

C1 SEQUENCE NO. (MDE USE ONLY)

1 2 3 4 5 6
THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS!

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.
COUNTY NUMBER

ST/CO USE ONLY
DATE RECEIVED
MM DD YY

DATE WELL COMPLETED
MM DD YY

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

OWNER
WELL SITE ADDRESS
SUBDIVISION

SECTION
TOWN
LOT

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)

FEET FROM TO
check if water bearing

NO. OF BAGS
NO. OF POUNDS
GALLONS OF WATER
DEPTH OF GROUT SEAL (to nearest foot)

CEMENT
BENTONITE CLAY
CASING RECORD
GROUTING RECORD

WELL HAS BEEN GROUTED
TYPE OF GROUTING MATERIAL (Circle one)

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) to

SCREEN RECORD
screen type or open hole
insert appropriate code below

DEPTH (nearest ft.)

GRAVEL PACK
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 88

MADE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

DRILLERS LIC. NO. 1
DRILLERS SIGNATURE
LIC. NO. 1

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)
MDE/MMA/PER 071
COUNTY

07C M6 11/4/25

28 29 30 31 32 33 34 35 36 37

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)

Piston
centrifugal
rotary
turbine
other (describe below)

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 39.23564
LONGITUDE 76.74921
(DEFAULT COORD. WGS 84)

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01-172530

EMERGENCY/TEMP NO. IF ANY (012) MB 1/4/25

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER HO-22-0170

SEQUENCE NO. (MADE USE ONLY) 85833

DATE RECEIVED (APA) 1 2 3 6

OWNER INFORMATION

8 MM DD YY 13
15 Last Name First Name 34
16851 Morris Lane
36 Street or RFD 21075
55
17 Elkridge MD 21075
57 Town State 72 ZIP 76

LOCATION OF WELL

8 COUNTY Howard
23 SUBDIVISION
SECTION 44 46 LOT 48 50
52 NEAREST TOWN Elkridge 71

DRILLER INFORMATION

DRILLER'S Name MWD 58
Firm Name Allied Drilling
Address 16851 Morris Lane
12/03/24
Signature Date

SOURCES OF DRILLING WATER

1 Public
2
3 12/11/29 -
Driller's onsite
hit rock @ 82'
Settin casing
while using.

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST
EAST
SOUTH

16851 Morris Lane
STREET ADDRESS
DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP 0031 BLK: PARCEL 0144

WELL INFORMATION

1 APPROX. PUMPING RATE 8 12
(GAL. PER MIN.)
2 AVERAGE DAILY QUANTITY NEEDED 14 20
(GAL. PER DAY)

USE FOR WATER (CIRCLE APPROPRIATE BOX)

D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING, SEDIMENT BAS.
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
O OPEN LOOP GEOTHERMAL
C CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL 400 28 FEET

APPROXIMATE DIAMETER OF WELL 6 28 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) LETTED Jetted & DRIVEN
AIR-ROTARY AIR-PerCussion ROTARY (Hydraulic Rotary)
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 DEEPEN AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

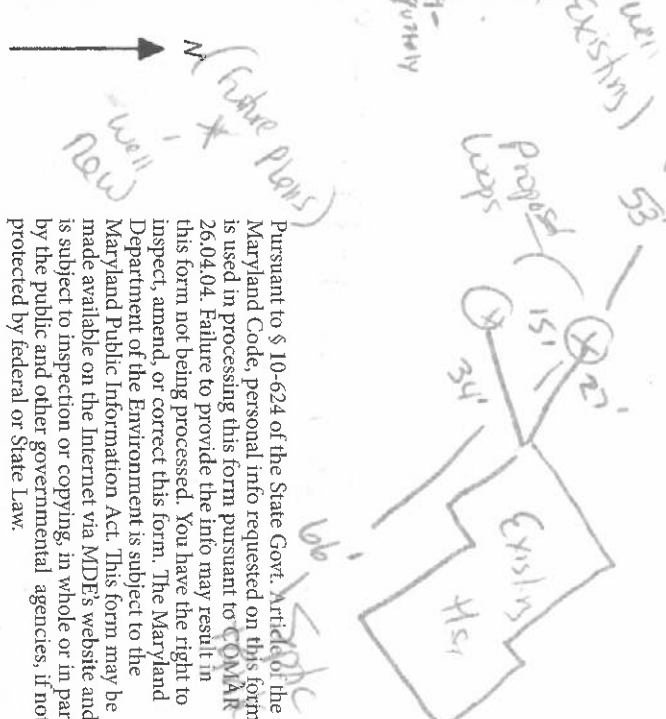
Not to be filled in by driller (MADE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER 40-22-0170

SPECIAL CONDITIONS Please note: Office of drilling and geology Well bores must be grouted to the bottom of the hole.

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL
COUNTY NAME Howard COUNTY NO. 13
STATE SIGNATURE INSERT S
DATE ISSUED 12-9-25
43 MM DD YY 48 CO SIGNATURE EXP. DATE 41

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



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

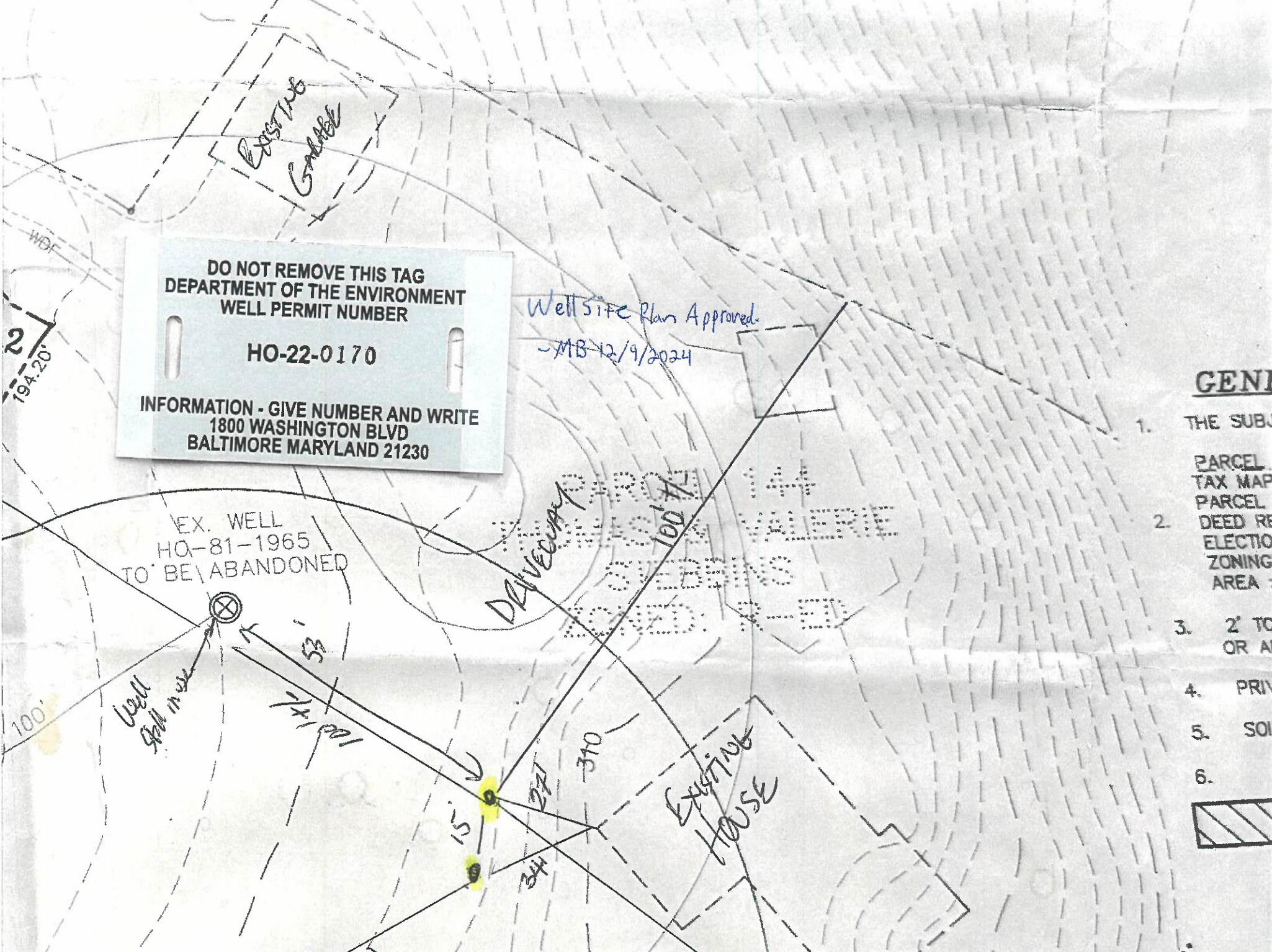
HO-22-0170

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

