

C1 11023 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

1 2 3 6
 (THIS NUMBER IS TO BE PUNCHED
 IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY
 DATE Received
 MM DD YY
 8 13

DATE WELL COMPLETED
 MM DD YY
 1-9-12
 15 20

Depth of Well
 22 400 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
 28 29 30 31 32 33 34 35 36 37
 10-95-2198

OWNER K2 Properties
 WELL SITE ADDRESS 3295 Corporate Ct TOWN Elliott City MD
 SUBDIVISION _____ SECTION _____ LOT F3

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		check if water bearing
	FROM	TO	
Top Soil	0	3	
Soft Brn Rock	3	35	
Hard Gray Rock	35	400	

10 closed loops

GROUTING RECORD yes no
 WELL HAS BEEN GROUTED Y N
 (Circle Appropriate Box)
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC
 NO. OF BAGS 180 NO. OF POUNDS 9000
 GALLONS OF WATER 7500
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 400 ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 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 depth (feet)
 inch from to
 E A C H C A S I N G

SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER
 DEPTH (nearest ft.)

NUMBER OF UNSUCCESSFUL WELLS: _____
 WELL HYDROFRACTURED 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

E 1	8	9	11	15	17	21
A 2	23	24	26	30	32	36
C 3	38	39	41	45	47	51
R E	SLOT SIZE 1 _____ 2 _____ 3 _____					
E N	DIAMETER OF SCREEN (NEAREST INCH) from _____ to _____					

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

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. MWD 553
 DRILLERS SIGNATURE Chris P. [Signature]
 (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. MWD 553
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) W Q
 70 _____ 72 _____ 74 75 76
 TELESCOPE LOG INDICATOR OTHER DATA

C 3
PUMPING TEST
 HOURS PUMPED (nearest hour) 8 9
 PUMPING RATE (gal. per min.) _____
 METHOD USED TO MEASURE PUMPING RATE _____
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING _____ ft.
 WHEN PUMPING _____ ft.
 TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 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) _____ 31 _____ 35
 PUMP HORSE POWER _____ 37 _____ 41
 PUMP COLUMN LENGTH (nearest ft.) _____ 43 _____ 47
 CASING HEIGHT (circle appropriate box and enter casing height)
 + above } LAND SURFACE (nearest foot)
 - below }

LATITUDE 39.281868
 LONGITUDE 76.861268
 (DEFAULT COORD. WGS 84)

NOTES:
Geo field
Buildings

B 1 13046

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

HO-95-2198 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 BRICK HOUSE CT. 36 Street or RFD 55 Ellicott City MD 21042 57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard 8 COUNTY 21 Pine Orchard Park 23 SUBDIVISION 42 SECTION 44 46 LOT F3 48 50 Ellicott City 52 NEAREST TOWN 71

DRILLER INFORMATION

Carroll John Hess MWD 553 76 License No. 81 ALLIED ENVIRONMENTAL SERVICES Firm Name PO Box 19 ANNAPOLIS JUNCTION, MD 20701 Address John Hess 10-18-11 Signature Date

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

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

22 [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 10 CLOSED LOOPS

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 Baker 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)

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

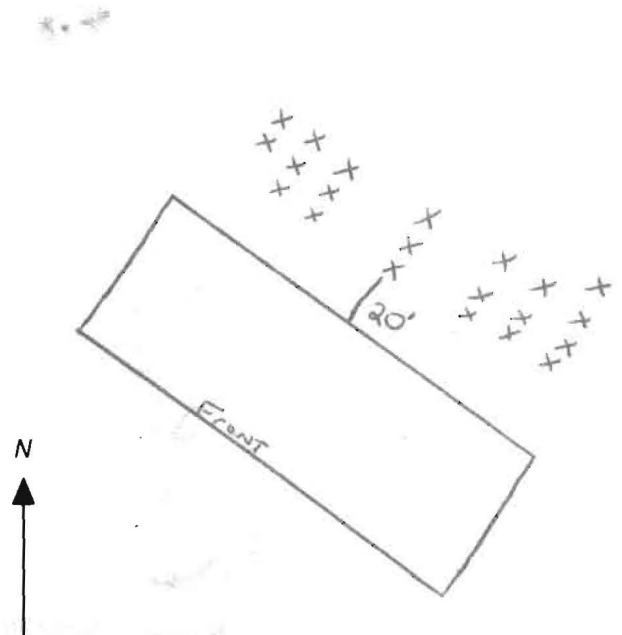
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

39 [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-95-2198 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

04 02-287747

EMERGENCY/TEMP NO. IF ANY

B 1 1698
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
535963 please type

STATE PERMIT NUMBER
HO-95-2198
fill in this form completely 79

Date Received (APA)
08 21 11
8 MM DD YY 13

OWNER INFORMATION
K2 Properties LLC
15 Last Name Owner First Name 34

10200 Little Brick House Ct
Ellicott City, MD 21042
36 Street or RFD 55
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard
8 COUNTY
Pine Orchard Park
23 SUBDIVISION 42
SECTION 44 46 LOT F3 48 50
Ellicott City
52 NEAREST TOWN 71

DRILLER INFORMATION

Marshal Arnette M 5 D 106
Driller's Name 76 License No. 81
Applied Environmental Svcs
Firm Name
PO Box 139, Annap Jure MD 20701
Address
Signature Date 8/17/11

B 4

SOURCES OF DRILLING WATER

1. Public
2.
3.

3295 Corporate Ct
11 STREET ADDRESS 30
ON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)
34 150 37
DISTANCE FROM ROAD FT 38 39
ENTER FT OR MI
TAX MAP 0024 BLK 0001 PARCEL 0010

B 2 WELL INFORMATION

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 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL 10 Loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

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other

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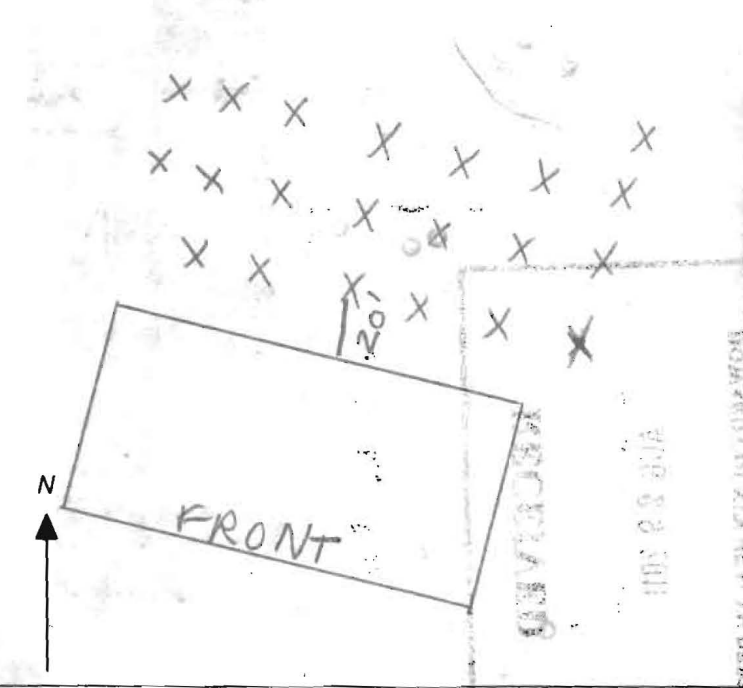
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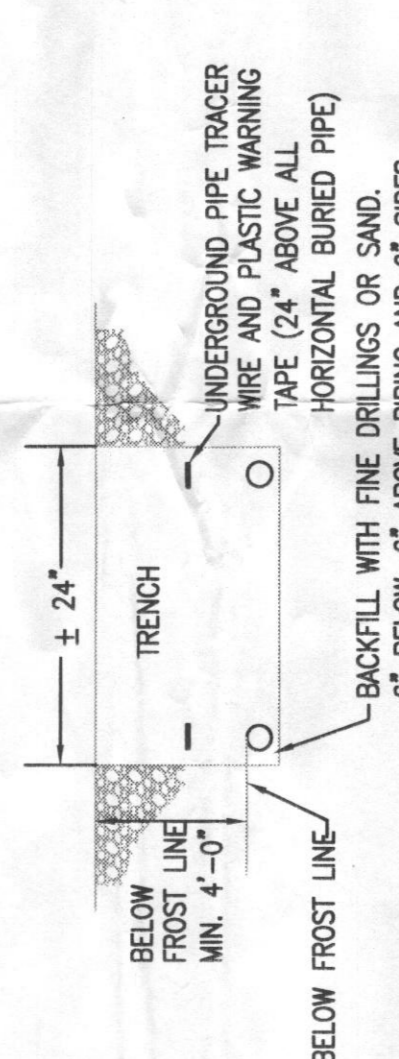
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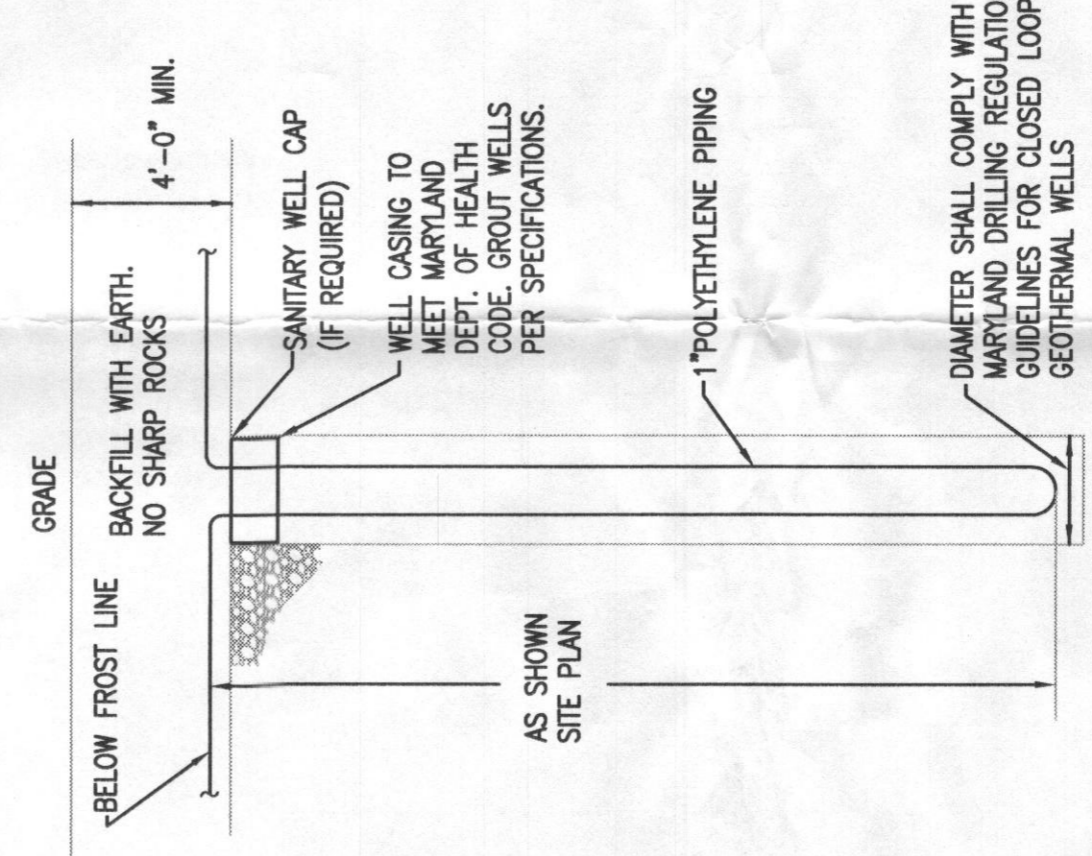
SPECIAL CONDITIONS
Grout Entire Borehole

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





GEOTHERMAL TRENCH DETAIL
NOT TO SCALE



GEOTHERMAL WELL DETAIL
NOT TO SCALE



SITE PLAN
SCALE: 1/16"=1'-0"

SWM WATER QUALITY

2 STORY OFFICE BLDG.

N. 588.725