

CT 26446

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)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 22 323 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-15-0082

OWNER Esaias Wayne WELL SITE ADDRESS 6971 Mink Hollow Road TOWN Highland SUBDIVISION 0000 SECTION LOT 14

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Red mica silt, Brown schist, Tan schist, Gray schist.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (M) (B) (C) NO. OF BAGS 14 NO. OF POUNDS 700

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 1 1/4" Total depth of main casing (nearest foot) 323'

OTHER CASING (if used)

SCREEN RECORD

DEPTH (nearest ft.)

Table with columns: 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 55-56, 57-58, 59-60, 61-62, 63-64, 65-66, 67-68, 69-70, 71-72, 73-74, 75-76, 77-78, 79-80

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 ft. WHEN PUMPING 23 25 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary Q other J jet S submersible

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) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LATITUDE 39.178189 LONGITUDE -76.985189 (DEFAULT COORD. WGS 84) NOTES:

DRILLERS LIC. NO. MWD 567 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

B 1 <u>23660</u> <small>1 2 3 6</small>	SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <small>552412</small> please type	STATE PERMIT NUMBER <u>HO-15-0082</u> <small>70 fill in this form completely 79</small>
Date Received (APA) <u>052715</u> <small>8 MM DD YY 13</small> OWNER INFORMATION <u>Esaias Wayne & Elaine</u> <small>15 Last Name Owner First Name 34</small> <u>6971 Mink Hollow Road</u> <small>36 Street or RFD 55</small> <u>Highland, Maryland 20777</u> <small>57 Town 70 State 72 Zip 76</small>	B 3 LOCATION OF WELL <u>Howard County</u> <small>8 COUNTY 21</small> <u>0000</u> <small>23 SUBDIVISION 42</small> SECTION <u>14</u> <small>44 46 48 50</small> <u>Highland</u> <small>52 NEAREST TOWN 71</small>	B 4 SOURCES OF DRILLING WATER 1. <u>municipal</u> 2. 3. <u>6971 Mink Hollow Rd</u> <small>11 STREET ADDRESS 30</small> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) <div style="text-align: center;"> <input checked="" type="checkbox"/> NORTH <input type="checkbox"/> WEST <input type="checkbox"/> EAST <input type="checkbox"/> SOUTH </div> 34 <u>65</u> 37 DISTANCE FROM ROAD ENTER FT OR MI <u>FT</u> 38 39 TAX MAP: <u>0040</u> BLK: <u>0002</u> PARCEL <u>0203</u>
B 2 WELL INFORMATION APPROX. PUMPING RATE <u>N/A</u> <small>1 2 (GAL. PER MIN.) 8 12</small> AVERAGE DAILY QUANTITY NEEDED <u>N/A</u> <small>14 20 (GAL. PER DAY)</small>	USE FOR WATER (CIRCLE APPROPRIATE BOX) <input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> OPEN LOOP GEOTHERMAL <input checked="" type="checkbox"/> CLOSED LOOP GEOTHERMAL <u>2 geo bores</u>	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <u>Howard</u> <u>13</u> <small>COUNTY NAME COUNTY NO.</small> STATE SIGNATURE _____ INSERT S → _____ DATE ISSUED <u>06/11/2015</u> <u>KAT</u> <u>6/11/16</u> <small>43 MM DD YY 48 CO SIGNATURE EXP. DATE</small>
APPROXIMATE DEPTH OF WELL <u>400</u> FEET <small>24 28</small> APPROXIMATE DIAMETER OF WELL <u>6"</u> NEAREST INCH	METHOD OF DRILLING (circle one) BORED (or Augered) <input type="checkbox"/> JETTED <input type="checkbox"/> Jetted & DRIVEN <input type="checkbox"/> 30 AIR-ROTary <input type="checkbox"/> AIR-PERcussion <input type="checkbox"/> ROTARY (Hydraulic Rotary) <input type="checkbox"/> 37 CABLE <input type="checkbox"/> REVerse-ROTary <input type="checkbox"/> DRive-POINT <input type="checkbox"/> other <input checked="" type="checkbox"/> <u>mud Rotary</u>	PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input type="checkbox"/> 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"/> THIS WELL WILL DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52	Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROX. PERMIT NUMBER _____ <u>G</u> _____ PERMIT No. <u>HO-15-0082</u> <small>70 71 72 73 74 75 76 77 78 79</small>	
SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED- <u>Wells must be grouted from bottom to top.</u>		



HOWARD COUNTY HEALTH DEPARTMENT

56442

DATE
5/27/15

WS

Received
From

Chesapeake Geosystems

PHONE #

For

Well Permit/0971 Park
Hollow Rd.

CASH

CHECK

NO.

30041

One hundred sixty

Dollars

\$

160.00

Received By

A King



HOWARD COUNTY HEALTH DEPARTMENT

56442

DATE 5/27/15

WS

Received From

PHONE #

For

CASH

CHECK

NO.

310041

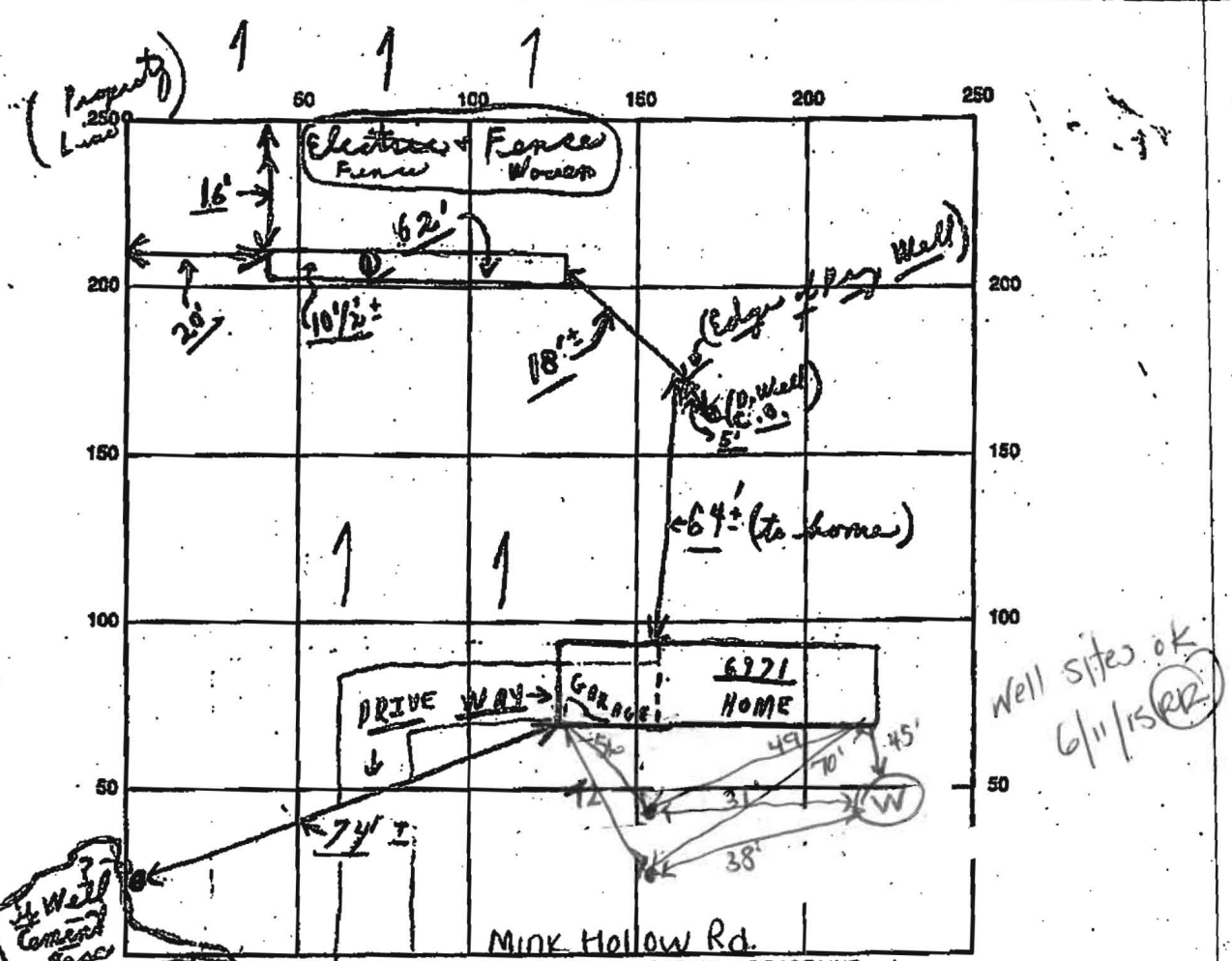
Dollars

\$

1100 | 00

Received By

A King



SEPTIC TANK LEVEL Existing CLEANOUTS Existing

DISTRIBUTION BOX LEVEL (Coming off existing dry well)

DRAIN FIELD/TITLE DEPTH 10 1/2 FT. TRENCH WIDTH 2 FT. INLET DEPTH 2 FT.

EFFECTIVE GRAVEL DEPTH 8 1/2 FT. TOTAL LENGTH 62 FT.

NUMBER OF TRENCHES 1 ONE SIDEWALL/AREA 527 SQ. FT. {Plus old dry well}

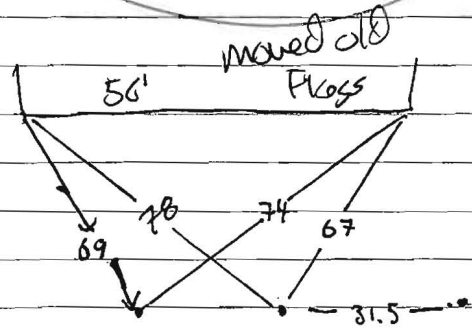
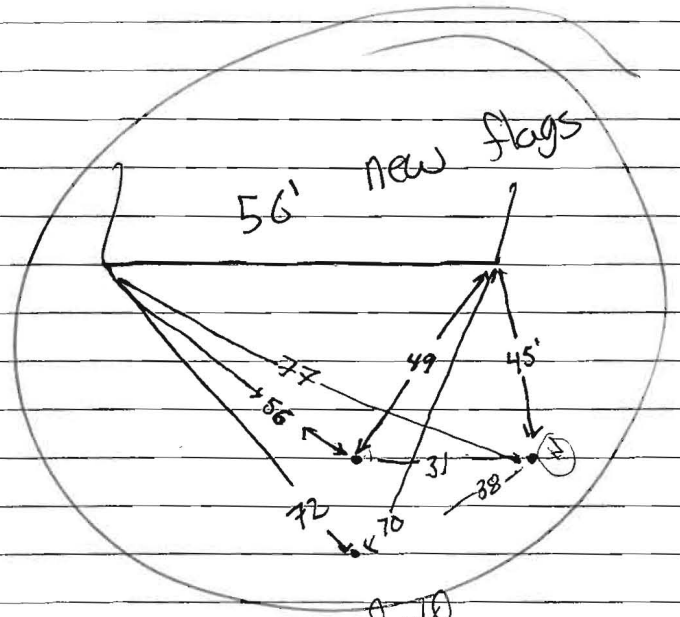
DRYWALL INSIDE DIAMETER ~ FT. EFFECTIVE DEPTH BELOW INLET ~ FT.

ABSORBENT AREA 527 SQ. FT. {Plus old dry well}

REMARKS: 1/8 Final - one stop - ok to finish trench; etc and covers - material on site; etc

DATE SYSTEM APPROVED 6/8/94 INSPECTOR Charles Bryan Straker

~~77+45~~ 6971







GROUT-WELL® and GROUT-WELL® DF



Product Information

Description

GROUT-WELL® and **GROUT-WELL® DF** are one step bentonite grouting materials designed to achieve low permeability seals in water wells, monitor wells, geotechnical borings, and heat pump holes. They achieve a range of solids contents, 17% to 20% solids by weight. **GROUT-WELL® DF**'s granular nature reduces nuisance dust during mixing operations.

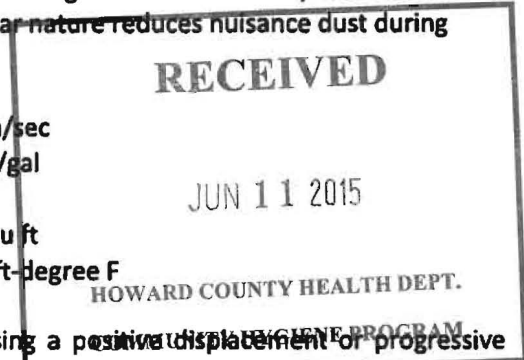
Characteristics

- Permeability: 1 x 10⁻⁸ cm/sec
- Slurry Density: 9.4 – 9.5 lbs/gal
- pH Range: 8.0 – 10.0
- Dry Bulk Density: 55 - 60 lbs/cu ft
- Thermal Conductivity: .42 BTU/hr-ft-degree F

Application

Placement of the **GROUT-WELL®** products is best done using a positive displacement or progressive cavity pump. When pumping must be done with gear or diaphragm pumps, you may have to use additional make-up water to insure pumpability due to the limited pressure generated by these types of pumps. When adding the grouts to make-up water, the slurry will resemble "pancake batter", a creamy consistency with lumps. This is the ideal time to pump the fluid since all the bentonite has not fully hydrated. Once in place, the particles continue to swell, sealing off cracks and crevices while gelling to form its caulk-like consistency.

Provided local regulations allow, it is always recommended that the tremie line be withdrawn as the grout is being pumped. This permits the grout to continue its "set" undisturbed, reduces pump pressure, and minimizes unnecessary migration into surrounding formations.



TYPICAL E.P. TOXICITY ANALYSIS		
	Standard (ppm)	Set Grout (ppm)
Arsenic	5.0	<0.10
Barium	100.0	0.50
Cadmium	1.0	<0.05
Chromium	5.0	<0.10
Lead	5.0	<0.10
Mercury	0.2	<0.02
Selenium	1.0	<0.05
Silver	5.0	<0.10

	17.7% Solids	20.0% Solids
Grout-Well® DF	50 lbs	50 lbs
Water	28 gal	24 gal
Usable Slurry	31 gal	27 gal

TYPICAL CHEMICAL ANALYSIS %			
SiO ₂	63.54	MgO	1.67
Al ₂ O ₃	19.28	CaO ₃	0.38
Fe ₂ O ₃	3.48	TiO ₂	0.22
K ₂ O	0.10	Na ₂ O	2.34
MnO	0.02	H ₂ O	4.50
L.O.I. *	4.37		

*Loss on Ignition

Packaging

GROUT-WELL® and **GROUT-WELL® DF** are packaged in 50 pound bags.

4330-4335/201302

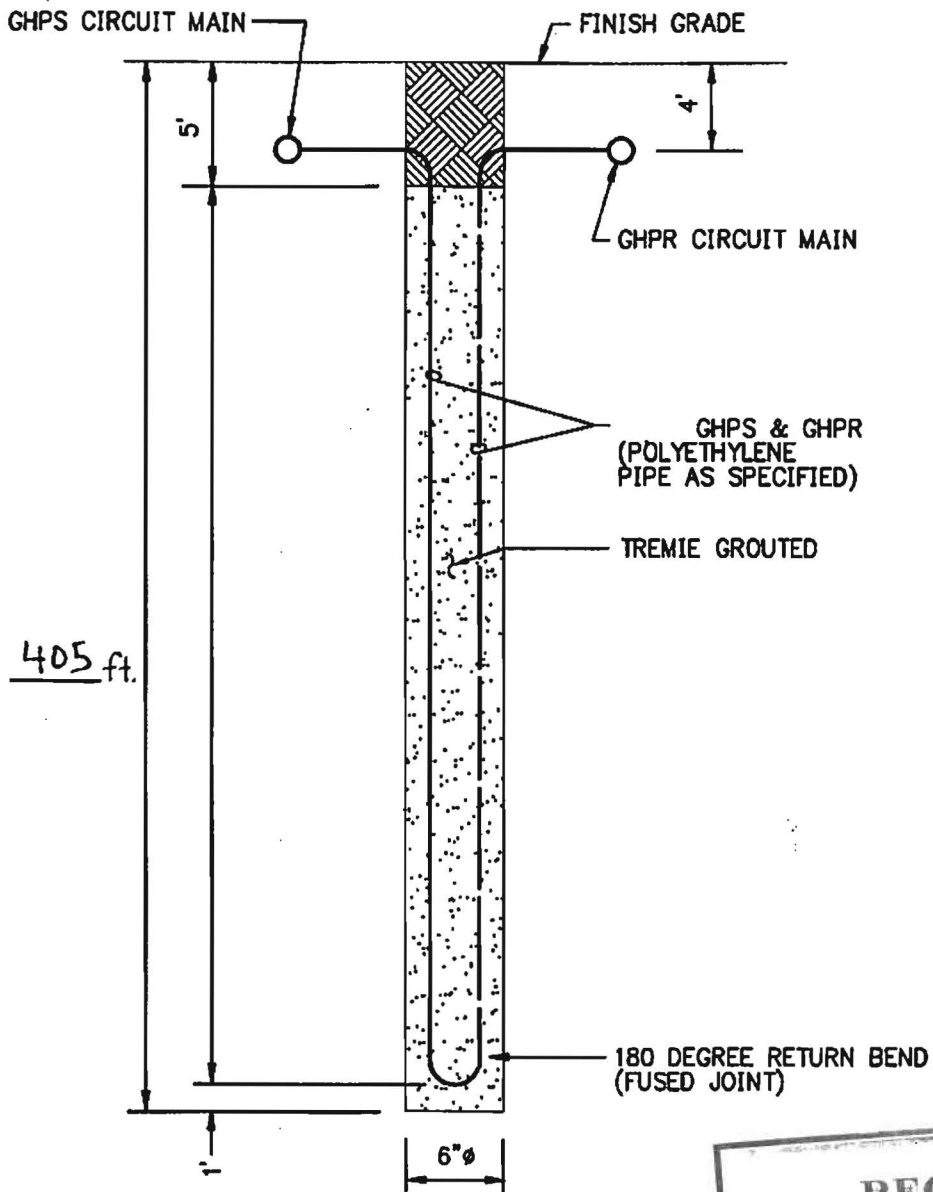
WYO-BEN, INC., Billings, Montana

800.548.7055

406.652.6351

www.wyoben.com

The information and data made herein are believed to be accurate. As Wyo-Ben, Inc. has no control over use or application of this product, it is sold without warranty or guarantee of results.



RECEIVED

JUN 11 2015

HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM

DETAIL $\frac{2}{M0.2}$

TYPICAL VERTICAL BOREHOLE

NOT TO SCALE

