

C1 42528

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)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Vesa - Conedang, Edgarda + Lauran WELL SITE ADDRESS 6264 Providence Ln TOWN Dumbria MD SUBDIVISION SECTION LOT 24

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 entries: Top Soil, Bin Sand, Red Bin Sand, Bin Clay, Weathered Rock, Gray Rock.

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 72 NO. OF POUNDS 3000 GALLONS OF WATER 1800 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 326 ft.

CASING RECORD casing types insert appropriate code below 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 PL OT

DEPTH (nearest ft.) table with rows E, A, C, H, S, C, R, E, N and columns 1, 2, 3.

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED YES Y NO N

CIRCLE APPROPRIATE LETTER A 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 LIC. NO. MWD 553 DRILLERS SIGNATURE LIC. NO. WRD 0917

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

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 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 INSTALLED PUMP YES NO (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) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LATITUDE 39.19829 LONGITUDE 76.57958 (DEFAULT COORD. WGS 84)

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B 1
41826

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho -15 -0332
70 fill in this form completely 79

1 2 3 6

559779 please type

Date Received (APA)
01/27/16

OWNER INFORMATION

8 MM DD YY 13
15 Last Name Owner First Name 34
Veeg-Congarrio Edgardo + Laurian
1264 Cardinal Lane
36 Street or RFD 55
Columbia MD 21044
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard
8 COUNTY 21
Spring Lake Gardens
23 SUBDIVISION 42
SECTION 44 46 LOT 24 48 50
Columbia
52 NEAREST TOWN 71

DRILLER INFORMATION

Driller's Name MW D 553
C. John Hess License No. 81
Firm Name Allied Environmental Svcs
Address 10 Box 139 Annapolis Junction MD 20701
Signature C. John Hess Date 09/25/16

B 4

SOURCES OF DRILLING WATER

- 1. Public
- 2.
- 3.

1264 NE Cardinal Ln
11 STREET ADDRESS 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST EAST
SOUTH
34 80' 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP: 035 BLK: 18 PARCEL: 0382

B 2

WELL INFORMATION

1 2
APPROX. PUMPING RATE (GAL. PER MIN.) 8 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)
- I INDUSTRIAL, COMMERCIAL, DEWATERING
- P PUBLIC WATER SUPPLY WELL
- T TEST, OBSERVATION, MONITORING
- O OPEN LOOP GEOTHERMAL
- C CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard
COUNTY NAME 13 COUNTY NO.
STATE SIGNATURE INSERT S → 41
DATE ISSUED 10/24/16 CO SIGNATURE 10/24/17
43 MM DD YY 48 EXP. DATE

APPROXIMATE DEPTH OF WELL 320 FEET
24 28

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)

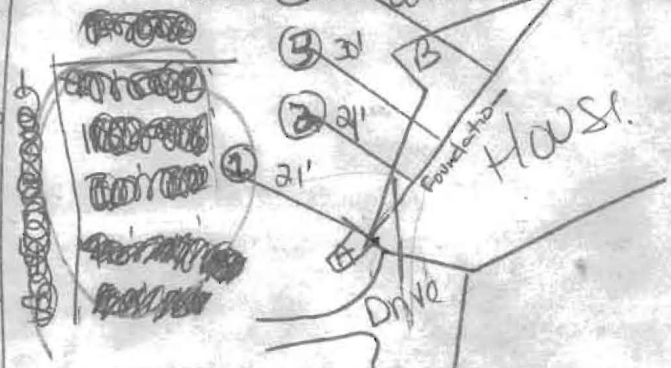
- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
- Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- D THIS WELL WILL DEEPEM AN EXISTING WELL

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. Ho -15 -0332
70 71 72 73 74 75 76 77 78 79

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



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SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

All wells must be grouted from bottom to top

SOUTH SECTION
P.B. 6, F20

S 19°34'25" E 130.89' (P)

P.U.E.

RECEIVED

OCT 24 2016

HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM

30' B.R.L.

LOT 24
BLOCK "A"
23,560 S.F.

W.F.

