

**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.

SEQUENCE NO. (MDE USE ONLY)
2104
(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

COUNTY
NUMBER

ST/CO USE ONLY
DATE Received
102995

DATE WELL COMPLETED
101895

Depth of Well
300
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
40-94-0625

OWNER A4m Inc last name Chapel Estates Dr first name Clarksville
STREET OR RFD
SUBDIVISION Chapel Woods SECTION III TOWN Clarksville
LOT 30

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	
Overburden	0	35	
Gray Rock	35	300	x

water was encountered at
140'

Well #1 450' Dry (backfilled)
Well #2 450' Dry (backfilled)
Well #3 450' Dry (backfilled)
Well #4 400' Dry (backfilled)

GROUTING RECORD yes no
(Circle Appropriate Box) Y N
44 44

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC
45 46 45 46

NO. OF BAGS 10 NO. OF POUNDS 1000
GALLONS OF WATER 600
DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. to 38 ft.
(enter 0 if from surface)

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3
8 9

PUMPING RATE (gal. per min.) 112.0
11 15

METHOD USED TO
MEASURE PUMPING RATE Submersible
WATER LEVEL (distance from land surface)

BEFORE PUMPING 9 ft.
17 20

WHEN PUMPING 28 ft.
22 25

TYPE OF PUMP USED (for test)

A air P piston T turbine
27 27 27
 C centrifugal R rotary O other (describe below)
27 27 27
 J jet S submersible
27 27

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 38
60 61 63 64 66 70

OTHER CASING (if used)

EACH CASING 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: 4

WELL HYDROFRACTURED Y N

C 2

DEPTH (nearest ft.)

E	1	<u>Ho</u>	<u>38</u>	<u>300</u>
A	8	9	11	15
C	23	24	26	30
H	38	39	41	45
S	38	39	41	45
C	38	39	41	45
R	38	39	41	45
E	38	39	41	45
E	38	39	41	45
N	38	39	41	45

SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)
56 60

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

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. 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)
 - below } 1 (nearest foot)
49 49 50 51

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
DRILLERS LIC. NO. 309
Paul M. [Signature]
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
LIC. NO. JSD052
Robert Brown

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

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

T (E.R.O.S.) W Q
74 75 76
70 72

TELESCOPE CASING LOG INDICATOR OTHER DATA

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)

NA

B 1 1705 SEQUENCE NO. (MDE USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

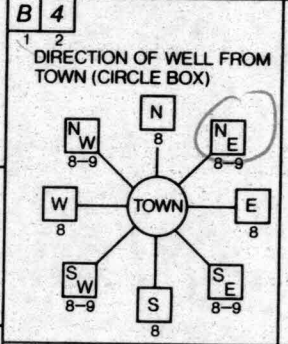
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
 40-94-0625
 fill in this form completely

OWNER INFORMATION
 Date Received (APA) 7/14/95
 JJM INC
 5570-205 STERRETT PL
 COLUMBIA MD 21044

LOCATION OF WELL
 HOWARD COUNTY
 CHAPEL WOODS
 SECTION 44 46 LOT 59
 CHARKSVILLE
 MILES FROM TOWN 2 MI

DRILLER INFORMATION
 Paul M. Fabiszak
 G. Edgar Harr Sons' Corp.
 12047 Falls Road, Cockeysville 21030
 7/14/95



CHAPEL ESTATES DR
 NEAR WHAT ROAD
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 EAST
 DISTANCE FROM ROAD 200 FT
 ENTER FT OR MI FT

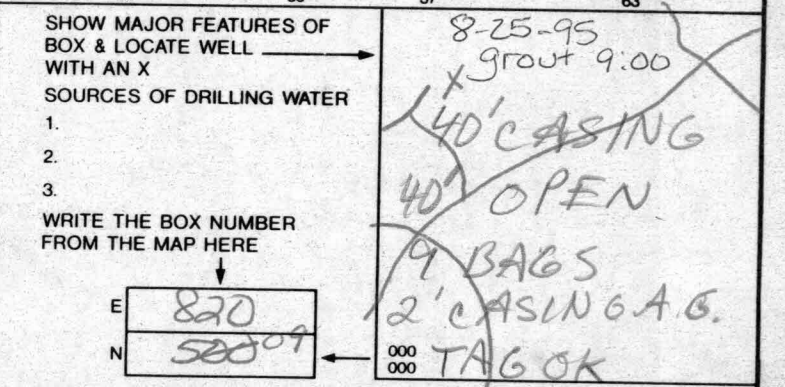
WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) 3
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