Well Site Plan Approved
-MB 12/9/2024

GENERAL

1. THE SUBJECT PARCEL
2. TAX MAP PARCEL
3. DEED RECORD
4. ELECTION ZONING AREA
5. 2' TO OR AF
6. PRIV
7. SOI



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 E(-08) 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.

12-04-02

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 (BENTONITE)
GROUT.

BORE DEPTH

TAPE

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

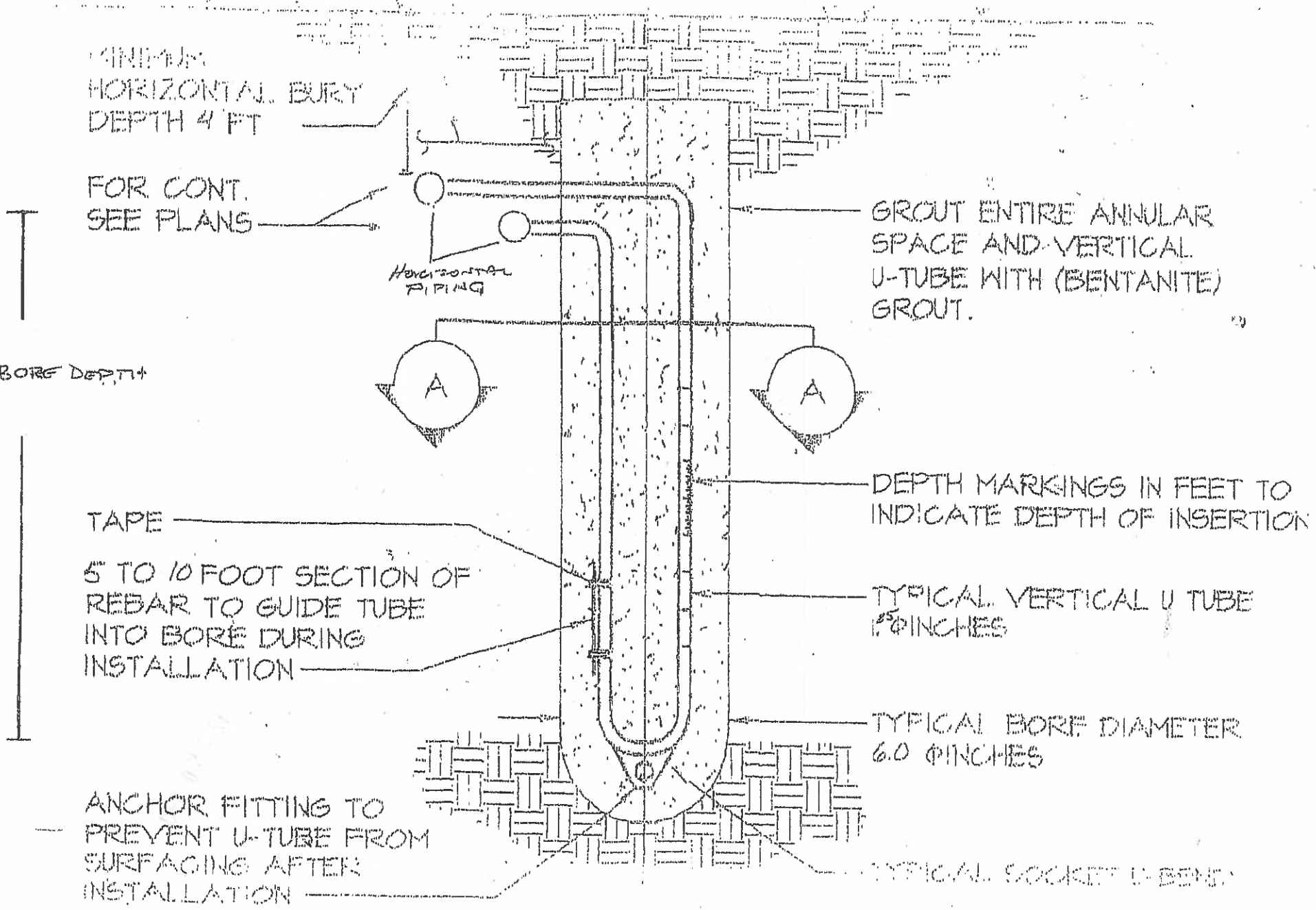
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

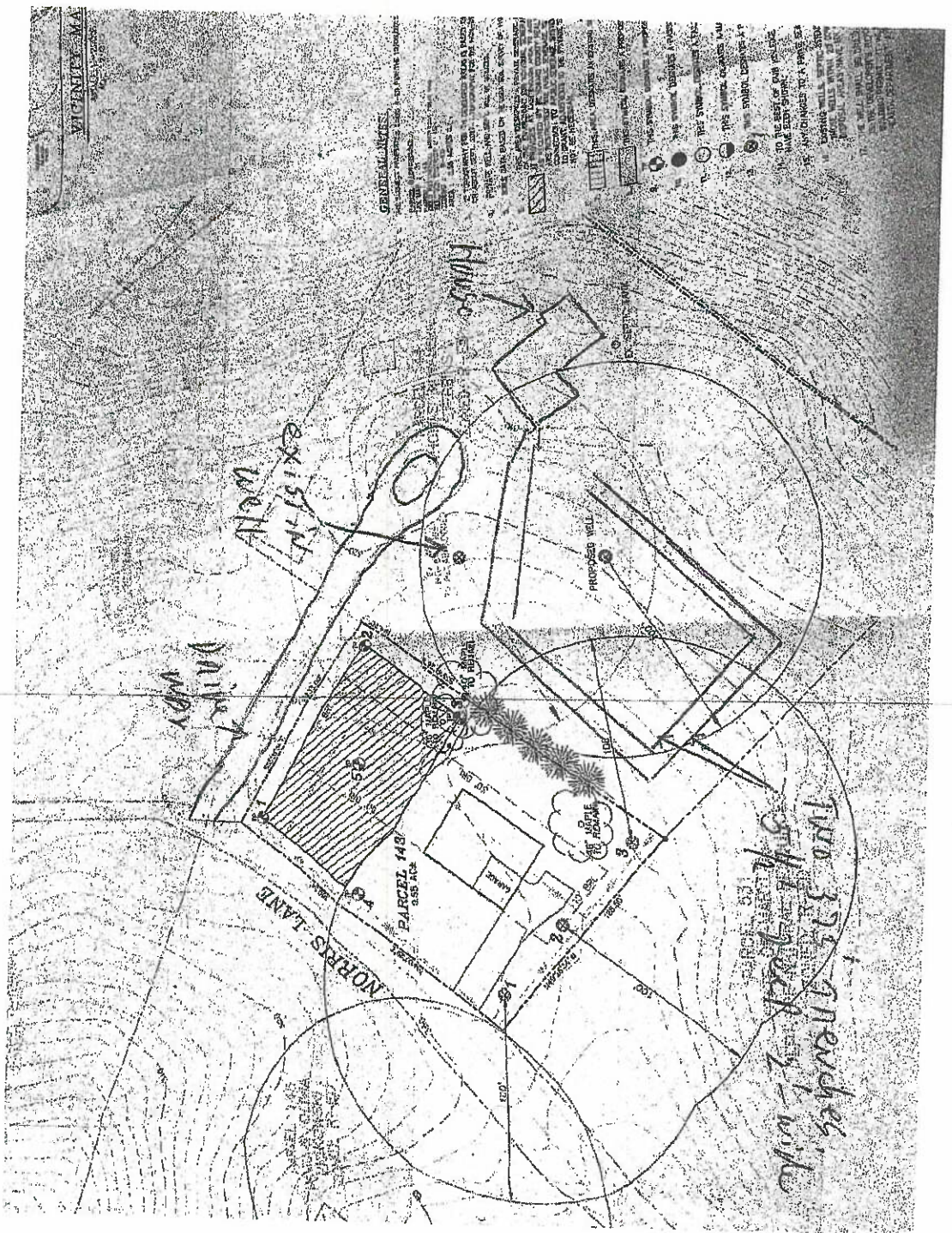
TYPICAL SOCKET U-BEND



Waterville Heating A.C.
2116 WATERVILLE RD,
FALLSTON, MD, 21047
410-899-0292

Thomas Hines
6851 Noraxis LA,
ELK RIDGE, MD, 21025
410-279-1497

10/10/20
* Need
Resonance
Need distance to



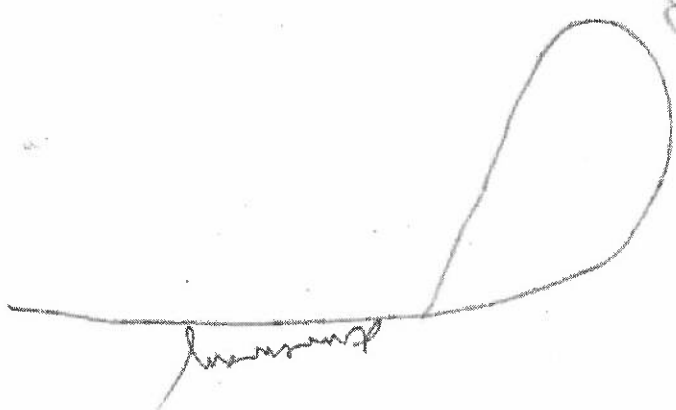
Sharp slope

Spout

House

Septic area

Sharp Bank
(Slope for well)



SEQUENCE NO. **9837** (OEP USE ONLY)
STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type
OEP PERMIT NUMBER
HD-73-4335
fill in this form completely

Date Received **11-20-81** (OEP Use Only) 13

OWNER INFORMATION
Lot Name **LAUREL** Owner **W E W E** 34 Home
7851 **NO** **RIS** **R D** 35
Street or RFD **LAUREL RD** 36
Town 57 **LAUREL** State **MD** 76 Zip **21117**

DRILLER INFORMATION
Driller's Name **Robert B. Johnson** 77 License No. **60**
Firm Name **ROBERT B. JOHNSON CORP**
Address **1000 FALL RD BALTIMORE MD 21200**
Signature _____ Date **11-20-81**

WELL INFORMATION
APPROX. PUMPING RATE (GAL. PER MIN.) **5** 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **750** 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL **200** FEET 28
APPROXIMATE DIAMETER OF WELL _____ NEAREST INCH
METHOD OF DRILLING (circle one)
BORED (OR AUGERED) JETTED JETTED & DRIVEN
AIR ROTARY AIR PERCUSSION ROTARY (HYDRAULIC ROTARY)
CABLE REVERSE ROTARY DRIVE POINT
other _____