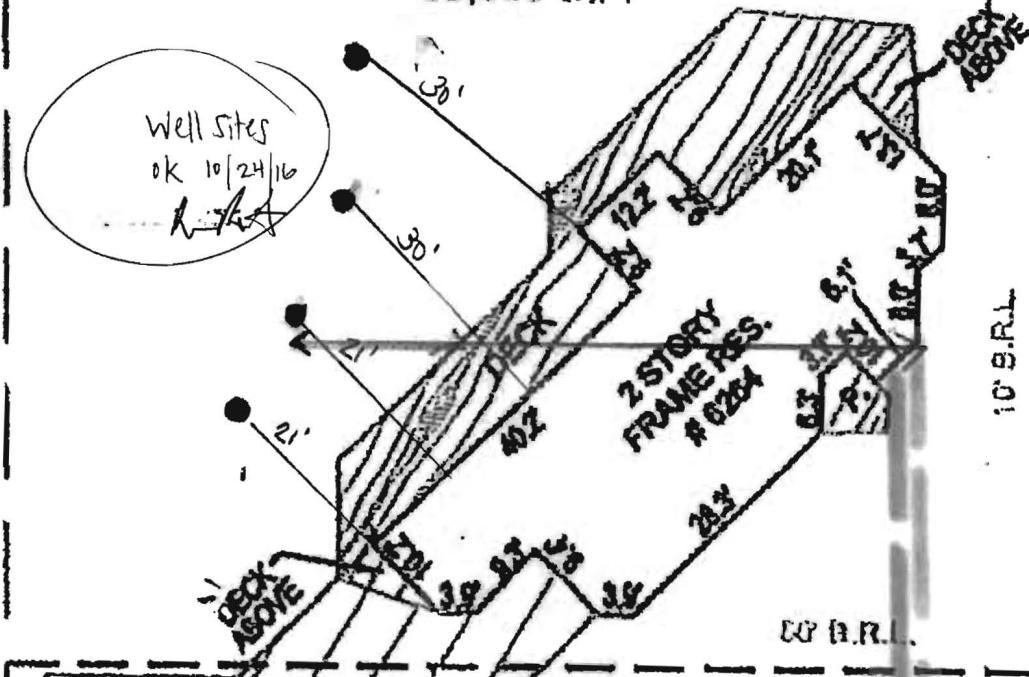
N 70°25'35" E 180.00' (P)

3
969

ED

20' DE & P.U.E.

Well Sites
ok 10/24/16
[Signature]



W.F.

S 70°25'33" W 180.00' (P)

30' B.R.L.

10' B.R.L.

N 19°34'25" W 130.89' (P)

CARDINAL LANE

1" = 20'

