

C1 11024 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 MM DD YY

DATE WELL COMPLETED MM DD YY 1-9-12

Depth of Well 400 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-2199

OWNER K2 Properties, LLC last name first name TOWN Ellicott City SUBDIVISION Pine Orchard Park SECTION LOT OF-3

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Top Soil 0-3, Soft Bin Rock 3-35, Hard Gneiss 35-400, 1 closed loop.

GROUTING RECORD yes no

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 18 NO. OF POUNDS 450 GALLONS OF WATER 450 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 400 ft.

CASING RECORD

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot) 60 61 63 64 66 70

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

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9 PUMPING RATE (gal. per min.) 11 15 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 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) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED yes no Y 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MW D 553 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MW D 559

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

Table with columns: DEPTH (nearest ft.), SLOTTED SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) from to

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 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.281868 LONGITUDE 76.86268 (DEFAULT COORD. WGS 84)

NOTES: Grep field Building front

B 1 13047

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

HO-95-2199 fill in this form completely

Date Received (APA) 10-26-11

OWNER INFORMATION

8 MM DD YY 13 K2 PROPERTIES LLC 15 Last Name Owner First Name 34 10200 LITTLE BARK HOUSE CT. 36 Street or RFD 55 ELICOTT CITY MD 21042 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

8 COUNTY HOWARD 21 PINE ORCHARD PARK 23 SUBDIVISION 42 SECTION 44 46 LOT F3 48 50 ELICOTT CITY 52 NEAREST TOWN 71

DRILLER INFORMATION

76 Driller's Name CARROLL JOHN HESS M W D 553 License No. 81 Firm Name ALLIED ENVIRONMENTAL SERVICES Address P.O. Box 129 ANNAPOLIS JUNCTION, MD 20701 Signature John Hess Date 10-18-11

B 4

SOURCES OF DRILLING WATER

- 1. PUBLIC WATER 2. 3.

3295 CORPORATE CT. 11 STREET ADDRESS 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST EAST SOUTH 34 150 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 0024 BLK: 0001 PARCEL 0010

B 2 WELL INFORMATION

7 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 CLOIED LOOP

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) Public COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S 41 DATE ISSUED 11/9/2011 Brian Baber 11/9/2012 43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 400 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

30 BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVerse-ROTary DRive-POINT other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

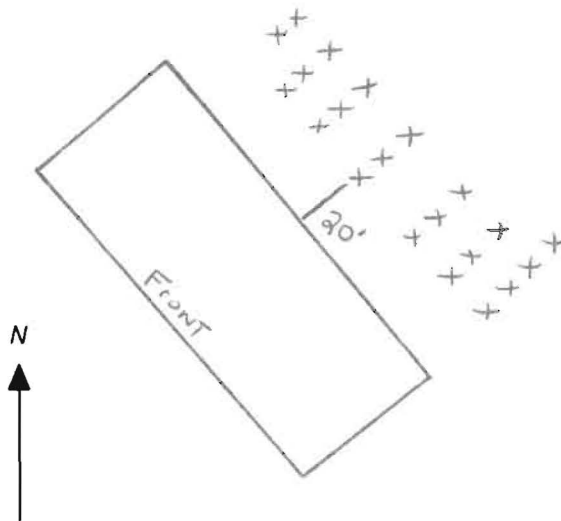
- N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEAN AN EXISTING WELL

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)

APPROX. PERMIT NUMBER G PERMIT No. HO-95-2199 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



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

My 02-287749

EMERGENCY/TEMP NO. IF ANY

B 1	1700	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 535968	STATE PERMIT NUMBER Ho-95-2199 fill in this form completely
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Date Received (APA) 08/29/11

**OWNER INFORMATION**

8 MM DD YY 11

15 Last Name Owner First Name 34  
K2 Properties LLC

36 Street or RFD 55  
10200 Little Brick House Ct

57 Town 70 State 72 Zip 76  
Ellicott City, MD 21042

B 3

**LOCATION OF WELL**

8 COUNTY 21  
Howard

23 SUBDIVISION 42  
Pine Orchard Park

SECTION 44 '46 LOT F3 48 '50

52 NEAREST TOWN 71  
Ellicott City

**DRILLER INFORMATION**

Driller's Name 76 License No. 81  
Marshal Arnette M S D 106

Firm Name  
Allied Environmental Socs

Address  
PO Box 139, Annapolitan MD 20701

Signature Date  
M. Arnette 8/17/11

B 4

**SOURCES OF DRILLING WATER**

11 STREET ADDRESS 30  
3295 Corporate Ct

2. Public

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 150 37  
DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP 0024 BLK 0001 PARCEL 0010

B 2

**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

1 Closed Loop

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) Public

COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S →

DATE ISSUED 9/13/2011 Brian Baker 9/13/2012

43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 400 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

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

**METHOD OF DRILLING** (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

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37 CABLE REVerse-ROTary DRIVE-POINT