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
 THIS WELL WILL DEEPEN AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) **41** 52

Not to be filled in by driller (OEP USE ONLY)
APPROX. PERMIT NUMBER **34**
WRITE INITIALS IN BOX **G A P** 43
PERMIT NO. **70 71 72 73 74 75 76 77 78 79**
SPECIAL CONDITIONS **8-43**

LOCATION OF WELL
COUNTY **HOWARD** 23
SUBDIVISION **Larrop St, Plot 143** 23
SECTION **46** 46
LOT **48** 48
NEAREST TOWN **EKIBRIDGE** 52
MILES FROM TOWN (center of it in town) **3** 75
TOWN **MD** 76
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
W 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
W 32
DISTANCE FROM ROAD (CIRCLE APPROPRIATE BOX) **100** 34
NEAR WHAT ROAD **WEST HARRIS LAKE** 30
NORTH EAST WEST SOUTH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. _____
2. _____
3. _____
WRITE THE BOX NUMBER FROM THE MAP HERE
6100
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS, AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION
6100
COUNTY NAME **HOWARD**
NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL
A32458
COUNTY NO. _____
OEP SIGNATURE _____ STATE HEALTH 41
DATE ISSUED _____
NORTH **43** CO. SIGNALING **48** EAST **000** EXPIRES _____
GRID **50** 55 GRID **57** 63

10450
11/30/82

FILE Replacement Well Site Check DATE REPORTED 11/30/82

PROPERTY OWNER Catherine Luber

P. O. ADDRESS 6851 Norris Lane

DIRECTIONS TO PROPERTY near Trinity Prep. School 8/10 miles from Landing Md.

INFORMANT Ms. Luber has spring which is contaminated

Septic behind house; spring to left of house;
Meet Gold Mustang @ Norris Lane & Landing Md.

CONDITION FOUND: 11/30/82 Talked with the father. New well

location same as the original in front of driveway.

