

C 1 07610

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED... WELL IS COMPLETED. COUNTY NUMBER A513199P

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED MM DD YY 2 11 00

Depth of Well 22 425 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-2563

OWNER Brantwood LLC last name first name TOWN ELICOTT CITY MD STREET OR RFD Argent Path SUBDIVISION Brantwood SECTION 2/2 LOT 14

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 FROM TO check if water bearing. BROWN SHALE 0 51 BLNE SLATE 51 425 WATER AT 137

GROUTING RECORD yes no WELLS HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 14 NO. OF POUNDS 1316 GALLONS OF WATER 84 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 59 ft.

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot) ST 6 60

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

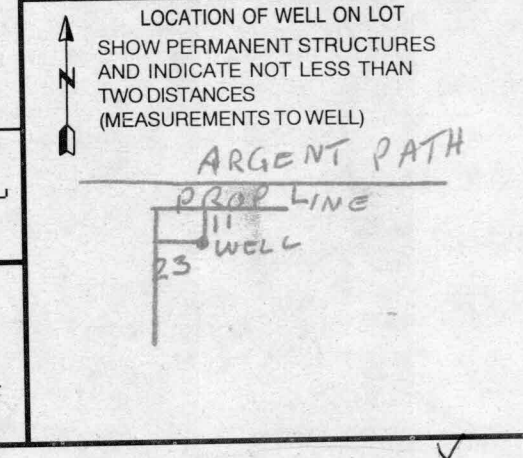
SCREEN RECORD screen type or open hole insert appropriate code below ST BR HO PL OT

DEPTH (nearest ft.) 1 HO 59 425 2 8 9 11 15 17 21 3 23 24 26 30 32 36 4 38 39 41 45 47 51

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 PUMPING TEST HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min.) 3.15 METHOD USED TO MEASURE PUMPING RATE TIME WATER LEVEL (distance from land surface) BEFORE PUMPING 25 ft. WHEN PUMPING 152 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED DRILLER INSTALLED 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) 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 - below 1 (nearest foot)



NUMBER OF UNSUCCESSFUL WELLS: 0 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.

DRILLERS LIC. NO. 1 MWD 139 Robert Clane DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 MWD 536 Robert Clane Jr.

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

OWNER INFORMATION
 Date Received (APA) 122999
 8 MM DD YY 13
Brantwood, L.L.C.
 15 Last Name Owner First Name 34
8835 P - Columbia 100 Parkway
 36 Street or RFD 55
Columbia, MD 21045
 57 Town 70 State 72 Zip 76

LOCATION OF WELL
 B 3 Howard
 8 COUNTY 21
Brantwood
 23 SUBDIVISION 42
 SECTION 2 LOT 14 Area 2
 44 46 48 50
Pine Orchard
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) 2 M I
 73 76 77 78

DRILLER INFORMATION
Robert L. Cline M W D 139
 Driller's Name 76 License No. 81
Cline & Duvall, Inc.
 Firm Name
8093 Hillmark Ct., Frederick, MD 21704
 Address
Robert L. Cline 12/27/99
 Signature Date

ARGENT PATH
Argent Path
 11 NEAR WHAT ROAD 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W 32 EAST E
 SOUTH S
 34 30 37
 DISTANCE FROM ROAD ft. 38 39
 ENTER FT OR MI
 TAX MAP: 23 BLK: _____ PARCEL _____

WELL INFORMATION
 B 2 5
 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 300
 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard Co A513199P
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED 012000 A-McYLL-01 012001
 43 MM DD YY 48 CO SIGNATURE EXP. DATE
 NORTH GRID 520000 EAST GRID 820000
 50 55 57 63

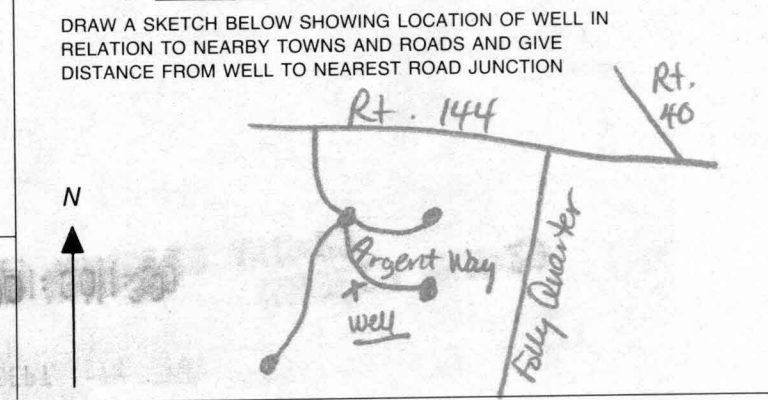
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 GEO-THERMAL

