

C1 1496

SEQUENCE NO. (MDE USE ONLY)

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

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

DATE RECEIVED MM 12 DD 26 YY 70

DATE WELL COMPLETED MM 11 DD 22 YY 70

DEPTH OF WELL 22 350 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1979

OWNER Voss, Kate; STREET OR RFD 1975 McKeendree Rd; TOWN West Friendship; SUBDIVISION Chance Lane Farm; SECTION; LOT 3

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries: Soft Brown Rock 0-25, Hard Grey Rock 25-350.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (Cement CM, Bentonite Clay BC), NO. OF BAGS 12, NO. OF POUNDS 3000, GALLONS OF WATER 321, DEPTH OF GROUT SEAL 0-350.

CASING RECORD: MAIN CASING TYPE (Steel ST), Nominal diameter top (main) casing (nearest inch) 60, Total depth of main casing (nearest foot) 350.

OTHER CASING (if used) table with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD: screen type or open hole (Steel ST), insert appropriate code below.

NUMBER OF UNSUCCESSFUL WELLS: 0; WELL HYDROFRACTURED: Y

CIRCLE APPROPRIATE LETTER: A (Well abandoned and sealed), 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. MW D 355; DRILLERS SIGNATURE; LIC. NO. MW D 539

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

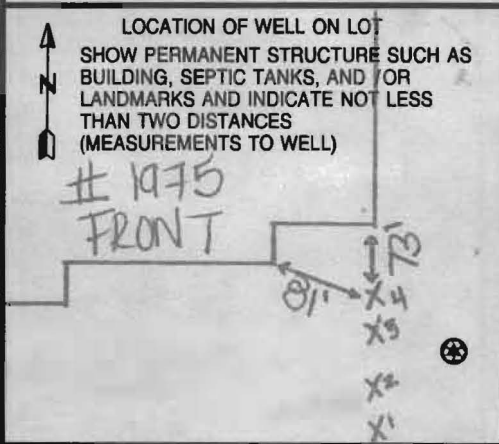
DEPTH (nearest ft.) table with columns: 1-21, 23-36, 38-51; SLOT SIZE 1, 2, 3; DIAMETER OF SCREEN (NEAREST INCH) 56, 60

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER): TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST: HOURS PUMPED (nearest hour) 8, 9; PUMPING RATE (gal. per min.) 11, 15; WATER LEVEL (distance from land surface) BEFORE PUMPING 17, 20; WHEN PUMPING 22, 25; TYPE OF PUMP USED (for test) P piston, R rotary, S submersible

PUMP INSTALLED: DRILLER INSTALLED PUMP YES NO; TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29; CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31, 35; PUMP HORSE POWER 37, 41; PUMP COLUMN LENGTH (nearest ft.) 43, 47; CASING HEIGHT (circle appropriate box and enter casing height) + above, - below; LAND SURFACE (nearest foot) 49, 50, 51



B 1 4647  
1 2 3 6

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

533979 please type

STATE PERMIT NUMBER

40-95-1974  
70 fill in this form completely 79

Date Received (APA)

08 19 10  
8 MM DD YY 13

OWNER INFORMATION

Muszelik George  
15 Last Name Owner First Name 34

1975 McKendree Rd  
36 Street or RFD 55

West Friendship MD 21794  
57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Michael Barlow MWD 355  
Driller's Name 76 License No. 81

Barlow well Drilling  
Firm Name

522 Underwood Lane 21014  
Address

Signature Date 8-16-10

B 2 WELL INFORMATION

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)
- I INDUSTRIAL, COMMERCIAL, DEWATERING
- P PUBLIC WATER SUPPLY WELL
- T TEST, OBSERVATION, MONITORING
- G GEO-THERMAL 4 boxes x 350'

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
- 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 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. 40-95-1974  
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

B 3 LOCATION OF WELL

Howard  
8 COUNTY 21

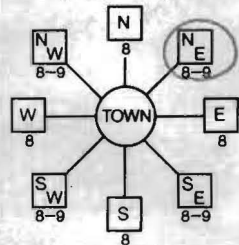
Chance Lane Farm  
23 SUBDIVISION 42

SECTION 44 46 LOT 3 48 50

Glenwood  
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 2 1/2 M  
73 76 77 78

