

C 1 0075

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)

COUNTY NUMBER

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well 22 1,250 26 OK 50 7/20/07

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1000

OWNER Bates Bruce STREET OR RFD Blights Ln. TOWN Fulton SUBDIVISION Beaufort Park SECTION LOT 53

WELL LOG table with columns for DESCRIPTION, FEET (FROM, TO), and check if water bearing. Includes handwritten notes: 'Deepened', 'Gray Shale 600 1,250', and '1,150'.

GROUTING RECORD. WELL HAS BEEN GROUTED (Y). TYPE OF GROUTING MATERIAL: CEMENT CM, BENTONITE CLAY BC. NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD. casing types insert appropriate code below: ST (STEEL), CO (CONCRETE), PL (PLASTIC), OT (OTHER). MAIN CASING TYPE, Nominal diameter, Total depth.

OTHER CASING (if used) diameter, depth (feet) from to.

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.) table with columns for casing sections (E, A, C, H, S, R, E, N) and slot size.

DIAMETER OF SCREEN (NEAREST INCH) from to. GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL.

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 CASING

PUMPING TEST. HOURS PUMPED (nearest hour) 3. PUMPING RATE (gal. per min.) 5. METHOD USED TO MEASURE PUMPING RATE Bucket. WATER LEVEL (distance from land surface) BEFORE PUMPING 12 ft. WHEN PUMPING 1,225 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 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, - below. LAND SURFACE (nearest foot) 49 50 51.

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).

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...

DRILLERS LIC. NO. MSD011. DRILLERS SIGNATURE John A. Shuff. LIC. NO. JSD106. SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee) Christopher Shuff.

HARR WELL DRILLING

12047 FALLS ROAD
COCKEYSVILLE, MD 21030
410-252-4588

HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 7-26-06
Address: Blounts Lane
Owner Name: Bruce Bates
Well Depth: 600 Ft

Permit Number:
Subdivision: #1 well
Election District:
Static Water Level: 79 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 1 gallon bucket	Calculated Flow-Gallons Per Minute
0830	79 ft		4 sec	15.00
0845	70		4	15.00
0900	243		5	12.00
0915	245		120	0.50
0930	246		90	0.66
0945	246		90	0.66
1000	249		107	0.56
1015	249		107	0.56
1030	250		135	0.44
1045	250		135	0.44
1100	250		135	0.44
1115	251		138	0.43
1130	252		140	0.42
1145	252		144	0.41
1200	253		144	0.41
1215	254		174	0.34

C 1 5240

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)

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM DD YY

03 05 07

22 600 26

28 29 30 31 32 33 34 35 36 37

OWNER Bates Bruce
STREET OR RFD Blounts Lane
SUBDIVISION Beaufort Park SECTION TOWN Fulton LOT

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N)
TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC)
NO. OF BAGS 6 NO. OF POUNDS 360
GALLONS OF WATER 36
DEPTH OF GROUT SEAL (to nearest foot) from 0 to 20

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 4
PUMPING RATE (gal. per min.) 34
METHOD USED TO MEASURE PUMPING RATE Submersible
WATER LEVEL (distance from land surface) BEFORE PUMPING 79 ft. WHEN PUMPING 254 ft.
TYPE OF PUMP USED (for test) S submersible

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows: Overburden, Gray Rock, Soft Gray Rock, Gray Rock.

CASING RECORD

main casing TYPE PL, Nominal diameter top (main) casing (nearest inch) 6, Total depth of main casing (nearest foot) 20

OTHER CASING (if used)

Table for other casing with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

screen type or open hole insert appropriate code below: ST STEEL, BR BRASS, HO OPEN HOLE, PL PLASTIC, OT OTHER

C 2 DEPTH (nearest ft.)

Table for screen depth with columns: slot size, diameter of screen (nearest inch), from, to.

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
PUMP HORSE POWER 37
PUMP COLUMN LENGTH (nearest ft.) 43

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 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 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M S D 162

DRILLERS SIGNATURE (Marty Dixon)

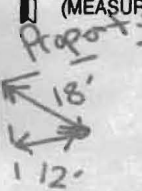
LIC. NO. 1 M S D 193

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

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



C1 0075 <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>	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.
	DATE RECEIVED <small>MM DD YY</small> 5/23/07		COUNTY NUMBER
DATE WELL COMPLETED <small>MM DD YY</small> 5/23/07	DEPTH OF WELL <small>(TO NEAREST FOOT)</small> 22 150 20	PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-75-1000	

OWNER DATE HOUSE
 STREET OR RFD WINDS LN TOWN FULTON
 SUBDIVISION BEAUFORT PARK SECTION _____ LOT _____

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	
<i>Deep Sand</i>			
<i>Co. Sand</i>			

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N

TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT BENTONITE CLAY
 NO. OF BAGS _____ NO. OF POUNDS _____
 GALLONS OF WATER _____
 DEPTH OF GROUT SEAL (to nearest foot)
 from _____ ft. to _____ ft.
 (enter 0 if from surface)

CASING RECORD

cases 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) _____

OTHER CASING (if used)

Each casing	diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole insert appropriate code below

ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

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

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.: M S D 011

DRILLERS SIGNATURE _____
 (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: F D 101

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

DEPTH (nearest ft.)

Each casing	1	2	3
E	8	9	11
A	15	17	21
C	29	24	26
H	30	32	36
S	38	38	41
R	45	47	51
E			
E			
N			

SLOT 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 O _____

70 _____ 72 _____ 74 76 76

TELESCOPE CASING _____ LOG INDICATOR _____ OTHER DATA _____

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 _____ 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 (CIRCLE) 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 } LAND SURFACE
 - below } (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)