

2/11/87
final

2/13/87
LATE PM

APPROVED
2/17/87
JH 38306

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

A 34933

DISTRICT 3rd

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

03-31120

DATE 12/19/86

DATE SYSTEM APPROVED _____

INSPECTOR _____

(INDEXED)

Dave Hopkins

IS PERMITTED TO INSTALL ALTER _____

ADDRESS 17550 Old Frederick Road, Mt. Airy, Maryland PHONE 831-7257

SUBDIVISION Mathis Property ROAD 12501 Barnard Way LOT 2

PROPERTY OWNER Gary Barnard

ADDRESS _____

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES _____ NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 158 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 3 feet below original grade. 5 feet of stone below distribution pipe.

LOCATION - Place the distribution box 10 feet from the back (770.51') lot line and 385 feet from the left (88.55) lot line as seen when facing the lot from Barnard Way. Run trenches on contour toward front lot line along Barnard Way.

NOTE - No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Call for inspection of trench(s) before and after gravel is installed. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. ok/cw

PLANS APPROVED BY S. Abel DATE 2/10/86

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: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E., TANK, DISTRIBUTION BOX, TRENCHES) TO BE 100 FEET FROM WELL. (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES).

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH.

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.

PERMIT VOID AFTER TWO YEARS.

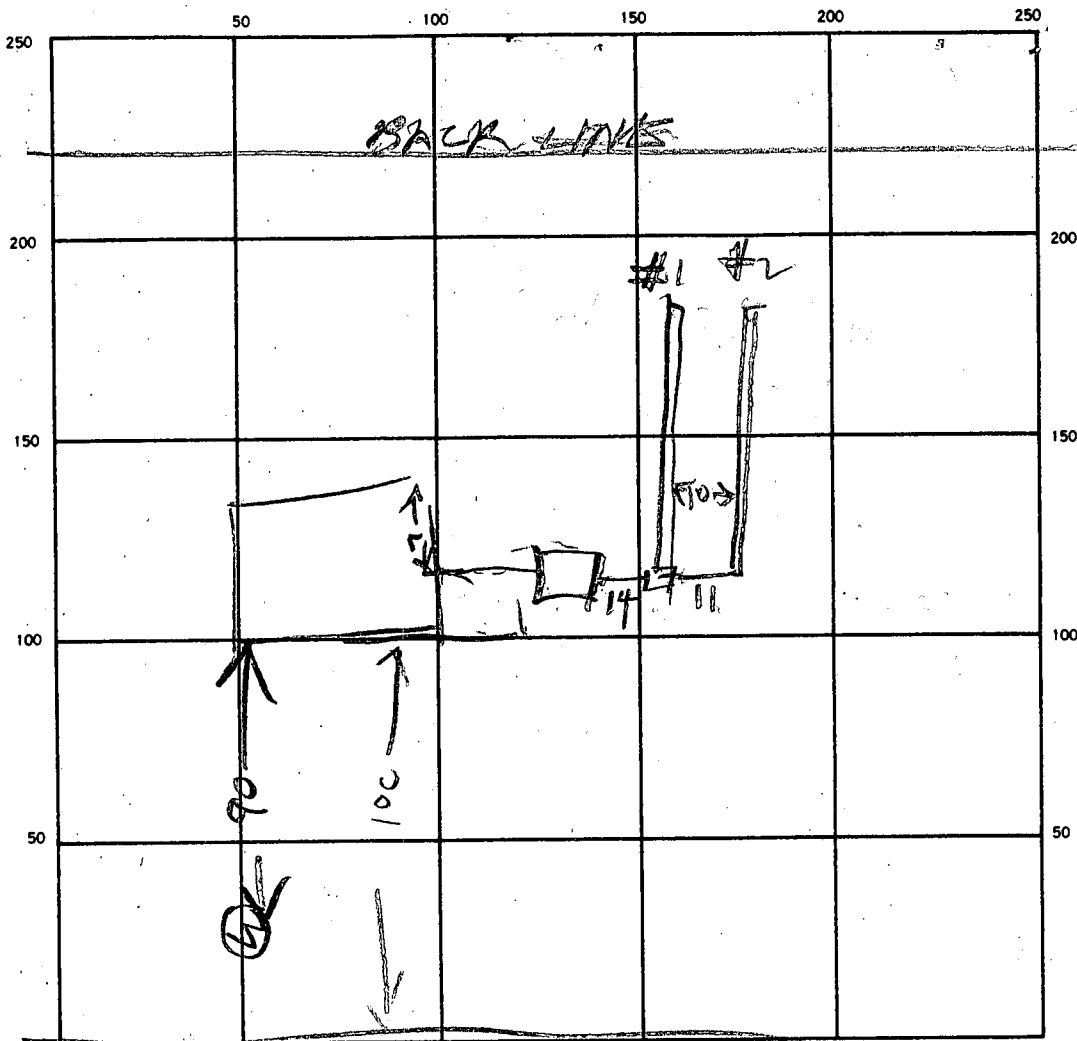
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES.

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

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

A 38306



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.
 BARNARD WAY

SEPTIC TANK LEVEL OR 1250 CLEANOUTS OR

DISTRIBUTION BOX. LEVEL _____

DRAIN FIELD/TILE FIELD. DEPTH #1/#2 8/8 FT. TRENCH WIDTH #1/#1 2/2 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH #1 #2 5 5 FT. TOTAL LENGTH #1 #2 60 67 FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 300 335 SQ. FT. 635

DRYWELL INSIDE DIAMETER _____ FT. EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 635 SQ. FT.

REMARKS 2/13/87 LOCATION TRENCHES DUG ADD STONE
& HOOK UP TANK BH.
2/17/87 TANK HOOK UP STONE ADDED
632 SQ FT BEC. W/REQ'D 635 INSTALLED

DATE SYSTEM APPROVED 2/17/87 INSPECTOR Raymond Hodges

APPLICATION

*Filed
2/20/85
1:30 P.M.*

SEWAGE DISPOSAL TESTING

A 34933

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

DISTRICT 3RD

P. O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 992-2330

DATE 2-6-85

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 Garry, Paul, and Dayton Jr. Barnard

ADDRESS 1035 St. Michael Rd Mt Airy MD 21771 PHONE 489-7621

PROPERTY LOCATION: Service Rd off 144 East 32

SUBDIVISION Mathis Property LOT NO. 2

ROAD AND DESCRIPTION M 970 (970E) (Mathis Drive) 12501 BARNARDWAY

SIZE OF LOT 3.5 Ac. ± TYPE BLDG. Res
(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.

Garry M. Barnard
(SIGNATURE OF APPLICANT)

APPROVED BY Sidney Abel FOR Deep Trenches DATE 2-10-86

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 2-20-85 Perc. SATISFACTORY, HOLD FOR Certified Field LOCATION OF 16LES SAME