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



(1975) McKendree Rd  
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 1000 37  
DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: 9 BLK: 19 PARCEL 10

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13  
COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S 41

DATE ISSUED 8/30/2010  
43 MM DD YY 48 CO SIGNATURE Brian Baker 8/30/2012 EXP. DATE

NORTH GRID 540 0 0 0 EAST GRID 802 0 0 0  
50 55 57 63

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

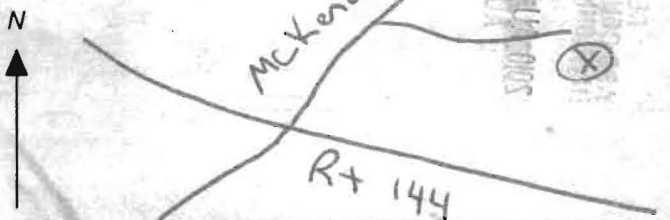
SOURCES OF DRILLING WATER

- 1.
- 2.
- 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8002  
N 53040  
000 000

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

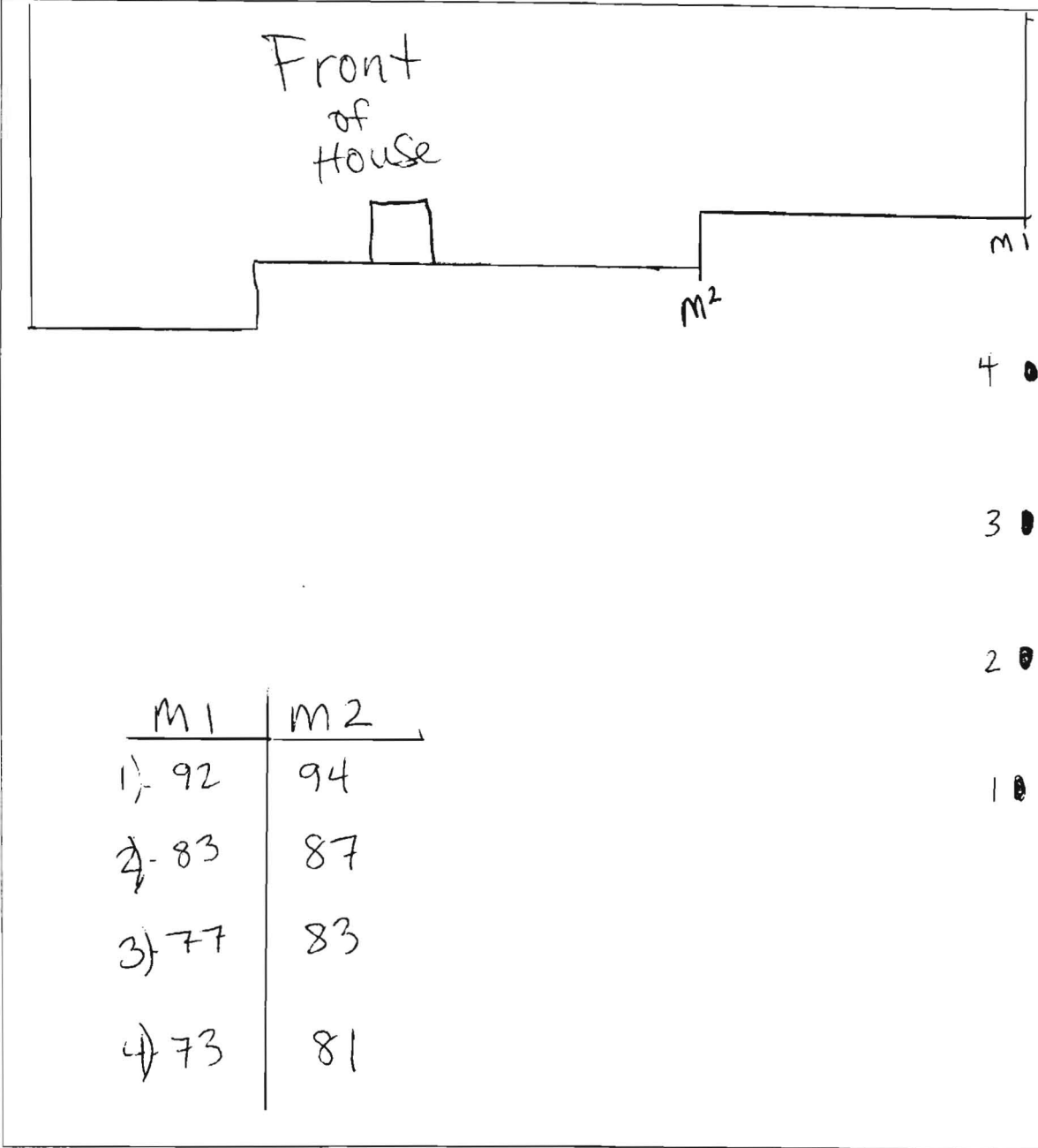


