

12/1/86
EARLY PM

05-386608

approved 12/5/86
C Williams

PERMIT

P 38175
A 26359

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

BUREAU OF ENVIRONMENTAL HEALTH
461-9933

ELLICOTT CITY

DISTRICT 5th
DATE 12/1/86

INDEXED

Norman Collins

IS PERMITTED TO INSTALL ALTER

ADDRESS PHONE 442-2235

SUBDIVISION Kalmia Farms I ROAD 5245 Kalmia Drive LOT 12

PROPERTY OWNER Gary Besosa
Crosen Development

ADDRESS

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

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 3 feet below original grade. 5 feet of stone below distribution pipe.

LOCATION - Start first trench 235 feet from the front lot line and 35 feet from the left lot line as seen when facing the property from Kalmia Drive. Run trench(s) along contour toward right side of property remaining at least 100 feet from any well.

NOTE - No trench to exceed 100 feet in length. If more than one trench used, a distribution box is required. 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. ok/cw

BLDG PERMIT SIGNED
AND RETURNED 4/27/86
Serial # 17985
DATE 4/18/86

PLANS APPROVED BY C. Williams

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.

BLDG PERMIT SIGNED
AND RETURNED 5/24/87
Serial # 10453 - Paul

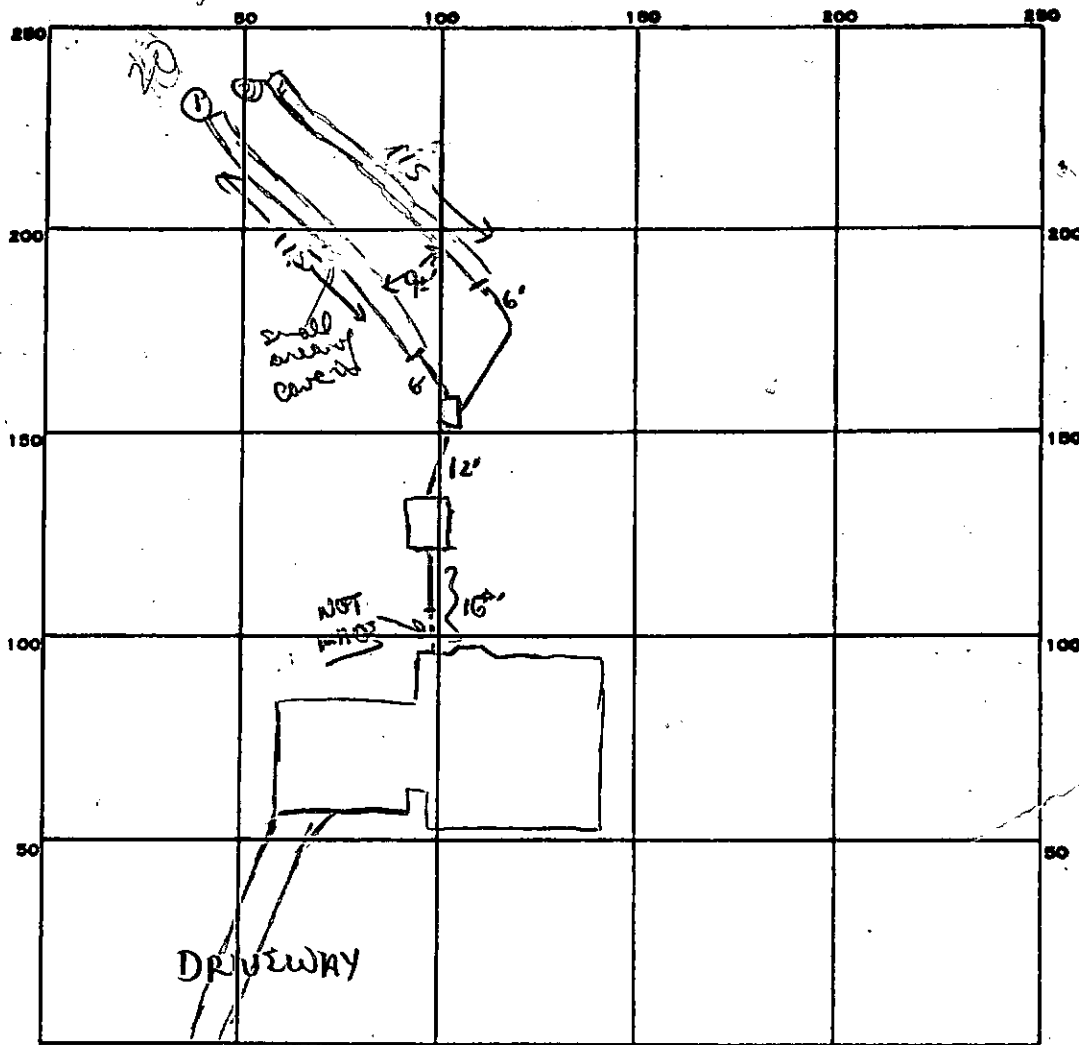
INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