BLDG. PERMIT SIGNED AND RETURNED 11/17/84

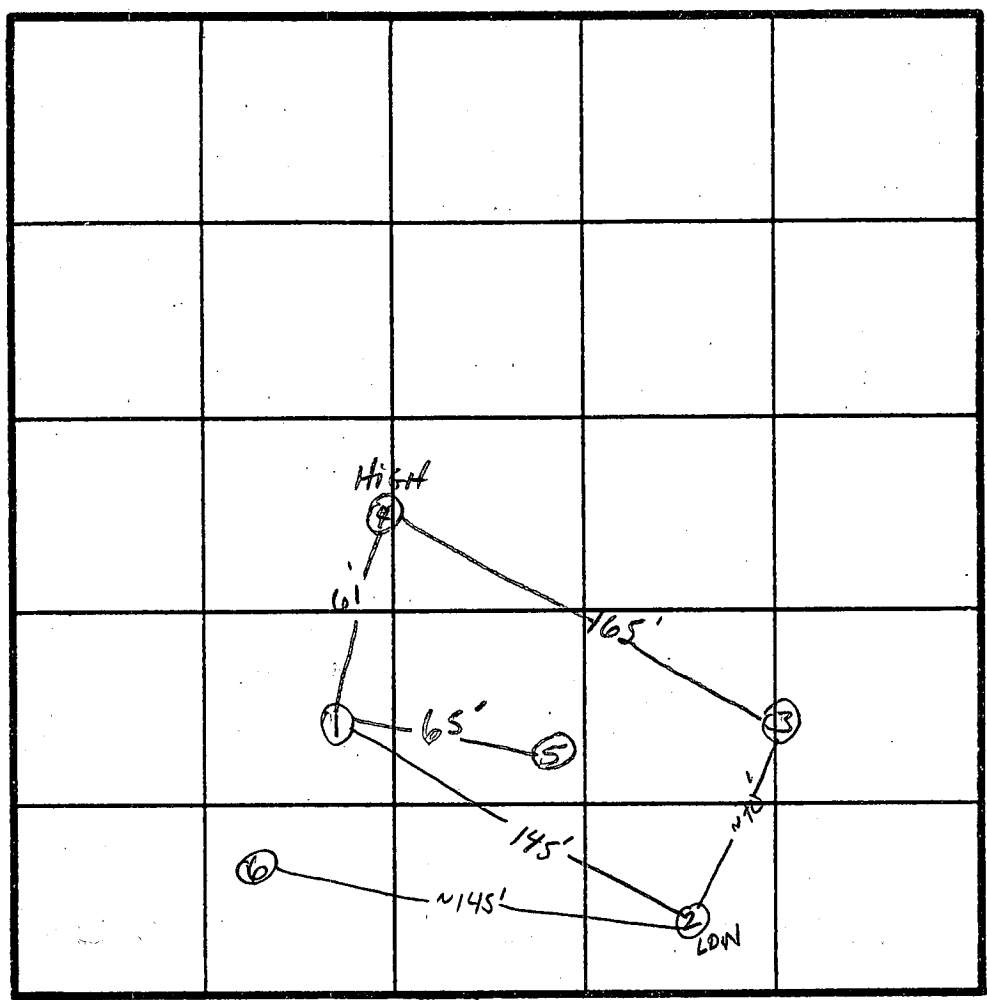
S. Abel
BP # 8993

THIS IS NOT A PERMIT

① ③ ⑤

SOIL PROFILE

9" A.O-3
BROWN
Silty CLAY
LOAM
3' BROWN
MICACEOUS
SANDY
LOAM
20-30%
SAPROLITE
11.5'



④
6" A.O-3
RED BROWN
Silty CLAY
LOAM
20% SAPROLITE
MICACEOUS
3' LIGHT BROWN
MICACEOUS
Silty SAND
10%
SAPROLITE
10' BROWN
SAND
10-20%
SAPROLITE
11.5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

RT 144

②
6" A.O-3
BROWN
CLAY LOAM
10%
SAPROLITE
4' SAND
LOAM
MICACEOUS
10-20%
SAPROLITE
11.5'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
2/20/85	1S	3'	12:37	12:39	12:39	12:41	2 MIN	
	1M	6.5'	12:37	12:39	12:39	12:42	3 MIN	
	1V	11.5'	UNIFORM SOIL STRUCTURE Below					
	2S	3.5'	12:45	20 min TOP SLOW 1/4" movement				
	2M	7'	12:44	12:46	12:46	12:49	3 MIN	
	2V	11.5'	UNIFORM SOIL Below 11'					
	2S1	4.5'	1:06	1:10	1:10	1:15	5 MIN	
	3S	3.5'	1:16	1:17	1:17	1:20	3 MIN	
	3M	6.5'	1:17	1:18	1:18	1:20	2 MIN	
1/20/85	3V	11'	UNIFORM SOIL STRUCTURE Below 3'					
	4S	3.5'	1:24	1:25	1:25	1:29	2 MIN	
	4M	6.0'	1:23	1:26	1:26	1:32	6 MIN	
	4V	11'	UNIFORM SOIL STRUCTURE Below 3'					
1/20/85	6	11.5'	WATER AT 10.5 FEET					

INLET-3
BOTTOM MAX
DEPTH=8
X TIME 4 MIN

EH-12-1079

REMARKS _____

TYPE OF SOIL Glennely Association
S. Abel

TESTED BY _____

ALSO PRESENT Will Hopkins
GARY, DAYTON, PAUL

C1 00573

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 A 34933

DATE Received

DATE WELL COMPLETED 071486

Depth of Well 300 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-81-1590

OWNER BARNALD CONSTRUCTION last name BARNALD'S WAY first name TOWN WEST FRIENDSHIP SUBDIVISION MATHIS PROPERTY SECTION LOT 2

WELL LOG table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), Check if water bearing. Rows include Top Soil, Sandy Sandstone, Micka, Sandstone, Micka.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 46, NO. OF POUNDS 600, GALLONS OF WATER 36, DEPTH OF GROUT SEAL 28 ft.

CASING RECORD: casing types insert appropriate code below. Codes: ST (STEEL), CO (CONCRETE), PL (PLASTIC), OT (OTHER).

MAIN CASING TYPE: PL, Nominal diameter 6, Total depth 23.

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

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

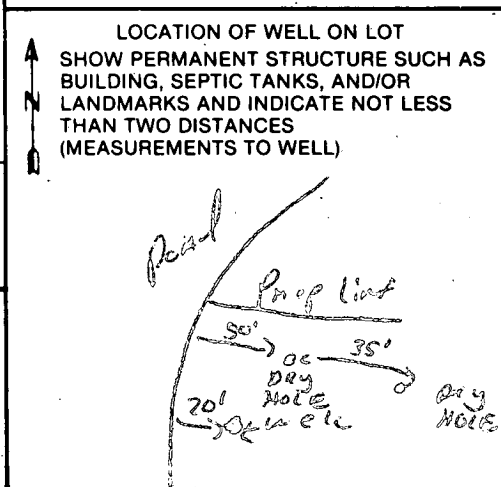
SCREEN DEPTH (nearest ft.) 140, 21, 300. SLOT SIZE 1, 2, 3. DIAMETER OF SCREEN (NEAREST INCH) 56 to 60.

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), LOG INDICATOR, WQ (OTHER DATA).

PUMPING TEST: HOURS PUMPED 6, PUMPING RATE 3 gal. per min., METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL 26 before pumping, 210 when pumping.

PUMP INSTALLED: DRILLER WILL INSTALL PUMP YES (NO), TYPE OF PUMP INSTALLED S (submersible), CAPACITY: GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT 2 (below land surface).



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

DRILLERS IDENT. NO. 273. DRILLERS SIGNATURE Ralph E. W... SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee).

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-1540
 Location of property (road) BARNARD'S WAY
 Subdivision MATHIS PROPERTY Lot 2 Block Plat Sec.
 Well Driller RALPH MAYNE Owner BARNARD CONST.

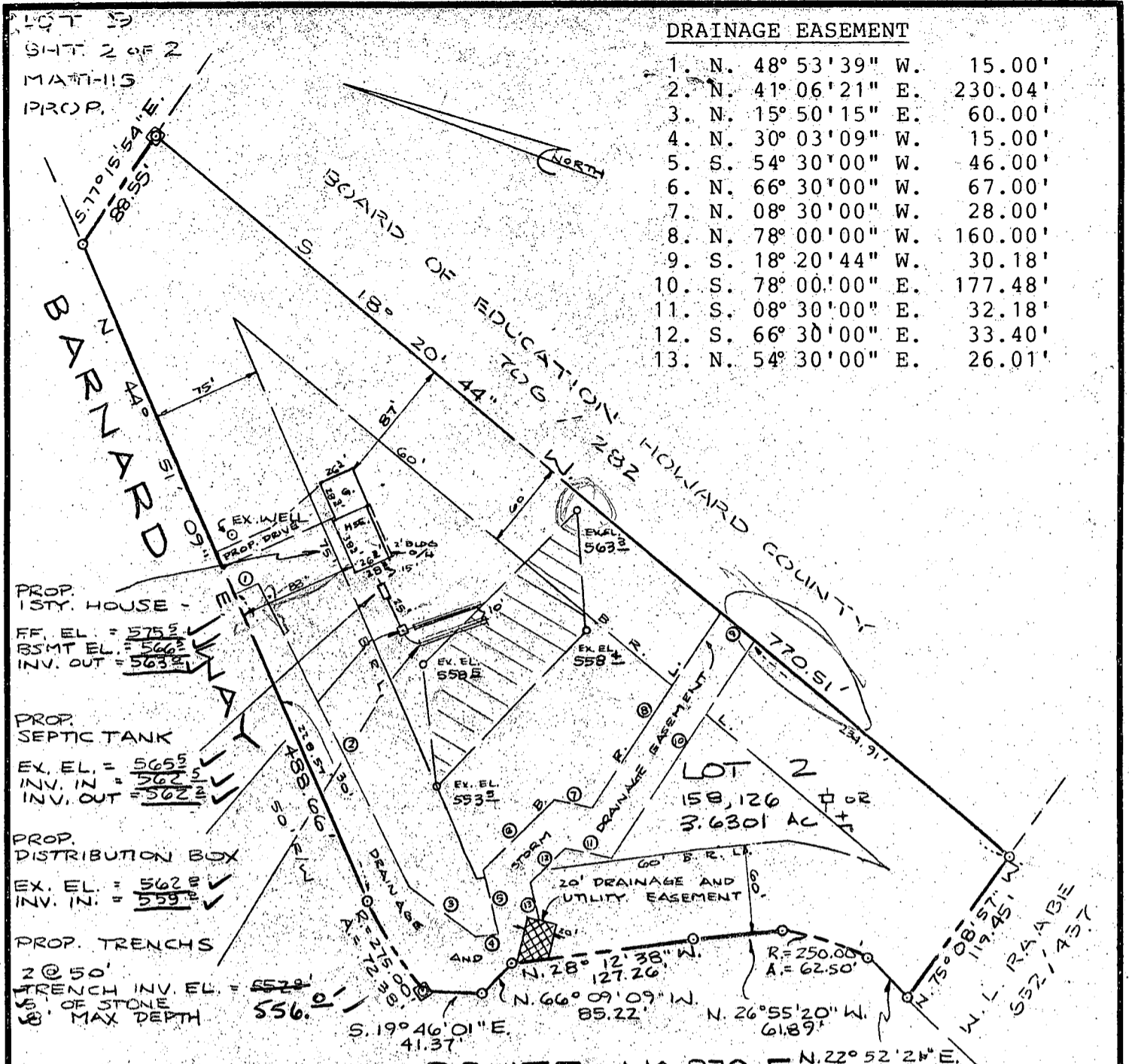
Depth of well 300 FT
 Distance of measuring point (M.P.) above ground 2 ft
 Static water level (S.W.L.) below M.P. 26 ft

I. High rate pumping -- reservoir drawdown
 Time pump started 8:00 Pumping rate 10 G.P.M
 Total time 60 min to reach pumping water level 210 ft 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 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:00	210 ft	20 sec		3 G.P.M
9:15	210	20		3
9:30	210	20		3
9:45	210 ft	20 sec		3 G.P.M
10:00	210	20		3
10:15	210	20		3
10:30	210 ft	20 sec		3 G.P.M
10:45	210	20		3
11:00	210	20		3
11:15	210 ft	20 sec		3 G.P.M
11:30	210	20		3
11:45	210	20		3
12:00	210 ft	20 sec		3 G.P.M
12:15	210	20		3
12:30	210 ft	20		3
12:45	210 ft	20 sec		3 G.P.M
1:00	210	20		3
1:15	210	20		3
1:30	210 ft	20 sec		3 G.P.M
1:45	210	20		3
2:00	210	20		3
2:15	210 ft	20 sec		3 G.P.M
2:30	210	20		3
2:45	210	20		3
3:00	210 ft	20 sec		3 G.P.M

23 FT PL 18 OPEN 6 GAGE



1.	N. 48° 53' 39" W.	15.00'
2.	N. 41° 06' 21" E.	230.04'
3.	N. 15° 50' 15" E.	60.00'
4.	N. 30° 03' 09" W.	15.00'
5.	S. 54° 30' 00" W.	46.00'
6.	N. 66° 30' 00" W.	67.00'
7.	N. 08° 30' 00" W.	28.00'
8.	N. 78° 00' 00" W.	160.00'
9.	S. 18° 20' 44" W.	30.18'
10.	S. 78° 00' 00" E.	177.48'
11.	S. 08° 30' 00" E.	32.18'
12.	S. 66° 30' 00" E.	33.40'
13.	N. 54° 30' 00" E.	26.01'

PROP. 1STY. HOUSE -
 FF. EL. = 5755
 BSMT EL. = 5663
 INV. OUT = 5632

PROP. SEPTIC TANK
 EX. EL. = 5655
 INV. IN = 5625
 INV. OUT = 5622

PROP. DISTRIBUTION BOX
 EX. EL. = 5628
 INV. IN = 5592

PROP. TRENCHS
 2 @ 50'
 TRENCH INV. EL. = 5528
 15' OF STONE
 8' MAX DEPTH

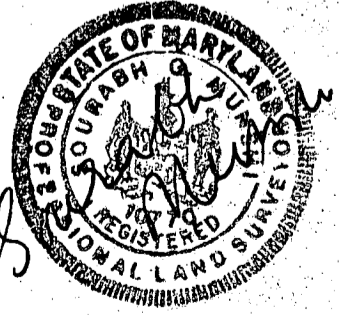
ROUTE No 970 F
 (S.R.C. PLAT No 41680)

*elevation ch w
 change in inlet depth
 made by S. Abel
 11/17/86*

PLOT PLAN
 LOT 2, SECTION I
 SHEET 1 OF 2
MATHIS PROPERTY
 A RESUBDIVISION OF LOT ONE
 # 12501 BARNARD WAY
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' SEPTEMBER 1986

BLDG. PERMIT SIGNED
 AND RETURNED 11/17/86
 S. Abel
 BP # 8993

PLAT OF RECORD NOTES: There is a 25' wide
 revertible slope easement along all road
 frontage lot lines.



I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT
 OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG
 THE LAND RECORDS OF HOWARD COUNTY,
 MARYLAND, AS REFERENCED HEREON.

REFERENCE	JOB NO.
PLAT # 6748	251-379

SHELADIA Associates, Inc.
CONSULTING ENGINEERS
 310 A South Main Street, Mt. Airy MD. 21771
 (301) 829-2890

B 1 1733

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

OEP PERMIT NUMBER

40-81A-1540 fill in this form completely

please print or type

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

7/15/86 NOON

Date Received

8 13

OWNER INFORMATION

15 Last Name 13 Owner 34 First Name

1035 S7 MICHAEL S RD

77 AIRY MD 21271

57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Driller's Name Ralph Mayne 77 License No. 80 A23

Firm Name Ralph Mayne Well Drilling

Address 9120 Brown Church Rd. Fort Detrick

Signature Ralph Mayne Date 5/30/86

B 3

LOCATION OF WELL

8 COUNTY Howard

23 SUBDIVISION

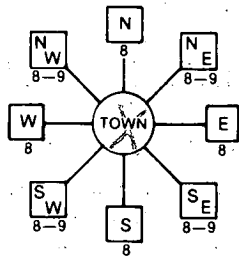
SECTION 1 LOT 2

52 NEAREST TOWN WEST FRIENDS AFB

MILES FROM TOWN (enter 0 if in town) 0 MI

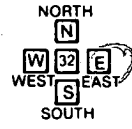
B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



11 NEAR WHAT ROAD BARBARA WAY 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 10 37 DISTANCE FROM ROAD

ENTER FT or MI 10 FT

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- [D] HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
[F] FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
[I] INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
[P] PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
[T] TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME Howard COUNTY NO. A37932

OEP SIGNATURE DATE ISSUED

06/1/86 CO SIGNATURE EXP. DATE

NORTH GRID 535000 EAST GRID 0815000

APPROXIMATE DEPTH OF WELL 190 FEET

APPROXIMATE DIAMETER OF WELL 6" 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

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
[D] THIS WELL WILL DEEPEMED AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER GAP

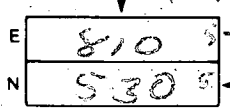
FORCE PERMIT No. 40-81A-1540

SPECIAL CONDITIONS

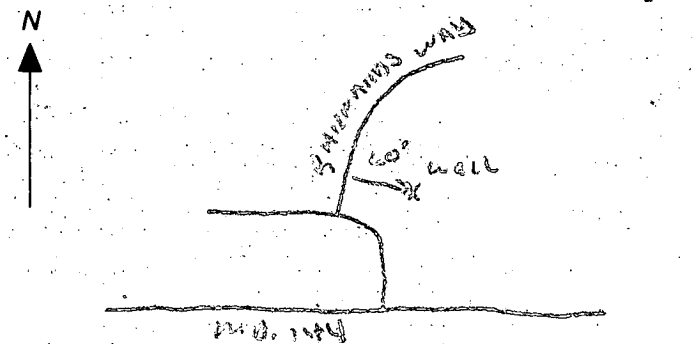
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

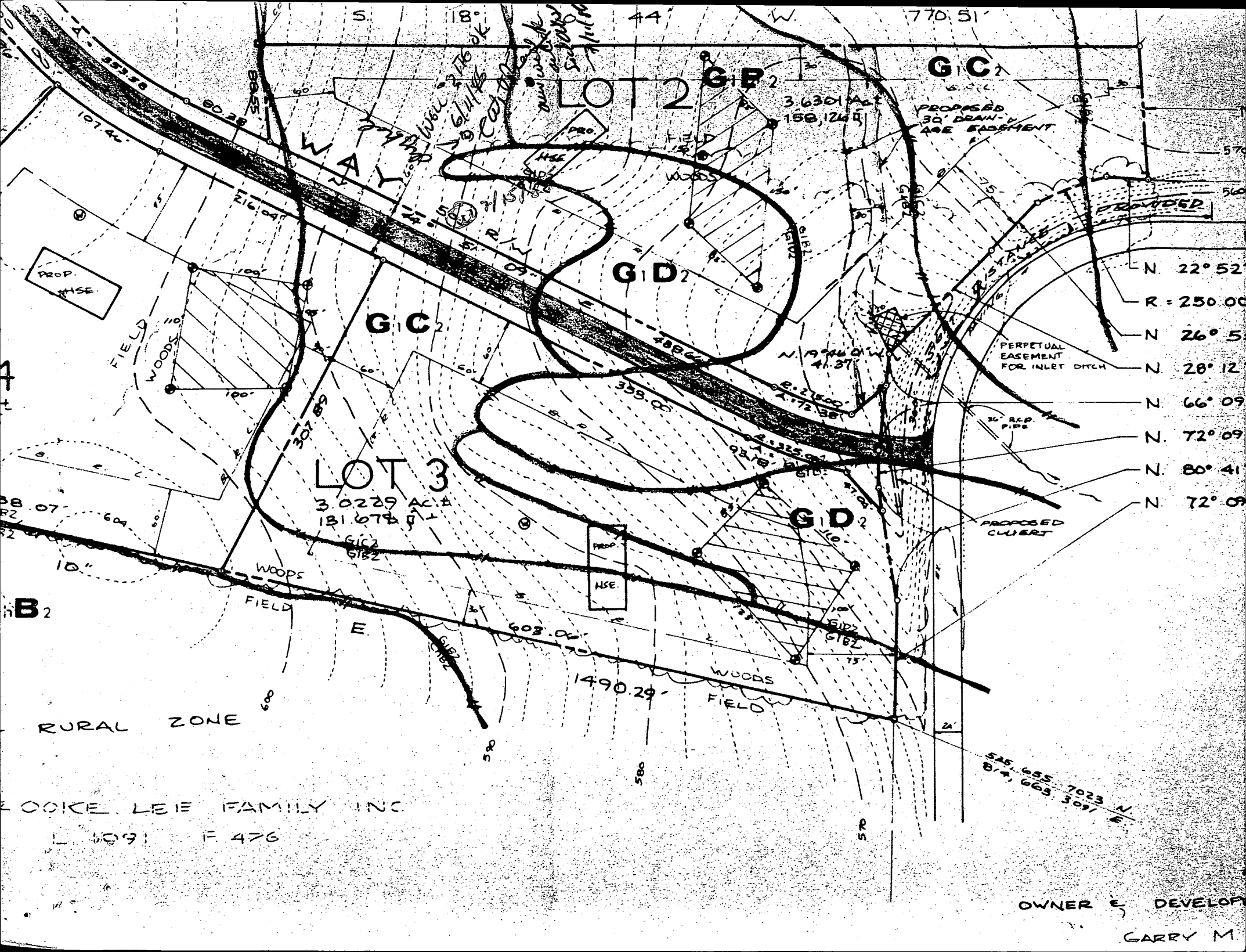
- SOURCES OF DRILLING WATER
1. well
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE



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





LOT 2

3.6301 AC ±
158,124 sq ft

G C₂

PROPOSED
30' DRAIN
ARE EASEMENT

G D₂

G C₂

LOT 3

3.0229 AC ±
131,678 sq ft

G D₂

PERPETUAL
EASEMENT
FOR INLET DITCH

PROPOSED
CULVERT

- N. 22° 52'
- R = 250.00'
- N. 26° 51'
- N. 28° 12'
- N. 66° 09'
- N. 72° 09'
- N. 80° 41'
- N. 72° 09'

B₂

RURAL ZONE

COCKE LEE FAMILY INC.

L 1091 F 476

OWNER & DEVELOPER

GARRY M.

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

Howard County Health Department
 Bureau of Environmental Health
 3525-H Ellicott Mills Drive
 Court House Square
 Ellicott City, Md. 21043
 461-9933

New Installation Replacement
 Receipt # 38894
 Date 3/10/87
 Name of Installer J. JOSEPH GATLAND Inc. Telephone 875-2400
 License number 1713
 Certified Well Pump Installer Well Driller Registered Plumber
 Name of Property Owner BARNARD CONST. CO. Telephone 489-7621
 Subdivision MATHIS PROPERTY Lot # 2 Well tag # - - -
 Site Address 12501 BARNARD WAY

Pump Motor Pitless Adapter
 1. Type 1. Horsepower 3/4 1. Make LAVARD
 a. Deep well jet 2. RPM 2. Model # PT800
 b. Shallow well jet 3. Voltage 3. Depth 42"
 c. Submersible a. 110
 2. Make Gould b. 220
 3. Model # 7EH07412
 4. Capacity 7 GPM
 5. Pump exceeds well capacity Yes No
 6. If Yes, is low pressure cutoff switch installed? Yes No
 7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors Cable guards Other

Tank Piping Well data
 1. Capacity 42 gal 1. Type PLASTIC 1. Depth ft.
 2. Pressure relief 2. Size 1" 2. Yield GPM
 valve? 75 PSI 3. NSF and/or BOCA Code approved NSF 3. Static water level ft.
 4. Depth of supply line 42" 4. Will water supply be disinfected by installer?

3-6-87 PITLESS AT 48" below GRADE; WELL LINE 38-50" below GRADE; - HOUSE WORK NOT COMPLETE SAG

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant: [Signature]
 Date: 3/4/87

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.