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)

NOT TO BE FILLED IN BY DRILLER
 HEALTH DEPARTMENT APPROVAL
 Howard County A5021-C
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE Amy M. Miller 7-25-96
 DATE ISSUED 072596
 NORTH GRID 509000 EAST GRID 0820000

APPROXIMATE DEPTH OF WELL 209 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 DEEPEEN AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (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
 REPORTS OK, BUT DRILLER NEW ESTATES ROAD TO BE REMOVED, CHAPEL WOODS ROAD IN CONFLICT w/ THIS
 (TO BE ABANDONED) Route 108 WELL OK, LOC
 8/25/95

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER GAP
 FORCE AM INITIALS IN BOX PERMIT No. 40-94-0625

B 1 **8715** SEQUENCE NO. (DP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
40-88-0925
 fill in this form completely

Date Received (APA) **061689**
OWNER INFORMATION
 J. J. O'M E N C
 J. J. O'M E N C
 5500 STEPHEN PLACE
 COLUMBIA MD 21044

B 3 LOCATION OF WELL
 HOWARD
 CHAPEL WOODS
 SECTION 44 46 LOT 48 50
 CLARKSVILLE
 MILES FROM TOWN (enter 0 if in town) 3 MI

DRILLER INFORMATION
 Joseph L. Mayne
 238
 Joseph L. Mayne Well Drilling
 5512 KILK RD. INT. AVEY 21771
 Joseph P. Mayne 6/14/89

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
 CHAPEL WOODS DR.
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST 32 EAST
 SOUTH
 DISTANCE FROM ROAD 550 FT
 ENTER FT or MI 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)
 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)

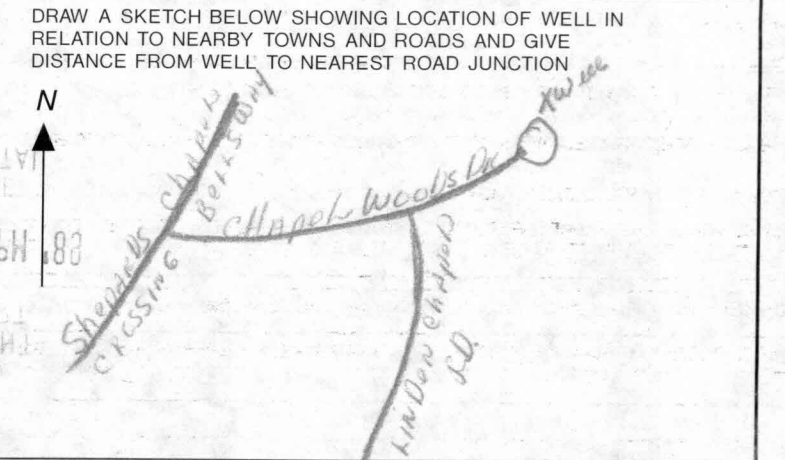
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 Howard County A 37504
 STATE SIGNATURE DATE ISSUED 07/21/89
 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED
 NORTH GRID 510 000 EAST GRID 0821 000
 EXP. DATE 7/20/90
 EXTENDED MR 12/2/90

APPROXIMATE DEPTH OF WELL 300 FEET
 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
 SOURCES OF DRILLING WATER
 1. well
 WRITE THE BOX NUMBER FROM THE MAP HERE
 8201
 510

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
 THIS WELL WILL DEEPEAN AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 12 52



Not to be filled in by driller (OEP USE ONLY)
 APPROX. PERMIT NUMBER 54 G A P 63
 FORCE SA WRITE INITIALS IN BOX PERMIT No. 40-88-0925
 67 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