other

**REPLACEMENT OR DEEPEMED WELLS**  
(CIRCLE APPROPRIATE BOX)

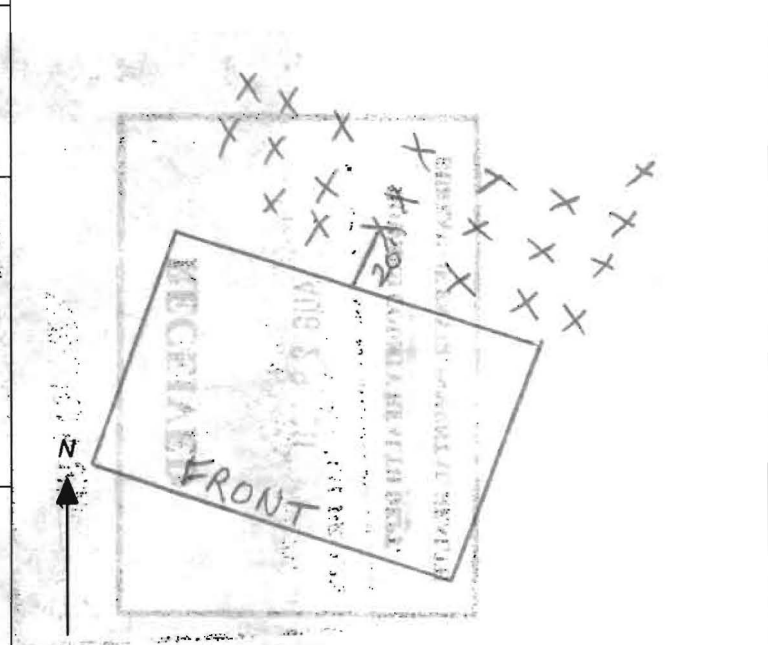
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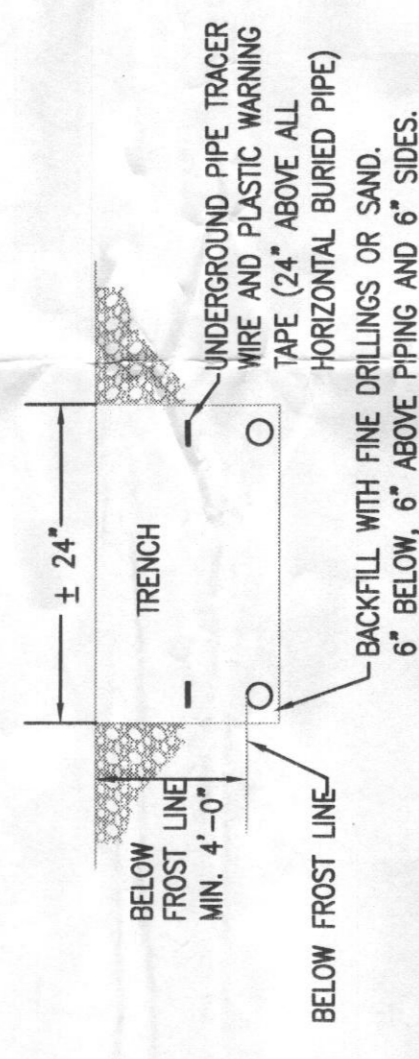
APPROX. PERMIT NUMBER G

PERMIT No. Ho-95-2199

**SPECIAL CONDITIONS**

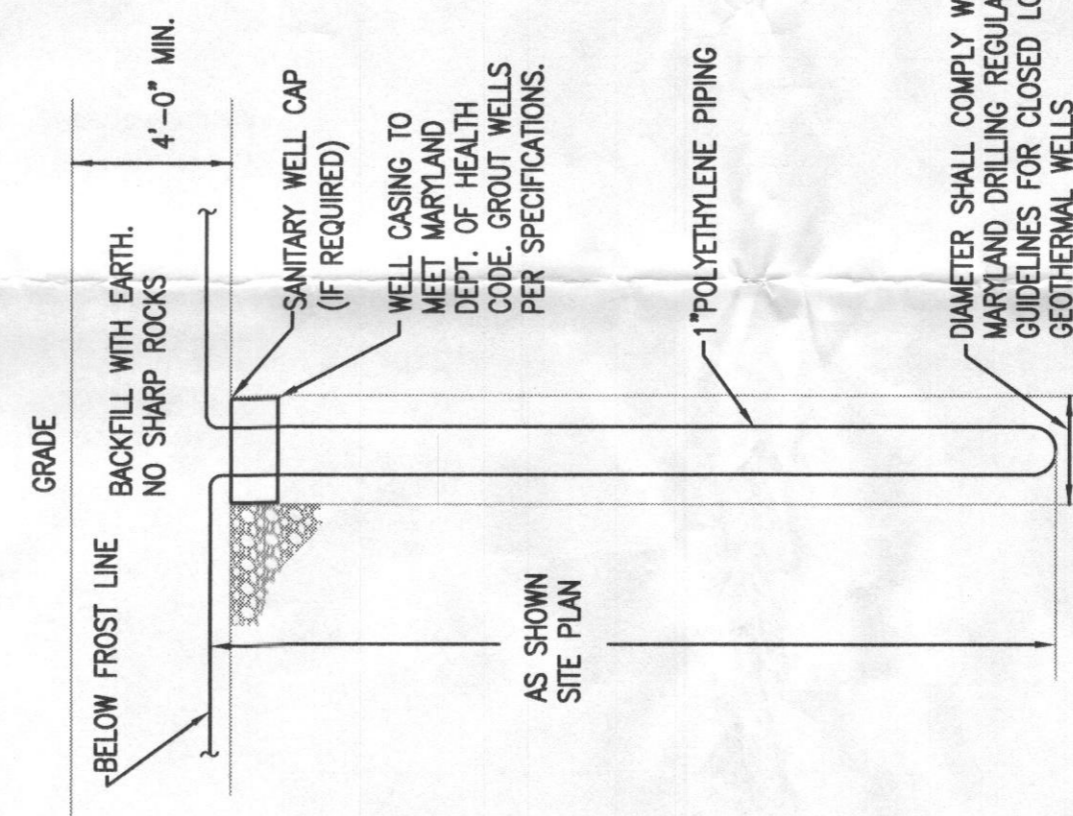
NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Grant Entire Borehole



**GEOTHERMAL TRENCH DETAIL**

NOT TO SCALE



**GEOTHERMAL WELL DETAIL**

NOT TO SCALE



N. 588.725