



HOWARD COUNTY HEALTH DEPARTMENT

65526

DATE 8/14/19

WS

Received From

Chesapeake Geesys PHONE # 410-899-5000

For

Wellformit / #35 the O/O Station ct

CASH

CHECK

NO
391080

One hundred seventy Dollars

\$ 160.00

Received By

H Kemp



HOWARD COUNTY HEALTH DEPARTMENT

65526

DATE 8/14/19

WS

Received From

Chesapeake Geosystems PHONE # 410-895-5020

For

Well permit #35 7/10 OK Station ct.

CASH

CHECK

NO

39680

One hundred seventy Dollars

\$ 160.00

Received By

King

C1 53221

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS 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)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED MM DD YY

DATE WELL COMPLETED

Approved 9/20/19 (57) Depth of Well 375' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 18-0094

OWNER Gaber last name WELL SITE ADDRESS 835 Old State Rd first name TOWN Woodbine SUBDIVISION Morgan Station SECTION LOT 19

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 15 NO. OF POUNDS 700 GALLONS OF WATER 360 DEPTH OF GROUT SEAL (to nearest foot) from 0' ft. to 375' ft.

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9 PUMPING RATE (gal. per min.) 11 15 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

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: moist stiff Brown fine sandy micaceous silt (0' to 15'), Weathered Rock (15' to 43'), Rock (43' to 375'), 3x Geothermal.

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

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

SCREEN RECORD screen type or open hole insert appropriate code below ST BR HO PL OT

DEPTH (nearest ft.) SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH)

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

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 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 VD 580 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D

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

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.349291 LONGITUDE 77.044340 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.

B 1
64143

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-18-0094
fill in this form completely

565526 please type

OWNER INFORMATION
Date Received (ARA) 06/14/19
8 MM DD YY 13
Cohen Last Name
Jeffrey Owner First Name
835 The Old Station Ct Street or RFD
Woodbine MD 21797
57 Town 70 State 72 Zip 76

LOCATION OF WELL
Howard COUNTY
Morgan Station SUBDIVISION
SECTION 44 46 LOT 48 50
Woodbine NEAREST TOWN

DRILLER INFORMATION
Edward Gross Driller's Name
MWD 580 License No.
Chesapeake Geosystems Firm Name
6720 Fort Smallwood Rd Balt MD Address
Signature Date 6/5/19

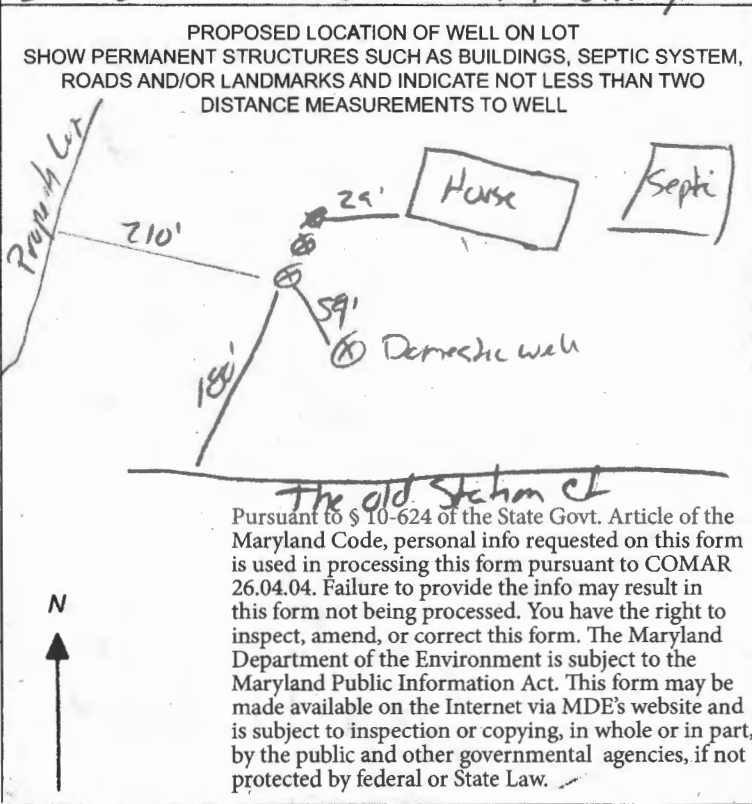
SOURCES OF DRILLING WATER
Public
E35 The Old Station Ct STREET ADDRESS
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD 180 ENTER FT OR MI
TAX MAP: 3 BLK: 21 PARCEL 44

WELL INFORMATION
APPROX. PUMPING RATE (GAL. PER MIN.)
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard COUNTY NAME
13 COUNTY NO.
STATE SIGNATURE
DATE ISSUED 6/21/19
CO SIGNATURE EXP. DATE 6/21/19
DNI - DON DOG - DNI DOY - DON N/A

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
O OPEN LOOP GEOTHERMAL
C CLOSED LOOP GEOTHERMAL 3x Geothermal

APPROXIMATE DEPTH OF WELL 375 FEET
APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH



METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTARY ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTARY Drive-POINT

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)

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROP. PERMIT NUMBER
PERMIT No. HO-18-0094

SPECIAL CONDITIONS
NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED
grout all bores bottom to top

WELL SCHEMATIC FORM

GROUND SURFACE

PERMANENT OUTER CASING (if area contaminated)

MATERIAL _____

DIAMETER _____

LENGTH _____

DEPTH INTO CONFINING UNIT _____

PERMANENT OUTER CASING

TUBE CASING (if not regular, single loop)

ATTACH HORIZONTAL SCHEMATIC _____

NUMBER OF TUBES PER BOREHOLE _____

DIAMETER OF TUBES _____

MATERIAL _____

SHAPE AND LENGTH _____

TUBE CONNECTION METHOD _____

TUBE CONNECTION MATERIAL _____

CONFINING UNIT

LOOP PIPE CASING (regular, single loop)

MATERIAL HDPE? YES NO

DIAMETER _____

LENGTH 375' (750' Total)

GROUT

MATERIAL Bentonite

PERMEABILITY 1×10^{-7}

WATER / GROUT RATIO 24 gallons / 50 lbs

PERCENT SOLIDS 20%

TREMIE GROUTED FROM BOTTOM OF BOREHOLE? YES NO

USING A POSITIVE DISPLACEMENT PUMP? YES NO

DEPTH TO THE BOTTOM OF HOLE 375'

DIAMETER OF BOREHOLE 6'

WELL ADDRESS
835 The old Station Ct
Woodbine, MD 21797

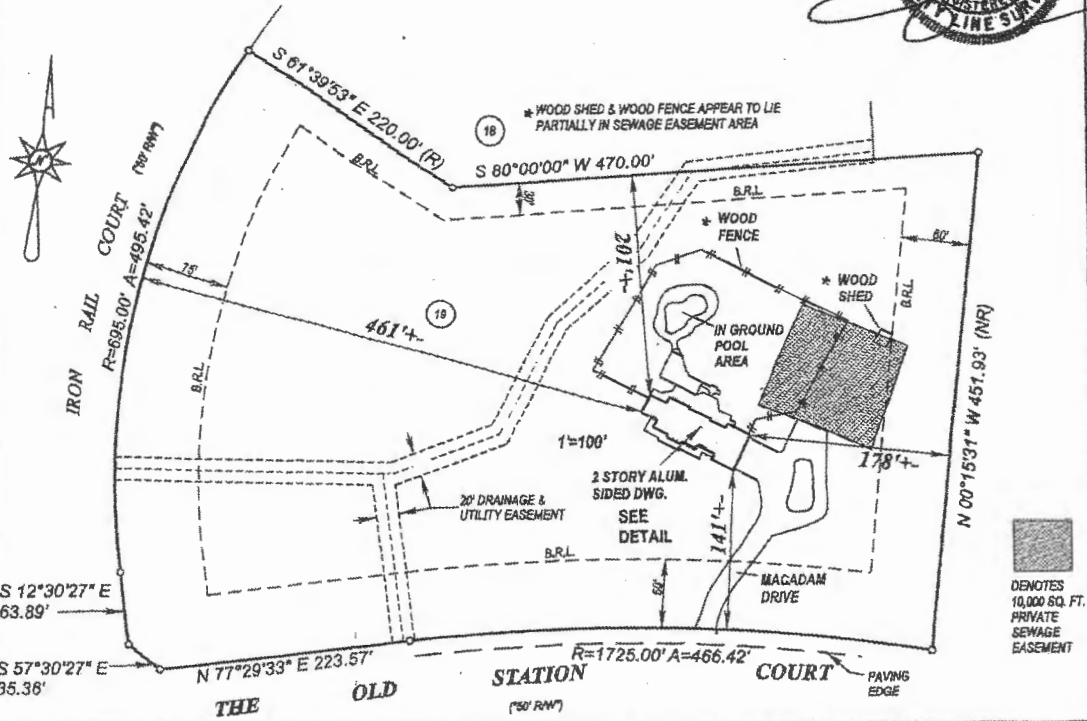
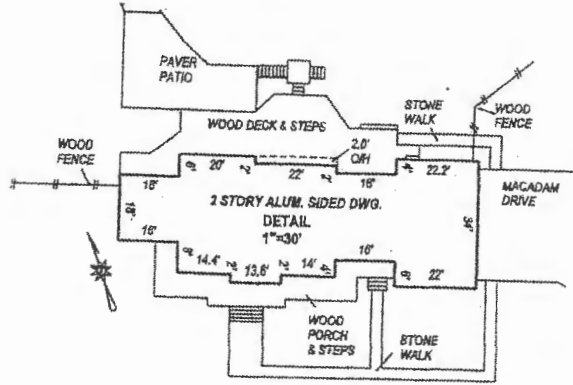
LOT NUMBER: 19

SQUARE NUMBER: 21

WELL OWNER:
Jeffrey Cohen

OWNER ADDRESS:
835 The old Station
Woodbine MD
21797

M1900043



1. THE PLAT IS OF BENEFIT TO A CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR A TITLE COMPANY OR IT'S AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER FINANCING OR RE-FINANCING.
2. THE PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.
3. THE PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR RE-FINANCING.

4. I HAVE EXAMINED FLOOD INSURANCE RATE MAP PANEL 2402TC0035D FOR THE SUBJECT PROPERTY AND IT APPEARS TO LIE WITHIN ZONE X PER SAID MAP.
5. DIMENSIONS SHOWN TO APPARENT LOT LINES ARE ± 2'
6. DATE OF FIELD WORK: 09-19-2018

LOCATION DRAWING

#835 THE OLD STATION COURT

J.S. DALLAS, INC.
SURVEYING & ENGINEERING
P.O. BOX 26
BALDWIN, MD.

DATE: 09-20-2018
SCALE: AS SHOWN
JOB NUMBER: COM-01
DRAWN BY: R.N.G.
CHECKED BY: JSD

LOT 19 (PLAT NO. 7823)
MORGAN STATION
SHEET 3 OF 6
LOTS 5-42
(A RESUBDIVISION OF LOT 3
THE SOUTHERN STATION)
4TH ELECTION DISTRICT
HOWARD COUNTY, MD.



Load Short Form Entire House

M19000443

Job:
Date: May 15, 2014
By:

Project Information

For: Gahan

Design Information

| | Htg | Clg | Infiltration | Simplified Average |
|-----------------------------|-----|-----|----------------------|--------------------|
| Outside db (°F) | 12 | 94 | Method | |
| Inside db (°F) | 72 | 70 | Construction quality | |
| Design TD (°F) | 60 | 24 | Fireplaces | 1 (Semi-tight) |
| Daily range | - | M | | |
| Inside humidity (%) | 30 | 50 | | |
| Moisture difference (gr/lb) | 27 | 47 | | |

HEATING EQUIPMENT

| | |
|------------------|------------|
| Make | n/a |
| Trade | n/a |
| Model | n/a |
| AHRI ref. | n/a |
| Efficiency | n/a |
| Heating input | |
| Heating output | 0 Btuh |
| Temperature rise | 0 °F |
| Actual air flow | 0 cfm |
| Air flow factor | 0 cfm/Btuh |
| Static pressure | 0 in H2O |
| Space thermostat | n/a |

COOLING EQUIPMENT

| | |
|--------------------------|------------|
| Make | n/a |
| Trade | n/a |
| Cond | n/a |
| Coil | n/a |
| AHRI ref. | n/a |
| Efficiency | n/a |
| Sensible cooling | 0 Btuh |
| Latent cooling | 0 Btuh |
| Total cooling | 0 Btuh |
| Actual air flow | 0 cfm |
| Air flow factor | 0 cfm/Btuh |
| Static pressure | 0 in H2O |
| Load sensible heat ratio | 0 |

