15 Date			12213 Basslers Way STREET ADDRESS ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 0028 BLK: 0011 PARCEL 0049			
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)			NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard COUNTY NAME STATE SIGNATURE DATE ISSUED CO SIGNATURE EXP. DATE			
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> OPEN LOOP GEOTHERMAL <input checked="" type="radio"/> CLOSED LOOP GEOTHERMAL 3 loops			PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL New Construction 			
APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6 INCH METHOD OF DRILLING (circle one) <input checked="" type="radio"/> BORED (or Augered) <input type="radio"/> JETTED <input type="radio"/> Jetted & DRIVEN <input checked="" type="radio"/> AIR-ROTARY <input type="radio"/> AIR-PERCussion <input type="radio"/> ROTARY (Hydraulic Rotary) <input type="radio"/> CABLE <input type="radio"/> REVERSE-ROTARY <input type="radio"/> Drive-POINT other			REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROX. PERMIT NUMBER PERMIT No. HO-15-0170			
SPECIAL CONDITIONS						

FILE INQUIRY NOTES

[illegible]



Well sites approved
10/30/15 SC

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

H0-15-0170

INFORMATION-GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD
BALTIMORE MARYLAND, 21230

EX. LOW
PRESSURE
SEWER GP

EVEL SPREADER
PER F-07-076

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)

MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTANITE)
GROUT.

BORE DEPTH

TAPE

5 TO 10 FOOT SECTION OF
REBAR TO GUIDE TUBE
INTO BORE DURING
INSTALLATION

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND

