

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 5th

05-387183

INDEX

DATE 6/16/81

510

*7/29/81  
P.M. please*

Approved: 7/29/81  
*Log Kill*  
P 31440  
A 27905

Jack Fyock IS PERMITTED TO INSTALL X ALTER

ADDRESS 13775 Triadelphia Road, Glenelg, Md. 21737 PHONE 988-9270

SUBDIVISION Chris Mar Estates, ROAD 13437 Highland Rd. LOT 3 Sec.2

PROPERTY OWNER Charles E. Johnson

ADDRESS 1013 ~~Water~~ <sup>Ward</sup> Street, Laurel, Maryland 20810

SPECIFICATIONS 3 Bedrooms

SEPTIC TANK CAPACITY 1000 GALLONS

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

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

SEEPAGE PITS X ABSORBENT SIDE-WALL AREA 170 SQ. FT. per bedroom

INLET PIPE 3 FT. BELOW ORIGINAL GRADE. MAXIMUM DEPTH 10 FT. BELOW ORIGINAL GRADE

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

LOCATE DISPOSAL AREA XXX FT. FROM XXX LOT LINE AND \_\_\_\_\_ FT. FROM \_\_\_\_\_ LOT LINE AS SEEN WHEN FACING LOT FROM 9

*3-7-05  
4 bdrm supported  
by existing trench  
KN*

DRY WELL AND TRENCH

Place the drywell 140 ft. from the left (267.30 ft. long) side line and 175 ft. from the near (583.44 ft. long) property line as seen when facing the property line from Highland Road. Start the trench after a 5 foot earth buffer with the drywell and proceed to dig it on level ground the necessary distance. Call For inspection of trench before gravel is installed

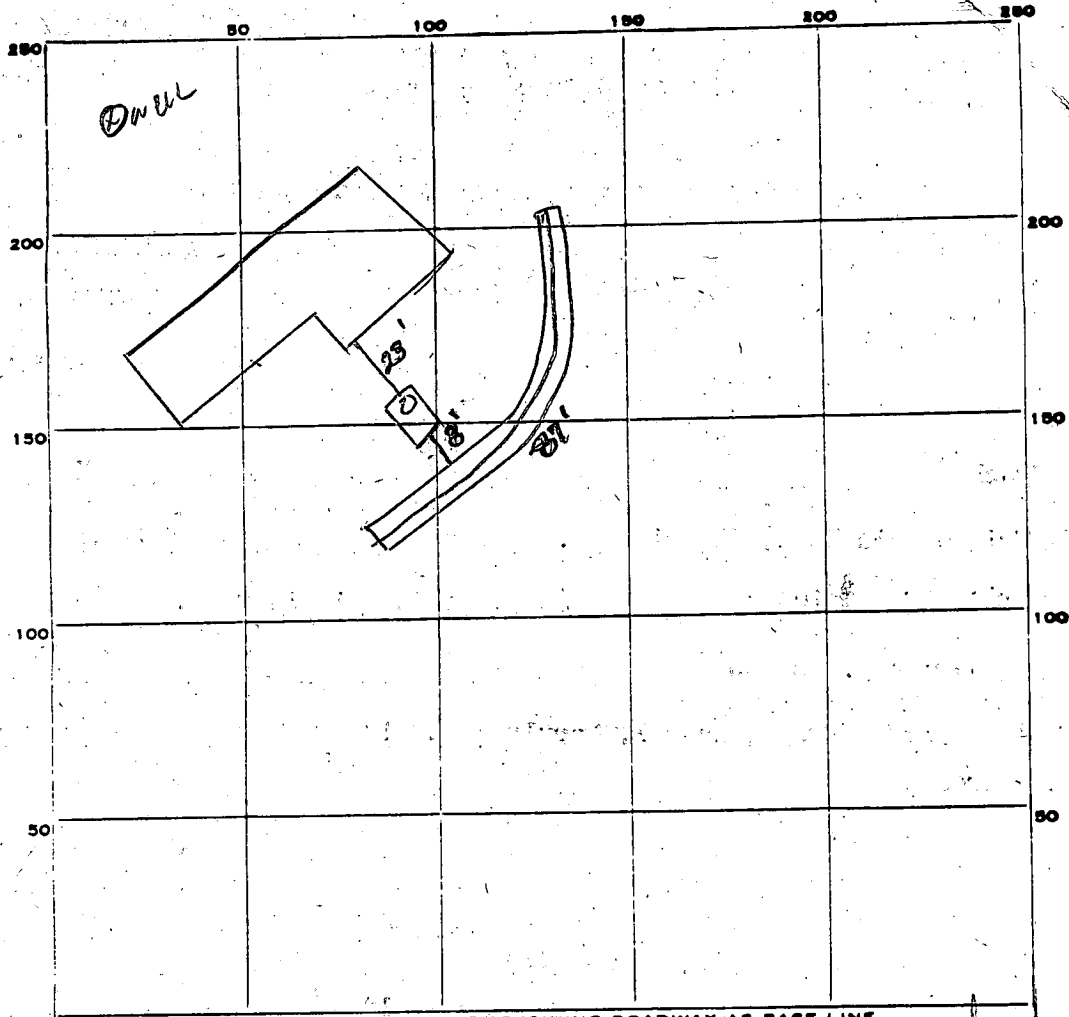
*7/27/81 O.K. to dig 90 ft long trench, inlet 3ft. with 7ft of gravel under pipe in area of highest perc hole S.S.*

PLANS APPROVED BY Frank Skinner DATE 4/26/79

- 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 27905



PERMIT CARD

Highland RD

SEPTIC TANK, LEVEL

CLEANOUTS

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

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

GRAVEL DEPTH 7 IN. TOTAL LENGTH 87 FT.

NUMBER OF TRENCHES 1

$\frac{1}{2}$  SIDEWALL TOTAL BOTTOM AREA 509

SEEPAGE PITS, INSIDE DIAMETER \_\_\_\_\_ FT. DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS

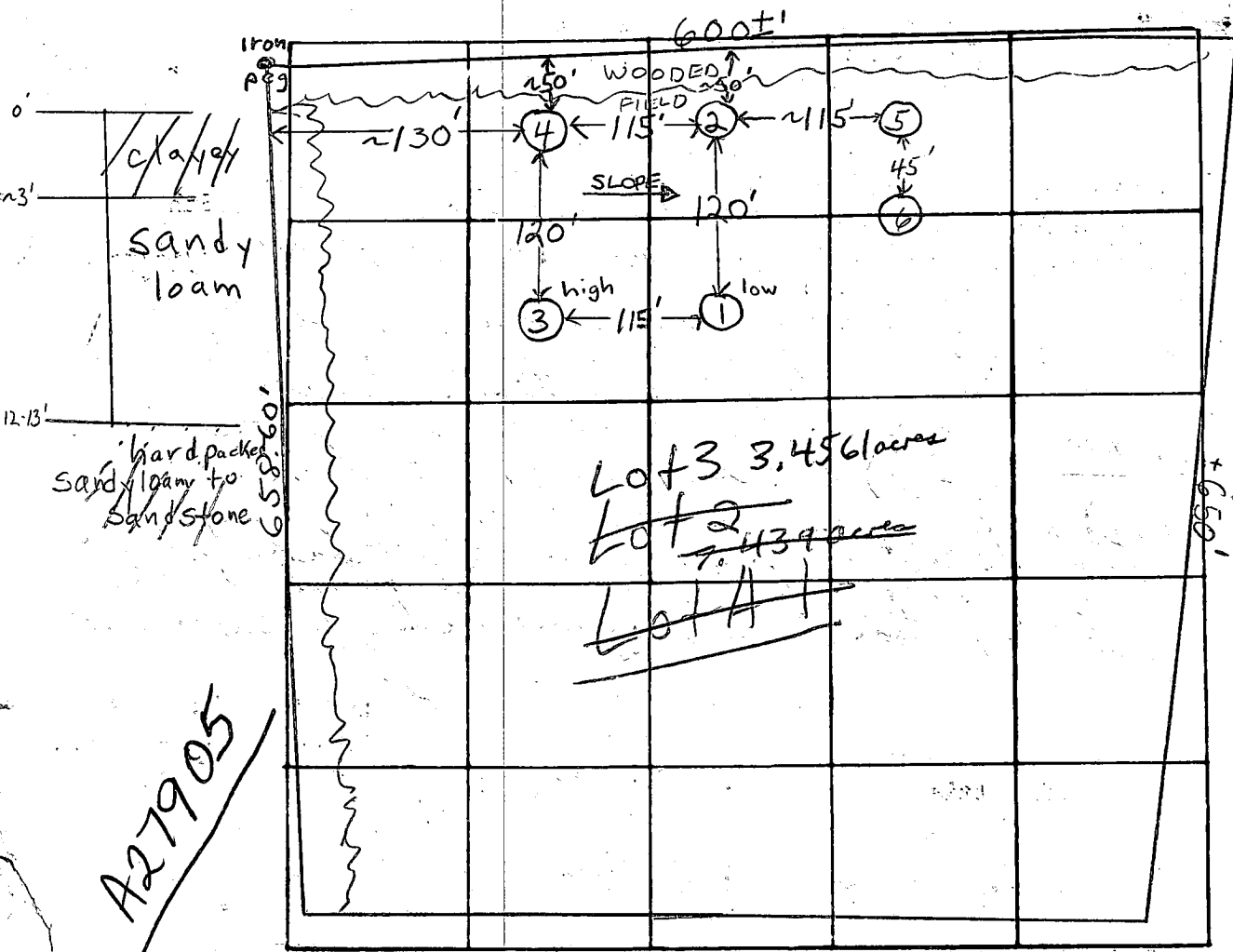
7/28/81 House moved 35' into edge of easement losing 10'-35' of easement. Trench partially gravelled upon arrival not feasible to move, OK to gravel trench SK  
7/29/81 Cover all work SK

DATE SYSTEM APPROVED

7/29/81

INSPECTOR

Stephen H Kill



A27905

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

**HIGHLAND ROAD**

DATE	TEST NO.	DEPTH	PRE-WET		TEST		DROP	TIME
			START	STOP	START	STOP		
5/18/78	1	3'	10:07	pulled	peg 10:20	no movement		FAILS
	1A low	13'	10:08	10:11	10:11	10:18		7 min
	2	3'	10:14	10:25	10:25	10:40		15 min
	2A	13'	10:26	pulled	peg at 10:45	1/4" drop		FAILS
	1B	4'	10:55	pulled	peg 11:21	1/4" drop		FAILS
	3 high	3'	11:20	11:33	11:33	11:57		24 min
	3A	12 1/2'	11:27	11:33	11:33	11:44		11 min
	4	13'	Clayey to ~4 1/2'; Sandy loam below					
	5	?	Hole covered, not seen open					
	6	9'	Clayey-sandy loam mixed with rock 2-9'					
	2B	11 1/2'	11:02	11:05	11:05	11:14		9 min
REMARKS	1C	5'	11:41	11:47	11:47	11:55		8 min

TYPE OF SOIL Sandy loam below top 2-4' clayey soil

TESTED BY F.S.

ALSO PRESENT: P. Kottist

Ubbo VanderValk

Date Received (WRA use only) **Dec 23 1980** DATE WELL COMPLETED  
 Depth of Well **185** (TO NEAREST FOOT)  
 PERMIT NO. FROM "PERMIT TO DRILL WELL" **MD-23-3760**

OWNER **Johnson** **CHARLES E.**  
 STREET OR RFD **1041 WARD ST.** TOWN **LAUREL MD.**  
 SUBDIVISION **Chris Man Est** SECTION **2** LOT **3**

**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	
Top Soil	0	2	
Sandy	2	30	
Sand Stone	30	40	
Micka	40	80	
Sand Stone	80	90	✓
Micka	90	185	

**GROUTING RECORD**  
 WELL HAS BEEN GROUTED (Circle Appropriate Box)  Y  N  
 TYPE OF GROUTING MATERIAL  
 CEMENT  CM BENTONITE CLAY  BC  
 NO. OF BAGS **10** NO. OF POUNDS **1000**  
 GALLONS OF WATER **60**  
 DEPTH OF GROUT SEAL (to nearest foot) from **0** ft. to **38** ft.

