

C 1 **3854** SEQUENCE NO. (MDE USE ONLY)
 1 2 3 6
 (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 TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
 COUNTY NUMBER

ST/CO USE ONLY
 DATE Received
 MM DD YY
 8 13

DATE WELL COMPLETED
 MM DD YY
 11 26 04

Depth of Well
 22 400 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
 HO-94-4066
 28 29 30 31 32 33 34 35 36 37

OWNER Land Marketing Company/Hants
 STREET OR RFD 15305 Old Frederick Rd TOWN Lisbon
 SUBDIVISION Hankin Pump SECTION _____ LOT 2

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	
Brown Shale	2	50	✓
Brown Slate	50	55	
Blue Slate	55	60	
Brown Slate	60	70	✓
Blue Slate	70	315	
Flint Rock	315	320	✓
Blue Slate	320	400	

GROUTING RECORD yes no
 WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT CM BENTONITE CLAY BC
 NO. OF BAGS 19 NO. OF POUNDS 1300
 GALLONS OF WATER 114
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 TOP 304 ft. to 304 BOTTOM 58 ft.
 (enter 0 if from surface)

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)
PL 6 60
 60 61 63 64 66 70

OTHER CASING (if used)
 diameter depth (feet)
 inch from to
 E A C H C A S I N G

SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER
C 2 DEPTH (nearest ft.)
 1 2
 E 1 40 58 400
 A 8 9 11 15 17 21
 C 2 23 24 26 30 32 36
 S 3 38 39 41 45 47 51
 R E E S L O T S I Z E 1 2 3
 N

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. M SD 112
 DRILLERS SIGNATURE [Signature]
 (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. D

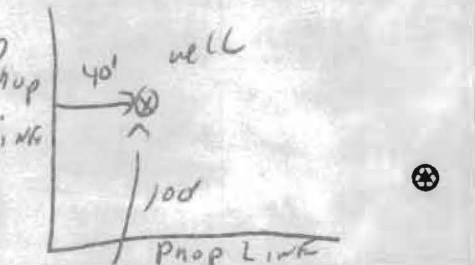
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68
 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
 METHOD USED TO MEASURE PUMPING RATE Bucket
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING 44 ft.
 WHEN PUMPING 170 ft.
 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 INSTALLED PUMP (CIRCLE) (YES or NO) 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
 - below } 2 (nearest foot)

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)



B 1 **18684**

SEQUENCE NO. (MDE USE ONLY)

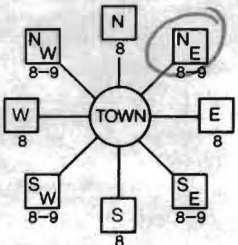

STATE OF MARYLAND
PERMIT TO DRILL WELL
W 521538 please print or type

STATE PERMIT NUMBER
HO - 94 - 4066
fill in this form completely

Date Received (APA)
OWNER INFORMATION
8 MM DD YY 13
Land Marketing Consultants
15 Last Name Owner First Name 34
3060 Washington Rd
36 **GLENWOOD MD 21738** 55
57 Town 70 State 72 Zip 76

B 3 **Howard** LOCATION OF WELL
8 COUNTY 21
HARBOR Prop
23 SUBDIVISION 42
SECTION **-** 44 46 LOT **2** 48 50
LISBOW
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) **2** M I
73 76 77 78

DRILLER INFORMATION
Ralph E. MAYNE M S D 117
Driller's Name 76 License No. 81
Ralph E. MAYNE INC
Firm Name
17024 Hardy Rd. Mt. Airy MD 21771
Address
Ralph E. Mayne 10-14-04
Signature Date

B 4
1 2
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

11 NEAR WHAT ROAD 30
15305 OLD Fred Rd.
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 **250** 37
DISTANCE FROM ROAD **ft**
ENTER FT OR MI 38 39
TAX MAP: **8** BLK: **B** PARCEL **395**

B 2 **WELL INFORMATION**
1 2
APPROX. PUMPING RATE (GAL. PER MIN.) **5**
8 500 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **14** 20

