



<b>B 1</b>	<u>17622</u>	SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND</b> <b>APPLICATION FOR PERMIT TO DRILL WELL</b>	STATE PERMIT NUMBER <u>HO-95-2646</u>
1 2 3 6			546232 please type	70 fill in this form completely 79

**OWNER INFORMATION**

Date Received (APA) 01 21 14  
8 MM DD YY 13

McCurdy Michael + Marisa  
15 Last Name Owner First Name 34

6802 Norris Lane  
36 Street or RFD 55

EIKridge MD 21075  
57 Town 70 State 72 Zip 76

**LOCATION OF WELL**

Howard  
8 COUNTY 21

23 SUBDIVISION 42

SECTION 44 46 LOT 48 50

EIKridge  
52 NEAREST TOWN 71

**DRILLER INFORMATION**

C John Hess MW D 553  
Driller's Name 76 License No. 81

Allied Environmental Service  
Firm Name

P.O. Box 129 Annapolis Junction MD  
Address 20701

[Signature] Date

**SOURCES OF DRILLING WATER**

1. Public

2. Public

3. Public

6802 Norris Lane  
11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)

NORTH  
 WEST  
 EAST  
 SOUTH

34 37  
DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: 0031 BLK: 0012 PARCEL 0140

**WELL INFORMATION**

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

**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

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL 3 loops

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

Howard 13  
COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 2/12/14 Andra Heintz 2/12/15  
43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 350 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)**

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

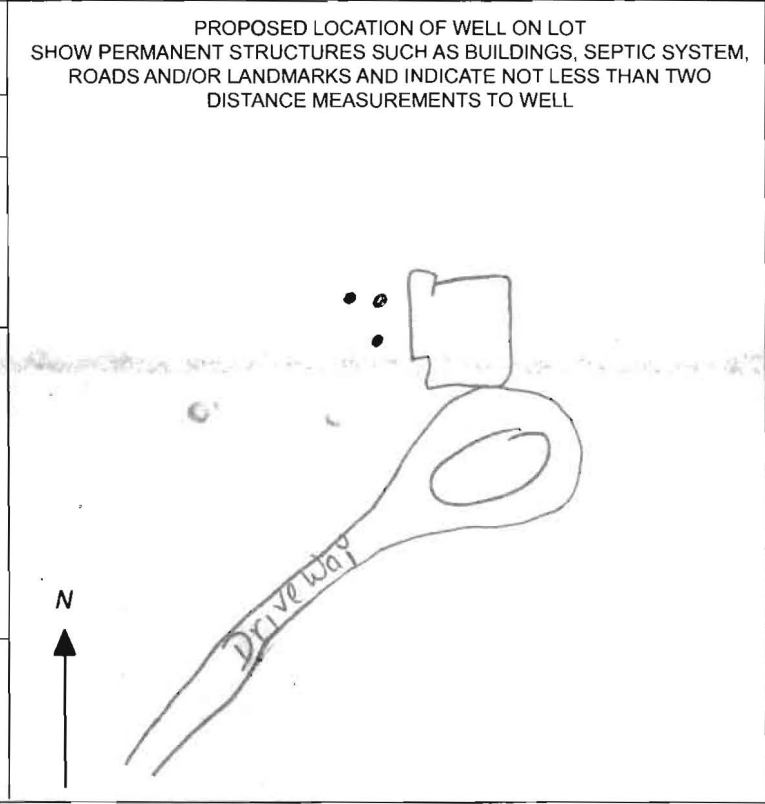
THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_ 52

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

APPROP. PERMIT NUMBER \_\_\_\_\_ **G** \_\_\_\_\_

PERMIT No. HO-95-2646  
70 71 72 73 74 75 76 77 78 79



**SPECIAL CONDITIONS**

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

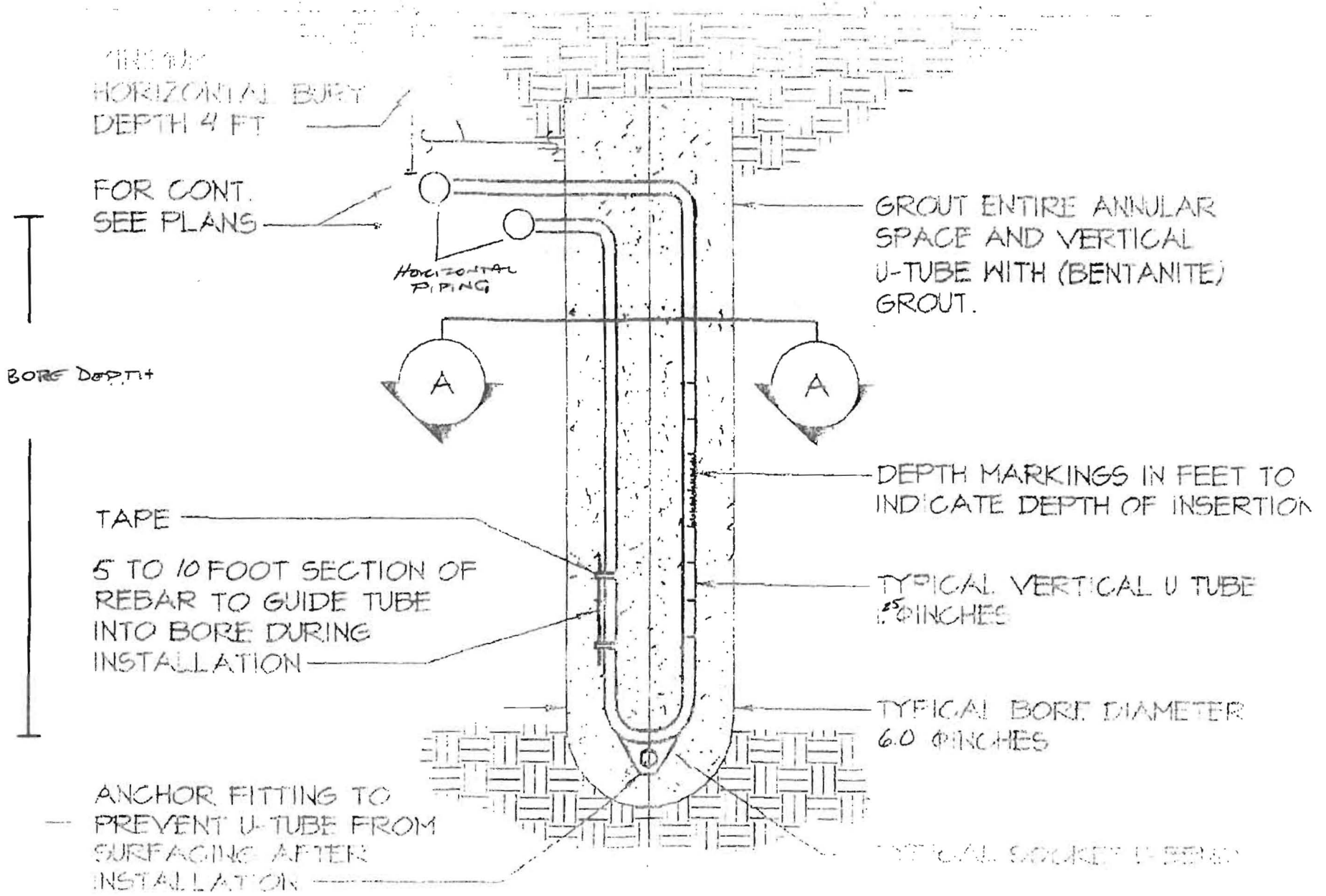
Marisa McCurdy

## **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.)



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 1.25 INCHES

TYPICAL BORE DIAMETER 6.0 INCHES

ANCHOR FITTING TO PREVENT U-TUBE FROM SURFACING AFTER INSTALLATION

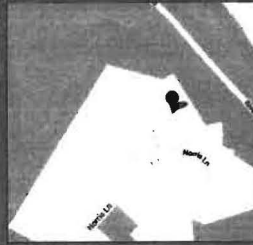
TYPICAL SLOPED U-BEARING

PREPARED BY:

# EXACTA

MARYLAND SURVEYORS

www.exactaMD.com  
Toll Free: 866-735-1916 Fax: 866-744-2882



PROPERTY ADDRESS: 6802 NORRIS LANE ELKBRIDGE, MARYLAND 21075

SURVEY NUMBER: 1307.0631

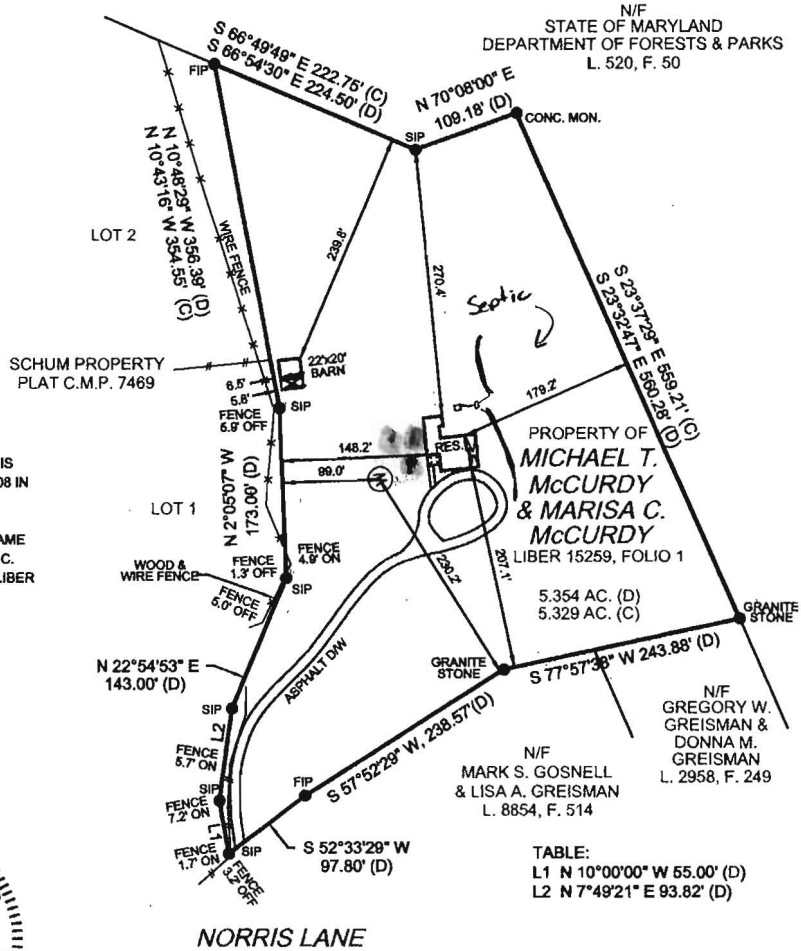
FIELD WORK DATE: 11/11/2013

REVISION HISTORY: (REV.1 11/14/2013)

MD1307.0631  
BOUNDARY SURVEY  
6802 NORRIS LANE  
HOWARD COUNTY, MARYLAND  
11-08-2013 SCALE 1"=150'

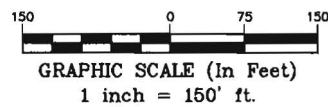


- NOTES:
1. THE PROPERTY SHOWN HEREON IS IDENTIFIED AS PARCEL ID. #01-168908 IN HOWARD COUNTY, MARYLAND.
  2. THE PROPERTY IS NOW IN THE NAME OF MICHAEL T. MCCURDY & MARISA C. MCCURDY, BY DEED RECORDED IN LIBER 15259 AT FOLIO 1 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.



STATE OF MARYLAND  
JOHN E. KROBATH  
PROFESSIONAL LAND SURVEYOR  
10908

*John E. Kroboth*  
EXPIRES 05-26-2014



POINTS OF INTEREST:  
NONE VISIBLE

CLIENT NUMBER: \_\_\_\_\_ DATE: 11/14/2013

BUYER: MICHAEL T. MCCURDY AND MARISA C. MCCURDY

SELLER: MICHAEL T. MCCURDY AND MARISA C. MCCURDY

CERTIFIED TO:  
MICHAEL T. MCCURDY AND MARISA C. MCCURDY

**BONNIE WOLFE** REALTOR®  
443.253.1815  
BONNIEWOLFE@MRIS.COM  
WWW.SEVERNAPARKREALESTATE.COM

**COLDWELL BANKER**

A LICENSEE EITHER PERSONALLY PREPARED THIS DRAWING OR WAS IN RESPONSIBLE CHARGE OVER ITS PREPARATION AND THE SURVEYING WORK REFLECTED IN IT. ALL IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION 12 OF CHAPTER 09.13.06 OF THE CODE OF MARYLAND ANNOTATED REGULATIONS.

**EXACTA**  
Maryland Surveyors, Inc.  
LB#21535  
www.exactaMD.com  
P (443)692-6523 • F (443)692-6524  
10480 Little Patuxent Parkway • Suite 400 • Columbia, MD 21044

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