**CASING RECORD**  
 casing types insert appropriate code below  
 ST STEEL  CO CONCRETE  
 PL PLASTIC  OT OTHER  
 MAIN CASING TYPE  S  T  
 Nominal diameter top(main)casing (nearest inch) **6**  
 Total depth of main casing (nearest foot) **42**

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

**SCREEN RECORD**  
 screen type or openhole insert appropriate code below  
 ST STEEL  BR BRASS  HO OPEN HOLE  
 PL PLASTIC  OT OTHER

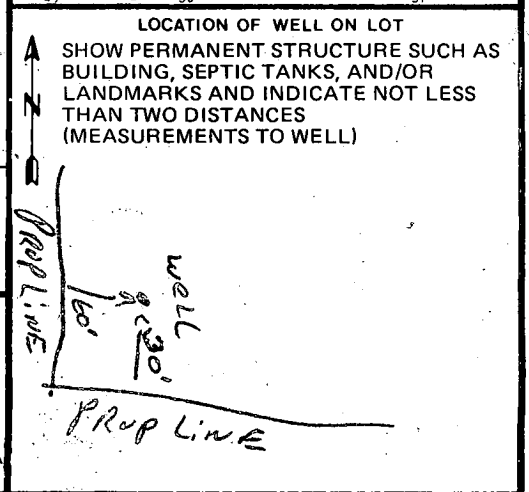
**C2** Seq. no. 1  
 DEPTH (nearest ft.)  HO **40** **185**  
 E A C H S C R E E N  
 1  HO **40** **185**  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_  
 SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
 DIAMETER OF SCREEN (NEAREST INCH) \_\_\_\_\_

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   
 TELESCOPE CASING  LOG INDICATOR  OTHER DATA

**C 3** (seq no) 1  
**PUMPING TEST**  
 HOURS PUMPED (nearest hour) **6**  
 PUMPING RATE (gal. per min. to nearest gal.) **40**  
 METHOD USED TO MEASURE PUMPING RATE **Bucket**  
 WATER LEVEL (distance from land surface) BEFORE PUMPING **75**  
 WHEN PUMPING **185**  
 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 **2** (nearest foot)



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. **273**  
**Ralph E. Maynard**  
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  
**Ralph E. Maynard**  
 SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee)

**B 1** 5054 SEQUENCE NO. (WRA USE ONLY)

**STATE OF MARYLAND**  
**WATER RESOURCES ADMINISTRATION**  
**TAWES STATE OFFICE BLDG., ANNAPOLIS, MARYLAND 21401**  
**APPLICATION FOR PERMIT TO DRILL WELL**

WRA PERMIT NUMBER HO 73/3760  
 FILE IN THIS FORM COMPLETELY

DATE RECEIVED (WRA USE ONLY) 12-24-80  
9:30 A.

OWNER Johnson Charles E.  
 COL 15 LAST NAME COL 34 FIRST NAME

STREET OR RFD 1041 WARD ST.  
 COL 36 COL 55

POST OFFICE LAMUEL MD  
 COL 57 COL 76

**B 1** CONTINUED **DRILLER INFORMATION**

DATE Dec 1 1980 LICENSE NUMBER 273  
 77 80

FIRST NAME Ralph DRILLER LAST NAME MAVINE

SIGNATURE Ralph MAVINE

**B 3** LOCATION OF WELL

COUNTY Howard (DO NOT ABBREVIATE COUNTY NAME) 21

SUBDIVISION CHRIS MAR EST 23 42

SECTION 2 LOT 2 44 46 48 50

NEAREST TOWN Highland 52 71

MILES FROM TOWN (ENTER 0 IF IN TOWN) 2 MI 76 77 78

**B 2** WELL INFORMATION

MAXIMUM PUMPING RATE (GALLONS PER MINUTE) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GALLONS PER DAY) 500 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

FARMING, AGRICULTURE, IRRIGATION

INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOVERNMENT.