CLARKSVILLE

WL800 5964

Feb. 01 2001 10:36AM P2

FROM : HoCo EnvHealth

FAX NO. : 4103132648

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: CHARLES A. KLEIN & SONS telephone #: (410) 549-6960
Address: 5220 KLEES MILL ROAD
SHREVEVILLE, MD 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): CHARLES A. KLEIN & SONS INC License# 6521

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: William & Louise Gump Telephone #: (410) 997-8800
Subdivision: CHAPEL WOODS Lot #: 30 Well Tag #: HO-94-0635
Site Address: 1174 CHAPEL ESTATES DRIVE
CLARKSVILLE, MD 21029

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>JACUZZI</u>	Make: <u>HARVARD</u>	Two piece watertight cap: <input checked="" type="checkbox"/>
Model #: <u>5545-13P-52</u>	Model#: <u>PT-800</u>	Screened, vented well cap: <input checked="" type="checkbox"/>
Pump Capacity <u>5</u> GPM	Depth: <u>42"</u> (36" min)	Cap secured to casing: <input checked="" type="checkbox"/>
Well Yield: <u>12</u> GPM	NSF approved: <input checked="" type="checkbox"/>	Conduit min 18" B.G.: <input checked="" type="checkbox"/>
Depth of well encountered at time of pump installation: <u>300</u> (feet)		Conduit secured to well cap: <input checked="" type="checkbox"/>

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1900 Section 17.8.4
Torque arrestors, Cable guards, other - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt _____

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>POLYETHYLENE</u>	PVC sleeve to undisturbed soil at wall penetration: <input checked="" type="checkbox"/>
PSI: <u>1/2"</u> (160 psi min)	Approximate length of sleeve: <input checked="" type="checkbox"/>
Depth of supply line: <input checked="" type="checkbox"/> (36" min)	Sleeve caulked and sealed properly: <input checked="" type="checkbox"/>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Charles A. Klein Jr _____ date 3/21/01
Signature of company representative responsible for installation

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 6/13/01 Date Insp. Approved: 7/23/01 Inspector: BB/RJP

Inspection Data:

Pitless adapter watertight & water supply line at least 36" below grade	<input checked="" type="checkbox"/>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>
Safety rope not seen outside of well cap/casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>

HD-215

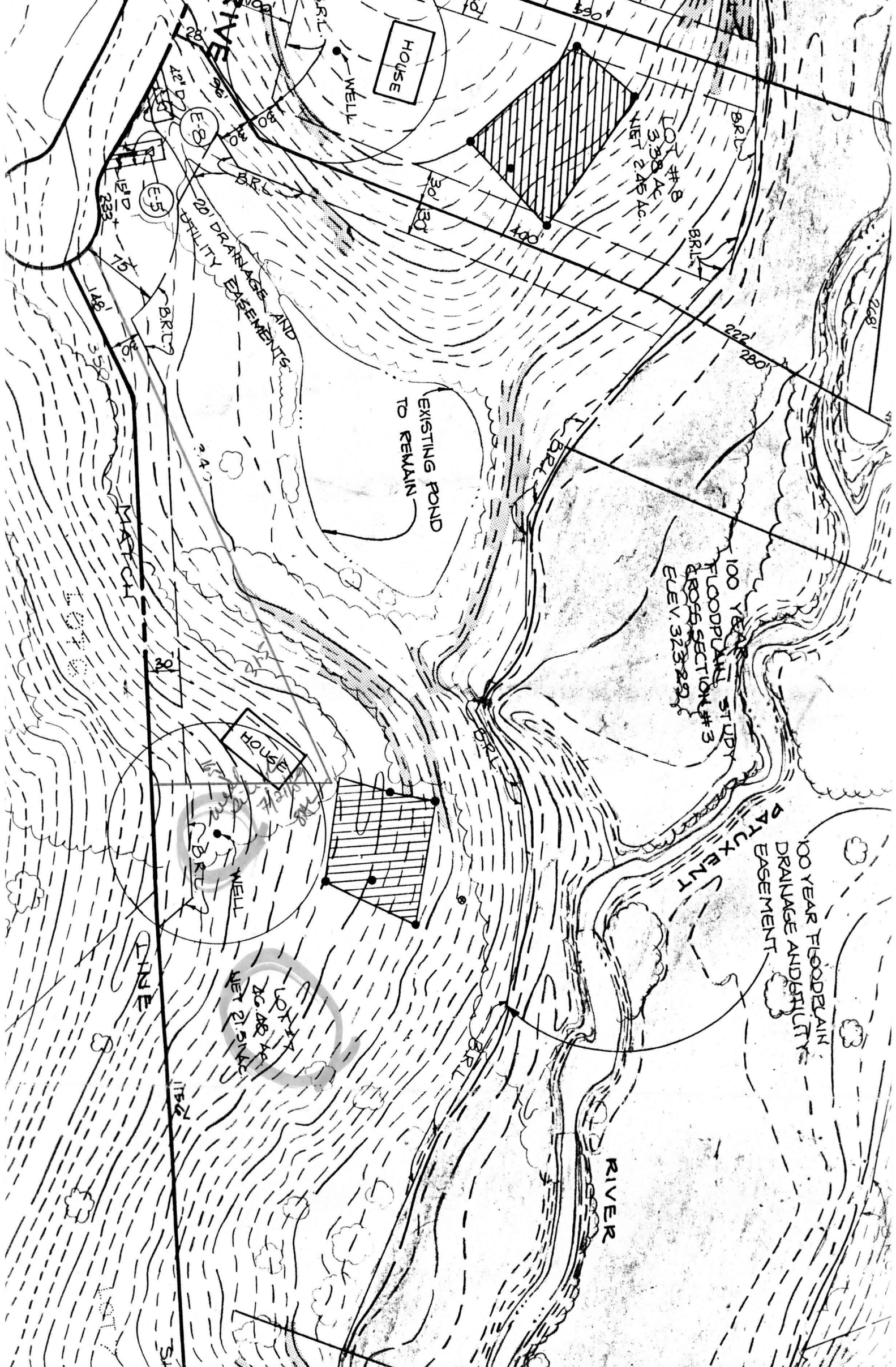
Rev. 12/00

62-01-01 11:27

RECEIVED FROM: 4103132648

P.02

7/23/01 Well line ~ 8' from septic line near house. Inspector failed to inform plumber of sleeving requirements and well line covered. Letter sent to plumber 8/14/01.



HOUSE

WELL

LOT #1 B
3.38 AC
NET 2.45 AC

20' UTILITY EASEMENTS

EXISTING ROAD
TO REMAIN

100 YEAR
FLOODPLAIN STUDY
CROSS SECTION #3
ELEV. 323.22

HOUSE

WELL

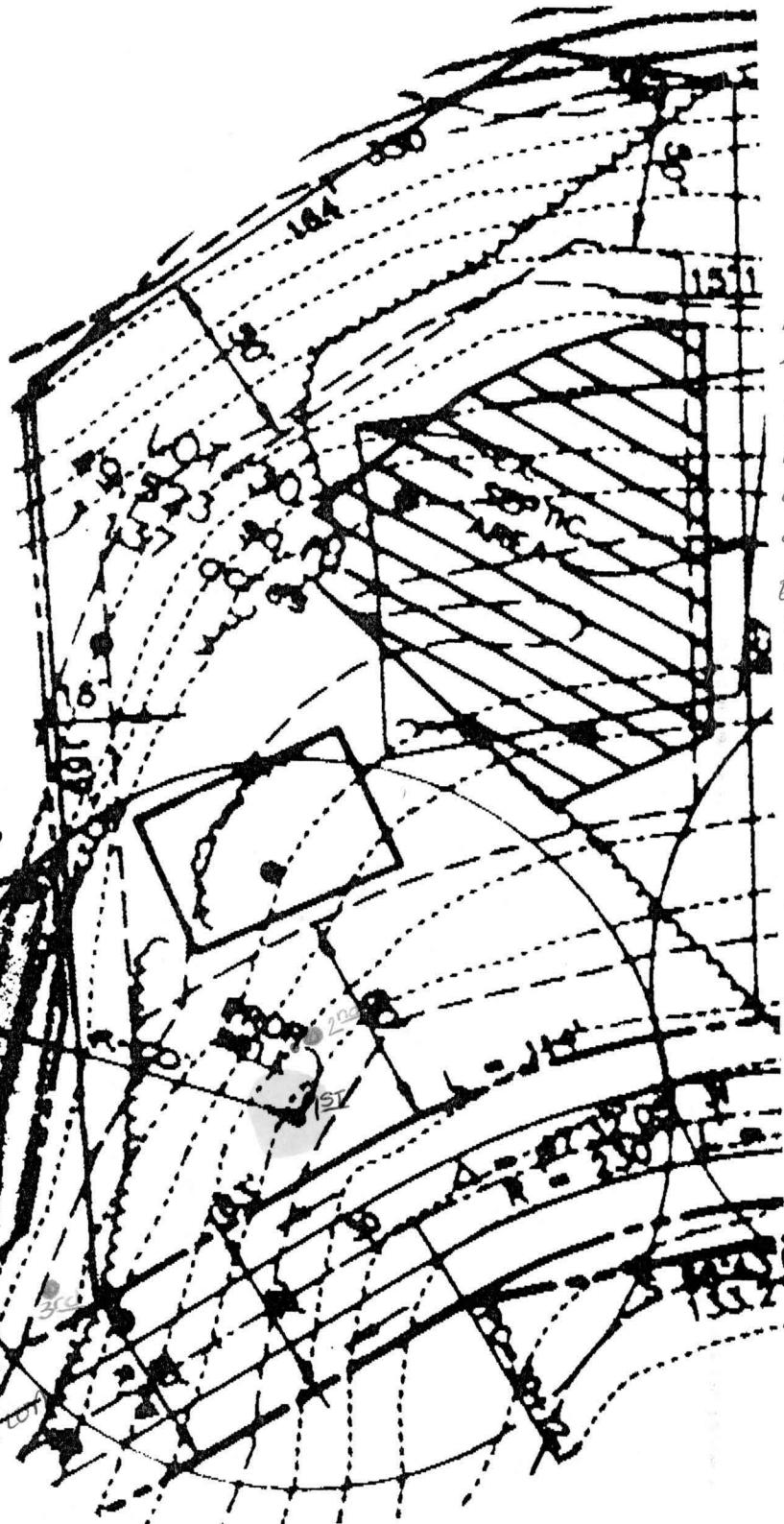
LOT #2 B
20.48 AC
NET 21.2 AC

100 YEAR FLOODPLAIN
DRAINAGE AND FLOODPLAIN
EASEMENT

RIVER

MATCH LINE

LINE



7-25-95
 Proposed well site
 OK as shown.
 Site Staked by surveyor
 per Eric Mikalasko
 of 44M. No site
 inspection.

Amy McMiller
 (1.3gpm on 1st
 well - They want
 higher yield.
 9/25/95 it
 is in new
 proposed
 road
 location)