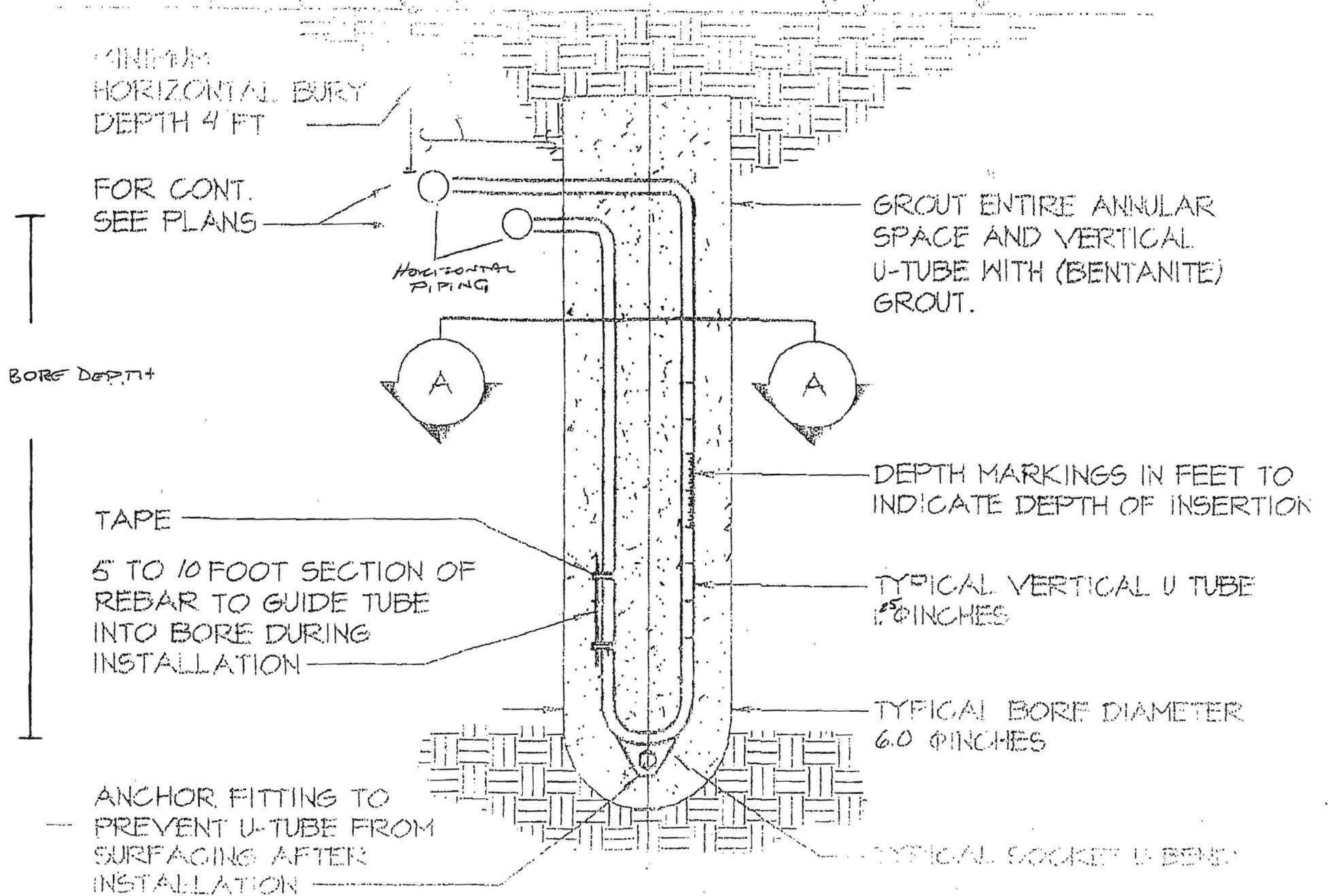
Sewer
+
H2O

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.)



LOT 4
EDWIN BASSLER
SOUTH SECTION
P.B. 6, F20

S 19°34'25" E 130.89' (P)

20' D.E. & P.U.E.

See New Site plan
10/24/16

LOT 24

BLOCK "A"
23,560 S.F.

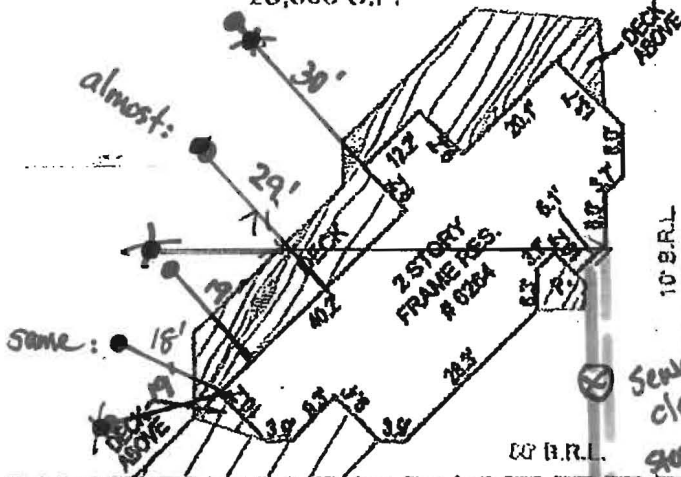
LOT 13
PLAT 3969

IOT DETERMINED

W.F.

N 70°25'35" E 180.00' (P)

20' D.E. & P.U.E.



LOT 23

W.F.

S 70°25'33" W 180.00' (P)

N 19°34'25" W 130.89' (P)

CARDINAL LANE
(50' R.W.)

field verification
completed 10/12/16
stakes don't
match site plan.

* must meet 20'
from foundation
Local HC code.



