

# PERMIT

8/26/81  
App'd F.S.

P 31554

A 31200

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

05-386667

ELLICOTT CITY

DISTRICT \_\_\_\_\_

## INDEX

DATE 8/4/81

Robert Orndorff

IS PERMITTED TO INSTALL  ALTER \_\_\_\_\_

ADDRESS 13938 Highland Road, Clarksville, Md 21029 PHONE 596-9394

SUBDIVISION Kalmia Farms ROAD 5236 Kalmia Dr. LOT 18

PROPERTY OWNER Richard & Nancy Sutherland

ADDRESS 13408 Lydia St. S.S. Md.

SPECIFICATIONS 4 bedrooms

SEPTIC TANK CAPACITY 1250 GALLONS

DRAIN FIELD \_\_\_\_\_ DEPTH \_\_\_\_\_ FEET. BOTTOM AREA \_\_\_\_\_ SQ. FT.

DEEP TRENCH \_\_\_\_\_ DEPTH \_\_\_\_\_ FEET. BOTTOM AREA \_\_\_\_\_ SQ. FT.

SEEPAGE PITS  ABSORBENT SIDE-WALL AREA 135 SQ. FT. per bedroom

INLET PIPE 4 1/2 FT. BELOW ORIGINAL GRADE. MAXIMUM DEPTH 10 1/2 FT. BELOW ORIGINAL GRADE

EFFECTIVE DEPTH AT \_\_\_\_\_ FT. BELOW ORIGINAL GRADE.

LOCATE DISPOSAL AREA 200 FT. FROM front LOT LINE AND 212 FT. FROM right LOT LINE AS SEEN WHEN FACING LOT FROM Kalmia Rd.

NOTE: Add a ditch off the dry well after a 5' buffer. Ditch to be <sup>10'</sup> deep 2' wide with inlet at 4' below original grade & fill with 4' of stone. Run the ditch along level ground toward perc hole #2. Perc hole #2 is located 154' from the front lot line and 62' from the right lot line as seen when facing the lot from Kalmia road. Ditch is necessary to make additional absorbent area.

@ site 8/13/81 T/C TO F. Spencer - HOLD FOR LETTER BEFORE APPROVING ANY PIPE FROM HOUSE TO DRYWELL. C.B.V. 8/17/81 SEE BACK. C.B.V.

PLANS APPROVED BY Raymond Hodges DATE 5/18/81

COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

NOTE: IF TRENCH IS USED CALL FOR INSPECTION BEFORE PLACING GRAVEL IN TRENCH.

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER.

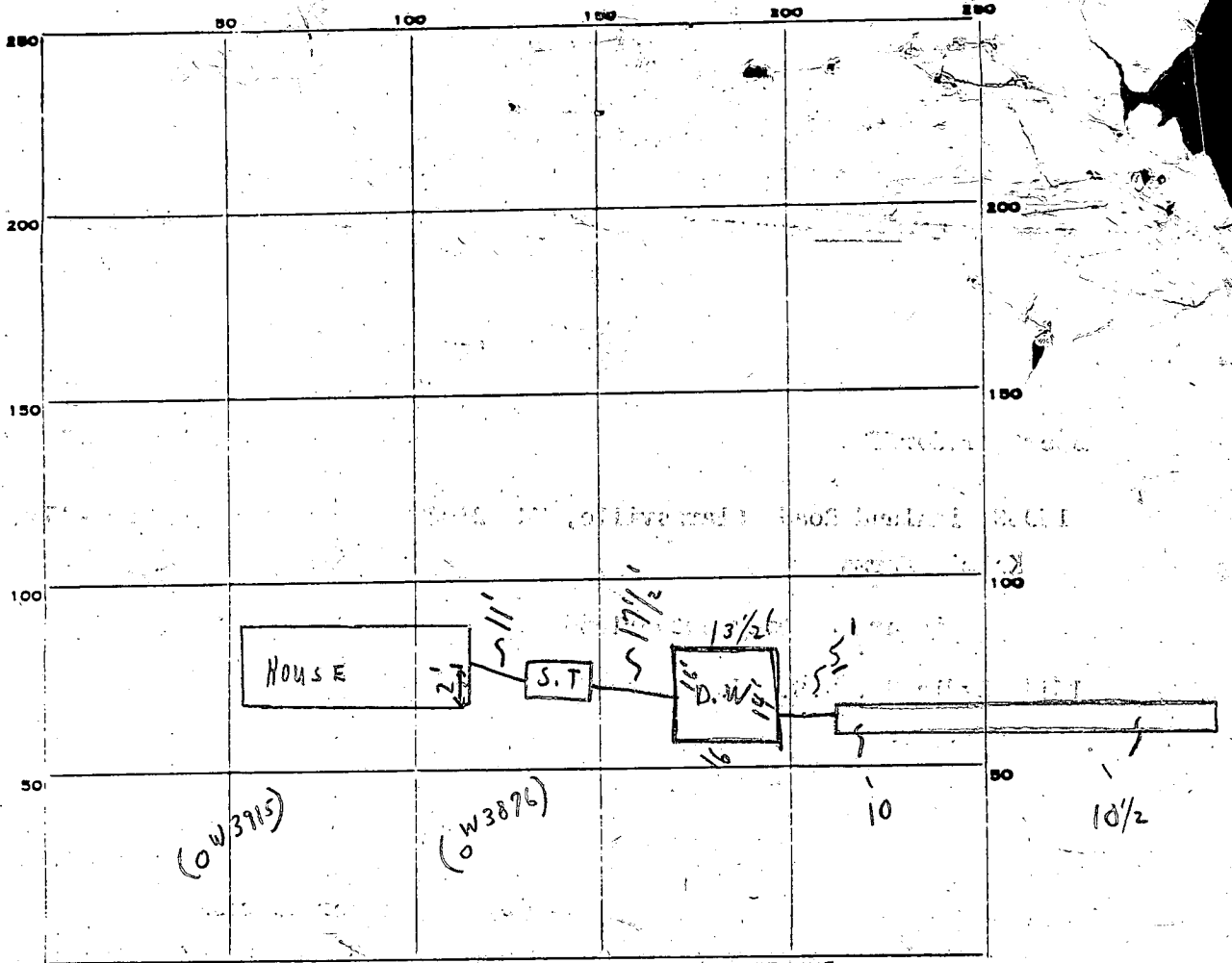
NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON.

PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

A 31200



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

KALMIA DRIVE

PERMIT CARD

SEPTIC TANK, LEVEL

CLEANOUTS  MANHOLE  S.T.  D.W.

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH 10 AVE FT. TRENCH WIDTH 2 FT.

GRAVEL DEPTH 4.5 IN. TOTAL LENGTH 61 FT. 274.5

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA \_\_\_\_\_

SEEPAGE PITS, INSIDE DIAMETER 59.5 FT. DEPTH BELOW INLET 6 FT. 357

ABSORBENT AREA 631 SQ. FT.

REMARKS 8/13/81 CHECKED - TRENCH OK FOR STONE ONLY, STOP WORK (P) ON PIPE FROM HOUSE TO TANK; T/C FROM SITE TO OFC - F.S. OVER LETTER (C.B.M. 1, GET 5 SCH. 40 PVC 220 PIPE IN SAND)

-SPOKE TO GEORGE HANGCOCK REP. OF T. THOMPSON - GENERAL CONTRACTOR AT

SITE BY MR. ORNDORFF AT SITE - PARTIAL HOLD FOR LETTER + APPROVAL BEFORE

ANY MORE INSPECTIONS: C.B.M. 8/19/81 @ OFFICE AM. HOLD FOR LETTER PERF. BEFORE APPROVAL

FIELD SYSTEM - COMPLETE - TENTATIVE APPROVAL SUBJECT TO LETTER

DATE SYSTEM APPROVED 8/26/81 per attached letter INSPECTOR F. Skinner

*Rec'd  
2/3/81  
1:30 p.m.*

# APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 31200  
P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

P. O. BOX 473 ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 992-2330

DISTRICT \_\_\_\_\_

*SPECS ON SEPARATE SHEET* DATE 2/27/81

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

*Howard Thompson 890 8860  
Builder*

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER RICHARD & NANCY SUTHERLAND

ADDRESS 13408 LYDIA ST. S.S. MD. PHONE 946-4315

PROPERTY LOCATION:

SUBDIVISION Kalmia Farms LOT NO. 18

ROAD AND DESCRIPTION Tridelphia Mill Rd. to Kalmia Drive

SIZE OF LOT 5.469 TYPE BLDG. 4 Bedroom Home  
(NUMBER OF BEDROOMS)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY

WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Howard N. Thompson  
(SIGNATURE OF APPLICANT)

APPROVED BY Raymond Hodger FOR Drywell DATE 5/18/81

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

BLDG. PERMIT SIGNED  
AND RETURNED 5/18/81  
#46527 (S.F.D.)

REASONS FOR REJECTION OR HOLDING 3/5/81 - DISCUSSED WITH FF. WE DECIDED THAT WE NEED

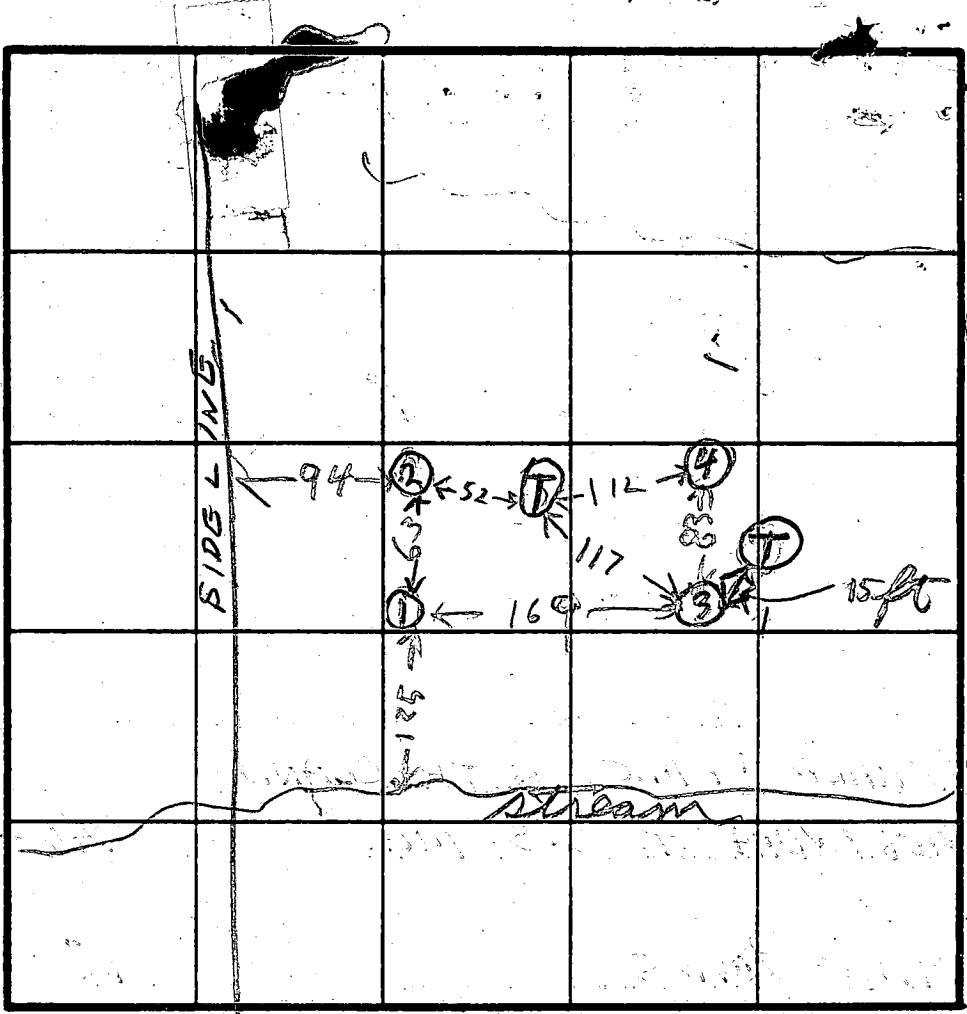
TO HAVE ENGINEERS PERC HOME LOCATION PLAT FOR THIS RETEST  
BEFORE WE DECIDE IF PERC IS OK CALLED OWNER TWICE COULD NOT GET THROU  
5/18/81 PERC TEST PLAT WAS SIGNED B