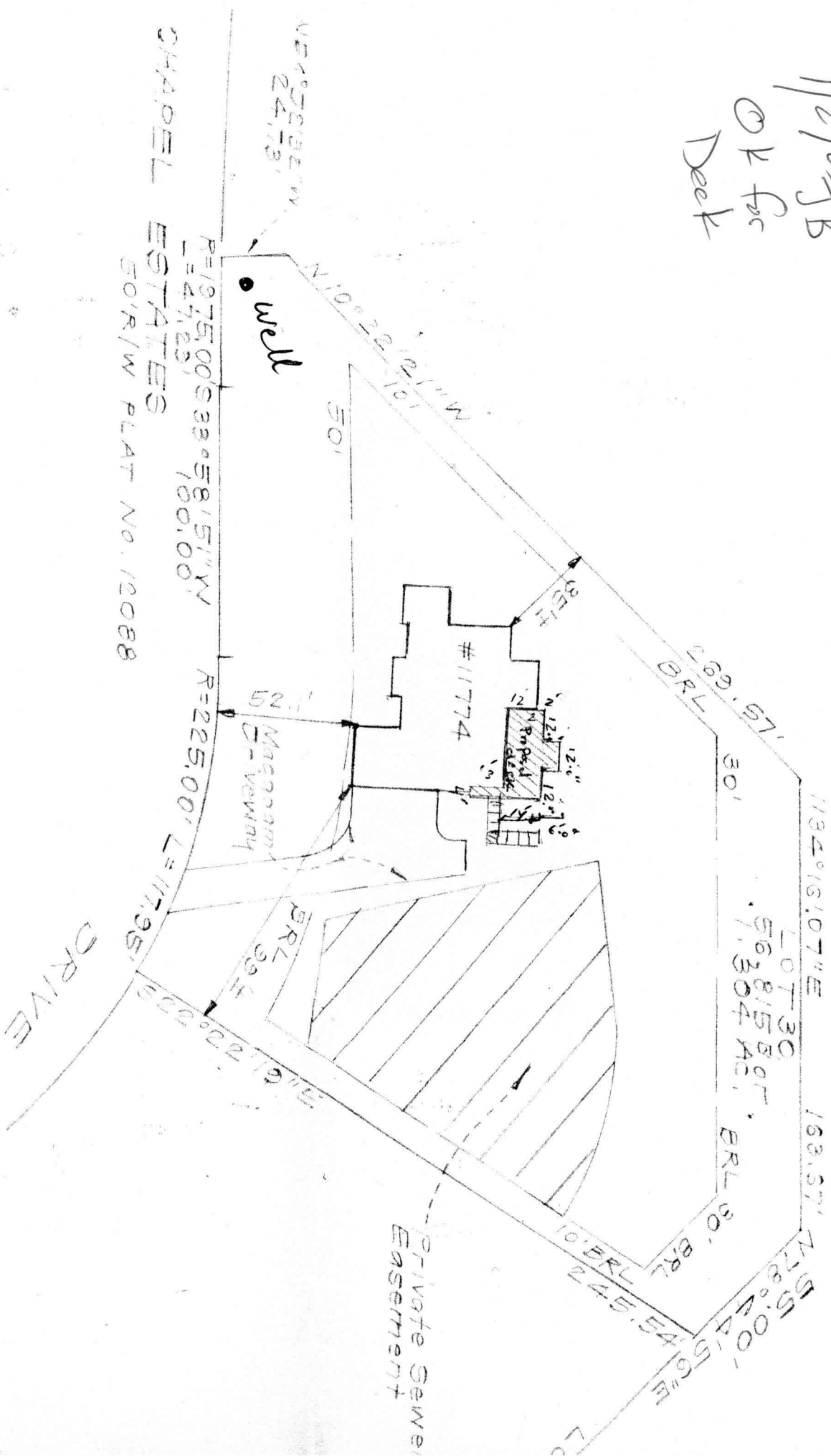
2nd well site had
 less than 1gpm.

3rd well site approved 8/28/95
 by Mark Rifkin. It was agreed that
 The first well would be abandoned, and
 lot lines adjusted on final plat w/ 44M.

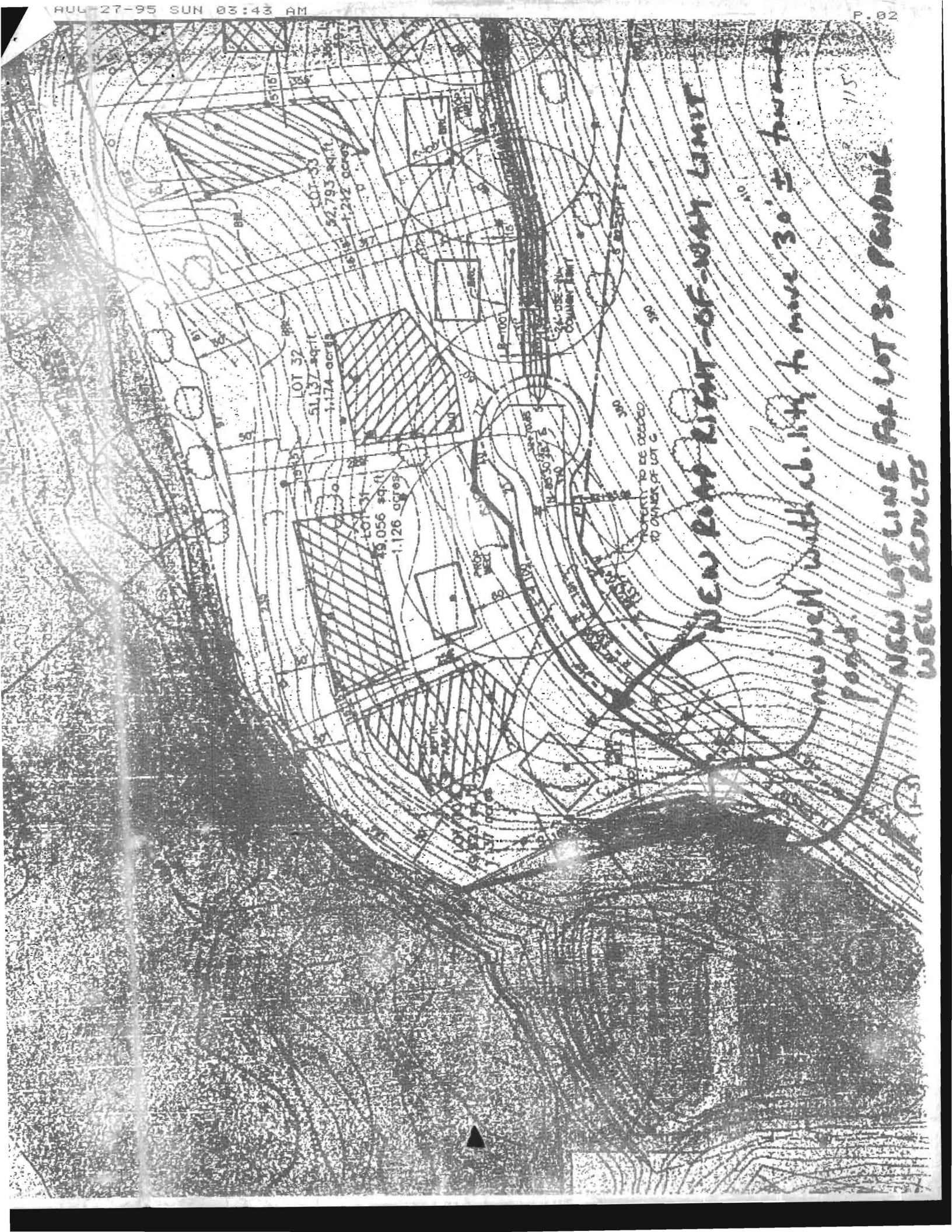
9/25/95
 According to
 44M the 1st;
 2nd wells have
 been properly
 abandoned by
 driller - waiting
 for completion
 report and/or
 abandonment
 form.
 Ann

PRESERVATION PARCEL 4
 (NON-BUILDABLE)
 PLAT Nos. 12088 & 12089

1/2/03 JB
 OK for
 Deck



By SO for JS
 MCE COMPANY
 180 Transfer



NEW PROPERTY BOUNDARY - OF-WAY LIMIT

new well with ability to move 30' ± toward road

NEW LOT LINE FOR LOT 30 PENDING WELL RESULTS

LOT 31
49,056 sq ft
1.126 acres

LOT 32
51,137 sq ft
1.174 acres

LOT 33
52,793 sq ft
1.212 acres

PROPERTY TO BE DEDED TO OWNER OF LOT C

COUNTY LINE

115'



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

July 23, 2001

Charles A. Klein & Sons
5220 Klees Mill Road
Sykesville, MD 21784

Re: Well Line Installation
Chapel Woods – Lot 30
11774 Chapel Estates Drive
Well Permit: HO-94-0625

Dear Mr. Klein:

During a well line inspection at the above property, it was observed that the well and septic lines were separated by less than 10 feet. In all possible instances, the well line should be kept at least 10 feet from any part of the septic system or septic easement. In the rare instances where this is not possible, the Howard County Health Department requires that the well line be sleeved at any point where it is less than 10 feet from any part of the septic system. The sleeve should be sealed at both ends. When possible, the well line should also be at least 12 inches higher than the septic line when the 10 foot distance requirement is not met. If the well line crosses the septic line it must be at least 12 inches above the septic line.

It is preferred that the work done at the above address be corrected. Since you have been notified of the above requirements, any work performed in the future that does not meet these requirements will be corrected. It is your responsibility to pass this information on to your employees.

Sincerely,

Brian Baker, R.S.
Well and Septic Program

Cc: File