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

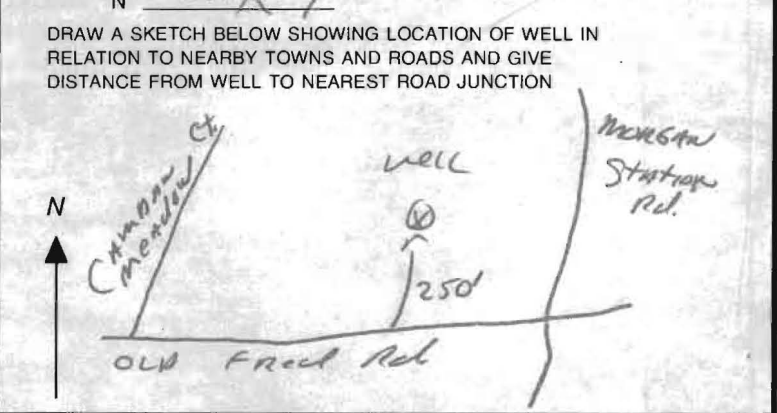
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard COUNTY NAME
AS16060 COUNTY NO.
STATE SIGNATURE _____ INSERT S →
DATE ISSUED **11/10/04** **11/10/05** 41
43 MM DD YY 48 CO SIGNATURE _____ EXP. DATE
NORTH GRID **787** 0 0 0 EAST GRID **548** 0 0 0
50 55 57 63

APPROXIMATE DEPTH OF WELL **150** FEET
24 28
APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

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 **548** 000
N **787** 000

METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
39 **AIR-ROTary** AIR-PERCussion ROTARY (Hydraulic Rotary)
37 **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
39 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 DEEPEM AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52



Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROX. PERMIT NUMBER 54 G A P 63
PERMIT No. **HO - 94 - 4066**
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED **Joan Miller Job**

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-4066
 Location of property (road) 15305 Old Frederick Rd
 Subdivision Harrison P. of Lot 7 Block B Plat 8 Sec. 2 P. 395
 Well Driller Ralph Mayne Owner Land Marketing Co.

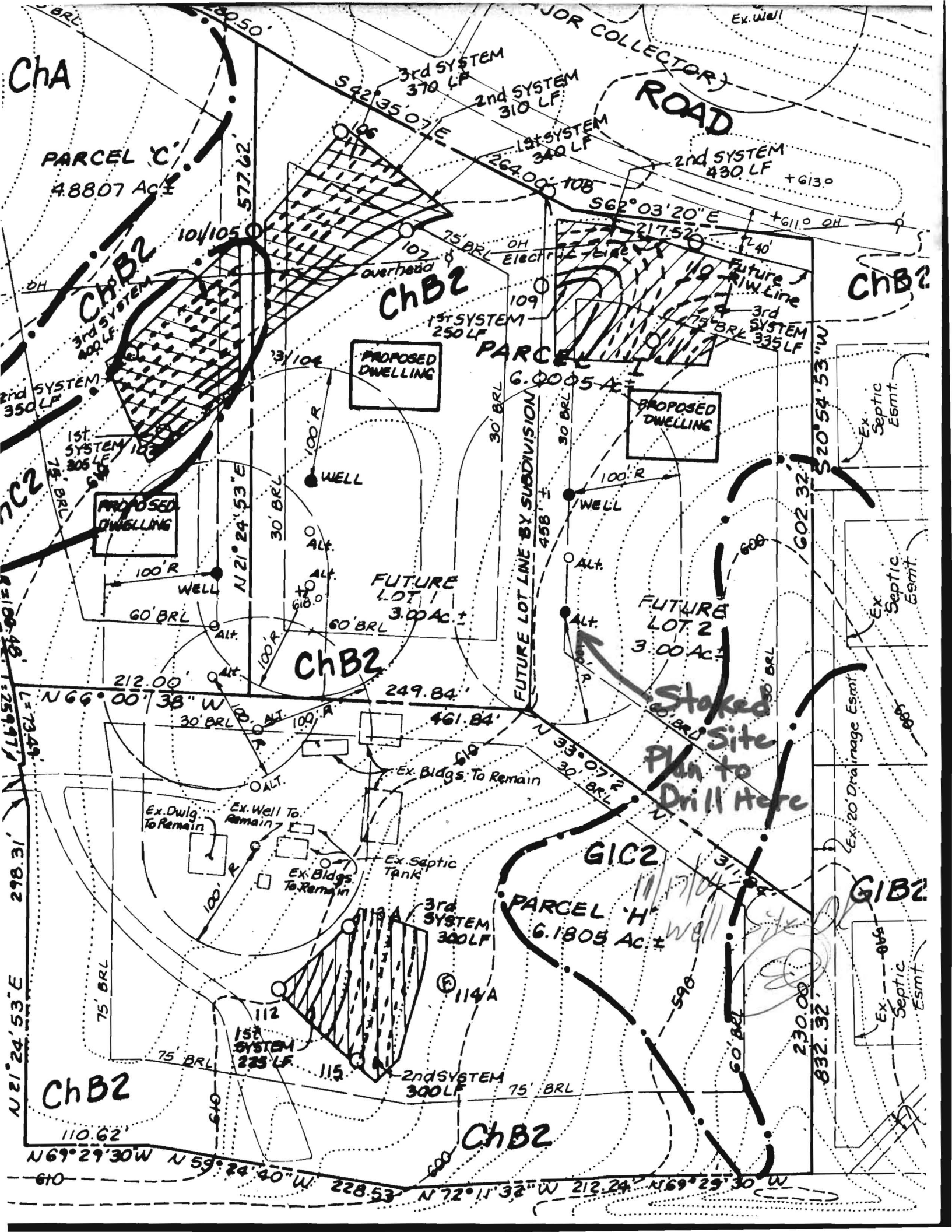
Depth of well 400
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 44

I. High rate pumping -- reservoir drawdown

Time pump started 8:00 Pumping rate 10 GPM
 Total time 30 min to reach pumping water level 170 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 $\frac{1}{2}$ gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:00	44 ft	6 Sec	Test Started	10 GPM
8:30	170 ft	20 Sec		3 GPM
8:45	170 ft	20 Sec		3 GPM
9:00	170 ft	20 Sec		3 GPM
9:15	170 "	20 "		3 "
9:30	170 "	20 "		3 "
9:45	170 "	20 "		3 "
10:00	170 ft	20 Sec		3 GPM
10:15	170 ft	20 Sec		3 GPM
10:30	170 ft	20 Sec		3 GPM
10:45	170 "	20 "		3 "
11:00	170 "	20 "		3 "
11:15	170 "	20 "		3 "
11:30	170 ft	20 Sec		3 GPM
11:45	170 ft	20 Sec		3 GPM
12:00	170 ft	20 Sec		3 GPM
12:15	170 "	20 "		3 "
12:30	170 "	20 "		3 "
12:45	170 "	20 "		3 "
1:00	170 ft	20 Sec		3 GPM
1:15	170 ft	20 Sec		3 GPM
1:30	170 ft	20 Sec		3 GPM
1:45	170 "	20 "		3 "
2:00	170 "	20 "		3 "
HD-224 2:15	170 ft	20 Sec		3 GPM
2:30	170 ft	20 Sec		3 GPM



ChA

PARCEL C
4.8807 Ac

MAJOR COLLECTOR ROAD

3rd SYSTEM 370 LF
2nd SYSTEM 310 LF
1st SYSTEM 264.00 LF

2nd SYSTEM 430 LF

ChB2

ChB2

ChB2

PARCEL H
6.0005 Ac

PROPOSED DWELLING

PROPOSED DWELLING

PROPOSED DWELLING

ChB2

FUTURE LOT 2
3.00 Ac

FUTURE LOT 1
3.00 Ac

Staked Site Plan to Drill Here

GIC2

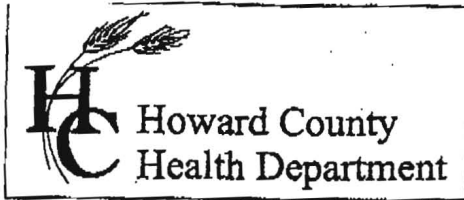
PARCEL H
6.1805 Ac

GIB2

ChB2

ChB2

$N 69^{\circ} 29' 30'' W$ $N 59^{\circ} 24' 40'' W$ $N 72^{\circ} 11' 32'' W$ $N 69^{\circ} 29' 30'' W$



3525 H Ellicott Mills Drive • Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

- The well site has been staked by _____ on _____ and is ready for site inspection.
- Tim Feaga will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

11/17/04
OK (EO)

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:	57877	Account #:	5902
Reference:	Competent Builders	Company:	Competent Builders
Location:	12574 Hall Shop Road Fulton, MD 20759	Requested By:	Hari Singh
Date/ Time Collected:	1/23/2006 1130	Source:	Well Water
Date/Time Rec'd:	1/23/2006 1255	Site:	Laundry Room Utility Tap
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J.Yeager 6176JY	pH:	5.9
		Well #:	HO-94-3552

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYS
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	1/24/2006 / 0800 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	1/24/2006 / 0800 / BCD
Nitrate	18.8	mg/L	10	601	1/24/2006 / 0840 / BCD
Turbidity	3.40	NTU	<10	SM18 2130B	1/24/2006 / 0915 / AMD
Sand	NS	mg/L	5	Visual/Gravimetric	1/24/2006 / 0915 / AMD


NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH tested on-site

Reason for Test : Use & Occupancy
 Building Permit # : B00146307

Date Reported: 1/24/2006

Laboratory Director: _____



Charles Mooshian, B.S.,M.T.

MD State Certification # 133

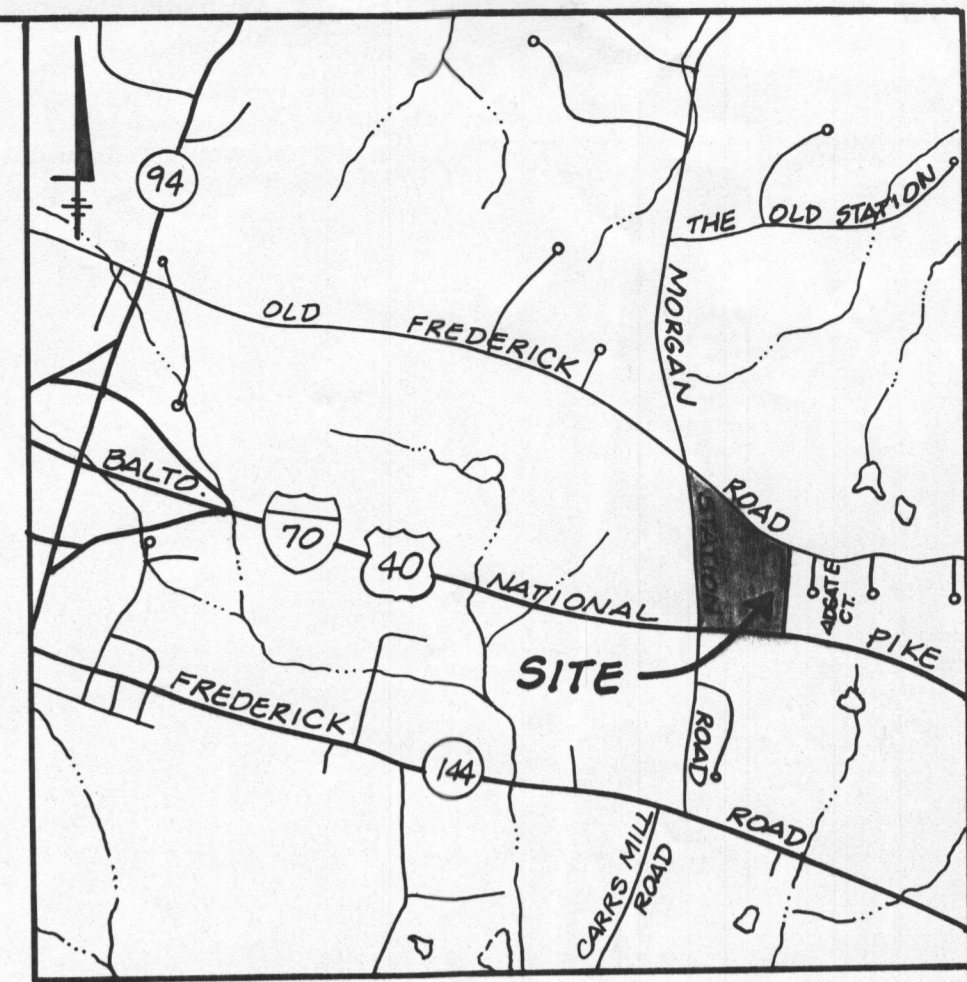
THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

SOILS LEGEND:

- ChA - CHESTER SILT LOAM - 0 TO 3% SLOPES
- ChB2 - CHESTER SILT LOAM - 3 TO 8% SLOPES - MOD. ERODED
- ChC2 - CHESTER SILT LOAM - 8 TO 15% SLOPES - MOD. ERODED
- GIB2 - GLENELG LOAM - 3 TO 8% SLOPES - MOD. ERODED
- GIC2 - GLENELG LOAM - 8 TO 15% SLOPES - MOD. ERODED

LEGEND

- SEWAGE DISPOSAL EASEMENT
- PROPOSED WELL
- ALTERNATE WELL LOCATION
- SOILS TYPE
- PERC TEST LOCATION / PASSED
- PERC TEST LOCATION / FAILED



VICINITY MAP

Scale: 1" = 2000'

NOTES:

1. EXISTING ZONING: RC (RURAL CONSERVATION)
2. DEED REFERENCE:
 - a. PARCEL 'C': 4.8807 Ac. +/- LIBER 5900 FOLIO 290
 - b. PARCEL 'H': 6.1805 Ac. +/- LIBER 5900 FOLIO 270
 - c. PARCEL 'I': 6.0005 Ac. +/- LIBER 5900 FOLIO 282
3. TOTAL AREA OF LOTS: 17.0617 AC. +/-
4. THE LOTS SHOWN COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
5. EXISTING WELLS HAVE BEEN SHOWN WITHIN 100 FEET OF THE LOT WHICH MAY EFFECT THIS PROPOSAL.
6. THE TOPOGRAPHY SHOWN IS TAKEN FROM HOWARD COUNTY AERIAL TOPOGRAPHY AND THE AREA WITHIN THE SEWAGE DISPOSAL AREA HAS BEEN FIELD VERIFIED.

PRELIMINARY SEPTIC SYSTEM DESIGN

Parcel/Lot #	# Bdrms.	Trench Design / Trench Length Req'd.	Trench Length Provided
Parcel 'C'	5	1 st System - Shallow / 60 LF/BR = 300	1055 LF
		2 nd System - Shallow / 60 LF/BR = 300	
		3 rd System - Shallow / 60 LF/BR = 300	
Parcel 'H'	5	1 st System - Deep / 45 LF/BR = 225	825 LF
		2 nd System - Shallow / 60 LF/BR = 300	
		3 rd System - Shallow / 60 LF/BR = 300	
Lot 1	5	1 st System - Shallow / 60 LF/BR = 300	1020 LF
		2 nd System - Shallow / 60 LF/BR = 300	
		3 rd System - Shallow / 60 LF/BR = 300	
Lot 2	5	1 st System - Deep / 45 LF/BR = 225	1015 LF
		2 nd System - Shallow / 60 LF/BR = 300	
		3 rd System - Shallow / 60 LF/BR = 300	

Well sites staked by Mike Santorel called @ 10/10/02 5/11/02

LDE, INC.

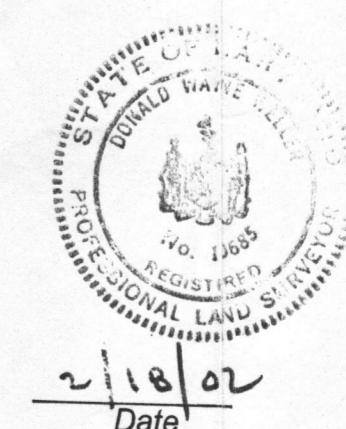
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED: BDB	PERCOLATION CERTIFICATION PLAT HARBIN PROPERTY TAX MAP 8 GRID 8 PARCEL 9 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND aka COPE/KNILL	SCALE: 1" = 100'	
DRAWN: KBW		DRAWING: 1 OF 1	
CHECKED: BDB		JOB NO. 01-060	
DATE: 1/02		OWNERS: LINDA HARBIN, ANITA M. FUNK & JOAN R. MILLER c/o HERITAGE LAND DEVELOPMENT 3060 Washington Road Suite 220 Glenwood, Maryland 21738 (410) 981-1162	FILE NO.

PERC CERTIFICATION:

I certify that the locations shown hereon are based on field locations done under my supervision and are correct to the best of my professional knowledge and belief.

[Signature]
D. Wayne Weller, Professional Land Surveyor
MD Reg. No. 10885



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE
HOWARD COUNTY HEALTH DEPARTMENT

[Signature]
HOWARD COUNTY HEALTH OFFICER
DATE: 4/30/02