

C-1 2943

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 WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM 05 DD 09 YY 11

MM 11 DD 09 YY 10

22 320 26 2/25/11

HO - 95 - 1977

OWNER: COOK, Jeremy; STREET OR RFD: 14100 BISON COURT; TOWN: Glenelig; SUBDIVISION: The heritage; SECTION: ; LOT: 14

WELL LOG

Not required for driven wells

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

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include: Soil (0-8), Clay (8-20), Brown Shale (20-45), Gray rock (45-70), Fractured gray rock (70-100), Gray rock (100-320).

1st bore 85' Steel casing; 2nd bore 105' Steel casing

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N); TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay); NO. OF BAGS; NO. OF POUNDS; GALLONS OF WATER; DEPTH OF GROUT SEAL (to nearest foot).

CASING RECORD

MAIN CASING TYPE (ST, PL); Nominal diameter top (main) casing; Total depth of main casing; OTHER CASING (if used) diameter and depth.

SCREEN RECORD

screen type or open hole (ST, BR, HO); insert appropriate code below; SLOT SIZE 1, 2, 3; DIAMETER OF SCREEN (NEAREST INCH).

C 3

PUMPING TEST

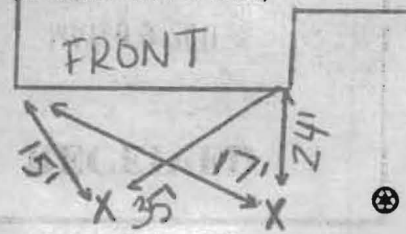
HOURS PUMPED (nearest hour); PUMPING RATE (gal. per min.); METHOD USED TO MEASURE PUMPING RATE; WATER LEVEL (distance from land surface) BEFORE PUMPING, WHEN PUMPING; TYPE OF PUMP USED (for test): air, piston, turbine, centrifugal, rotary, other, jet, submersible.

PUMP INSTALLED

DRILLER INSTALLED PUMP (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); PUMP HORSE POWER; PUMP COLUMN LENGTH (nearest ft.); CASING HEIGHT (circle appropriate box and enter casing height) above/below LAND SURFACE (nearest foot).

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER: 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.: MND 355

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: D

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

C 2 DEPTH (nearest ft.)

Table with columns: 1, 2, 8, 9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Rows: E, A, C, H, S, R, E, N.

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

B 1 4644

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40-95-1977

533978 please type

fill in this form completely

Date Received (APA) 08 19 10

OWNER INFORMATION

8 MM DD YY 13
Cook Jeremy
15 Last Name Owner First Name 34
14100 Bison Ct
36 Street or RFD 55
Glenelg MD 21737
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

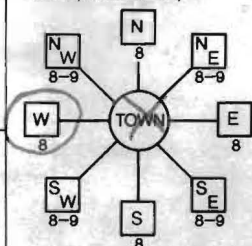
8 COUNTY Howard 21
23 SUBDIVISION The Heritage 42
SECTION 1 LOT 14
44 46 48 50
Glenelg
52 NEAREST TOWN 71

DRILLER INFORMATION

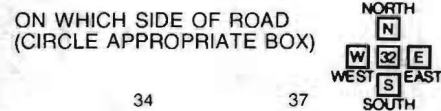
Michael Barlow MWD 355
Driller's Name 76 License No. 81
Barlow Well Drill. Co
Firm Name
522 Underwood Lane 21014
Address
Signature Date 8/12/10

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

B 4 1 2
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



14100 Bison Ct
11 NEAR WHAT ROAD 30



34 37
DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: 21 BLK: 18 PARCEL 184

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)

- 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 2 bores x 320'

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 9/9/2010 Brian Baker 9/9/2011
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 579 000 EAST GRID 800 000
50 55 57 63

APPROXIMATE DEPTH OF WELL 320 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)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
39 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 DEEPEMED AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

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 790800
N 51089

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



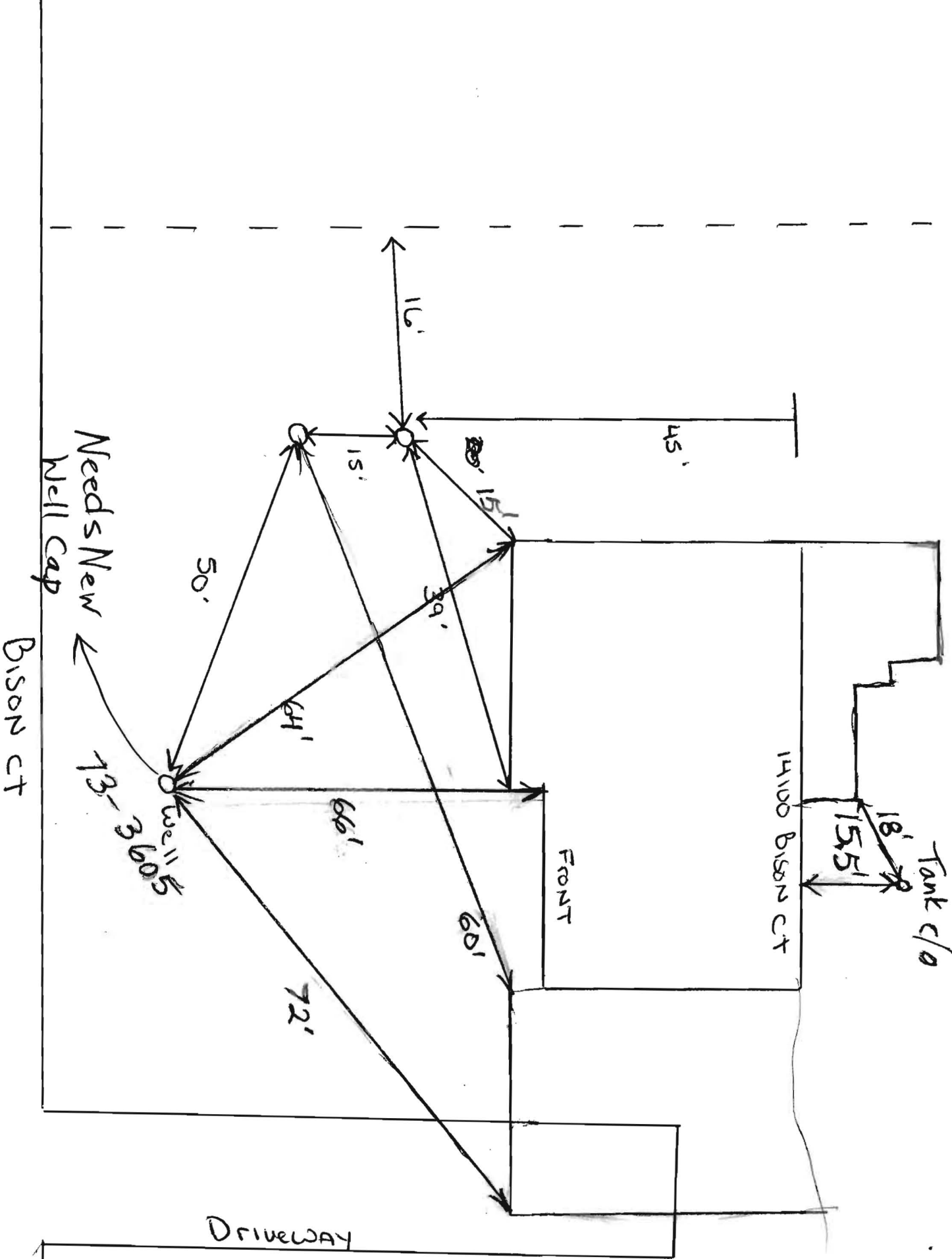
Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER G
PERMIT No. 40-95-1977
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED
Please Put New Cap on Well

Septic



Bison Ct

DRIVEWAY

FRONT

14100 Bison Ct

Tank c/o

Needs New Well Cap

Well #5

Bison Ct

45'

16'

15'

50'

15'

39'

64'

66'

60'

72'

18'

155'



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: 14100 Bison Court

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

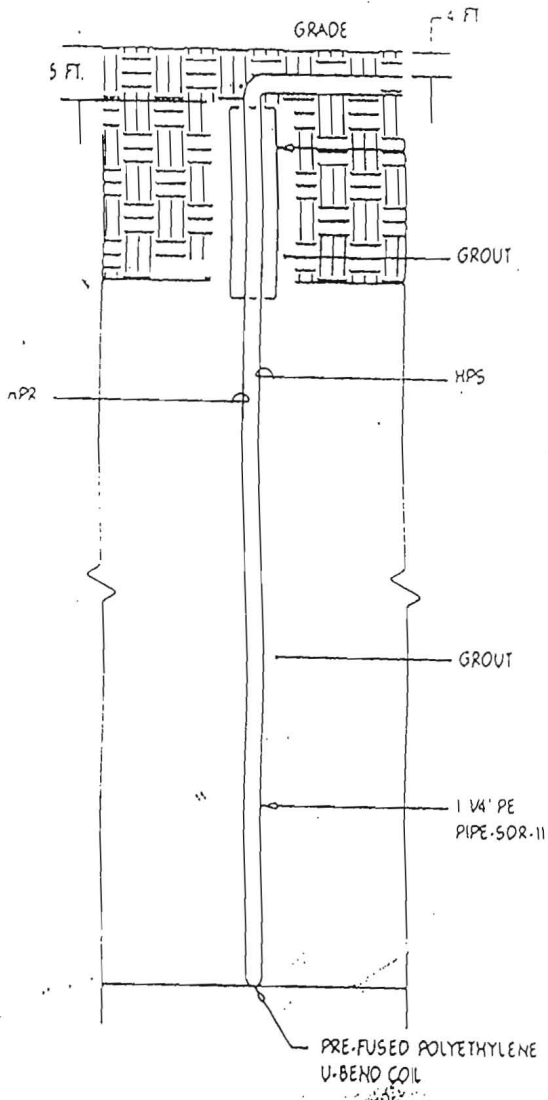
Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 1/4"
IGSHPA Certification Number 12687

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



4 TYPICAL BORE HOLE DETAIL
 M1.00 NOT TO SCALE