*CALL 992-2330 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1082

720
8000

A 26359



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

KALMIA DRIVE

PERMIT CARD

SEPTIC TANK, LEVEL

1500 gal

CLEANOUTS

close to 3' limit on septic

DISTRIBUTION BOX, LEVEL

TILE FIELD, DEPTH

8' + 8'

FT. TRENCH WIDTH

2 1/2 FT.

GRAVEL DEPTH

4 1/4 FT

TOTAL LENGTH

230 FT

NUMBER OF TRENCHES

2

INSIDE WALL

TOTAL BOTTOM AREA 920

SEEPAGE PITS, INSIDE DIAMETER

—

FT.

DEPTH BELOW INLET

—

FT.

ABSORBENT AREA

920

SQ. FT.

REMARKS

12/1/86 OK to add stone pipe paper to both trenches

OR to cement all lines. House connection apparently not to be made. 12/21/86 SYSTEM TOO SMALL GOOD

5 FT SHOULD BE 750 S OF T ADD 2 TRENCHES

9 FT DEEP 40 FT LONG 4 FT STONE AT ENDS OF FINISHED TRENCH

ADD 80 FT TO EACH TRENCH 12/5/86 CW

DATE SYSTEM APPROVED

12/5/86

INSPECTOR

CW

175
9
300

15
75
150

180
720 MIN
75
375
375
750

75
4
30

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A _____

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

P.O. BOX 476 ELLICOTT, MARYLAND 21043
TELEPHONE: 992-2330

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION KALMIA FARMS SEC. I LOT NO. 12

ROAD AND DESCRIPTION TRIADELPHIA MILL ROAD

SIZE OF LOT _____ TYPE BLDG. _____

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.

SIGNATURE OF APPLICANT _____

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

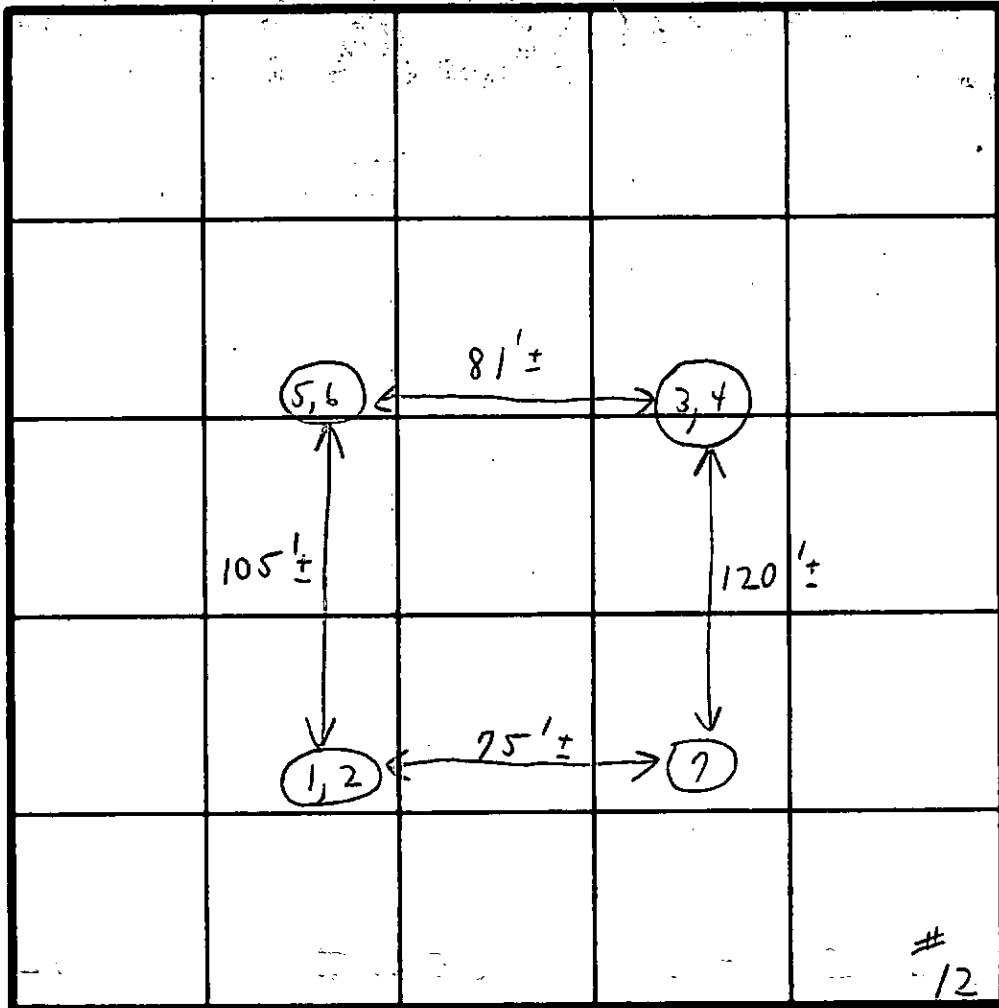
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 10/24/78 Reaccomplished.
C.B.D.

THIS IS NOT A PERMIT

SOIL PROFILE

Below
clay
sandy
loam



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Road B

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/9/77	1	3 1/2'	2:57	3:00	3:00	3:05	5 min
	2	12 1/2'	2:57	3:05	3:05	3:08	6 min
	3	3 1/2'	3:02	3:04	3:04	3:07	3 min
	4	12 1/2'	3:03	3:04	3:04	3:07	3 min inlet 3'
	5	2'	3:01	3:03	3:03	3:05	2 min
	6	10 1/2'	3:01	3:06	3:06	3:10	4 min
	7	11 1/2'	Visual log			6/23	4 min

REMARKS

Hold for field located certified hole.

TYPE OF SOIL

TESTED BY

C. B. V.

ALSO PRESENT

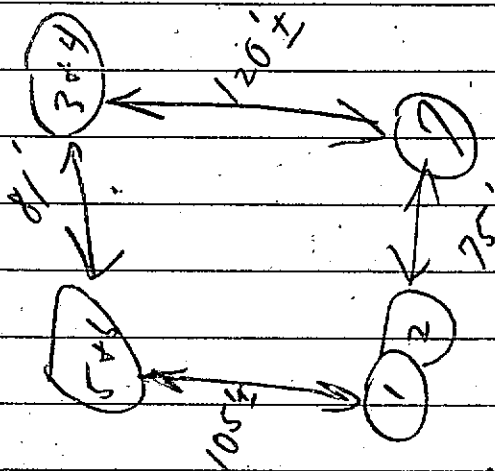
Fyock's crew

Field sheet

#12 hot
Fyochs
man
8/9/77

Soil Profile	Tests	#1 Start	#2 Start	Finish	Total	
8/9/77 known below clear	1	3 1/2'	2:57	3:00	3:05	5m
	2	12 1/2'	2:57	3:05 ^{out}	3:08	6m
	3	3 1/2'	3:02	3:04	3:07	2m
	4	12 1/2'	3:03	3:04	3:07	3m
	5	2'	3:01	3:03	3:05	2m
	6	10 1/2'	3:01	3:06	3:10	4m
	7	Vertical		11 1/2' dry		623

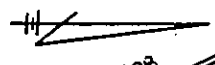
Hold for post location
at
central road



Road P

KALMIA DRIVE

EX. 50' R/W



LOT 13

LOT 11

A = 325.00'
L = 204.44'

REPAK - ASSUMED
ELEV. 300.0

N-71° 23' 35" W - 363.91'
300'

60' BRL
N-16° 18' 11" E - 541.46'

*Orig location of flat
try to run pipe &
be in same alignment
as first trench - 4'*

X = 48" FENCE
ENCLOSING POOL

LOT #2 POOL
3.006

1200 GAL. SEPTIC TANK
DISTRIBUTION

B.P. 70161
weirde/s.A.

NO IMPACT
ON
USE ON
BOAT C,
OK
PROCESSED
3/24/57

Will

PROVIDE 144' OF TRENCH,
8' DEEP, 2' WIDE AND FILLED
WITH 5' OF STONE. MAINTAIN
10' BETWEEN TRENCHES. } ok

HOUSE:
1ST FL. - 305.0 ✓
BSMT. FL. - 296.2 ✓
INV. OUT - 302.18 ✓

SEPTIC TANK:
EX. GR. - 304.0 ✓
FIN. GK -
INV. IN - 301.97 ✓
INV. OUT - 201.72 ✓

DISTRIBUTION BOX:
EX. GR. - 304.0 ✓
FIN. GR. - 304.0 ✓
INV. IN - 301.0 ✓

WELL:
EX. GR. - 305.0
FIN. GR. - 305.0

NOTES:

- EX. ZONING: R
- TAX MAP: 27
- HOUSE TO HAVE 4 BEDROOMS.
- TODD WAS FIELD RUN BY KOENDER ASSOCIATES.
- CONTRACTOR TO SET GRADES IN FIELD
- NO GRAVITY CENTER SERVICE TO BASEMENT

S-290
W.S. 20 18' 49" W - 455.00'
12/1/18, 17/1/91, 12/3/50

PLAT REFERENCE: KALMIA FARM - SECT. 1 - PLAT 4170

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

PUMP INSTALLATION

THE FOLLOWING STATEMENT MUST BE COMPLETED BY THE HOME OWNER
WHEN A PUMP IS INSTALLED BY A PERSON OTHER THAN THE WELL
DRILLER:

My well driller is not to install the pump for my water well, and I
hereby certify that it will be my responsibility to have a Pump Permit
taken out by a registered master plumber or certified pump installer.
It will be my responsibility to notify the Health Department before
and during the installation so that inspections can be made by their
representative. (Pursuant to Chapter XVII, of the Plumbing Code of
Howard County.)

David O. Crozen

(Name)

CROZEN DEVELOPMENT CO.

854-6655

3775 Shady Lane Clewiston 21738

(Address)

Lot 12

Kalmia Farm

(OEP Well Permit Number)

3/10/86
(Date)

DATE Received: [] [] [] [] [] [] DATE WELL COMPLETED: **042286** Depth of Well: **165** (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL": **HC-81-1391**

OWNER: **CROSEN Development** STREET OR RFD: last name **KALMIA DR.** first name TOWN **DAYTON** SUBDIVISION **KALMIA FARMS** SECTION LOT **12**

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	
SAND	0	58	
GRAY Mica Rock	58	165	✓

- 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. **238**
DRILLERS SIGNATURE: *Joseph E. Maigne*
(MUST MATCH SIGNATURE ON APPLICATION)

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

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
TYPE OF GROUTING MATERIAL
CEMENT **CM** BENTONITE CLAY **BC**
NO. OF BAGS **13** NO. OF POUNDS **1222**
GALLONS OF WATER **78**
DEPTH OF GROUT SEAL (to nearest foot)
from **0** ft. to **30** ft.

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

MAIN CASING TYPE: **ST** **6** **63**
Nominal diameter (nearest inch) Total depth of main casing (nearest foot)

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

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

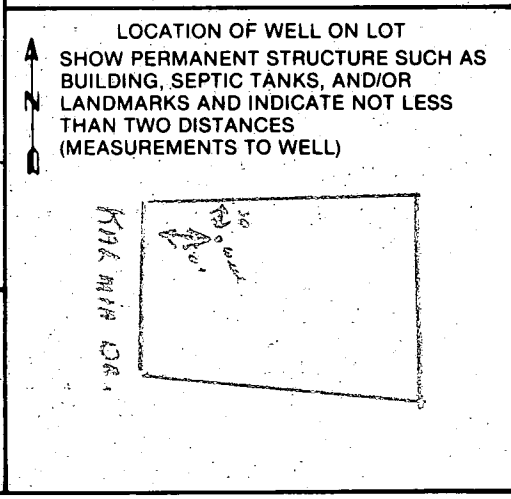
C2
DEPTH (nearest ft.)
EACH SCREEN: **H0** **62** **165**
SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)

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

C3
PUMPING TEST
HOURS PUMPED (nearest hour) **3**
PUMPING RATE (gal. per min. to nearest gal.) **12**
METHOD USED TO MEASURE PUMPING RATE **bucket**
WATER LEVEL (distance from land surface) BEFORE PUMPING **24** WHEN PUMPING **43**
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:
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 **1** (nearest foot) **-** below }



B 1 4593

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

OEP PERMIT NUMBER

HO-81-1391

fill in this form completely

(THIS NUMBER IS TO BE PUNCHED IN COLUMNS 3-6 ON ALL CARDS)

please print or type

Date Received

03/08

OWNER INFORMATION

CROSTEN NEWKLOPER

3775 SHADY LANE

CLEWOOD MD 21738

B 3

LOCATION OF WELL

HOWARD COUNTY

KALMIA FARM

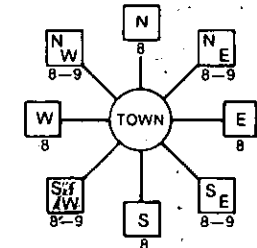
SECTION 44 46 LOT 12

DAYTON NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) 2 1/4 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Kalmia Drive NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD ENTER FT or MI 80 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 NAME A-26359 COUNTY NO.
OEP SIGNATURE STATE HEALTH INSERT S
DATE ISSUED 032786 B Nixton 09-27-85
NORTH GRID 505000 EAST GRID 0796000

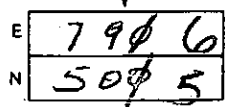
APPROXIMATE DEPTH OF WELL 260 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

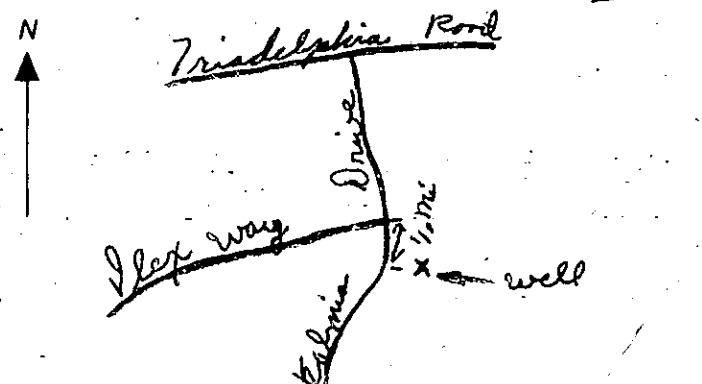
- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-Percussion ROTARY (Hydraulic Rotary)
CABLE Reverse-ROTary Drive-POINT
other

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



4/22/86 WELL OK SEE WELL OTHER SIDE X RN

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

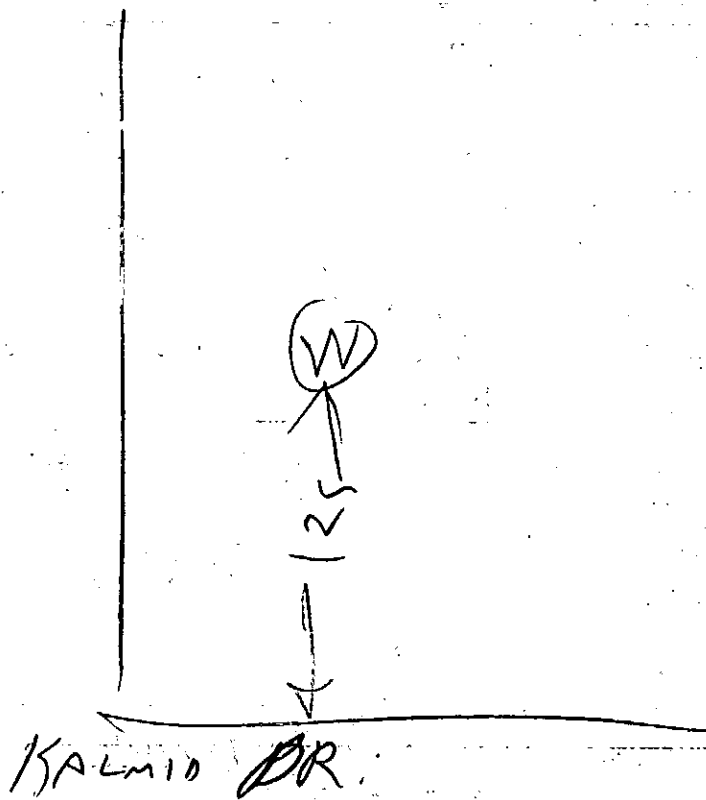
- THIS WELL WILL NOT REPLACE AN EXISTING WELL
THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
THIS WELL WILL DEEPEM AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER GAP

FORCE SA WRITE INITIALS IN BOX PERMIT No. HO-81-1391

SPECIAL CONDITIONS



- ① 63 FT pipe
- ② 29 ft open hole
- ③ WELL SITE OK
- ④ 13 BAGS
- ⑤ LOCATION OK
- ⑥ WELL OK

PJH