MUNICIPAL WATER SUPPLY } MUST HAVE STATE HEALTH DEPT. APPROVAL

PRIVATE WATER COMPANY }

TEST

**B 4** DIRECTION FROM TOWN (CIRCLE APPROPRIATE BOX)

NORTH  EAST  NE NORTHEAST  SE SOUTHEAST

SOUTH  WEST  NW NORTHWEST  SW SOUTHWEST

NEAR ROAD Highland Rd 8 8 8 8 8 8 8 8

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  NORTH  SOUTH  EAST  WEST 30

DISTANCE FROM ROAD (ENTER DISTANCE AND CIRCLE APPROPRIATE BOX) 600 34 37 38 39

APPROXIMATE DEPTH OF WELL 150 FEET 24 26

APPROXIMATE DIAMETER OF WELL 6 (NEAREST INCH)

METHOD OF DRILLING USED (CIRCLE APPROPRIATE METHOD)

BORED (OR AUGERED)  JETTED  DRIVEN

80-87  AIR-ROTARY  AIR-PERCUSSION  ROTARY (HYDRAULIC ROTARY)

CABLE  REVERSE-ROTARY  DRIVE-POINT

OTHER (DESCRIBE)

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)

NOT TO BE FILLED IN BY DRILLER (WRA USE ONLY)

APPROPRIATION PERMIT NUMBER 54 ENGINEER REVIEW DISTRICT NO. 63

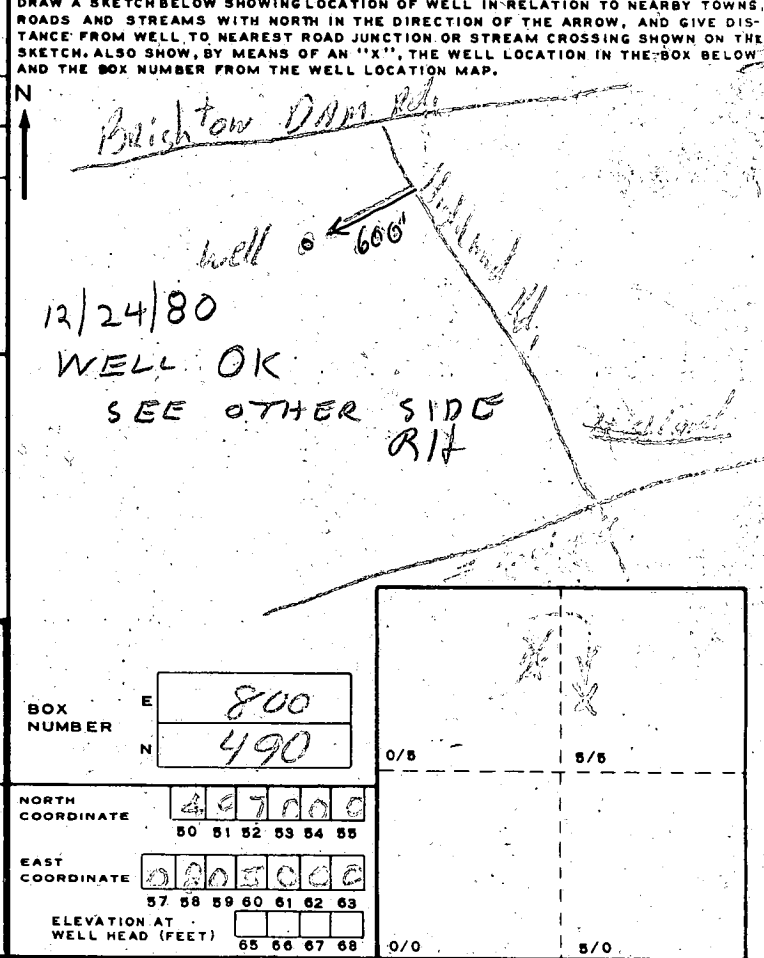
FORCE 67 WRITE INITIALS IN BOX 68 CONDITIONS 69 A E N S G W Q C L U 70 71 72 73 74 75 76 77 78 79

**B 4** CONTINUED **HEALTH DEPARTMENT APPROVAL**

STATE HEALTH (CIRCLE BOX) S COUNTY NAME Howard COUNTY NO. 27705

DATE 12 24 80 APPROVED BY Fred Fromolt

48 Fred Fromolt, Sanitarian



**B 5** SPECIAL CONDITIONS 8-63 (WRA USE ONLY)

1 2 3 (SEQ. NO.) 6

12/24/80

- ① LOCATION OK PER PLAN
- ② ~~4~~ 2 FT CASING WITH 2 FT OUT OF GROUND
- ③ 35 FT OPEN HOLE MEASURED WITH A WEIGHTED STRING
- ④ 11 BAGS
- ⑤ WELL OK

