

11/7/85
3PM

I.C.O.P. = 4/27/86

11-7-85
approved
S. Abel

PERMIT

P 36095
A 34785

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH*

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
992-2330

03-308901
INDEXED

ELLICOTT CITY
DISTRICT 3rd
DATE 10/15/85

Charles A. Klein & Sons, Inc. IS PERMITTED TO INSTALL ALTER
ADDRESS 10514 Mawriottsville Rd, Randallstown MD 21133 PHONE 922 4660
SUBDIVISION Boswell Property ROAD 11795 Route 99 - LOT 13
PROPERTY OWNER Alvin Starr - 442-5810
ADDRESS 11795 Md Rte. 99 Mawriottsville Md. 21104

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

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 1500 GALLONS NUMBER OF BEDROOMS 3

TRENCHES - 193 sq. ft. per bedroom. Trench to be 3 feet wide. Inlet 2.5 feet below original grade. Bottom maximum depth 4 feet below original grade. Effective area begins at 2.5 feet below original grade. 1.5 feet of stone below distribution pipe.

LOCATION: Start the first trench 155 feet from the front lot line and 30 feet from the left lot line as seen when facing lot from Route 99. Run trenches on contour toward the right lot line as seen when facing lot from Route 99. Separate trenches by 10 feet.

NOTE: No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. Trenches to be installed on level ground. 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.

11-6-85 W.P.I. PRESS INSTALLED 48" BELOW GRADE; WELL LINE 48-54" BELOW GRADE; NO PRESSURE TANK INSTALLED. S. ABEL

PLANS APPROVED BY Sid Abel DATE 10/15/85

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 AND AFTER PLACING GRAVEL IN TRENCH.

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 THREE YEARS.

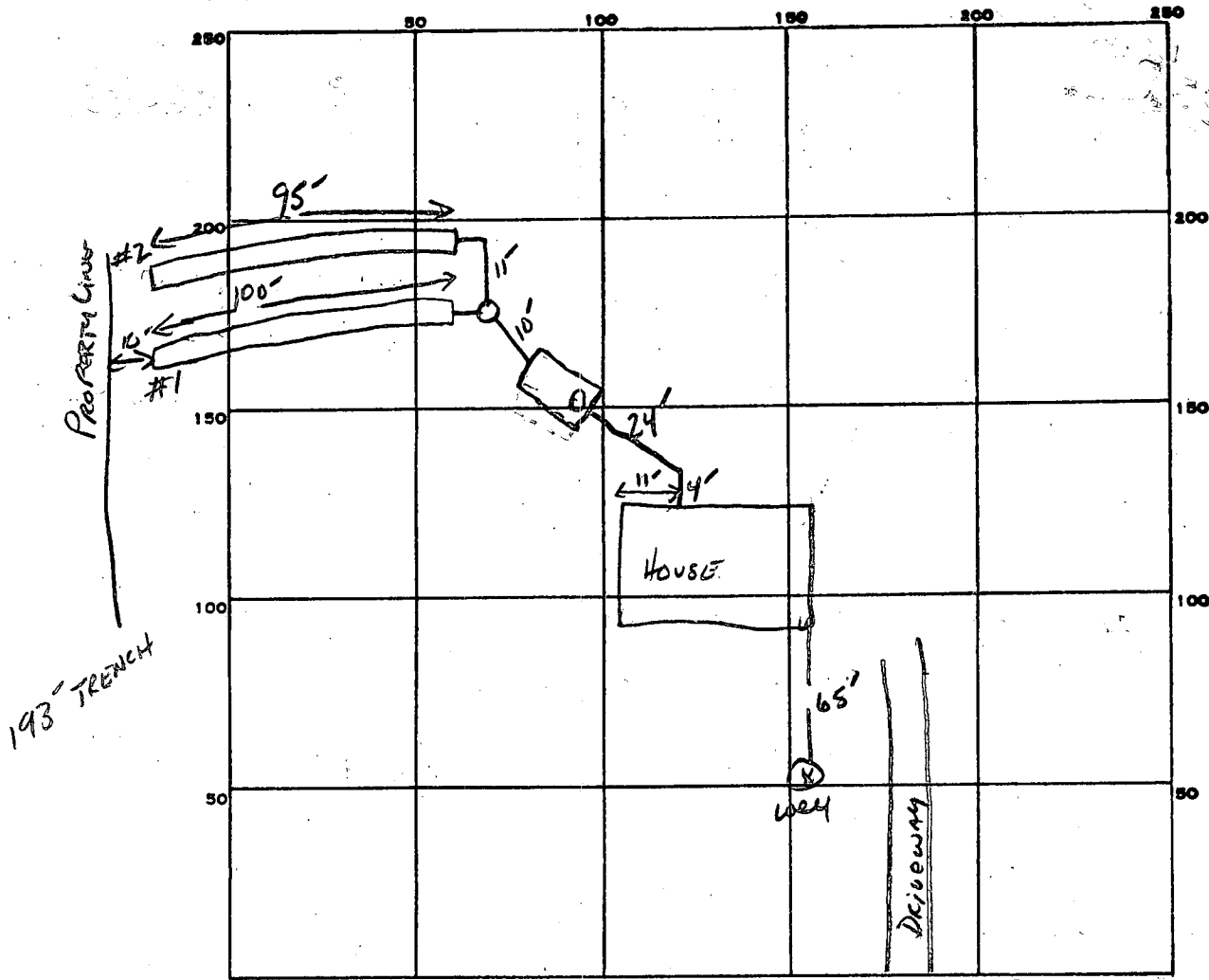
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER: CAST IRON, CONCRETE OR TERRA COTTA, OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET MANHOLE TO GRADE REQUIRED.

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

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

A 34785



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

Rt 99

PERMIT CARD

SEPTIC TANK, LEVEL 1500 GAL

CLEANOUTS ST

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH 4.5 FT. TRENCH WIDTH 3 FT.

GRAVEL DEPTH 18 IN. TOTAL LENGTH 100 ^① 95 ^② TOTAL 195 FT.

NUMBER OF TRENCHES 2 TOTAL BOTTOM AREA 585 sq. ft.

SEEPAGE PITS, INSIDE DIAMETER — FT. DEPTH BELOW INLET — FT.

ABSORBENT AREA 585 SQ. FT.

REMARKS 11-06-85 OK TO INCREASE DEPTH TO 4.5" IF LINE FROM TANK TO DB DOES NOT HAVE ADEQUATE FALL, SA.

DATE SYSTEM APPROVED 11-7-85

INSPECTOR SABUL

SUBDIVISION: Boswell Property
RE99

LOT NUMBER: 13

DRY WELL OR DRY WELL AND TRENCH

ALVIN STARR

_____ sq. ft./bedroom

	<u>Septic Tank</u>	<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

158 sq. ft./bedroom

Trench to be 3 wide.
 Inlet 2.5 feet below original grade.
 Bottom maximum depth 4 feet below original grade.
 Effective area begins at 2.5 feet below original grade.
1.5 feet of stone below distribution pipe.

- 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 155 FE FROM THE FRONT LOT LINE AND 30 FE FROM THE LEFT LOT LINE AS SEEN WHEN FACING LOT FROM RE 99 RUN TRENCHES ON CONTOUR TOWARD THE RIGHT LOT LINE AS SEEN WHEN FACING LOT FROM RE 99. SEPARATE TRENCHES BY 10 FE.

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 34785

P _____

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

DISTRICT _____

DATE 4/3/85

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

BLDG. PERMIT SIGNED
AND RETURNED 9/17/85
Serial #66791
SFD.