APPROXIMATE DEPTH OF WELL 250 FEET
 24 28
 APPROXIMATE DIAMETER OF WELL 6 INCH
 NEAREST

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
 E 820
 N 520
 2/10/00
 great
 No
 isp
 well
 Rt. 144
 Folly Quarter
 000
 000

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)
 37 CABLE REVerse-ROTary DRive-POINT
 other _____

REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52



Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER HO 94-2563 G.A.P. 54 63
 PERMIT No. HO-94-2563
 70 71 72 73 74 75 76 77 78 79

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94 2563
 Location of property (road) Argent Path
 Subdivision Brantwood Lot 14 Block Plat Sec. 2/2
 Well Driller Robert Cline Owner Brantwood

Depth of well 425
 Distance of measuring point (M.P.) above ground 1
 Static water level (S.W.L.) below M.P. 25

I. High rate pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 12
 Total time 30 MIN to reach pumping water level 152 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)
8:30	25	25 SECONDS		12
8:45	121	25 "		12
8:59	151	25 "		12
9:00	152	1 MIN 35 SEC.		3.15
9:15	152	1 MIN 35 SEC.		3.15
9:30	152	1 MIN 35 SEC.		3.15
9:45	152	1 MIN 35 SEC.		3.15
10:00	152	1 MIN 35 SEC.		3.15
10:15	152	1 MIN 35 SEC.		3.15
10:30	152	1 MIN 35 SEC.		3.15
10:45	152	1 MIN 35 SEC.		3.15
11:00	152	1 MIN 35 SEC.		3.15
11:15	152	1 MIN 35 SEC.		3.15
11:30	152	1 MIN 35 SEC.		3.15
11:45	152	1 MIN 35 SEC.		3.15
12:00	152	1 MIN 35 SEC.		3.15
12:15	152	1 MIN 35 SEC.		3.15
12:30	152	1 MIN 35 SEC.		3.15
12:45	152	1 MIN 35 SEC.		3.15
1:00	152	1 MIN 35 SEC.		3.15
1:15	152	1 MIN 35 SEC.		3.15
1:30	152	1 MIN 35 SEC.		3.15
1:45	152	1 MIN 35 SEC.		3.15
2:00	152	1 MIN 35 SEC.		3.15

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2643

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 25.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: CHARLES A. KLEIN & SON, INC Telephone #: (410) 549-6960
Address: 5220 KLEIN MILL ROAD
SPRINGVILLE, 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, JR. License #: 6521

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

Name of Property Owner: WILLIAM BLUM Telephone #: (410) 997-8800
Subdivision: BLANTWOOD Lot #: 14 Well Tag #: HO-11-2563
Site Address: 3116 ARGENT PATH

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: JACUZZI Make: HOVARD Two piece watertight cap:
Model #: SS45-13P-52 Model #: PF-500 Screened, vented well cap:
Pump Capacity: 5 GPM Depth: 42" (36" min) Cap secured to casing:
Well Yield: 2.5 GPM WSC NSF approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 42.5 (feet) Conduit secured to well cap:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt _____

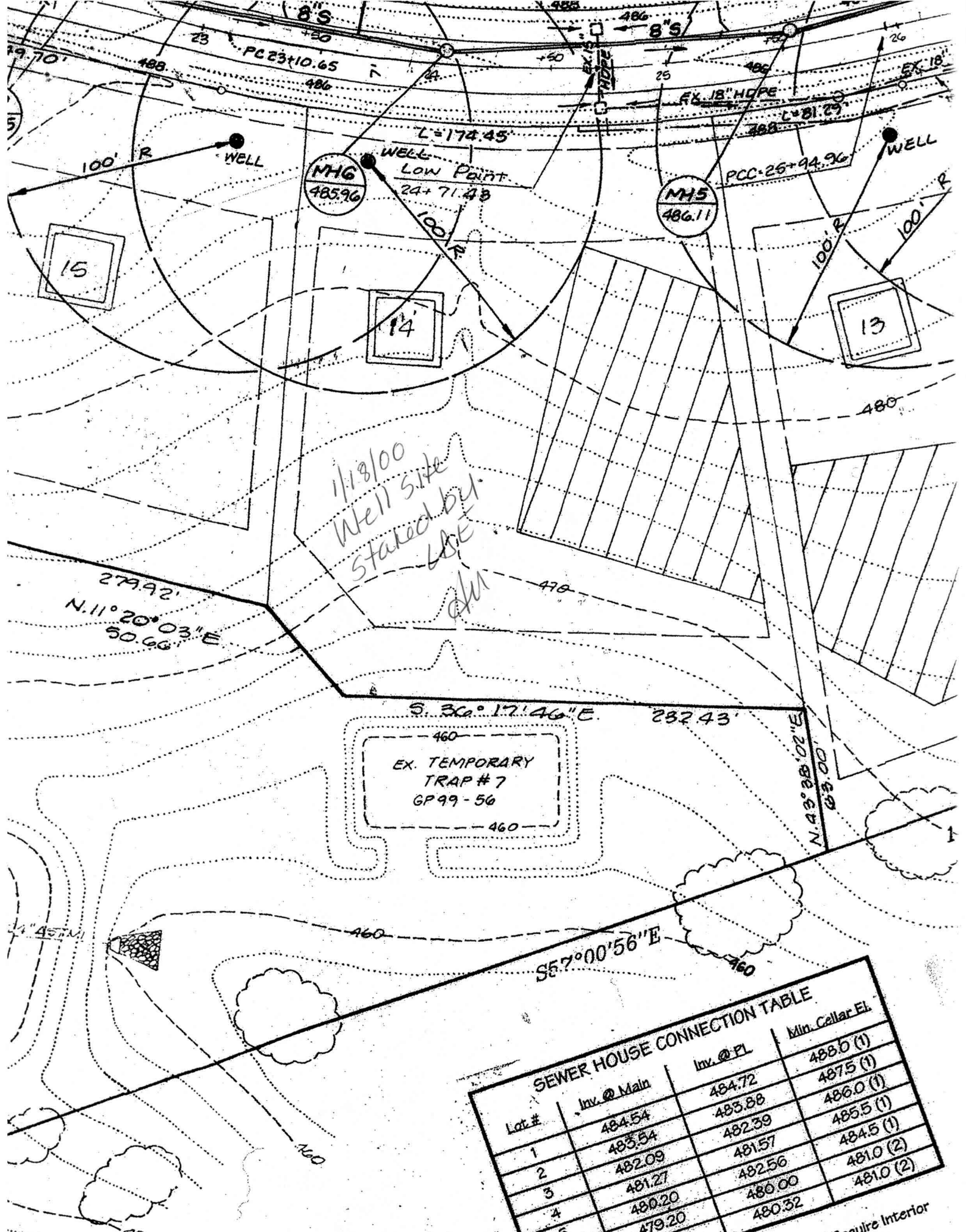
Piping to house House Connection
Type: POLYETHYLENE PVC sleeved to undisturbed soil at wall penetration: Yes
PSI: 1" (160 psi min) Approximate length of sleeve: _____
Depth of supply line: 42" (36" min) Sleeve caulked and sealed properly:

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. 6/6/01
Signature of company representative responsible for installation date

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

Date Insp. Requested: 5/18/01 late Date Insp. Approved: 5/23/01 (SRK)
Inspection Data: Pitless adapter and water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope installed inside of well casing
Correct well tag attached properly and casing 3" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter



SEWER HOUSE CONNECTION TABLE			
Lot #	Inv. @ Main	Inv. @ PL	Min. Cellar El.
1	484.54	484.72	488.0 (1)
2	483.54	483.88	487.5 (1)
3	482.09	482.39	486.0 (1)
4	481.27	481.57	485.5 (1)
5	480.20	482.56	484.5 (1)
	479.20	480.00	481.0 (2)
	479.12	480.32	481.0 (2)

2-5 Require Interior