Raymond Hodges

HIGHLAND ROAD

VEHICULAR INGRESS & EGRESS IS RESTRICTED  
R: 2420.00 L: 268.14

R: 1670.00 L: 207.34  
181.33

25' EASEMENT FOR INGRESS & EGRESS TO LOT 4

CHRIS-MAR ESTATES  
SECTION 2  
PLAT NO. 4261

LOT 4  
14.0115 AC.

BUILDING RESTRICTION LINE  
VEHICULAR INGRESS & EGRESS RESTRICTED  
NON-BUILDABLE UNTIL APPROVED BY HOWARD CO. HEALTH DEPT.

LOT 3  
3.4561 AC.

CEPTIC AREA

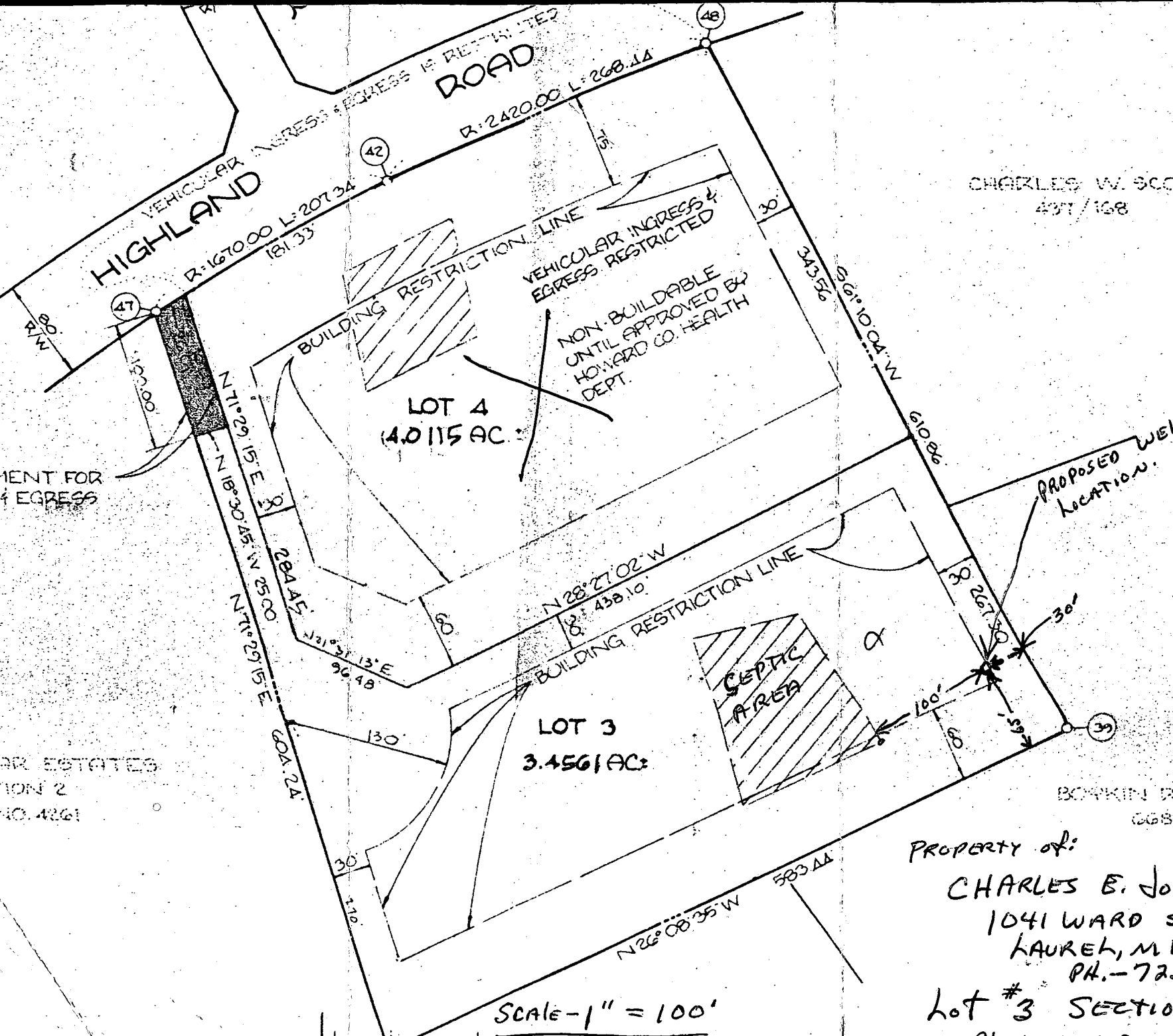
CHARLES W. SCOTT  
491/168

PROPOSED WELL LOCATION

BOWKIN RESOURCES  
068/298

PROPERTY OF:  
CHARLES E. JOHNSON  
1041 WARD ST.  
LAUREL, M.D.  
PH. - 725-1687  
Lot # 3 SECTION 2  
PLAT NO. 4261  
CHRIS-MAR ESTATES

SCALE - 1" = 100'



Lot 1

N 71° 29' 15" E

604.21

S 71° 29' 15" W 284.45

R=1070 L=26.01

HIGHLAND ROAD

2/10/81  
This revised sketch  
O.K. F.S.

S 83.44

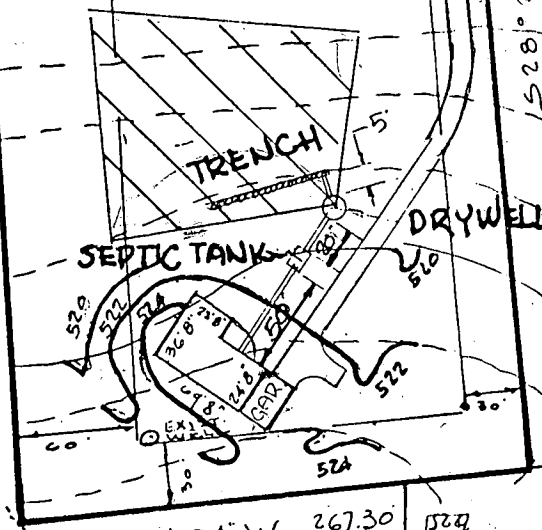
LOT 3  
3.4561 AC

LOT 4

438.10

S 21° 31' 13" W  
96.48

