

1/16/01 Layout 1pm
 1/17/02 Follow Up 3:00
 1/22/02 NOON
 5/28/02 3:00 Pump Test
 5/29/02 Pump 10:00 Re-Test

ISSUE DATE: 11/14/2001

P 516415-B

APPROVAL DATE: 5/29/02

A 49067-A

**PERMIT
 INDEXED**

**ON-SITE SEWAGE DISPOSAL SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 BUREAU OF ENVIRONMENTAL HEALTH**

Jack Fyock Septic Service IS PERMITTED TO INSTALL ALTER

ADDRESS: 13775 Triadelphia Rd., Glenelg PHONE NUMBER: 410-988-9270

SUBDIVISION: Walnut Springs LOT NUMBER: 21

ADDRESS: 1213 Emmaus Road PROPERTY OWNER: Mal Ja Baek

SEPTIC TANK CAPACITY (GALLONS): 1250

PUMP CHAMBER CAPACITY (GALLONS): ~~1250~~ 1250

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: ~~210~~ 210

LINEAR FEET OF TRENCH REQUIRED: ~~280~~ 280

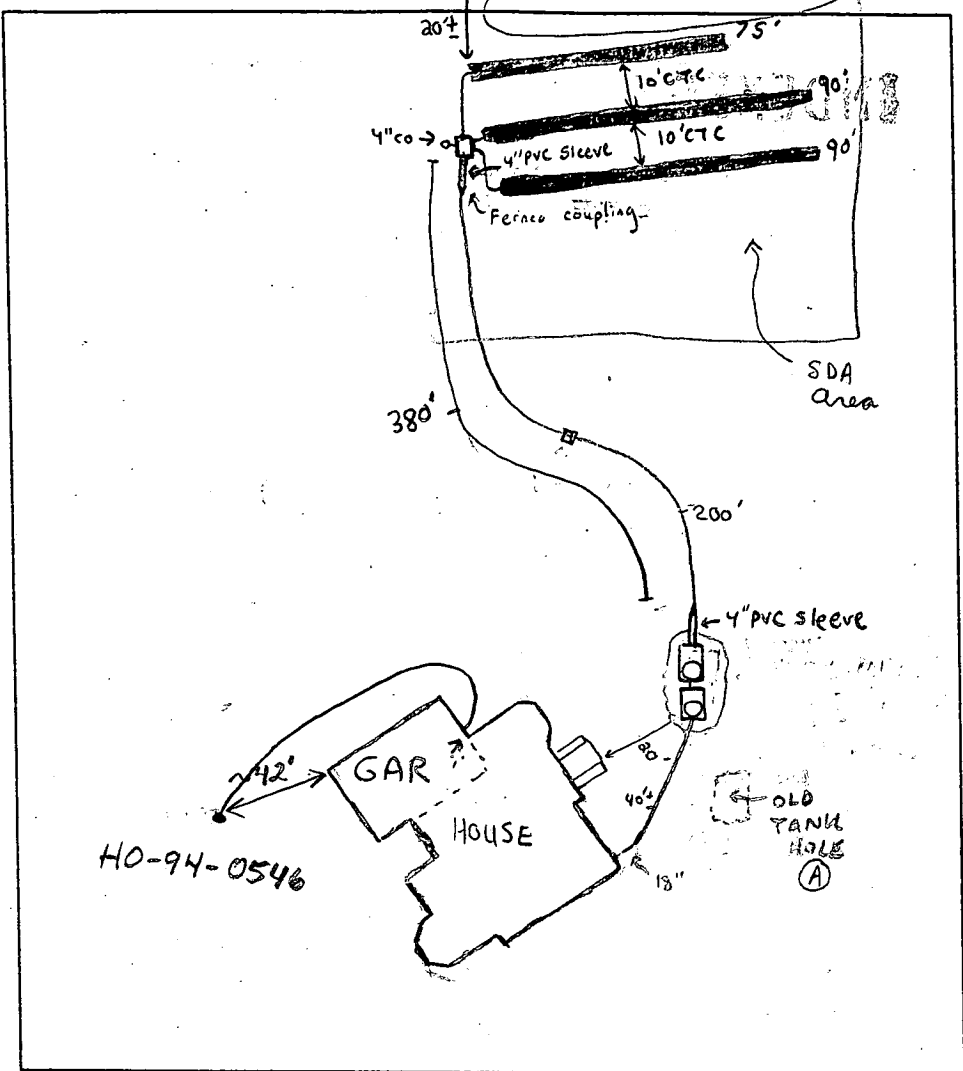
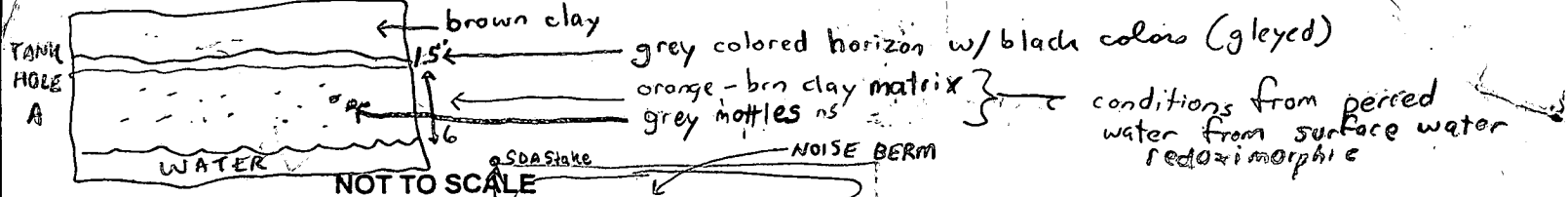
TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 4.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Starting from the right-rear lot corner, place the distribution box 105 feet down the rear lot line (location is off the lot.) as seen when facing the lot from Emmaus Road. Run trenches along contour off the lot onto Preservation Parcel B.
NOTES:	

PLANS APPROVED: Amy McMillen 6/11/01 OK (BB) DATE: 6/9/01

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
 RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
 CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

A 49067-A



TRENCH DATA	
TRENCH WIDTH	3'
TRENCH INLET DEPTH	4'
TRENCH BOTTOM DEPTH	6'
DEPTH OF STONE	2'
NUMBER OF TRENCHES	3
TOTAL TRENCH LENGTH	255' OR
ABSORBENT AREA	765 ft ²
DISTRIBUTION BOX LEVEL	✓
BAFFLE IN DISTRIBUTION BOX	NA

SEPTIC TANK DATA	
SEPTIC TANK	1250 TS GALLONS
MANHOLE RISER	Front - sealed w/ Tar
6 INCH INSPECTION PORT	NA
PUMP CHAMBER DATA	
PUMP CHAMBER GALLONS	1250 TS
MANHOLE RISER	Front - sealed w/ Tar
ALARM	Functional
PUMP PERFORMANCE TEST	OK

Emmaus Road

PRE-CONSTRUCTION INSPECTION: 1/16/02 First trench to be placed as high as possible in easement - will cut into part of noise berm. This inspection comments: will insure at least 1 repair before a system has to be installed in noise berm. Trenches 10' center to center. (BB)

1/17/02 - TANK HOLE DUG^(A), WATER AT 6-7', MOTTLING INDICATING REDOXIMORPHIC CONDITIONS AT 2' & BELOW OBSERVED - (SRK) 1/18/02 - 2ND TANK HOLE DUG AT HIGHER & SHALLOWER LOCATION (SEE SOIL PROFILE ON OTHER SHEET & PICTURES) OK TO SET TANKS IN THIS LOCATION w/ LID NO DEEPER THAN 65", ALL OPENINGS TO BE SEALED TO TANK (TARRED)

CONTRACTOR TO ALSO CUT SWALE & GRADE TO DIVERT WATER AROUND & AWAY FROM TANKS TANKS SET, SEAM LOCATION OK (HIGH ENOUGH ABOVE MOTTLES), OK TO COVER TANKS & TOP TRENCH

INSPECTOR [Signature] DATE SYSTEM APPROVED 5/29/02

- 1/22/02 - OK TO COVER ALL WORK, PUMP & ALARM TEST STILL NEEDED (SRK)
- 5/28/02 Pump test failed, pump appears to be too small. Alarm box not hooked up (SRK)
- 5/29/02 D.B dug up, Pump test OK Alarm OK (SRK)

