

C1 8624

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)COUNTY  
NUMBER 13 A516057

ST/CO USE ONLY

DATE Received

MM DD YY

DATE WELL COMPLETED

MM DD YY  
04 16 2007

Depth of Well

22 300 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"

H0 - 95 - 0632

OWNER Bowley John and George  
STREET OR RFD Sweetbay Street TOWN Woodbine  
SUBDIVISION Belle Haven Estates SECTION 24 LOT 24

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)

FEET

FROM

TO

check  
if water  
bearing

Soil

0 12

Brown shale

12 36

Soft Brown  
shale

36 62

Gray Rock

62 300 \*

Water

At 113 + 229'

## GROUTING RECORD

yes no

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BCNO. OF BAGS 16 NO. OF POUNDS 1600GALLONS OF WATER 96

DEPTH OF GROUT SEAL (to nearest foot)

from 0 TOP 52 ft. to 64 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
below

ST

STEEL

CO

CONCRETE

PL

PLASTIC

OT

OTHER

MAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)!Total depth  
of main casing  
(nearest foot)

PL

6

64

60 61

63 64

66 67

70

E  
A  
C  
H  
C  
A  
S  
I  
N  
G

OTHER CASING (if used)

diameter

depth (feet)

inch

from

to

screen type  
or open hole(insert  
appropriate  
code  
below)

## SCREEN RECORD

ST

STEEL

BR

BRASS

HO

OPEN

BRONZE

HOLE

PL

PLASTIC

OT

OTHER

C 2

DEPTH (nearest ft.)

T 2

E 1

A 8

C 9

H 11

S 23

C 24

3 26

R 30

E 32

N 36

38

39

41

45

47

51

SLOT SIZE 1

2

3

DIAMETER

OF SCREEN

56

60

from

to

GRAVEL PACK

IF WELL DRILLED

WAS FLOWING WELL

INSERT F IN BOX 68

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

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour)

3

8 9

PUMPING RATE (gal. per min.)

10.0

11 15

METHOD USED TO  
MEASURE PUMPING RATE

Submersible

WATER LEVEL (distance from land surface)

BEFORE PUMPING

24

17 20

ft.

WHEN PUMPING

120

22 25

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 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.

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

- below

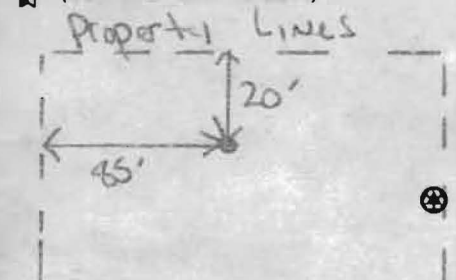
(nearest  
foot)

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

yes

Y

no

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  
WELLI 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. 1 M S D 162

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1

A W

D

766

1

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

# HARR WELL DRILLING

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

## HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 4-13-07  
Address: Union Chapel Road  
Owner Name: Grayson Homes  
Well Depth: 300 Ft

Permit Number: HO-95-0632  
Subdivision: Belle Haven Est L#24  
Election District:  
Static Water Level: 24 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
1145	24 ft		22 sec	13.63
1200	92		25	12.00
1215	120		30	10.00
1230	120		30	10.00
1245	120		30	10.00
1300	120		30	10.00
1315	120		30	10.00
1330	120		30	10.00
1345	120		30	10.00
1400	120		30	10.00
1415	120		30	10.00
1430	120		30	10.00
1445	120		30	10.00

C1 8624

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FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 13 A516057

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

DATE WELL COMPLETED

04 16 2007

Depth of Well

22 300

(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"

H0 - 95 - 0632

28 29 30 31 32 33 34 35 36 37

OWNER

STREET OR RFD

SUBDIVISION

SECTION

LOT

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)

FEET

FROM

TO

check  
if water  
bearing

Soil

0 12

Brown shale

12 36

Soft Brown  
Shale

36 62

Gravel Rock

62 300 \*

Water

At 113 + 229'

 $16 \div 6.6 = 2.5$ 

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

yes no

Y N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT

CM

BENTONITE CLAY

BC

NO. OF BAGS

16

NO. OF POUNDS

1600

GALLONS OF WATER

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
below

ST

STEEL

CO

CONCRETE

PL

PLASTIC

OT

OTHER

MAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)

60 61

63 64

66 70

E  
A  
C  
H  
C  
A  
S  
I  
N  
G

OTHER CASING (if used)

diameter

depth (feet)

inch

from to

screen type  
or open hole

SCREEN RECORD

ST

STEEL

BR

BRASS

HO

OPEN

PL

PLASTIC

OT

OTHER

C 2

DEPTH (nearest ft.)

1 2

E 8 9 11 15 17 21

A 23 24 26 30 32 36

C 3

R 38 39 41 45 47 51

E

N

SLOT SIZE 1 2 3

DIAMETER

OF SCREEN

(NEAREST

INCH)

56

60

from

to

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T

(E.R.O.S.)

W Q

70

72

TELESCOPE  
CASINGLOG  
INDICATOR74 75 76  
OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour)

10.0

PUMPING RATE (gal. per min.)

11 15

METHOD USED TO  
MEASURE PUMPING RATE

Submersible

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

(describe below)

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)

PUMP HORSE POWER

PUMP COLUMN LENGTH  
(nearest ft.)

CASING HEIGHT

(circle appropriate box  
and enter casing height)

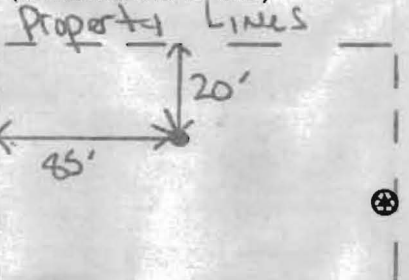
+ above

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)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

yes

Y

no

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  
WELLI 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

162

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.

A

W

766

D

766

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

# HARR WELL DRILLING

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COCKEYSVILLE, MD 21030  
410-252-4588

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Permit Number: HO-95-0632  
Subdivision: Belle Haven Est L#24  
Election District:  
Static Water Level: 24 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
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1330	120		30	10.00
1345	120		30	10.00
1400	120		30	10.00
1415	120		30	10.00
1430	120		30	10.00
1445	120		30	10.00



B 1	<b>9172</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> <u>526193</u> please type	STATE PERMIT NUMBER <b>HO-95-0632</b> <small>fill in this form completely</small>
Date Received (APA) 8 MM DD YY 13		OWNER INFORMATION		
15 <u>Grayson Homes</u> Last Name		34 First Name		
36 <u>9025 Chevrolet Drive</u> Street or RFD		55		
57 <u>Ellicott City</u> Town		70 <u>MD</u> State	72 <u>21043</u> Zip	76
DRILLER INFORMATION				
Driller's Name <u>Michael D. Isom</u>		M S D <u>162</u> License No. 81		
Firm Name <u>G. Edgar Harr Sons' Corp.</u>				
Address <u>12047 Falls Road, Cockeysville 21030</u>				
Signature		Date <u>12/26/06</u>		
B 2		WELL INFORMATION		
1 2		APPROX. PUMPING RATE (GAL. PER MIN.) <u>5</u>		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) <u>14</u>		<u>750</u> 20		
USE FOR WATER (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION				
<input type="checkbox"/> F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)				
22 <input type="checkbox"/> I INDUSTRIAL, COMMERCIAL, DEWATERING				
<input type="checkbox"/> P PUBLIC WATER SUPPLY WELL				
<input type="checkbox"/> T TEST, OBSERVATION, MONITORING				
<input type="checkbox"/> G GEO-THERMAL				
APPROXIMATE DEPTH OF WELL <u>300</u> FEET				
APPROXIMATE DIAMETER OF WELL <u>6</u> INCH				
METHOD OF DRILLING (circle one)				
<input checked="" type="checkbox"/> BORED (or Augered) <input type="checkbox"/> JETTED <input type="checkbox"/> Jetted & DRIVEN				
30 <input type="checkbox"/> AIR-ROTARY <input checked="" type="checkbox"/> AIR-PERCussion <input type="checkbox"/> ROTARY (Hydraulic Rotary)				
37 <input type="checkbox"/> CABLE <input type="checkbox"/> REVerse-ROTary <input type="checkbox"/> Drive-POINT				
other _____				
REPLACEMENT OR DEEPEENED WELLS (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> N THIS WELL WILL NOT REPLACE AN EXISTING WELL				
<input type="checkbox"/> Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED				
39 <input type="checkbox"/> S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS				
<input type="checkbox"/> D THIS WELL WILL DEEPEEN AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEENED (IF AVAILABLE) 41 _____ 52				
Not to be filled in by driller (MDE OR COUNTY USE ONLY)				
APPROP. PERMIT NUMBER <u>H02007G002</u>				
PERMIT No. <u>HO-95-0632</u>				
SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED <u>Well to be Located Per Plat P-06-03 Signed on 8/21/06</u>				

LOCATION OF WELL

8 COUNTY Howard 21

23 SUBDIVISION Belle Haven Est 42

SECTION 44 46 LOT 24 50

52 NEAREST TOWN Woodbine 71

MILES FROM TOWN (enter 0 if in town) 2 M 1 73 76 77 78

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

Sweetbay Street  
Union Chapel Road

11 NEAR WHAT ROAD 30

34 30 37 200 38 FT 39

TAX MAP: 14 BLK: 20 PARCEL 66

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) A516057

COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 2/13/07 Bruin Baker 2/13/08

43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 531 000 55 EAST GRID 786 000 63

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 7806

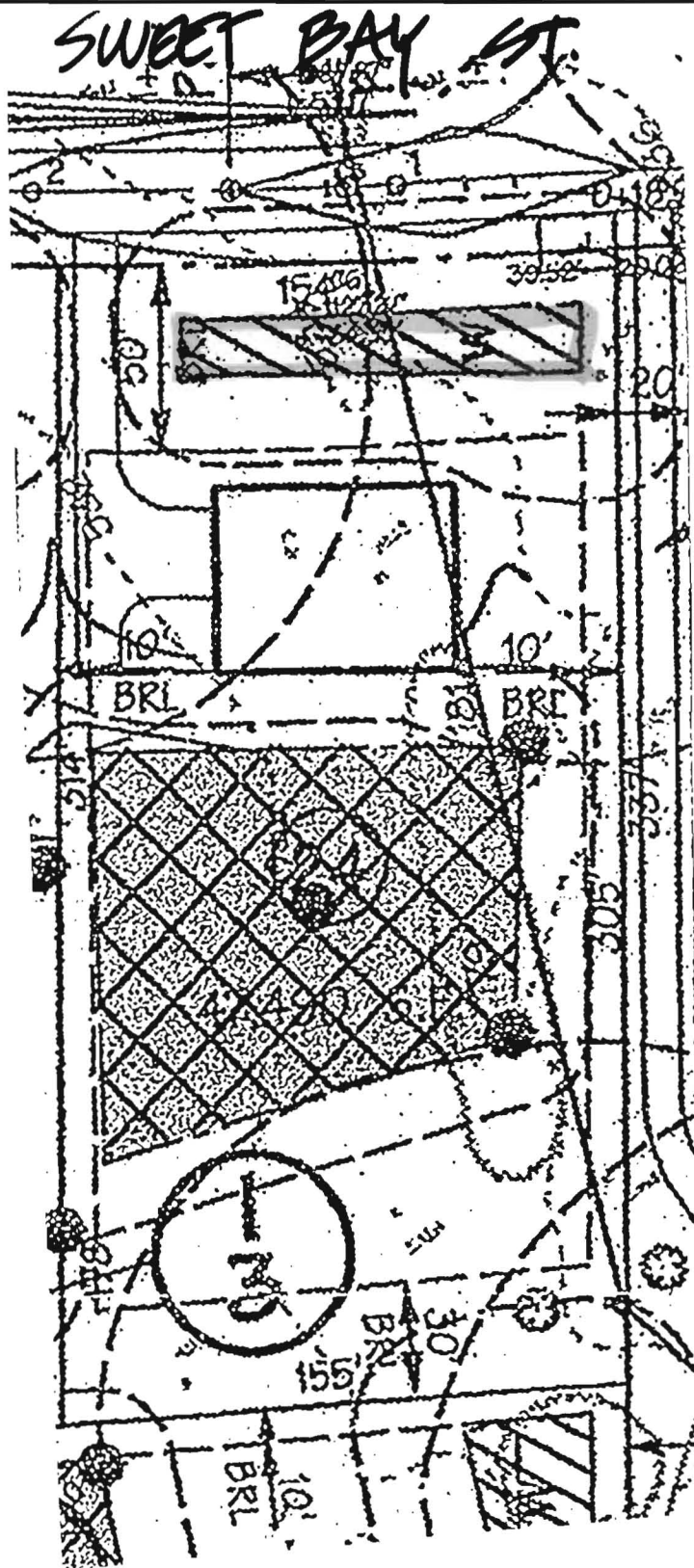
N 5301

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

Union Chapel Rd

19

PX



2/21/07  
Well site  
staked by  
DMW. Copy  
of P-06-03  
(RB)

BELLE HAVEN ESTATES

LOT 24

**DMW**

Daft-McCune-Walker, Inc.

200 East Pennsylvania Avenue  
Towson, Maryland 21286  
(410) 296-3333  
Fax 296-4705

A Team of Land Planners,  
Landscape Architects,  
Engineers, Surveyors &  
Environmental Professionals

Job No. 01067 Scale: 1"=50' Date: 12/26/06 Drawn By: MDT

N:\01067\01067FLot Wells\FINAL\Lot24.dgn

Tue Feb 13 10:42:04 2007