## THIS IS NOT A PERMIT

③  
SOIL PROFILE

0  
3 ft  
5 ft  
14 ft

CLAY  
CLAYISH SAND  
SANDY LOAM



Ⓣ = OLD TEST HOLE

HOLE ELEVATION

① = LOWEST

②③ = MEDIUM

④ = HIGHEST

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME	
			START	STOP	START	STOP		
3/3/81	1D	14	153	204	204	216	12	
	1S	6	154	212	212	235	23	
	2S	2 1/2	206	211	211	219	8	
	2D	11	207	211	211	219	8	
	③S	2 1/2	238	245	245	318	Little over	
	3D	12 1/2	248	256	256	302	6	
	4S	2 1/2	318	326	326	337	11	
	4D	11	320	326	326	335	9	
	③M	3 1/2	322	330	330	330	inlet	
3/3/81	3V	14	SEE SOIL PROFILE					

inlet 3 1/2

REMARKS THOMPSON PREFERRED SINGLE SHELF PERC HOLE TO DOUBLE SHELF PERC HOLE  
WATER LEVEL IN STREAM IS 15-20 FT LOWER THAN HOLE ①

TYPE OF SOIL

TESTED BY

ALSO PRESENT THOMPSON

EH-12-1079

# APPLICATION

A 26347

## SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P.O. BOX 476 ELLICOTT, MARYLAND 21043  
TELEPHONE: 992-2330

Septic tanks { 1-3 Bedrooms 1000 gallons  
4 Bedrooms 1250 gallons

Dry well to have 125 gal. effective  
absorbant side wall area for bedroom below  
inlet. Unit to be 3' below original grade  
and maximum depth 10' location per engineer's  
plat: 160' in from front property line and 160' from  
right property line when facing lot from Kalmia Duwe

DISTRICT \_\_\_\_\_  
DATE 2/13/79

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER KALMIA FARMS SEC. I.

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION: \_\_\_\_\_

SUBDIVISION \_\_\_\_\_ LOT NO. #18

ROAD AND DESCRIPTION \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. \_\_\_\_\_

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER

ANY CIRCUMSTANCES.

SIGNATURE OF APPLICANT \_\_\_\_\_

APPROVED BY C. B. Streaker FOR Dry Well DATE 2/13/79

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING Tests of 10/20/78  
e.B.S.

# THIS IS NOT A PERMIT



lot 18  
Ralmia Farms

lot 13

Drainage  
canal

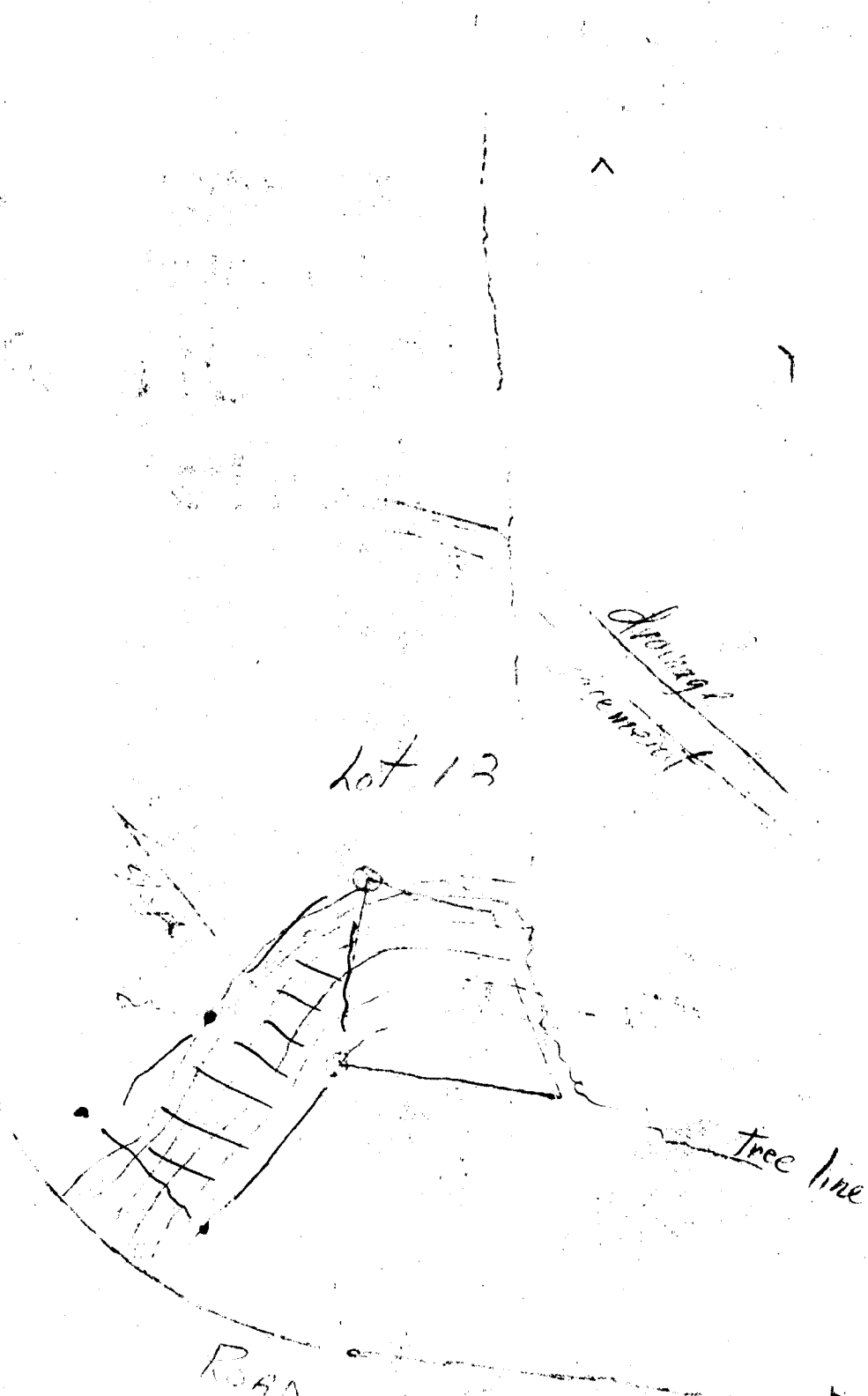
lot  
corner

tree line

Red dots suggested  
new hole locations,  
retaining 2 circled  
holes of old area

ROAD

lot corner



LOT 17

PROPOSED RESIDENCE  
FIRST FLR ELEV 401.0  
BSMT FLR ELEV 451.25

20.0' SEPTIC EASEMENT  
SETBACK

10,000 SF  
SEPTIC EASEMENT

SEPTIC TANK  
INVERT IN 450.98  
INVERT OUT 460.73

DEYWELL  
EXISTG ELEV 450.8  
INVERT ELEV 450.4

EXISTING  
TREE LINE

EXISTG WELL

10.0' GRAVEL  
DRIVEWAY

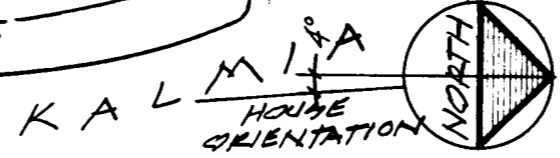
LOT 18  
5.469 AC ±

DRIVE

KALMIA FARMS  
TAX MAP 27 PART OF PARCEL 127  
SECTION 1 SHEET 3 OF 10  
PLAT 4171 5<sup>TH</sup> ELECTION DISTRICT

PARTIAL SITE PLAN  
1" EQUALS 50'-0"

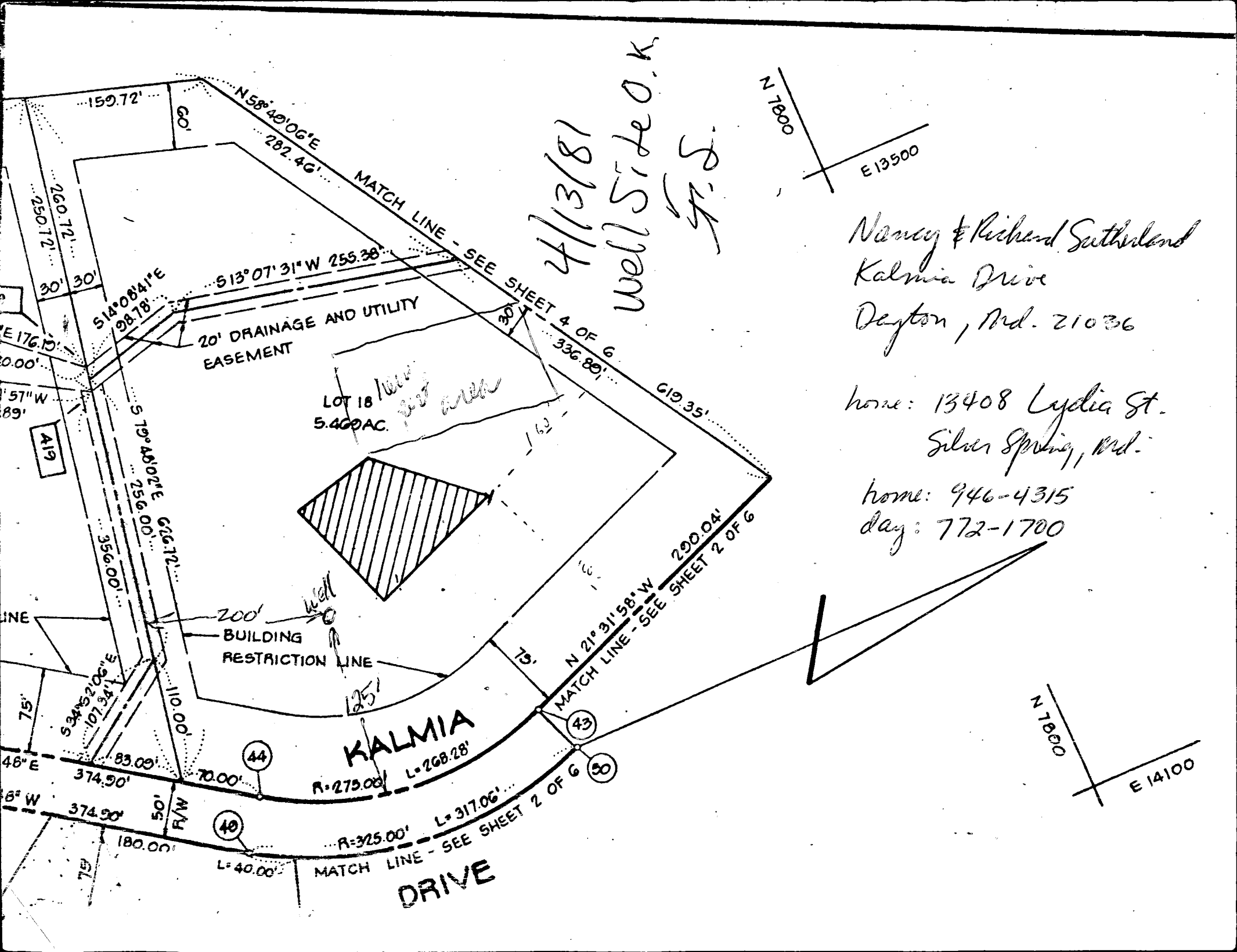
TOPOGRAPHY INFO  
PROVIDED BY: HUBKINS ASSOC'S  
JOSEPH SQUARE  
COLUMBIA, MD.



1/8/81/5  
Sketch of  
T.S.

PROPOSED RESIDENCE FOR  
MR & MRS RICHMOND SUTHERLAND  
5230 KALMA DRIVE, DAYTON MARYLAND 21030  
ANDRE G. FONTAINE, ARCHITECT  
9477 WANDERING WAY, COLUMBIA MARYLAND 21045

5.10.81  
SHEET  
1  
OF ONE



4/13/81  
 Well Site O.K.  
 F.S.

Nancy & Richard Sutherland  
 Kalmia Drive  
 Dayton, Md. 21036

home: 13408 Lydia St.  
 Silver Spring, Md.

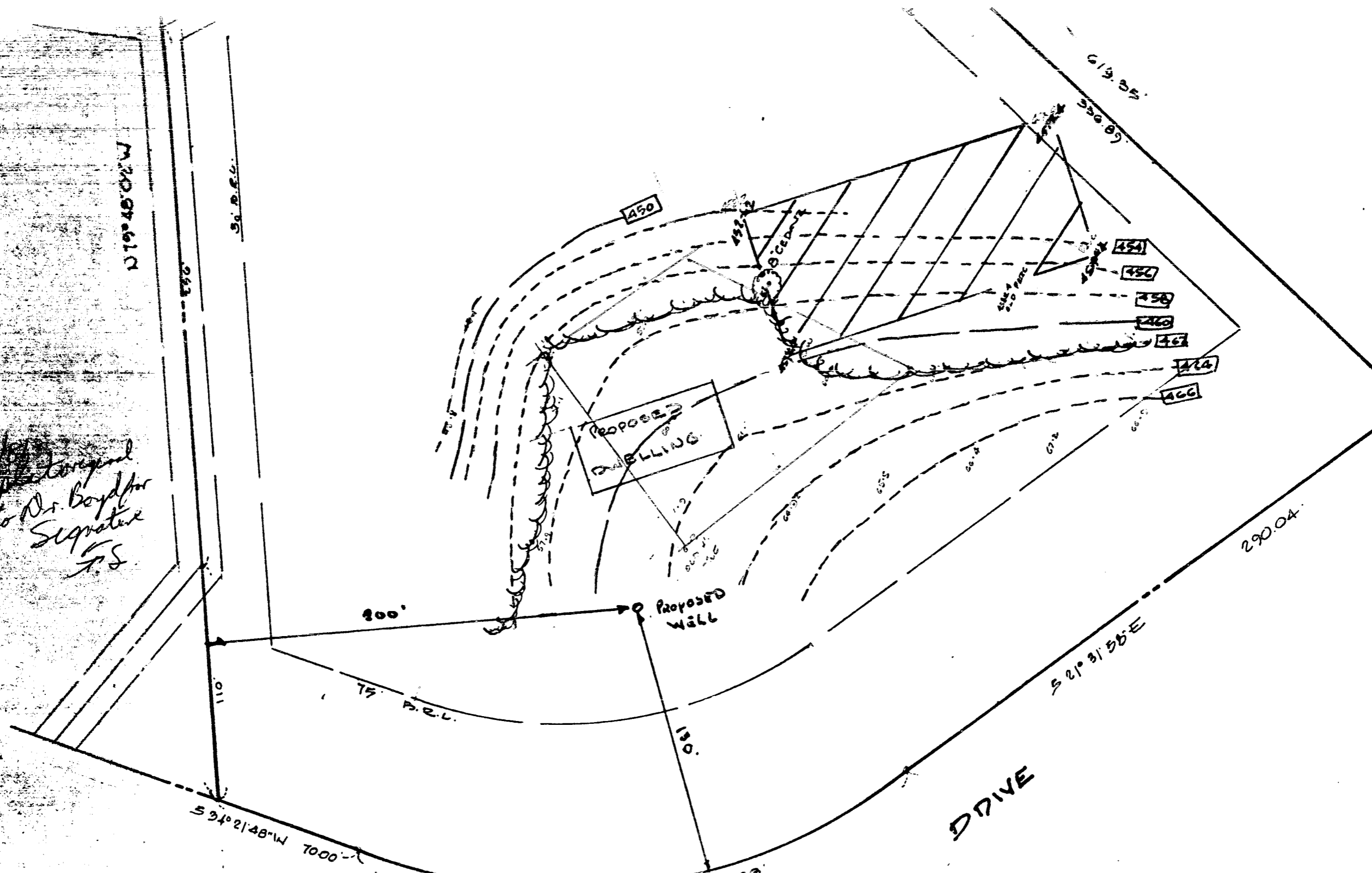
home: 946-4315  
 day: 772-1700

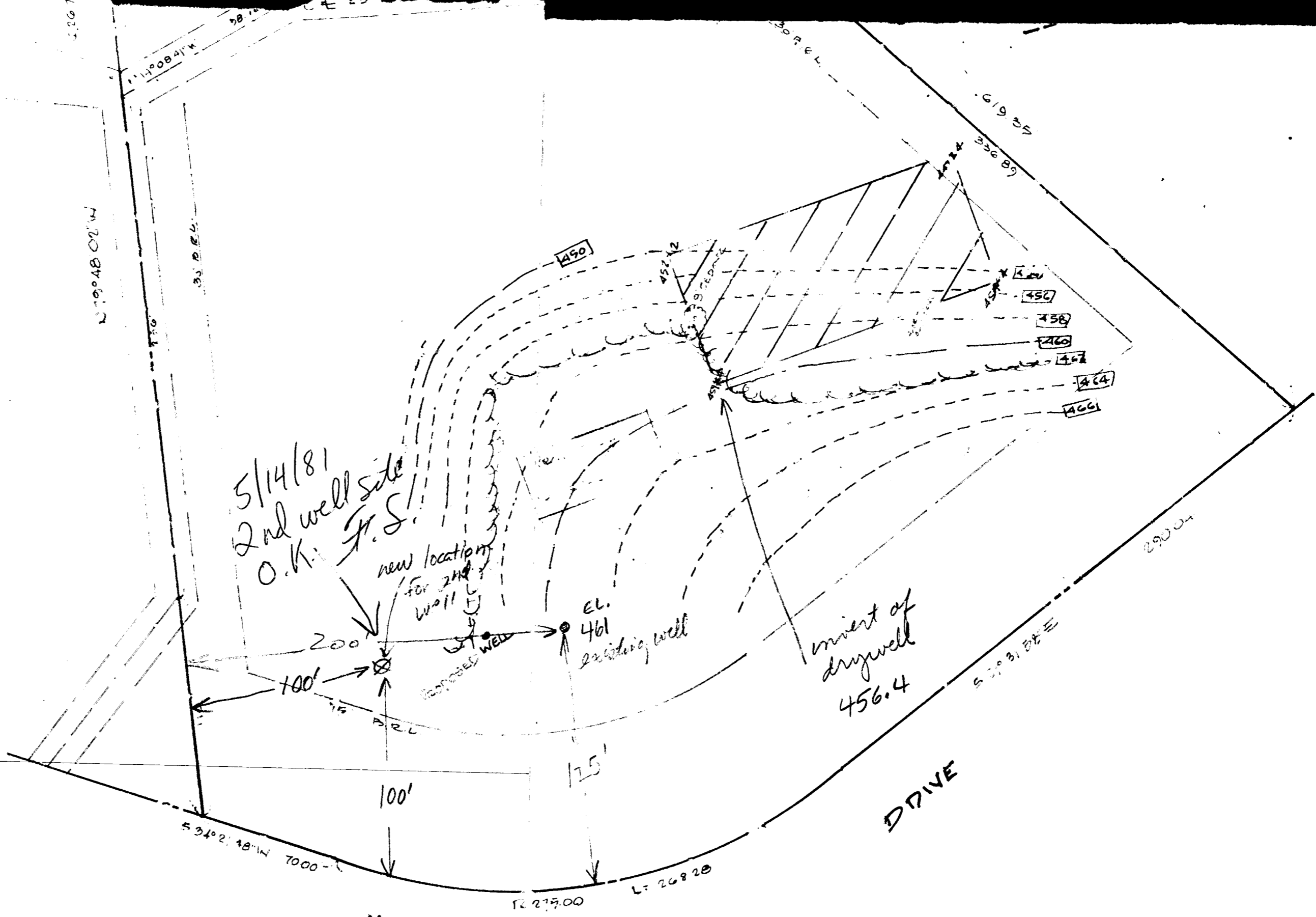
N 7800  
 E 13500

N 7800  
 E 14100

M 20.07.610

3/23/81  
This photograph  
sent to Dr. Boyd for  
Signature  
JS





5/14/81  
2nd well site  
O.K. J.S.

new location  
for 2nd  
well

el.  
461  
existing well

minert of  
drywell  
456.4

KALMIA

DRIVE

**APPROVED:** FOR PRIVATE WATER & PRIVATE SEWAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT

LOT 18 KALMIA FARMS  
SECTION 1 SHEET 3 OF 16 PLAT # 4111  
BY ELECTION DIST. HOWARD CO. MD  
SCALE 1" = 50' 3/1/1981

Water Park

B 1 **7618** SEQUENCE NO. WRA USE ONLY

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

WRA PERMIT NUMBER

**HO-73-3915**

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

please print or type

fill in this form completely

DATE RECEIVED 5/11/81  
 9:30  
 June 1, 1981  
 II

OWNER INFORMATION  
 LAST NAME Sutherland OWNER FIRST NAME Richard  
 13408 Lydia St.  
 STREET OR RFD.  
 Silver Spring Md.  
 TOWN STATE ZIP

B 3 LOCATION OF WELL  
 COUNTY Howard Well # 2  
 SUBDIVISION Kalmia Farms  
 SECTION 1 LOT 18  
 NEAREST TOWN Dayton  
 MILES FROM TOWN (enter 0 if in town) 3.30

B 1 CONTINUED DRILLER INFORMATION  
 DRILLER'S NAME Joseph L. Mangue LICENSE NO. 238  
 SIGNATURE Joseph L. Mangue DATE 5/11/81

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  
  
 NEAR WHAT ROAD Kalmia Drive  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) W  
 DISTANCE FROM ROAD (CIRCLE APPROPRIATE BOX) 100

B 2 WELL INFORMATION  
 APPROX. PUMPING RATE (GAL. PER MIN) 5  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

SHOW LOCATION OF WELL WITH AN "X" IN THIS BOX  
  
 WRITE THE BOX NUMBER FROM THE MAP HERE  

E	790	5
N	500	7

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)

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)  
 CABLE  REVERSE ROTARY  DRIVE POINT  ROTARY  
 other \_\_\_\_\_

REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE)

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

*New well 100' to left of Dayton when facing east from Kalmia Dr. 45' Jetted 17' 0" open*

*Howard*

*Kalmia Dr.*

*6/1/81*

*10 Bags of Cement P.W.D.*

*63' Well casing P.W.D.*

*45' Well ground*

*(3" casing above ground @ grade.)*

Not to be filled in by driller (WRA USE ONLY)  
 APPROX. PERMIT NUMBER GAP  
 FORCE FS INITIALS HO-73-3915 CONDITIONS HO-73-3915

B 4 NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
 COUNTY NAME HOWARD COUNTY NO. A31200  
 EHA SIGNATURE \_\_\_\_\_ STATE HEALTH CIRCLE BOX S  
 MO 05 DAY 14 YR 81  
 CO SIGNATURE Joseph L. Mangue DATE 5/11/81  
 NORTH 507 EAST 0795 ELEV. (FT.) \_\_\_\_\_  
 GRID 50 55 GRID 57 63 65 68

B 5 SPECIAL CONDITIONS (WRA USE ONLY)

C1 8288 SEQUENCE NO. (WRA USE ONLY)

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

THIS REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL IS COMPLETED COUNTY NUMBER A31200

Date Received (WRA use only) June 1 1981 DATE WELL COMPLETED

Depth of Well 325 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-73-3915

OWNER Sutherland last name Kalmia Drive first name Richard TOWN Dayton SUBDIVISION Kalmia Farms SECTION 1 LOT 18

WELL LOG Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Includes handwritten entries for Sand and Gray mica rock.

GRouting RECORD WELL HAS BEEN GROUTED (YES Y NO N) TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 10 NO. OF POUNDS 940

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE (ST) Nominal diameter top(main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 63

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 (HO) OPEN HOLE (PL) PLASTIC (OT) OTHER

EACH SCREEN 1 40 61 325 DEPTH (nearest ft.)

CIRCLE APPROPRIATE BOX [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 I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED PERMIT TO DRILL WELL AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

DRILLERS IDENT. NO. 238

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

SLOT SIZE 2 3 DIAMETER OF SCREEN (NEAREST INCH) from to GRAVEL PACK

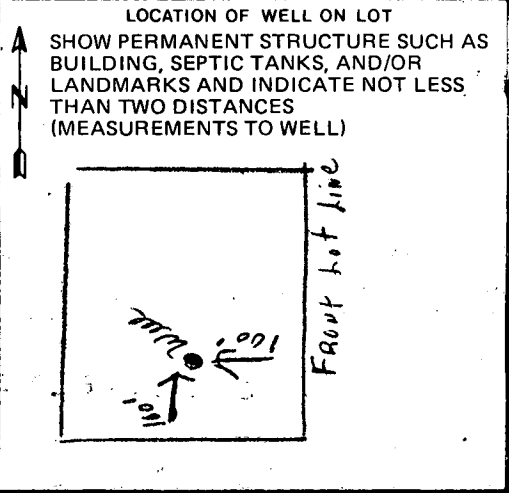
IF WELL DRILLED WAS FLOWING WELL CIRCLE BOX [F]

WRA USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST (seq no) C 3 HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min. to nearest gal.) 6 METHOD USED TO MEASURE PUMPING RATE air WATER LEVEL (distance from land surface) BEFORE PUMPING 70 WHEN PUMPING 280 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 WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX) YES [Y] NO [N] IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: (A, C, J, P, R, S, T, O) - 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 2 (nearest foot)



C1 8247 SEQUENCE NO. (WRA USE ONLY)  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)  
 Date Received (WRA use only) MAY 19 1987  
 DATE WELL COMPLETED

STATE OF MARYLAND  
 WELL COMPLETION REPORT  
 FILL IN THIS FORM COMPLETELY  
 PLEASE PRINT OR TYPE  
 Depth of Well 250  
 (TO NEAREST FOOT)

THIS REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL IS COMPLETED.  
 COUNTY NUMBER A 31200  
 PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-73-3876

OWNER Sutherland Richard  
 last name first name  
 STREET OR RFD Kalmia Drive TOWN Dayton  
 SUBDIVISION Kalmia Farms SECTION \_\_\_\_\_ LOT 18

WELL LOG  
 Not required for driven wells  
 STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		Check if water bearing
	FROM	TO	
Brown Shale	0	3	
Sand	3	63	
Gray mica rock	63	250	

GROUTING RECORD  
 WELL HAS BEEN GROUTED  YES  NO  
 TYPE OF GROUTING MATERIAL  
 CEMENT  BENTONITE CLAY   
 NO. OF BAGS 9 NO. OF POUNDS 846  
 GALLONS OF WATER 54  
 DEPTH OF GROUT SEAL (to nearest foot)  
 from 0 ft. to 34 ft.  
 (enter 0 if from surface)

CASING RECORD  
 casing types  ST  CO  
 STEEL CONCRETE  
 PL  OT  
 PLASTIC OTHER  
 MAIN CASING TYPE  ST  
 Nominal diameter top(main)casing (nearest inch) 6  
 Total depth of main casing (nearest foot) 66

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

SCREEN RECORD  
 screen type or openhole  ST  BR  HO  
 STEEL BRASS OPEN HOLE  
 PL  OT  
 PLASTIC OTHER

DEPTH (nearest ft.)  
 1 64 2 250

CIRCLE APPROPRIATE BOX  
 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 I HAVE COMPLIED WITH ALL CONDITIONS STATED ON THE ABOVE-CAPTIONED "PERMIT TO DRILL WELL", AND THAT INFORMATION CONTAINED IN THIS REPORT IS TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

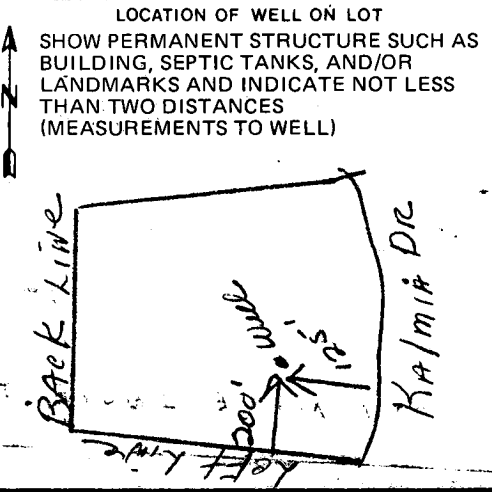
SLOT SIZE \_\_\_\_\_  
 DIAMETER OF SCREEN \_\_\_\_\_ (NEAREST INCH)  
 from \_\_\_\_\_ to \_\_\_\_\_  
 GRAVEL PACK \_\_\_\_\_  
 IF WELL DRILLED WAS FLOWING WELL CIRCLE BOX  F

DRILLERS IDENT. NO. 238  
 DRILLERS SIGNATURE Quinn S. Mays  
 (MUST MATCH SIGNATURE ON APPLICATION)  
 SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee)

WRA USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
 T \_\_\_\_\_ (E.R.O.S.)  
 W Q \_\_\_\_\_  
 TELESCOPE CASING \_\_\_\_\_ LOG INDICATOR \_\_\_\_\_ OTHER DATA \_\_\_\_\_

PUMPING TEST  
 HOURS PUMPED (nearest hour) 4  
 PUMPING RATE (gal. per min. to nearest gal.) 4  
 METHOD USED TO MEASURE PUMPING RATE air  
 WATER LEVEL (distance from land surface) BEFORE PUMPING 55  
 WHEN PUMPING 220  
 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 YES  NO   
 DRILLER WILL INSTALL PUMP (CIRCLE APPROPRIATE BOX)  Y  N  
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE  
 TYPE OF PUMP (WRITE APPROPRIATE LETTER IN BOX - SEE ABOVE: (A, C, J, P, R, S, T, O))  
 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)



# HOWARD COUNTY HEALTH DEPARTMENT

JOYCE M. BOYD, M.D., M.P.H.  
COUNTY HEALTH OFFICER



BUREAU OF ENVIRONMENTAL HEALTH  
TIBER PLACE  
8306B FORREST STREET  
ELLCOTT CITY, MARYLAND 21043  
TELEPHONE: 892-2330

March 18, 1983

MEMORANDUM:

TO: Ms. Avis Corbin  
Bureau of Licenses, Inspections and Permits

FROM: Frank Skinner, Director  
Water and Sewerage Program *F.S.*

RE: Kalmia Farms S/D - Lot 18  
5236 Kalmia Drive  
Owner - Mr. Richard Sutherland

APR 25 3 07 PM '83  
ELLCOTT CITY, MD  
BUREAU OF ENVIRONMENTAL HEALTH

An Use and Occupancy approval will not be granted by this Bureau until the owner, Richard Sutherland, complies with our request of May 6, 1982.

Specifically, a Groundwater Appropriation Permit application must be submitted and a disposal option for waste water generated by the illegal groundwater mediated heat pump system must be approved.

FS:jr

cc: Mr. Richard Sutherland ✓

*4/20/83  
MS Corbin -*

*- Attached, pls find applications for  
1. use  
2. discharge*

*of the ground water mediated heat pump at the above address*

*- These are copies of the original forms which were (MAILED TO) (filed with) your office in 8/82*

*AM*

# MARYLAND GROUNDWATER POLLUTION CONTROL AND PREVENTION SYSTEM

## APPLICATION FOR PERMIT TO DISCHARGE\* TO UNDERGROUND WATERS AND FOR APPROVAL OF PLANS AND SPECIFICATIONS FOR A FACILITY WHICH MAY DISCHARGE

*7/78 Note: Have H.P. Discharge evaluation if possible*

LOCATION: (name and address of facility producing discharge or potential discharge)

NAME R.M. Sutherland

ADDRESS 5236 Kalmia Dr.

COUNTY/CITY Howard Dayton MD ZIP CODE 21036

\*Include a copy of a U.S.G.S. 7.5 minute quadrangle map showing the exact location of discharge or facility.

TYPE OF DISCHARGE OR FACILITY (check all appropriate boxes)

### DISCHARGES (DISCHARGE PERMIT REQUIRED)

- LAND APPLICATION OF WASTEWATER
  - IRRIGATION (spray or other)
  - OVERLAND FLOW
  - INFILTRATION-PERCOLATION BASIN
  - OTHER, DESCRIBE \_\_\_\_\_
- UNDERGROUND WASTE INJECTION WELLS
- RECHARGE WELLS
- SUB-SURFACE SOIL ABSORPTION SYSTEM (drainfield, seepage pit, etc.; industrial only)
- LANDFILLS
  - LANDFILLS FOR INDUSTRIAL WASTES AND SLUDGES
  - LANDFILLS FOR MUNICIPAL WASTEWATER TREATMENT PLANT SLUDGES
  - SANITARY LANDFILLS FOR MUNICIPAL AND COMMERCIAL WASTES
  - OTHER, DESCRIBE H.P. DISCHARGE IS INTO EXISTING SURFACE WATER STREAM

### FACILITIES WHICH MAY DISCHARGE (APPROVAL OF PLANS AND SPECIFICATIONS REQUIRED)

- HOLDING PONDS AND LAGOONS FOR CHEMICALS, WASTES OR OTHER MATERIALS
- WASTEPILES AND STOCKPILES
  - STRIP MINE SPOILPILES
  - CHEMICAL STOCKPILES
  - SALT STOCKPILES
  - OTHER, DESCRIBE pure H<sub>2</sub>O for well mediated heat pump into existing stream

NATURE OF WASTE, WASTEWATER, OR POTENTIAL POLLUTANT (check all appropriate boxes)

- SANITARY
- SOLID WASTES
- DESCRIBE \_\_\_\_\_
- INDUSTRIAL
- SLUDGES
- COOLING WATER
- LIQUID WASTES

*The H<sub>2</sub>O originating for this system is returned to nature fresh water stream*

QUANTITY OF WASTE, WASTEWATER, OR POTENTIAL POLLUTANT

LIQUIDS: AVG. GAL/DAY 779.6 MAX. GAL/DAY 3456

SOLIDS OR SLUDGES: AVG. TONS/DAY \_\_\_\_\_ MAX. TONS/DAY \_\_\_\_\_

PERIOD OF DISCHARGE OR OPERATION OF FACILITY:  
FROM \_\_\_\_\_ TO \_\_\_\_\_