N 26° 08' 35" W



WELL DATA

EX. GR. : 523.0  
FIN. GR. : 523.0

HOUSE

MINIMUM BASEMENT ELEV. : 518.40  
GARAGE ELEV. : 523.17  
FIRST FLOOR ELEV. : 526.40

SEPTIC SYSTEM DATA

N.V. @ HOUSE : ~~517.15~~ 517.15

SEPTIC TANK

EX. GR. : 520.0  
FIN. GR. : 520.0  
INV. IN. : ~~516.55~~ 516.55  
INV. OUT. : ~~516.25~~ 516.25

DRYWELL (10'x10'x10')

EX. GR. : 519.0  
FIN. GR. : 519.0  
INV. IN. : ~~516.00~~ 516.00  
INV. OUT. : ~~516.00~~ 516.00

TRENCH (2' WIDE, 60' LONG)

EX. GR. : 518.0  
FIN. GR. : 518.0  
INV. IN. : ~~515.00~~ 515.00  
TOP OF STONE : ~~515.50~~ 515.50  
BOTTOM OF STONE : ~~508.00~~ 508.00

LOT 3 CHRIS-MAR ESTATES

PLAT OF LOTS 3 & 4 SECTION 2 RESUB. OF LOT 2  
PLAT # 4769

5th ELECTION DIST. HOWARD CO. MD

SCALE 1" = 100'

1/19/1981  
REVISED: 2/6/81  
PER MR. SKINNER'S  
INSTRUCTIONS

HUDKINS ASSOCIATES, INC.  
SUITE 201, FORT BELLEVILLE  
5485 H. H. HARTMAN ROAD  
COLUMBIA, MD 21014