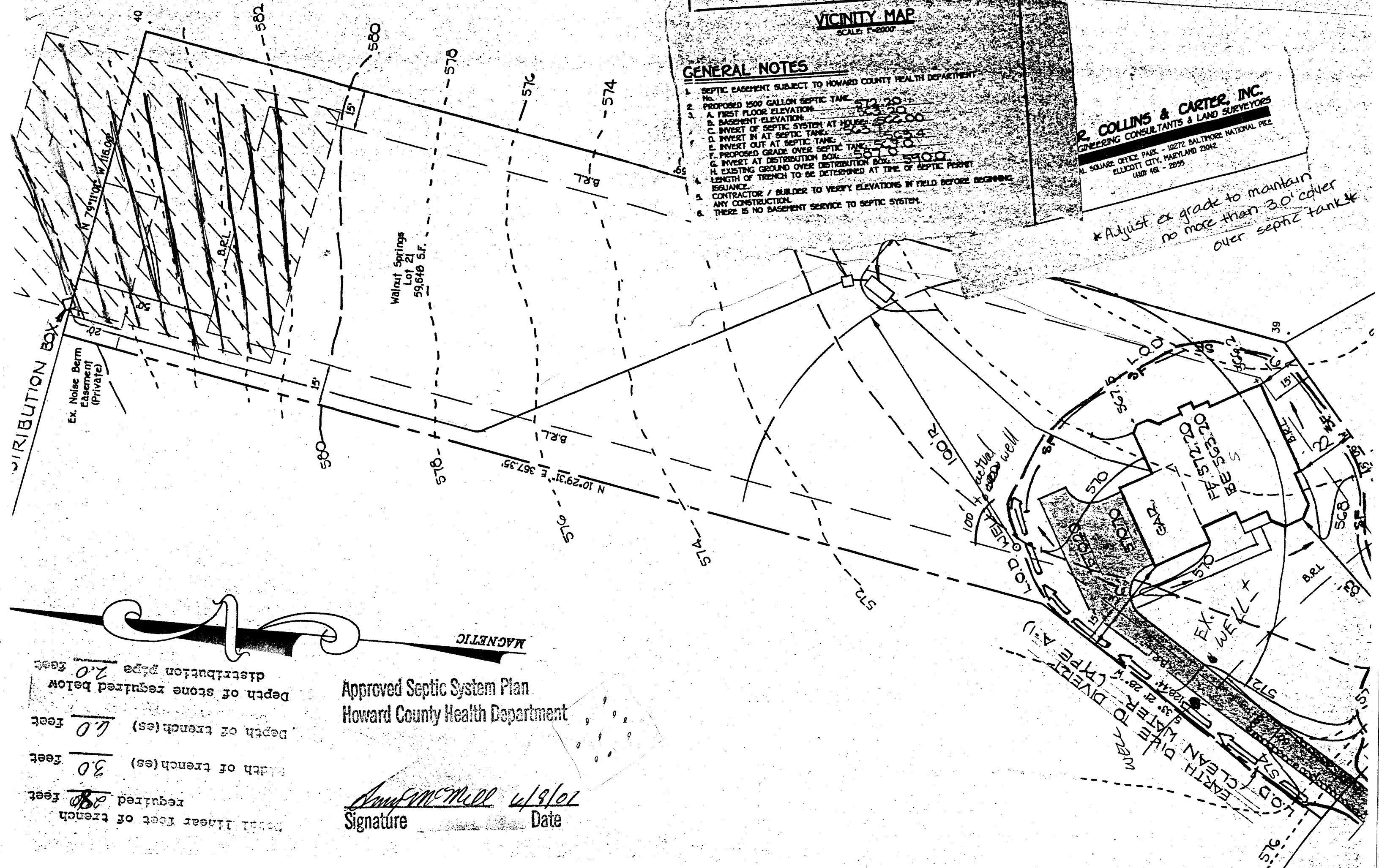
VICINITY MAP
SCALE 1"=200'

GENERAL NOTES

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT
2. No. _____
3. PROPOSED 1500 GALLON SEPTIC TANK: 570.20
4. A. FIRST FLOOR ELEVATION: 523.20
5. B. BASEMENT ELEVATION: 522.00
6. C. INVERT OF SEPTIC SYSTEM AT HOUSE: 523.00
7. D. INVERT IN AT SEPTIC TANK: 523.50
8. E. INVERT OUT AT SEPTIC TANK: 523.50
9. F. PROPOSED GRADE OVER SEPTIC TANK: 523.00
10. G. INVERT AT DISTRIBUTION BOX: 523.00
11. H. EXISTING GROUND OVER DISTRIBUTION BOX: 540.00
12. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
13. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
14. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.

R. COLLINS & CARTER, INC.
ENGINEERING CONSULTANTS & LAND SURVEYORS
N. SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 481-2855

Adjust ex grade to maintain no more than 3.0' cover over septic tank



Total linear feet of trench	880	feet
depth of trench(es)	3.0	feet
depth of trench(es)	4.0	feet
depth of stone required below distribution pipe	2.0	feet

Approved Septic System Plan
Howard County Health Department

Amund McMill 10/18/01
Signature Date

C1 2744 SEQUENCE NO. (MDE USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN CQLS: 3-6 ON ALL CARDS)

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 **A49067A**

ST/CO USE ONLY
 DATE RECEIVED

DATE WELL COMPLETED
072495

Depth of Well
480
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
H0-94-0546

OWNER **Schroyer**
 STREET OR RFD **Emmas Rd** TOWN **Lisbon**
 SUBDIVISION **WALNUT SPRINGS** SECTION _____ LOT **21**

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	66	
Blue Rock	66	480	

500' dry well filled in with cement + drilling materials

GROUTING RECORD
 WELL HAS BEEN GROUTED: (Circle Appropriate Box)
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT **CM** BENTONITE CLAY **BC**

NO. OF BAGS **27** NO. OF POUNDS **2538**
 GALLONS OF WATER **162**
 DEPTH OF GROUT SEAL (to nearest foot)
 from **0** ft. to **65** ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
ST STEEL **CO** CONCRETE
PL PLASTIC **OT** OTHER

MAIN CASING TYPE
 Nominal diameter top (main) casing (nearest inch!)
 Total depth of main casing (nearest foot)
ST **6** **72**

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

NUMBER OF UNSUCCESSFUL WELLS: **1**
 WELL HYDROFRACTURED: **Y** **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.

