

C1 9615 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED. ON 9/8/99 SRK COUNTY NUMBER A59914

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

DATE WELL COMPLETED MM DD YY 8 17 99 Depth of Well 22 380 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 94 - 2120

OWNER Highland Development first name STREET OR RFD Street B TOWN Glenwood SUBDIVISION Knapp SECTION LOT 39

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows: Sand (0-26), Gray Granite (26-380). Includes handwritten note: 'Dry well backfilled 400-40 drilling materials 40-0 cement'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 9 NO. OF POUNDS 846 GALLONS OF WATER 54 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 26 ft.

CASING RECORD casing types insert appropriate code below (ST) (CO) (PL) (OT) STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch): 6 Total depth of main casing (nearest foot): 29

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole (ST) (BR) (HO) (PL) (OT) STEEL BRASS BRONZE PLASTIC OPEN HOLE OTHER

PUMPING TEST

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min.) 1.1 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 62 ft. WHEN PUMPING 342 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) 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) 50 51

NUMBER OF UNSUCCESSFUL WELLS: 1 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...

DRILLERS LIC. NO. 1 M SDOAK DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D

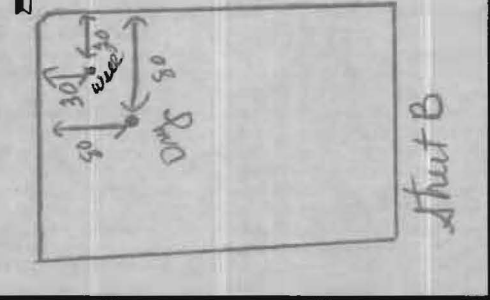
Table with columns: DEPTH (nearest ft.), E A C H S C 3 R E E N. Rows: 1 HO 281 380, 2 23 24 26 30 32 36, 3 38 39 41 45 47 51. SLOT SIZE 1 2 3. DIAMETER OF SCREEN 56 60 INCH from to

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



B 1 0344

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

Ho-94-2120 fill in this form completely

Date Received (APA)

12-29-98

OWNER INFORMATION

8 MM DD YY 13

Highland Development

15 Last Name Owner First Name 34

P.O. Box 228

36 Clarksville Md. 21029

57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

8 COUNTY 21 Howard

23 SUBDIVISION 42 Knapp Property

SECTION 44 46 LOT 39 48 50

52 NEAREST TOWN 71 Calenwood

MILES FROM TOWN (enter 0 if in town) 3 M I 73 76 77 78

DRILLER INFORMATION

Driller's Name M S D 024

Joseph L. Mayne 76 License No. 81

Firm Name

Joseph L. Mayne Well Drilling

Address

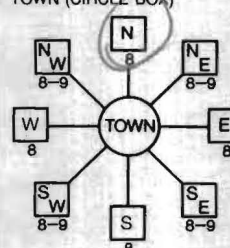
5512 Ridge Rd. Mt. Airy 21111

Signature Date

Joseph Mayne 12/29/98

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



11 NEAR WHAT ROAD 30 Street B

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 200 37 DISTANCE FROM ROAD Ft

ENTER FT OR MI 38 39

TAX MAP: 8 BLK: 18 PARCEL 110

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 500 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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard A 59914

COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S 41

DATE ISSUED 2/16/99 Kim Maute 2/16/00

43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 544 000 EAST GRID 797 000

50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 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 54 G A P 63

PERMIT No. Ho-94-2120

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

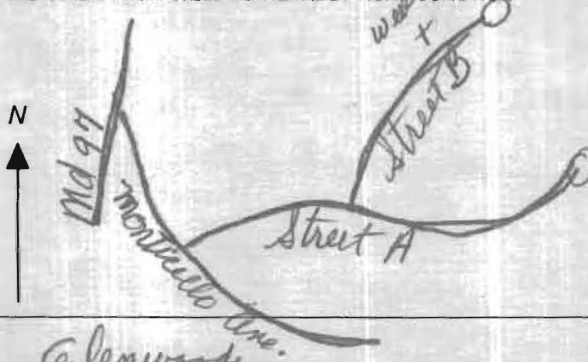
SOURCES OF DRILLING WATER 1. Well 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 7977 N 5404

8/17/99 9:30 GROUT location OK SRU grout complete prior to arrival for inspection - SRU x 29' casing 26' open 9 bags

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



SPECIAL CONDITIONS

APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-2120
 Location of property (road) Street B
 Subdivision Knapp Lot 39 Block Plat Sec.
 Well Driller Mayne Owner Highland Development

Depth of well 380'
 Distance of measuring point (M.P.) above ground 1'
 Static water level (S.W.L.) below M.P. 62'

I. High rate pumping -- reservoir drawdown

Time pump started 6:30 Pumping rate 20 gpm.
 Total time 40 min. to reach pumping water level 342' ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5/1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
6:45	164'	3 sec.	N/A	20 gpm.
7:00	270	4		15
7:10 -	342	4		15
7:25	340	53		1.1
7:40	340	53		1.1
7:55	340	53		1.1
8:10	339	53		1.1
8:25	339	53		1.1
8:40	338	53		1.1
8:55	339	53		1.1
9:10	339	53		1.1
9:25	338	53		1.1
9:40	339	53		1.1
9:55	339	53		1.1
10:10	339	53		1.1
10:25	339	53		1.1
10:40	340	53		1.1
10:55	339	53		1.1
11:10	340	53		1.1
11:25	339	53		1.1
11:40	340	53		1.1
11:55	342	53		1.1
12:10	341	58		1*
12:25	341	58		1*

HD-224 12:40 341 58 1*
 12:55 341 58 1*
 1:10 340 58 1*

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogles Well Drilling Telephone #: 410-795-5670
Address: 580 Obrecht Rd
Stylesville Md 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): Allen Compton License# MSD 009

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: D.R. Horton Telephone #: 301-670-6144
Subdivision: Monticello Lot #: 39 Well Tag #: HO-94-2120
Site Address: 14321 Fox Creek Ct

Submersible Pump Data

Make: Crawds
Model #: 55807422
Pump Capacity 5 GPM
Well Yield: 11 GPM

Pitless Adapter

Make: Campbell
Model#: _____
Depth: 42' (36" min)
NSF/WSC approved: yes

Well Cap and Electric Conduit

Two piece watertight cap: yes
Screened, vented well cap: yes
Cap secured to casing: yes
Conduit min 18" B.G.: yes
Conduit secured to well cap: yes

Depth of well encountered at time of pump installation: _____ (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, Cable guards, or other acceptable method used- Must circle one

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A

Piping to house

Type: 1" Black Plastic
PSI: 160 (160 psi min)
Depth of supply line: 42' (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: yes
Approximate length of sleeve: 5'
Sleeve caulked and sealed properly: yes

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation

date

Allen Compton 8-27-01

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 8/28/01 Date Insp. Approved: 8/28/01 Inspector: KG SRK

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope not seen outside of well cap/casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter