

C1 3023 SEQUENCE NO. (OEP USE ONLY)

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

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER A26162

DATE RECEIVED DATE WELL COMPLETED 011585

DEPTH OF WELL 300 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-81-0815

OWNER PAKENHAM TOM STREET OR RFD TEN OAKS RD TOWN DAYTON SUBDIVISION TEN OAKS FARM SECTION LOT 12

WELL LOG table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Includes handwritten entries: Overburden (0-5), Mica DIRT (5-60), GRAY ROCK (60-300).

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL: CEMENT CM, BENTONITE CLAY BC, NO. OF BAGS 11, NO. OF POUNDS 1100, GALLONS OF WATER 66, DEPTH OF GROUT SEAL 0-49 ft.

CASING RECORD: MAIN CASING TYPE ST, Nominal diameter 6, Total depth 60, OTHER CASING (if used) diameter inch, depth (feet) from to.

SCREEN RECORD: screen type or open hole insert appropriate code below, ST (STEEL), BR (BRASS BRONZE), PL (PLASTIC), HO (OPEN HOLE), OT (OTHER).

DEPTH (nearest ft.) table with handwritten entries: 60, 300. Includes SLOT SIZE and DIAMETER OF SCREEN.

PUMPING TEST: C3, HOURS PUMPED 6, PUMPING RATE 333, METHOD USED TO MEASURE PUMPING RATE SUBMERSIBLE, WATER LEVEL 30' before, 238.9' when pumping, TYPE OF PUMP USED S (submersible).

PUMP INSTALLED: DRILLER WILL INSTALL PUMP YES NO, TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: 29, CAPACITY: GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT (+ above, - below) LAND SURFACE 1 (nearest foot).

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

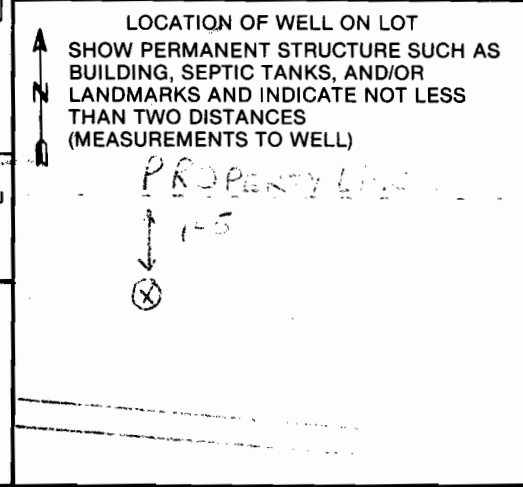
DRILLERS IDENT. NO. 120

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER): T (TELESCOPE CASING), (E.R.O.S.), WQ (LOG INDICATOR), OTHER DATA.



B 1 **7244** SEQUENCE NO. (OEP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

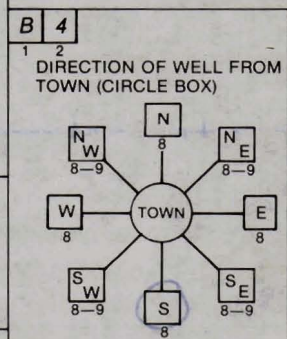
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

OEP PERMIT NUMBER
H0-81-0815
 fill in this form completely

Date Received **12/28/84 2:30 PM**
 OWNER INFORMATION
PAKENHAM TOM
 15 Last Name Owner First Name 34
11411 HENNESSEY DR
 36 Street or RFD 55
BELTSVILLE MD 20705
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
HOWARD
 8 COUNTY 21
TEN OAKS FARM
 23 SUBDIVISION 42
 SECTION **12** LOT **12**
 44 46 48 50
DAYTON
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) **1 MI**
 73 76 77 78

DRILLER INFORMATION
SANDY B. COCHRAN
 Driller's Name 77 License No. **80**
EDGAR HARR SONS CORP.
 Firm Name
12047 FALL RD COCKEYSVILLE 21030
 Address
Sandy B Cochran 11-12-84
 Signature Date



HOWINGSTAR DRIVE
 11 NEAR WHAT ROAD 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST **32** EAST
 SOUTH
 DISTANCE FROM ROAD **180**
 34 37
 ENTER FT or MI **FT**
 38 39

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) **5**
 1 2 8 12
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **750**
 14 20

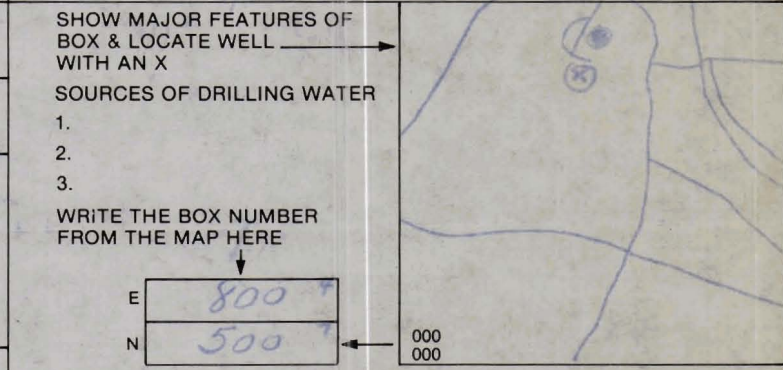
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOWARD COUNTY NAME COUNTY NO. **A26162**
 OEP SIGNATURE STATE HEALTH INSERT S **41**
 DATE ISSUED **12/28/84** CO SIGNATURE **Frank [unclear]** EXP. DATE **6/12/85**
 43 48
 NORTH GRID **507000** EAST GRID **0804000**
 50 55 57 63

APPROXIMATE DEPTH OF WELL **200** FEET
 24 28

APPROXIMATE DIAMETER OF WELL **6** INCH
 NEAREST 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)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
 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 (OEP USE ONLY)
 APPROP. PERMIT NUMBER _____ GAP _____
 54 63
 FORCE **FS** WRITE INITIALS IN BOX PERMIT NO. **H0-81-0815**
 67 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

937-7390

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-0815
 Location of property (road) TEN OAKS RD
 Subdivision TEN OAKS FARM Lot 12 Block Plat Sec.
 Well Driller EAST HARR Owner PAKENHAM, Tony

Depth of well 300'
 Distance of measuring point (M.P.) above ground 12"
 Static water level (S.W.L.) below M.P. 30'

I. High rate pumping -- reservoir drawdown

Time pump started 0815 Pumping rate 15.0
 Total time 45 to reach pumping water level 238' 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 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
0830	160'4"	4		15.0
0845	240'	4		15.0
0900	238'	5		12.0
0915	238'	18		3.33
0930	238'2"	18		3.33
0945	238'2"	18		3.33
1000	238'6"	18		3.33
1015	238'6"	18		3.33
1030	238'6"	18		3.33
1045	238'6"	18		3.33
1100	238'6"	18		3.33
1115	238'6"	18		3.33
1130	238'6"	18		3.33
1145	238'6"	18		3.33
1200	238'6"	18		3.33
1215	238'6"	18		3.33
1230	238'7"	18		3.33
1245	238'7"	18		3.33
1300	238'7"	18		3.33
1315	238'7"	18		3.33
1330	238'7"	18		3.33
1345	238'9"	18		3.33
1400	238'9"	18		3.33
1415	238'9"	18		3.33
1430	238'9"	18		3.33
1445	238'9"	18		3.33

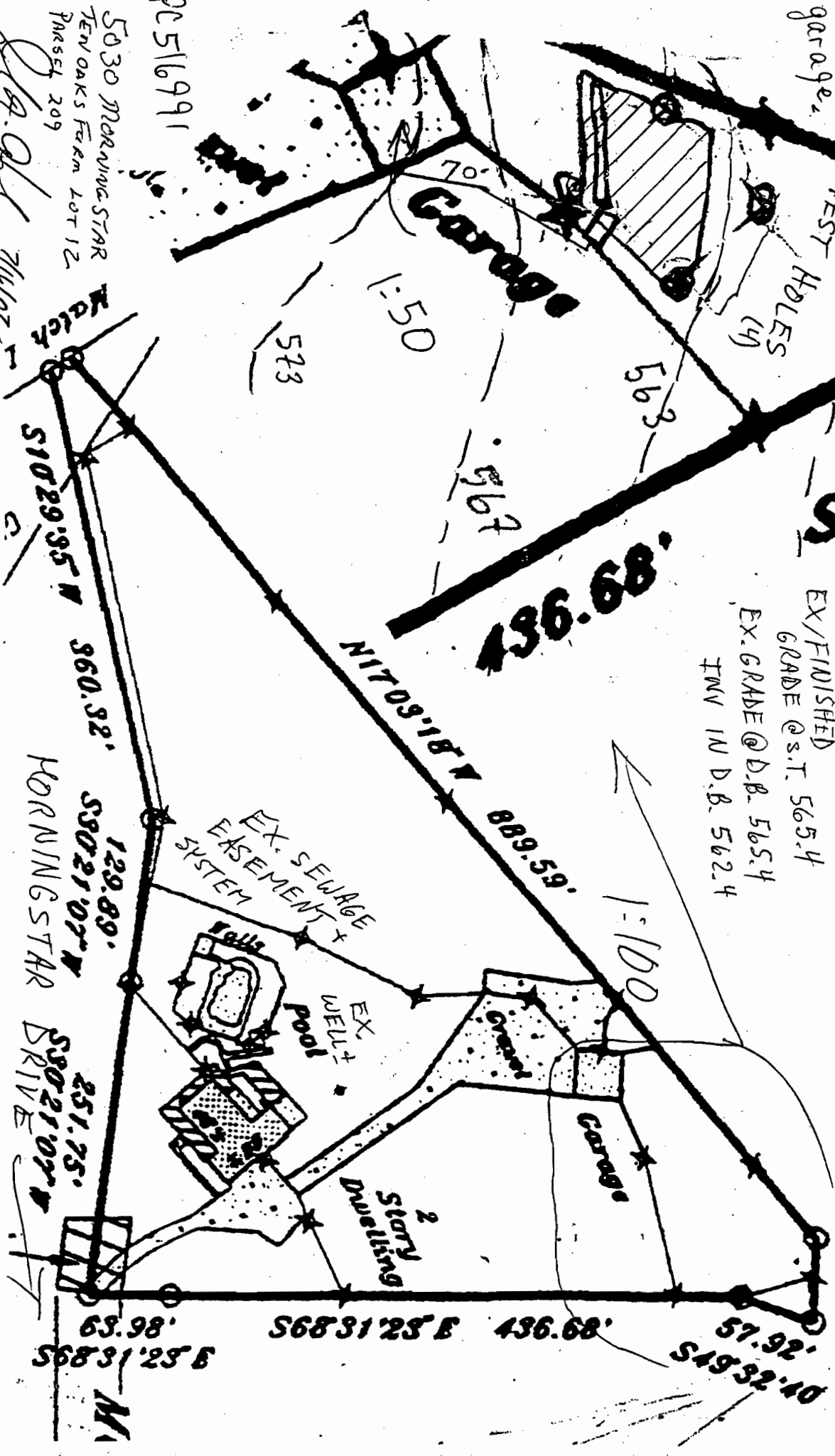
The purpose of this plan is to establish a sewage disposal area in support of adding plumbing to the ex. garage.

This area designates a private sewage DISPOSAL AREA as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This SEWAGE DISPOSAL AREA shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage DISPOSAL AREA.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF HOWARD COUNTY

Howard County Health Officer M2 Date *11/12/02*

GARAGE FLR 575.5
 FIN. @ WALL 571.5
 FIN IN S.T. 562.9
 FIN OUT 562.6
 EX/FINISHED GRADE @ S.T. 565.4
 EX. GRADE @ D.B. 565.4
 FIN IN D.B. 562.4



5030 MORNING STAR
 TEN OAKS FARM LOT 12
 PARCEL 209
 P.C. 516991

711021
 573
 563
 57.92'
 549.0'
 436.68'
 889.59'
 129.89'
 360.32'
 380.21'07" W
 251.75'
 380.21'07" W
 68.98'
 568.31'25" E
 436.68'
 57.92'
 549.0'

W E L L P U M P I N S P E C T I O N

Owner's Name: Tom Pakenham
Address: 11411 Hennessey Drive
Beltsville, Maryland 20705

Location of Property: Morningstar Drive

Well Tag Number;
HO-81-0815

Plumber or Certified Pump Installer:

G. Edgar Harr Sons Corp.

Phone Number:

License Number: 120

Receipt Number:

34660

Date:

12/12/84

Comments: 12/13/84 OK to proceed with installation F. Sherrin

Inspection:

5-20-85
PIZZESS 3'10" below GRADE
WELL LINE 4' below GRADE
WELL TAG TAGENT SAKUL

Date Well Pump Inspection was approved:

Inspector:

AND RETURNED 3-1-85

2:30 P.M. - December 28, 1984

FILE WELL GROUT DATE REPORTED December 28, 1984
PROPERTY OWNER Thomas Pakenhan PHONE NO. _____
~~Merington Drive~~
P. O. ADDRESS (Ten Oaks Farm - Lot 12)
DIRECTIONS TO PROPERTY Well Number HO-81-0815

INFORMANT _____

CONDITION FOUND: _____

ACTION TAKEN: 12/28/84 well grouted *JP*

60' casing

40' - open

11 - bags cement

FINAL DISPOSITION: _____

SUBDIVISION: TEN OAKS FARM

LOT NUMBER: 12

DRY WELL OR DRY WELL AND TRENCH

	Septic Tank	_____ sq. ft./bedroom
		<u>Minimum Total square Feet</u>
3 bedroom	1000 gallon	_____
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet _____ feet below original grade.

Bottom maximum depth _____ feet below original grade.

Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5 foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

180 sq. ft./bedroom

Trench to be 2 wide.

Inlet 3 feet below original grade.

Bottom maximum depth 10 9 feet below original grade.

Effective area begins at 3 feet below original grade.

6 7 feet of stone below distribution pipe.

<p>* IF GARBAGE GRINDER & 4 BDRMS THEN... <u>220 SQ FT/BDRM</u> <u>+ 2000 GAL TANK</u></p>
--

4 Bed

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6"-8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a Garbage disposal is used, increase septic tank capacity by 50% and increase absorbant sidewall area by 22%.

LOCATION: START THE FIRST TRENCH 375' FROM THE BACK LOT LINE AND 130' FROM THE RIGHT LOT LINE.

RUN TRENCH ALONG LEVEL GROUND TOWARD LEFT SIDE OF LOT.

1/2/85 C. Williams

ALT. POSSIBLE CHECK DRAWING

ENGINEER'S SIGNATURE
 AND RETURNED 3-1-88