Because of extreme slope graded around front,

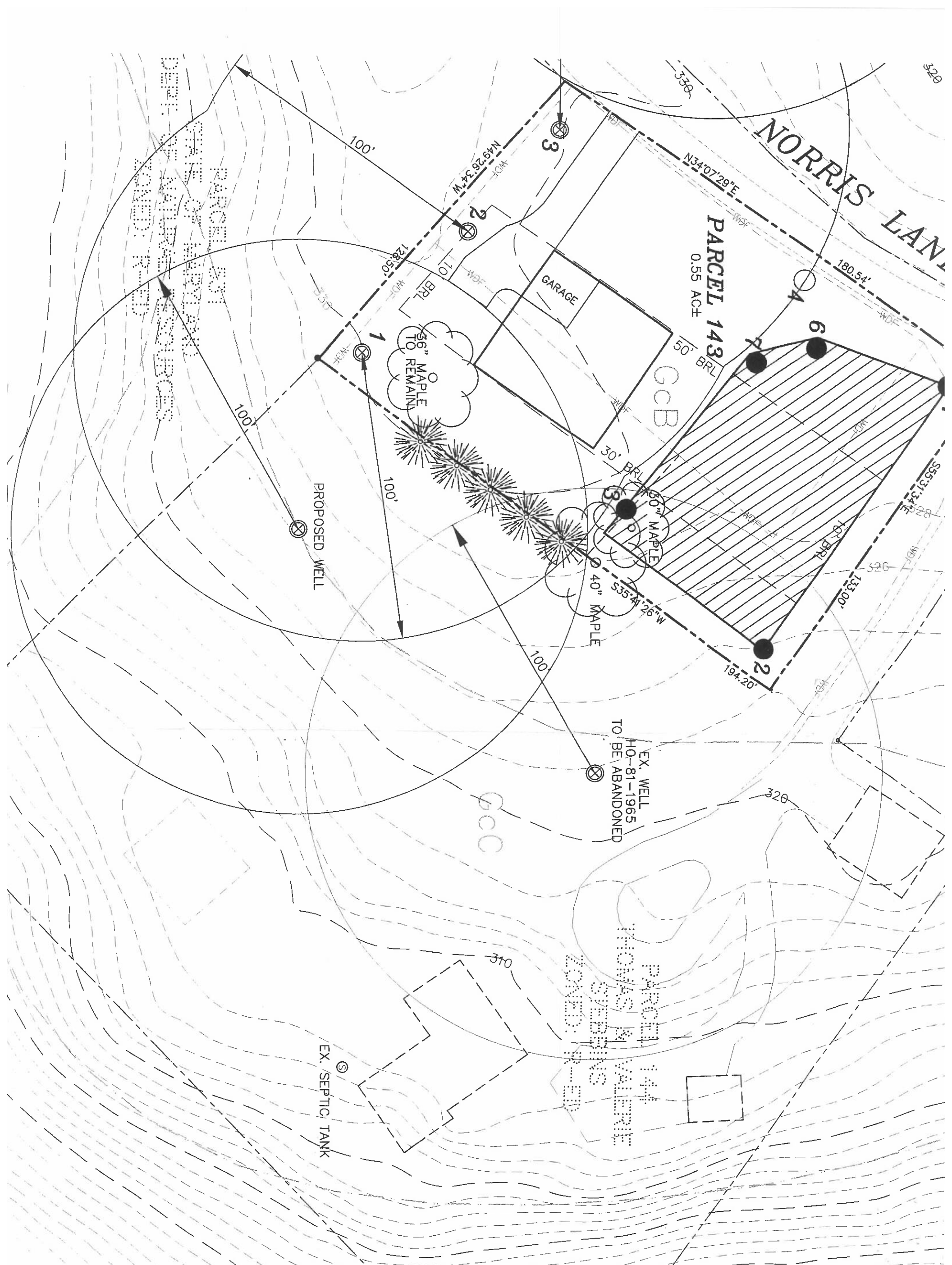
well was in at least 50 ft from house. It

(see abate on back)

12/3/82 T.C. & Han-Drilling Co. re. permit # H10-73-4338 FS.

ACTION TAKEN:

FINAL DISPOSITION:



- SECTION DISTRICT : R-ED
 ZONING : R-ED
 AREA : 0.55 ACRES ±
3. 2' TOPOGRAPHY FOR THE OR ABOUT SEPT. 2017. 2
 4. PRIVATE WELL AND SEPT
 5. SOILS DATA BASED ON T
 6. THIS AREA DESIGN OF THE ENVIRONMENT IT PROVIDES AT LE AS REQUIRED BY T ARE RESTRICTED U CONNECTION TO A TO GRANT ADJUST NOT BE NECESSAR
 7. ● THIS SYMBOL DESI
 8. ○ THIS SYMBOL DESI
 9. ⊗ THIS SYMBOL DESI
 10. TO THE BEST OF OUR KN HAVE BEEN SHOWN.
 11. ANY CHANGES TO A PRIV
 12. EXISTING WELLS, SEPTIC ; THOSE WELLS WITHIN 200 DISPOSAL AREAS HAVE E
 13. THE WELL SHALL BE DRIL IS THE DEVELOPER'S RES BUILDING PERMIT. IT WILL HEALTH DEPARTMENT AP
 14. APPROVAL OF THIS PERC ESTABLISHED WILL BE SUI FITTING IN THE AREA BAS DEPARTMENT BEFORE HEA NEED TO BE REVISED OR
 15. THE SDA IS NOT APPROV PERMIT ON PARCEL 143
 16. HOUSE FOOTPRINT AND L RESTRICTIONS.
 17. THE MAPLE TREE INSIDE
 18. IF REPLACEMENT WELL #2