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|---------------------------|-------------|-----------------|-----------------|---------------|---------------|
| 2nd fl (Rest of House) | 950 3188 | 19338 45531 | 14857 23080 | 772 1407 | 772 1407 |
| Entire House | 4138 | 64869 | 37686 | 2179 | 2179 |
| Other equip loads | | 0 | 0 | | |
| Equip. @ 1.00 RSM | | | 37686 | | |
| Latent cooling | | | 7519 | | |
| TOTALS | 4138 | 64869 | 45205 | 2179 | 2179 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Project Information

For: Gahan

Design Information

| | Htg | Clg | Infiltration | Simplified |
|-----------------------------|-----|-----|----------------------|----------------|
| Outside db (°F) | 12 | 94 | Method | Average |
| Inside db (°F) | 72 | 70 | Construction quality | |
| Design TD (°F) | 60 | 24 | Fireplaces | 1 (Semi-tight) |
| Daily range | - | M | | |
| Inside humidity (%) | 30 | 50 | | |
| Moisture difference (gr/lb) | 27 | 47 | | |

HEATING EQUIPMENT

Make
Trade
Model
AHRI ref

Efficiency 80 AFUE
Heating input 0 Btuh
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 1407 cfm
Air flow factor 0.031 cfm/Btuh
Static pressure 0 in H2O
Space thermostat

COOLING EQUIPMENT

Make
Trade
Cond
Coil
AHRI ref

Efficiency 0 SEER
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 1407 cfm
Air flow factor 0.061 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.82

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|-------------------|-------------|-----------------|-----------------|---------------|---------------|
| L Base | 340 | 5054 | 2332 | 156 | 142 |
| Main Base | 950 | 9371 | 2828 | 290 | 172 |
| sun room | 340 | 7297 | 4284 | 225 | 261 |
| 1st fl | 950 | 13623 | 8138 | 421 | 496 |
| laundry/entry | 304 | 5237 | 2616 | 162 | 159 |
| Room12 | 304 | 4948 | 2882 | 153 | 176 |
| (Rest of House) | 3188 | 45531 | 23080 | 1407 | 1407 |
| Other equip loads | | 0 | 0 | | |
| Equip. @ 1.00 RSM | | | 23080 | | |
| Latent cooling | | | 5104 | | |
| TOTALS | 3188 | 45531 | 28184 | 1407 | 1407 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Project Information

For: Gahan

Design Information

| | Htg | Clg | Method | Infiltration |
|-----------------------------|-----|-----|----------------------|--------------------|
| Outside db (°F) | 12 | 94 | Construction quality | Simplified Average |
| Inside db (°F) | 72 | 70 | Fireplaces | 1 (Semi-tight) |
| Design TD (°F) | 60 | 24 | | |
| Daily range | - | M | | |
| Inside humidity (%) | 30 | 50 | | |
| Moisture difference (gr/lb) | 27 | 47 | | |

HEATING EQUIPMENT

Make
Trade
Model
AHRI ref
Efficiency
Heating input
Heating output
Temperature rise
Actual air flow
Air flow factor
Static pressure
Space thermostat

80 AFUE
0 Btuh
0 Btuh
0 °F
772 cfm
0.040 cfm/Btuh
0 in H2O

COOLING EQUIPMENT

Make
Trade
Cond
Coil
AHRI ref
Efficiency
Sensible cooling
Latent cooling
Total cooling
Actual air flow
Air flow factor
Static pressure
Load sensible heat ratio

0 SEER
0 Btuh
0 Btuh
0 Btuh
772 cfm
0.052 cfm/Btuh
0 in H2O
0.86

| ROOM NAME | Area (ft²) | Htg load (Btuh) | Clg load (Btuh) | Htg AVF (cfm) | Clg AVF (cfm) |
|-------------------|------------|-----------------|-----------------|---------------|---------------|
| Room10 | 950 | 19338 | 14857 | 772 | 772 |
| 2nd fl | 950 | 19338 | 14857 | 772 | 772 |
| Other equip loads | | 0 | 0 | | |
| Equip. @ 1.00 RSM | | | 14857 | | |
| Latent cooling | | | 2415 | | |
| TOTALS | 950 | 19338 | 17272 | 772 | 772 |

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.