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

PROPERTY OWNER Michael D. Boswell

ADDRESS 11785 RT. 99, MARRIOTTVILLE PHONE 465-8579

PROPERTY LOCATION: _____ NEW 13

SUBDIVISION Boswell Property LOT NO. NEW 14

ROAD AND DESCRIPTION 11775-11885 RT 99 near Sand Hill Rd. & Henrytown
off RT 99

SIZE OF LOT 8.033 TYPE BLDG. _____
(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.

Michael D. Boswell
(SIGNATURE OF APPLICANT)

APPROVED BY C. Wilson FOR SHALLOW SYSTEM DATE 4/5/85

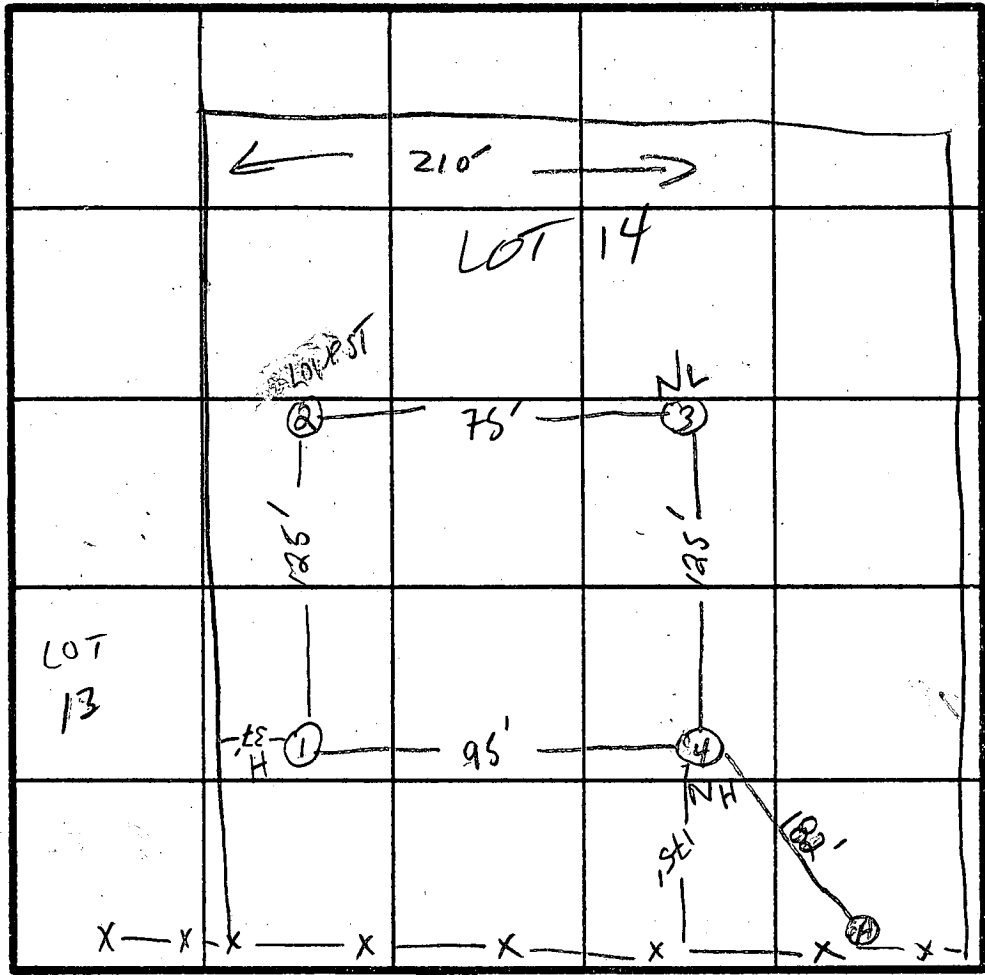
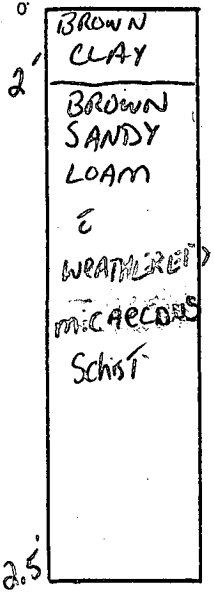
REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 1-18-85 Hold for wet weather testing SA/RA
2-4-85 Re-test water hole #4 Water at 13 feet, hold for review
and certified plat. SA 4/2 9/85 Bouders personal picked up egg pot perc hole F.8