TYPE: MWD/MSD/MGD **24**
 DRILLERS LIC. NO. **Joseph Mayne**

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. _____

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

DEPTH (nearest ft.)
H0 **69** **480**

GRAVEL PACK
 IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

C3

PUMPING TEST
 HOURS PUMPED (nearest hour) **3**

PUMPING RATE (gal. per min.) **007.5**

METHOD USED TO MEASURE PUMPING RATE **Bucket**

WATER LEVEL (distance from land surface)
 BEFORE PUMPING **33** ft.
 WHEN PUMPING **260** ft.

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 YES **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)
+ above } LAND SURFACE
- below } **3** (nearest foot)

LOCATION OF WELL ON LOT
 SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

See attached Well locations

B 1 5511	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER 40-94-0546 <small>70 fill in this form completely 79</small>
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OWNER INFORMATION

Date Received (APA) **052395**

Schroyer CHARLES
Last Name Owner First Name

1245 MORGAN STATION RD
Street or RFD

WOODBINE MD 21797
Town State Zip

DRILLER INFORMATION MSD/MGD/MWD

Driller's Name **Joseph L. Mayne** License No. **24**

Firm Name **Joseph L. Mayne Well Drilling**

Address: **5512 Ridge Rd. Mt. Airy MD 21771**

Signature **Joseph L. Mayne** Date **5/23/95**

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500**

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 **260** FEET

APPROXIMATE DIAMETER OF WELL **6** 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-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

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 (OEP USE ONLY)

APPROX. PERMIT NUMBER **GAP**

FORCE **MIR** WRITE INITIALS IN BOX PERMIT No. **40-94-0546**

SPECIAL CONDITIONS

NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =

LOCATION OF WELL

HOWARD COUNTY

WALNUT SPRINGS SUBDIVISION

SECTION _____ LOT **21**

LISBON NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) **1** MI

Emmatus RD. NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH WEST EAST SOUTH

DISTANCE FROM ROAD **120** FT

TAX MAP: _____ BLK: _____ PARCEL _____

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME **A49067A** COUNTY NO.

STATE SIGNATURE **Mark E. Luffin** DATE ISSUED **6/2/96** EXP. DATE _____

NORTH GRID **547000** EAST GRID **0786000**

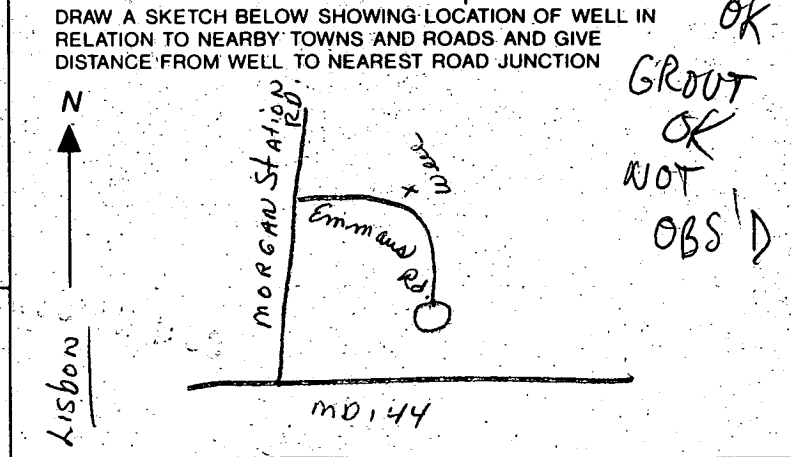
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- Well
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

7806 **547**



GROUT OK NOT OBS'D

MD 144

APPLICATION

PERCOLATION TESTING

A 49067A
P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____
DATE 3/16/93

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER CHARLES SCHROYER

ADDRESS 1245 MORGAN STATION RD. PHONE 301 854 6217

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 21 ON SIGNED PERC PLAT

ROAD AND DESCRIPTION EAST OF MORGAN STATION RD. SOUTH OF R. 20

TAX MAP 8 PARCEL # 313

SIZE OF LOT ± 53,000 sq TYPE BLDG. SINGLE FAMILY
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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.

[Signature]
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING HOLD FOR PLAT-PERC OK MR 6/3/93

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

A49067A

COUNTY #

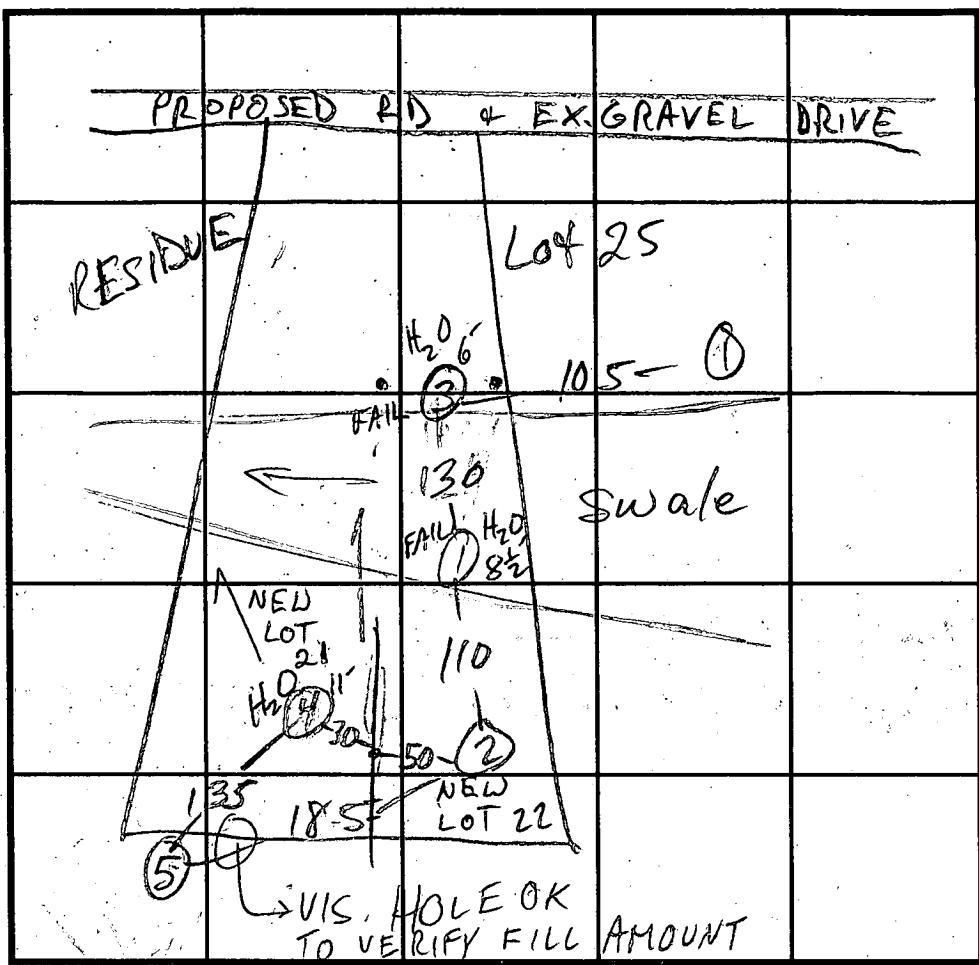
Lot 24

SOIL PROFILE

0' (2)
brn red saclm
4 1/2' tan saclm
10-15% saprolite frags

12' (3)
heavy brn yel clay
6 3/4' WATER
8 1/2'

(5)
orig brn clay & clm
4 1/2' 1 piece black plastic, 1 piece cable
5 1/2' brn saclm
12' 20-25% frags



SOIL PROFILE (4)

0' red brn saclm

5' red brn saclm
10-20% frags

11' WATER

I-70 INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/14/93	2S	5'9"	10:33	10:36	10:36	10:41	5
	2V	12					
	3V	8 1/2	H ₂ O @ 6' 3"		FAIL		
5/4/93	1V	10'	H ₂ O @ 9 1/2'		SEEPING @ 8 1/2'		FAIL
5/14/93	4S	5 1/2'	12:47	1:02	12:08	12:18	10
	4V	11 1/2'	H ₂ O @ 11'				
	5S	5'9"	12:59	1:05	1:05	1:12	7
	5V	12 1/2'	see profile				

REMARKS HOLES (1)-(3) PER RED LINE PLAN ±; USE (2)-(4)-(5)

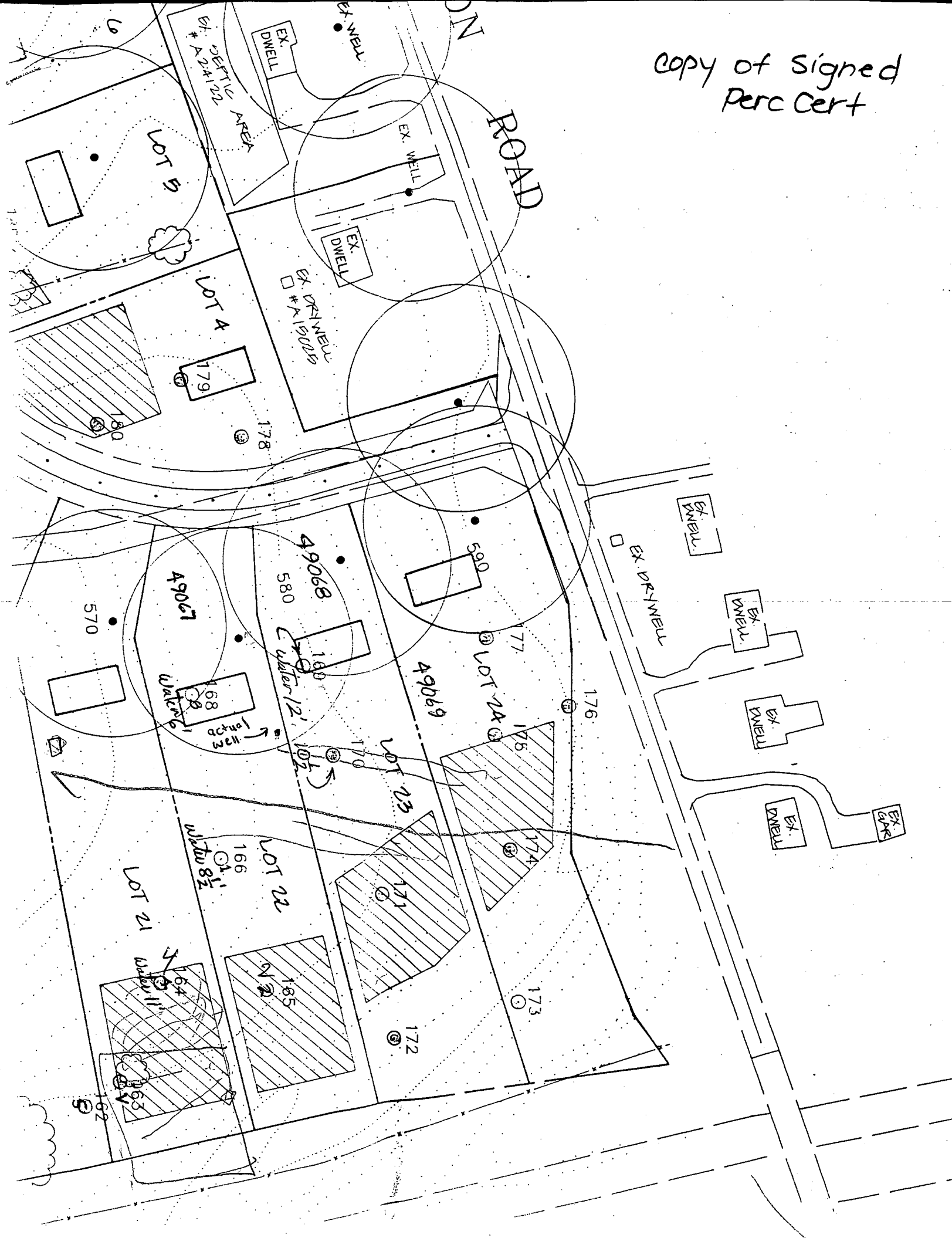
TYPE OF SOIL _____

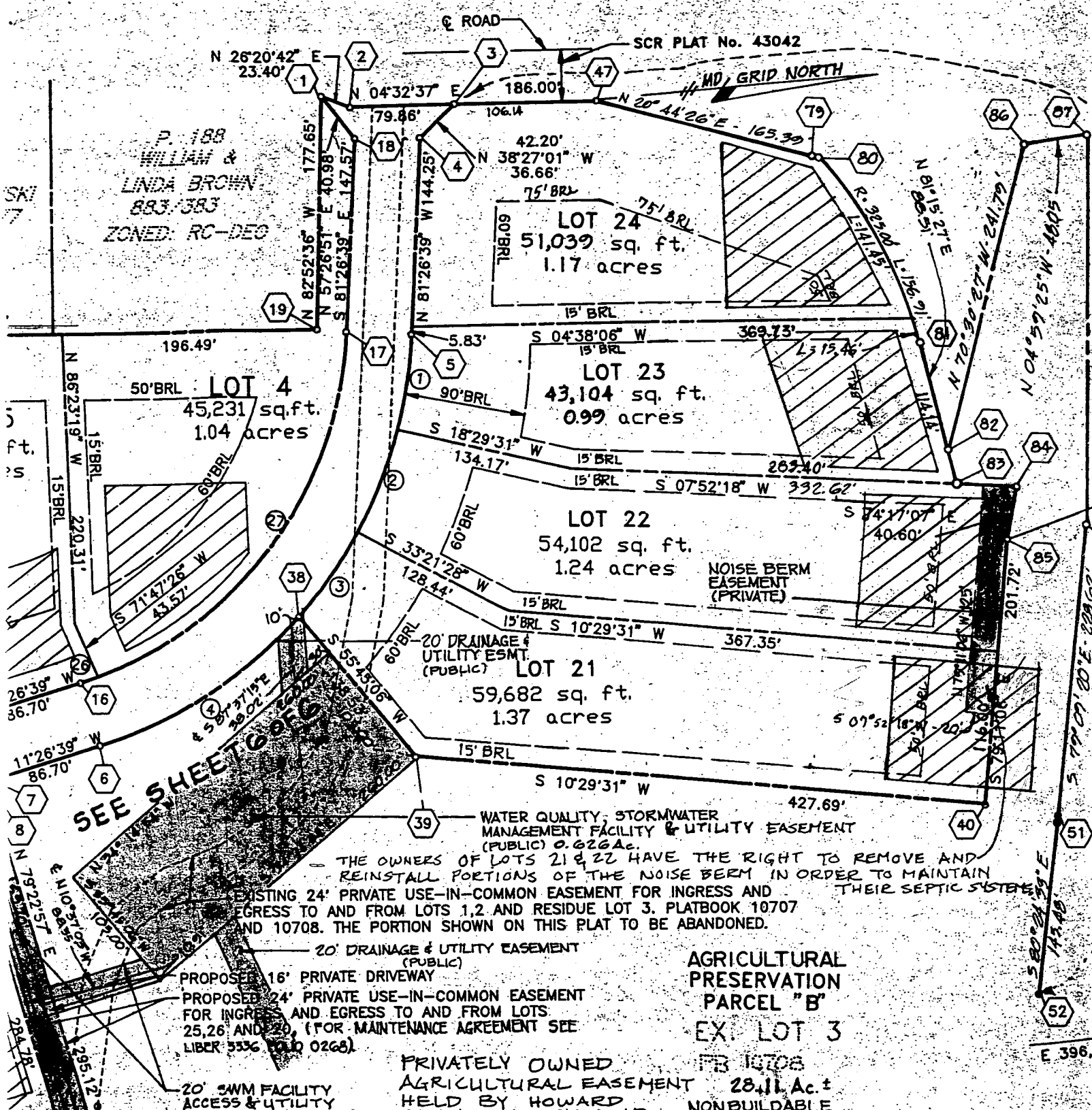
TESTED BY M. Rifkin ALSO PRESENT Fyock crew

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 7 TRENCH WIDTH 3'

INLET DEPTH 4 MAXIMUM BOTTOM DEPTH 6 SQ. FT./BEDROOM 180

Copy of Signed Perc Cert





- THE OWNERS OF LOTS 21 & 22 HAVE THE RIGHT TO REMOVE AND REINSTALL PORTIONS OF THE NOISE BERM IN ORDER TO MAINTAIN THEIR SEPTIC SYSTEMS.
 - EXISTING 24' PRIVATE USE-IN-COMMON EASEMENT FOR INGRESS AND EGRESS TO AND FROM LOTS 1, 2 AND RESIDUE LOT 3, PLATBOOK 10707 AND 10708. THE PORTION SHOWN ON THIS PLAT TO BE ABANDONED.

F-95-23
 SIGNED

THE REQUIREMENTS SECTION 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED OF MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

William G. Hartel, Professional Land Surveyor, Md. No. 9436
 Date

Charles F. Schuyler
 Signature of owner
 10-27-9

WALNUT SPRINGS LOT 21

SEPTIC & PUMP TANK HOLE = Perched Water Table

MARYLAND DEPT. OF THE ENVIRONMENT ONSITE SEWAGE DISPOSAL SYSTEM SITE EVALUATION REPORT SOIL PROFILE DESCRIPTION							FILE NO. A #49067A MD. GRID: TAX MAP/B/P: SUBDIVISION: Walnut Springs DATE: 1/18/02 BY: RSP & S&C (Steven R. King & Ronald P. Pibley)		
LOT 21 SECTION Walnut Springs		DEPTH	TEXTURE	MATRIX COLOR	MOTTLES DESCRIPTION	STRUCTURE	CONSISTENCE	%ROCK BY VOL.	REMARKS (Caving, moisture, etc.)
HOLE									
0-5"	Fill	clay-lm	10YR5/4	c1f 02d	10YR5/8 10YR5/3-2	None	NA		
5-14"	A ₁	loam	dark brn 7.5YR4/4	None	None	2-(medium-fine)	friable (mfr)		common fine roots (cf roots)
14"-18"	A ₂	loam	grey-brn 10YR5/2	f1f c-m	5YR5/8 black manganese faces	2f sbk	mfr		somewhat cemented, slightly friable mottles on ped faces & interior peds
18"-20"	B ₁ ₂	silt-lm	10YR6/2	c1d	5YR4/6	2f pr-sbk	mfr		common fine pores, worm holes " " roots, nk clay films
20"-22.5"	B ₂ ₂	loam	2.5Y4/0 (bluish grn- grey)	c1A	5YR4/6	2 (medium) sbk	mfr		mottles on ped faces & interiors common very fine pores & worm holes
22.5"-24"	B ₃ ₂	heavy silt loam	10YR5/1	f1f	5YR4/6	2 (medium) sbk	mfr		" " "
24"-26"	B ₄ ₂	clay-lm to silty-clm	2.5Y6/3 (light green)	m2A	7.5YR6/8	2cpt	mfi	trace angular qtz gravel	few small pores, 2 mfk (medium thickness clay films) " fine roots
26"-34"	B ₅ ₂	"	2.5Y6/3	c1d	7.5YR6/8	"	mfi	"	"
34"-40"	B _x	CL	10YR7/1-8/1	c2p	7.5YR5/8	2cpr	mfi	trace	Moist dense
40"-60"	B _{Cx}	CL-LL	7.5YR6/8-5/8	m2d m2d c2d	7.5YR5/8 10YR7/1 Alk Mn	2cpr-platey or m	mfi-mfr	trace	v. moist
60"+	C	SL	Mix Tan/greys + red	c3p red brn	C=	m	mfr		wet - v. moist
Slope%-			EL.(ft)-	Chroma 2-	Least Permeable Layers-				
Landscape Position-			Water BLS-	Limiting Zones-					
Additional Remarks-									

3cpr sm
↑
concrete

Center of Drainage Swale

Mottle Descriptions
 f = few < 2%
 c = common 2-22%
 m = many 22-50%
 c = with
 1 = fine
 2 = medium
 3 = large
 f = faint
 d = distinct
 p = prominent

Structure
 1 = difficult structure to visibly see
 2 = typically visible w/soil probe
 3 = very clear
 f = fine
 m = massive

Consistence
 mfr = friable
 mfi = firm
 mvfr = very friable

Remarks
 nk = thin clay film
 mk = moderate thickness clay film
 k = clay film

S
S
K



TANK HOLE

1213 Emmaus Rd



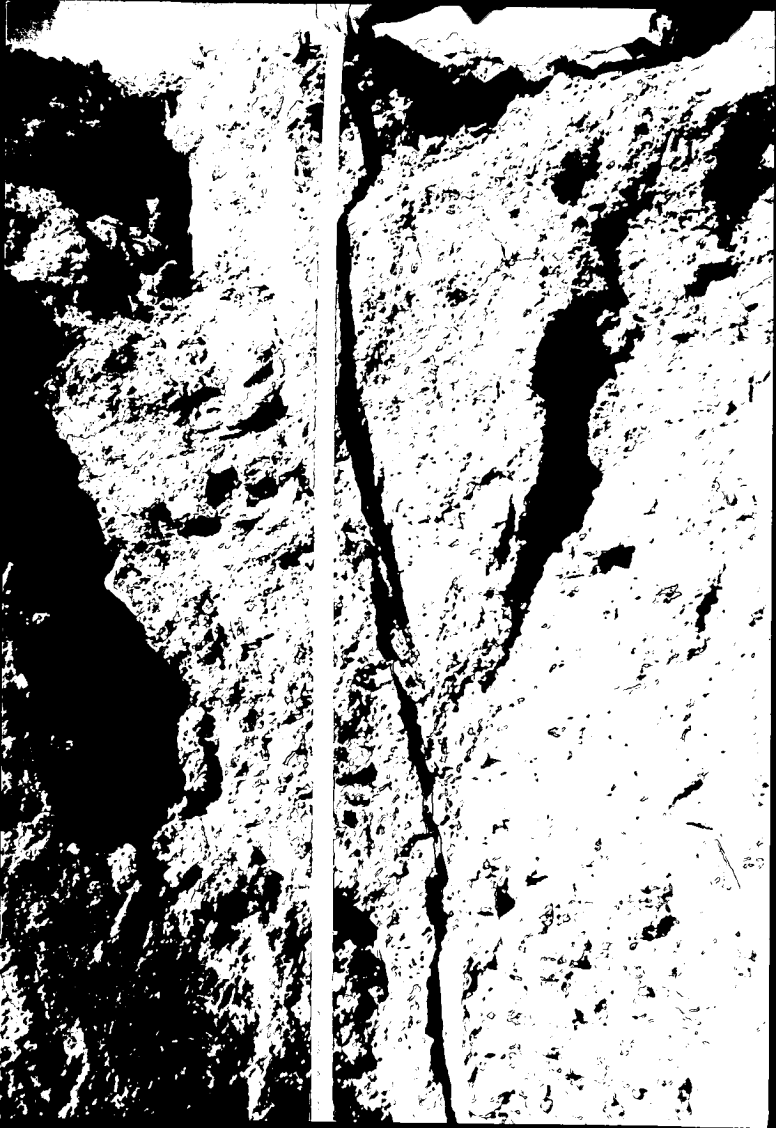
TANK HOLE

1213 Emmaus Rd



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