SITE LOCATION MAP

Customer: Kate Voss

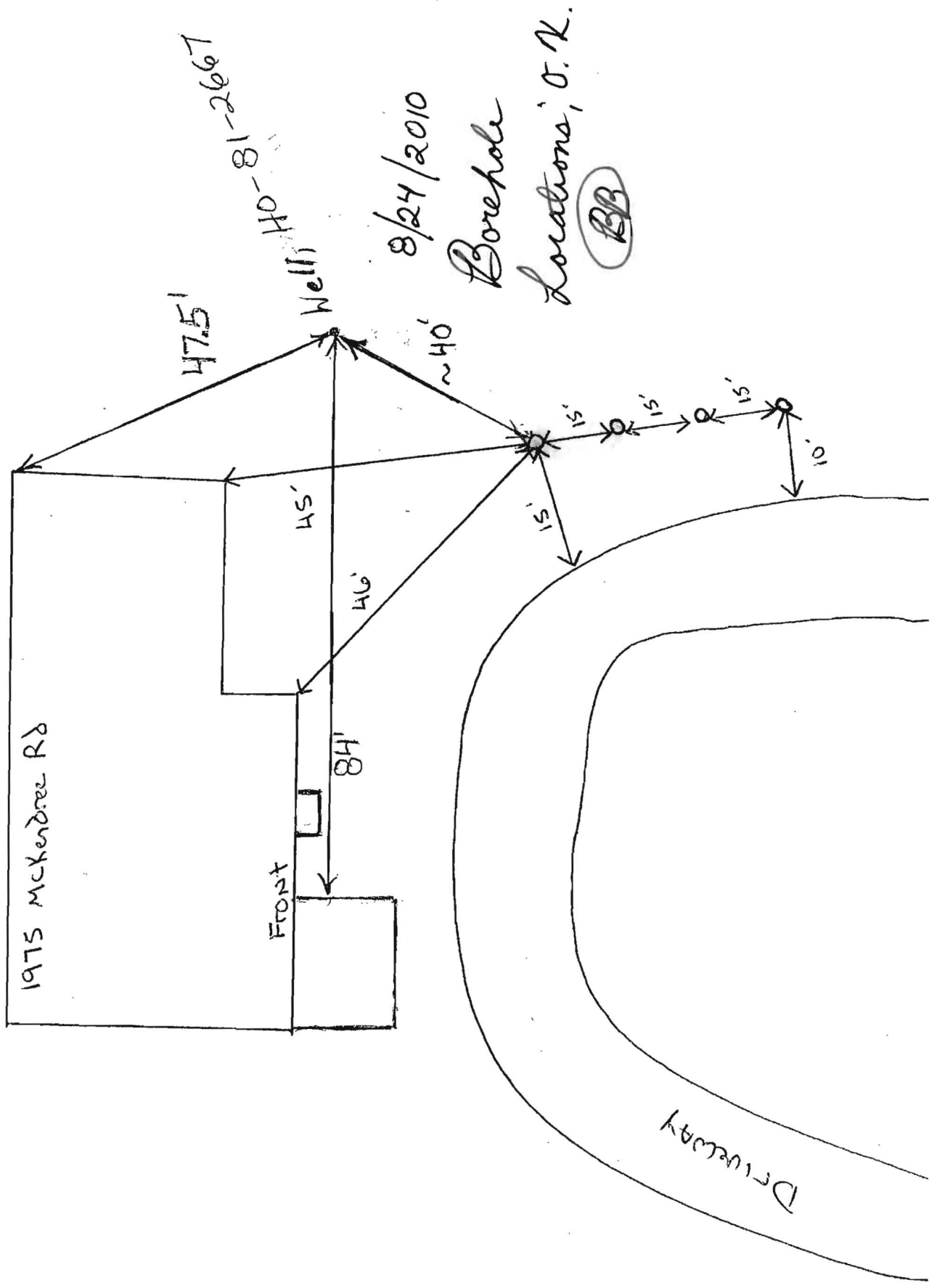
Address: 1975 McKendree Road

4 x 350' geothermal bores



Please provide 2 measurements from each bore hole to a permanent structure such as corner of the house, property lines, buildings, or septic system.

Septic



475'  
40-81-2667  
Well

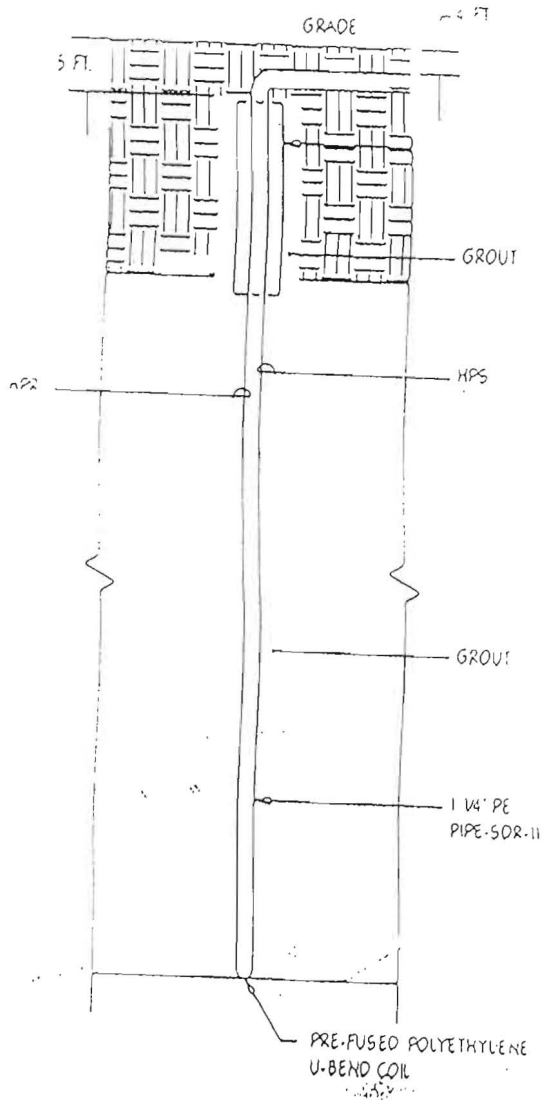
8/24/2010  
Borehole

Locations, O.K.  
BB

1975 Mckendree Rd

Front

Driveway



4  
 M1.00

TYPICAL BORE HOLE DETAIL  
 NOT TO SCALE



Providing Quality Systems for Over 20 Years  
Commercial & Residential Water Well Drilling  
Test Borings & Consulting • Geothermal Drilling & Systems  
NGWA & IGSHPA Certified

Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 21046  
Fax: 410-313-2648

August 16, 2010

Re: 1975 McKendree Road

Dear Department of Environment:

Please note unless otherwise specified all geothermal bores installed by our company will be installed as follows:

Grout: Bentonite Grout 20% solids minimum  
Manufacture(s): Baroid or Wyo-Ben  
Will be grouted from the bottom to the top with grout material

Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA  
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 1/4"  
IGSHPA Certification Number 12687

Also attached is a cross section diagram of the bore hole.

We would appreciate your help in getting this permit released as soon as possible so that we can expedite this project. If you have any questions, please do not hesitate to contact me.

Sincerely,

Michael Barlow