THIS IS NOT A PERMIT

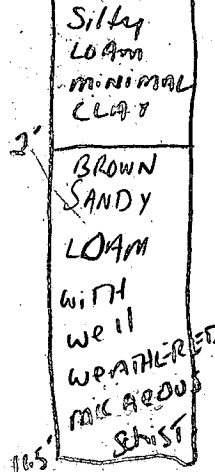
① SOIL PROFILE



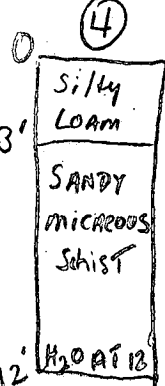
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

21 99

② ③



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/18/85	1S	3'	10:39	10:40	10:40	10:43	3min
	1V	12.5'	LOOKS	OK TO	12.5'		
11/19/85	2S	2'	10:41	10:43	10:43	10:45	2min
	2V	11.5'	LOOKS	OK AT	11.5'		
	3S	1.5'	10:48	10:49	10:49	10:51	2min
	3V	11.5'	LOOK OK	TO 11.5'			
4/18/88	4S	1.5'	10:56	10:57	10:57	10:58	1min
	4V	12'	WATER AT	12' ALL SOIL ABOVE	is acceptable		
2/4/85	HV - WATER AT 13' HOLE OPEN for 1 hr. no change during frost period. → Standing H ₂ O at 13'						
							8/20/85



REMARKS _____

TYPE OF SOIL _____

TESTED BY S. Abel / R. Hodges ALSO PRESENT SKIP, LARRY, JACK MR. BOSWELL

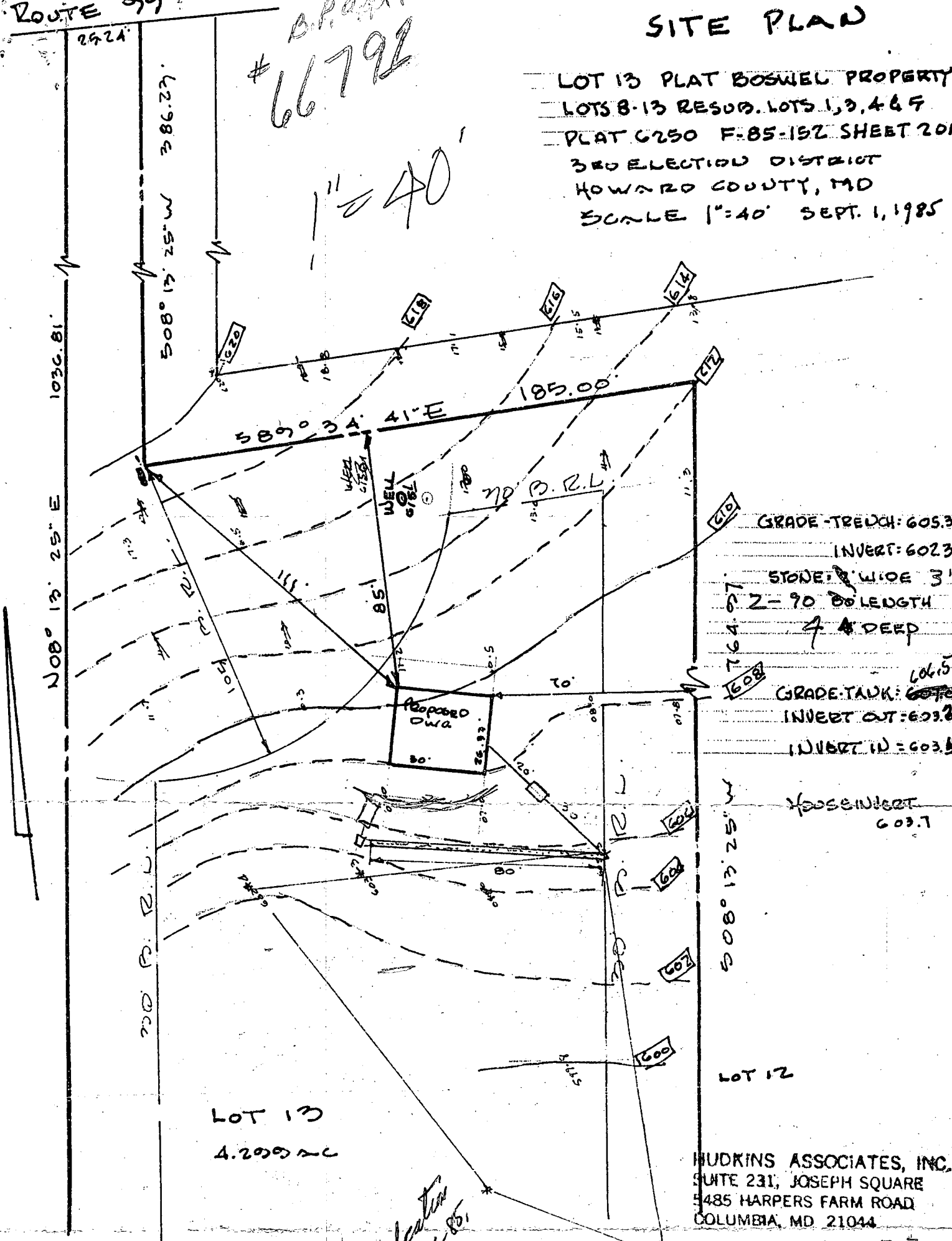
ROUTE 99

SITE PLAN

*B.P. Plat.
66792*

LOT 13 PLAT BOSWELL PROPERTY
LOTS 8-13 RESUB. LOTS 1, 3, 4 & 5
PLAT 6250 F-85-152 SHEET 20P
3RD ELECTION DISTRICT
HOWARD COUNTY, MD
SCALE 1"=40' SEPT. 1, 1985

1" = 40'



GRADE-TRENCH: 605.3
 INVERT: 602.3
 STONE: 3' WIDE
 2-90' LENGTH
 4' DEEP

GRADE-TANK: 607.0
 INVERT OUT: 603.8
 INVERT IN: 603.4

HOUSE INVERT
 603.7

508° 13' 25" W

LOT 12

LOT 13
4.29 AC

HUDKINS ASSOCIATES, INC.
 SUITE 231, JOSEPH SQUARE
 485 HARPERS FARM ROAD
 COLUMBIA, MD 21044

*Septic elev's of location
 ok. J.F. 9-18-85*

House int - 603.7
 St. in - 603.45
 St. out - 603.2
 D. br in - 603.1
 D. br out - 603.0

Grav 605.5
 TRENCH INV. 603.0

3' wide
 4' deep
 1 1/2' stone under
 dist. pipe
 inlet net 2 1/2' deep

Please add this
to permit # 66791

Elevations needed.

If you have any
questions please
call my office
at 833-8006

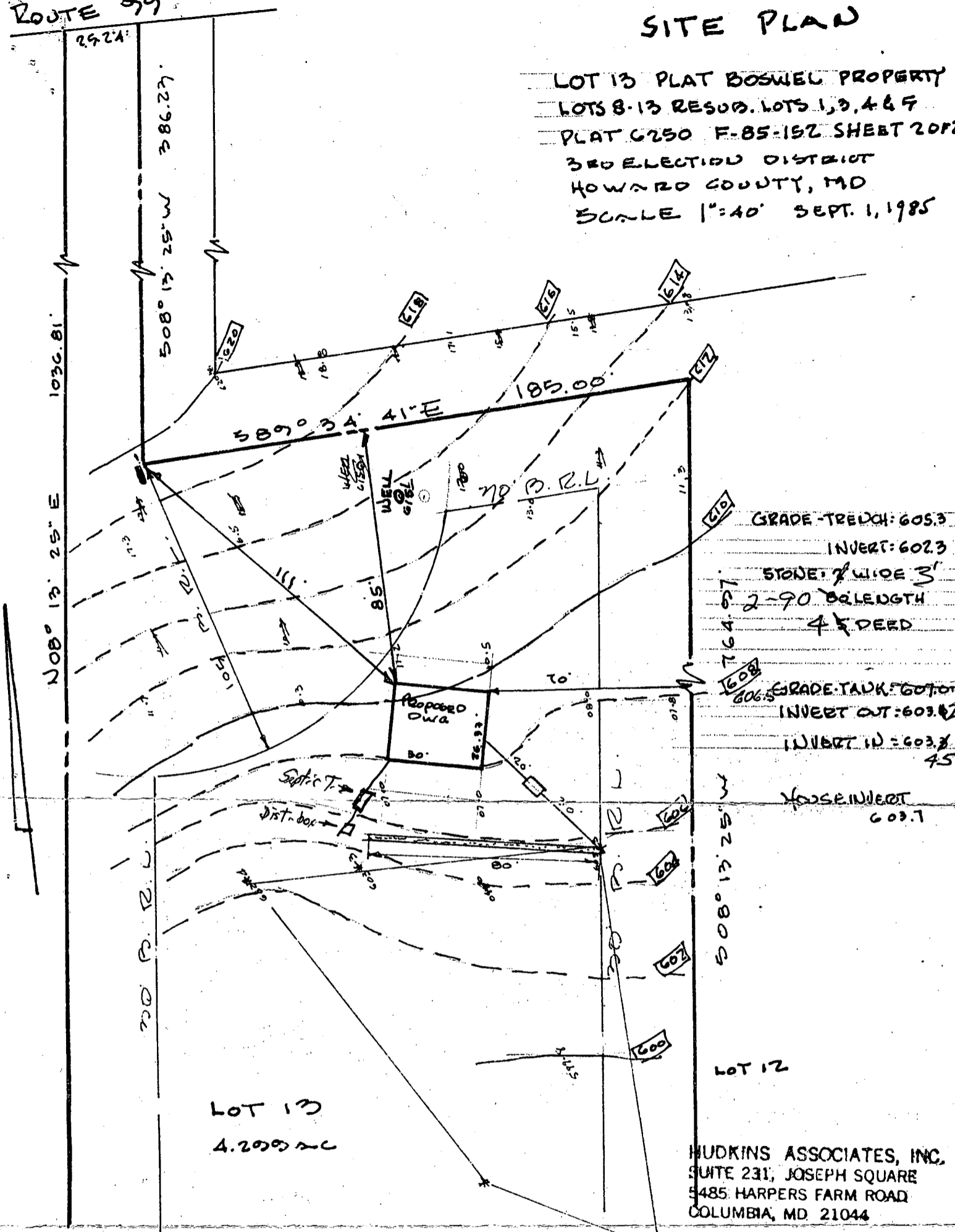
Thank you

Jenny O'Malley

ROUTE 99

SITE PLAN

LOT 13 PLAT BOSWEL PROPERTY
 LOTS 8-13 RESUB. LOTS 1, 3, 4 & 7
 PLAT G250 F-85-152 SHEET 2 OF 2
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MD
 SCALE 1"=40' SEPT. 1, 1985



GRADE-TRENCH: 605.3
 INVERT: 602.3
 STONE: 7" WIDE 3'
 2-90' LENGTH
 4' DEED

GRADE-TANK: 607.0
 INVERT OUT: 603.0
 INVERT IN: 603.7
 HOUSE INVERT
 603.7

LOT 13
 4.2092 AC

HUDKINS ASSOCIATES, INC.
 SUITE 231, JOSEPH SQUARE
 5485 HARPERS FARM ROAD
 COLUMBIA, MD 21044

C1 **2364** SEQUENCE NO. (OEP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 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 **A 34785**

DATE Received [] [] [] [] [] [] DATE WELL COMPLETED **082885** Depth of Well **225** (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" **H0-81-1120**

OWNER **STARR ALVIN** last name first name TOWN **WEST FRIENDSHIP**
 STREET OR RFD. **ROUTE 99** SECTION **13** LOT **13**
 SUBDIVISION **BOSWELL PROPERTY**

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	
<i>OVERBURDEN + MUD</i>	0	100	
<i>GREY ROCK</i>	100	225 X	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
 TYPE OF GROUTING MATERIAL
 CEMENT **CM** BENTONITE CLAY **BC**
 NO. OF BAGS **8** NO. OF POUNDS **800**
 GALLONS OF WATER **48**
 DEPTH OF GROUT SEAL (to nearest foot)
 from [] [] [] [] ft. to [] [] [] [] ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
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) **100**

SCREEN RECORD
 screen type or open hole insert appropriate code below
ST BR HO STEEL BRASS OPEN HOLE
PL OT PLASTIC OTHER
 DEPTH (nearest ft.)
 1 **H0** 100 225
 2 [] [] [] [] [] []
 3 [] [] [] [] [] []
 4 [] [] [] [] [] []
 5 [] [] [] [] [] []
 6 [] [] [] [] [] []
 7 [] [] [] [] [] []
 8 [] [] [] [] [] []
 9 [] [] [] [] [] []
 10 [] [] [] [] [] []
 11 [] [] [] [] [] []
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 51 [] [] [] [] [] []

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

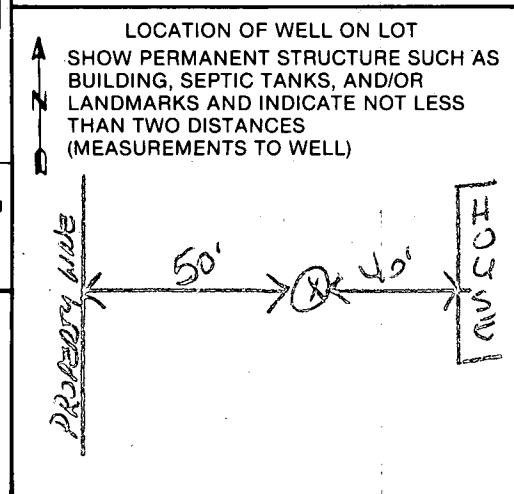
OEP USE ONLY
 (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) [] [] [] [] [] [] [] [] [] []
 WQ [] [] [] [] [] [] [] [] [] []
 TELESCOPE CASING [] [] [] [] [] [] [] [] [] []
 LOG INDICATOR [] [] [] [] [] [] [] [] [] []
 OTHER DATA [] [] [] [] [] [] [] [] [] []

C 3
PUMPING TEST
 HOURS PUMPED (nearest hour) **3**
 PUMPING RATE (gal. per min. to nearest gal.) **1428**
 METHOD USED TO MEASURE PUMPING RATE **SUBMERSIBLE**
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING **479"**
 WHEN PUMPING **118"**

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 EXCEPT HOME USE
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) [] [] [] [] [] [] 31 35
 PUMP HORSE POWER [] [] [] [] [] [] 37 41
 PUMP COLUMN LENGTH (nearest ft.) [] [] [] [] [] [] 43 47
 CASING HEIGHT (circle appropriate box and enter casing height)
 (+) above } LAND SURFACE (nearest foot) **2**
 (-) below }



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 10.17.13 "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.

DRILLERS IDENT. NO. **1020**
 DRILLERS SIGNATURE *Conley Price*
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

B 1 9952

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

OEP PERMIT NUMBER

40-81-1120

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) 8/29/85 10:30 pump

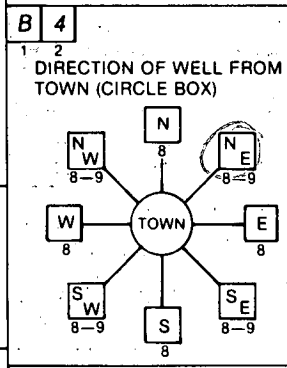
please print or type

fill in this form completely

OWNER INFORMATION: Date Received, Last Name (STARR), Owner (ALVIN), First Name, Street or RFD (5010 W FOREST PARK), Town (BALTIMORE), State (MD), Zip (21207)

LOCATION OF WELL: HOWARD COUNTY, BOSWELL PROP., SECTION 44, LOT 13, WEST FRIENDSHIP, MILES FROM TOWN 2 MI

DRILLER INFORMATION: Sandy B. Cochran, 1200, G. GOGAR HARDWARES CORP., 12047 Falls Rd, Cockeysville 21030, 7-15-85



NEAR WHAT ROAD: MD Rte 99, ON WHICH SIDE OF ROAD: 400 FT DISTANCE FROM ROAD

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

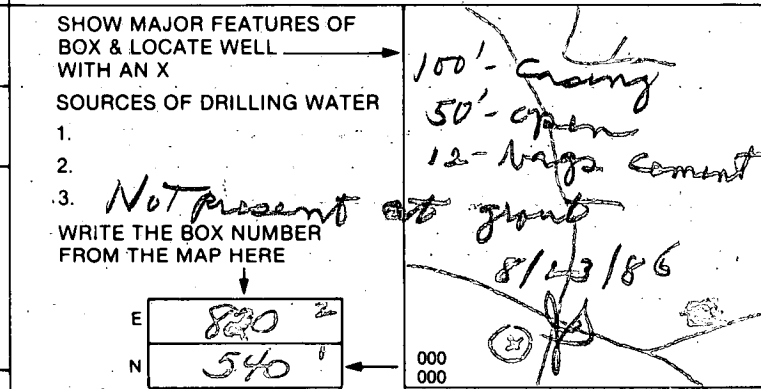
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: HOWARD COUNTY, DATE ISSUED 072385, CO SIGNATURE, EXP. DATE 1/23/85, NORTH GRID 591000, EAST GRID 0822000

USE FOR WATER (CIRCLE APPROPRIATE BOX): HOME (D), FARMING (F), INDUSTRIAL (I), PUBLIC OR PRIVATE WATER COMPANY (P), TEST (T)

APPROXIMATE DEPTH OF WELL: 200 FEET

APPROXIMATE DIAMETER OF WELL: 6 INCH

METHOD OF DRILLING (circle one): AIR-ROTary, AIR-PERCussion, ROTARY, CABLE, REVERSE-ROTary, DRIVE-POINT



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX): THIS WELL WILL NOT REPLACE AN EXISTING WELL (N), THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED (Y), THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY (S), THIS WELL WILL DEEPEN AN EXISTING WELL (D)

Not to be filled in by driller (OEP USE ONLY): APPROP. PERMIT NUMBER, FORCE, WRITE INITIALS IN BOX, PERMIT No. 40-81-1120

SPECIAL CONDITIONS

448-0627

WELL PUMP INSPECTION

A34785

Owner's Name: Alvin Starr

Address: 11795 Md. Rte 99
Maurickville, Md 2104

LOCATION OF PROPERTY: Lot 13 Baswell Property. WELL TAG NUMBER: HO-81-1120

PLUMBER OR CERTIFIED PUMP INSTALLER: Charles A. Klein & Sons, Inc

Phone Number: 922-4660

License Number: 1693

Receipt Number: WP36096

Date: 10/15/85

Comments: O.K. to proceed with installation. Call 461-9933 for inspections
F.S.

Inspection:

Date Well Pump Inspection Was Approved:

Inspector: