

C 1 14585 SEQUENCE NO. (MDE USE ONLY)

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 A45096

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED MM DD YY 8 16 02

Depth of Well 22 240 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-3454

OWNER CARRIGAN HOMES last name OLD FREDERICK ROAD first name TOWN ELLICOTT CITY SUBDIVISION KEFAUVER PROPERTY SECTION LOT 3

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Sand (0-36), Gray Mica Rock (36-240).

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 15 NO. OF POUNDS 1910 GALLONS OF WATER 90 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 37 ft.

CASING RECORD

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 40

Table for OTHER CASING (if used) with columns for diameter inch and depth (feet) from to.

SCREEN RECORD

screen type or open hole (insert appropriate code below) ST BR HO PL OT

Table for SLOT SIZE and DIAMETER OF SCREEN with columns for slot size and diameter (nearest inch).

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

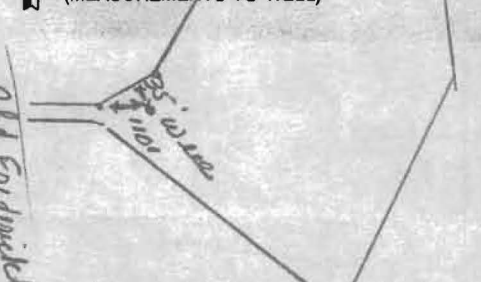
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 6 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 32 ft. WHEN PUMPING 191 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 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)



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES Y NO 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 M S D O 24 DRILLERS SIGNATURE Joseph L. Mayne (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

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

B 1 03799

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-94-3454

fill in this form completely

W517355 please print or type

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13

Carrigan Homes
9812 Caitheis Ct.
Ellicott City Md 21042

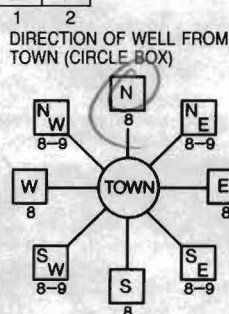
LOCATION OF WELL

Howard
Kekouren Property
Ellicott City
3 MILES FROM TOWN

DRILLER INFORMATION

Joseph E. Mayra M.S.D. 24
Joseph E. Mayra Well Drilling
5512 Ridge Road Ellicott City Md 21171
Joseph E. Mayra 7/8/02

DIRECTION OF WELL FROM TOWN



Old Frederick Rd
775 FT DISTANCE FROM ROAD
TAX MAP: 18 BLK: 1 PARCEL 19

WELL INFORMATION

APPROX. PUMPING RATE 5 GAL. PER MIN.
AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD COUNTY NAME
A45096 COUNTY NO.
STATE SIGNATURE
DATE ISSUED 07/29/02
CO SIGNATURE Mark Liffie 7/29/03
EXP. DATE
NORTH GRID 535 000 EAST GRID 0855 000

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 300 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

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 DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

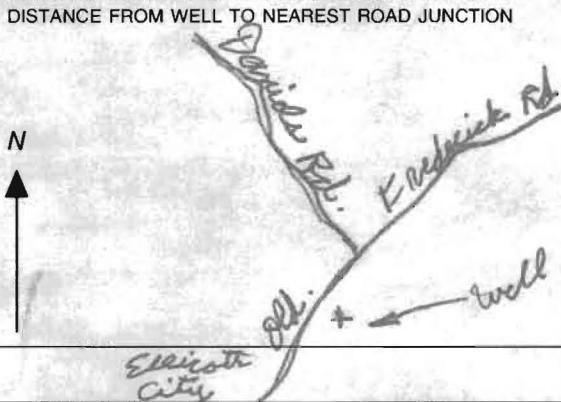
SOURCES OF DRILLING WATER

- well

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8505
N 5305

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



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER GAP
PERMIT No. HO-94-3454

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



10/6/03  
Am 2 time

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: \_\_\_\_\_ Telephone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

(Must circle one) Licensed Plumber      Licensed Well Driller      Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:

Name (Print): \_\_\_\_\_ License# \_\_\_\_\_

**\*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: Kefauver Telephone #: \_\_\_\_\_  
Subdivision: \_\_\_\_\_ Lot #: S Well Tag #: HO-94-3454 ✓  
Site Address: 8517 Old Frederick Rd.

**Submersible Pump Data**

Make: \_\_\_\_\_  
Model #: \_\_\_\_\_  
Pump Capacity \_\_\_\_\_ GPM  
Well Yield: \_\_\_\_\_ GPM

**Pitless Adapter**

Make: \_\_\_\_\_  
Model#: \_\_\_\_\_  
Depth: \_\_\_\_\_ (36" min)  
NSF/WSC approved: \_\_\_\_\_

**Well Cap and Electric Conduit**

Two piece watertight cap: \_\_\_\_\_  
Screened, vented well cap: \_\_\_\_\_  
Cap secured to casing: \_\_\_\_\_  
Conduit min 18" B.G.: \_\_\_\_\_  
Conduit secured to well cap: \_\_\_\_\_

Depth of well encountered at time of pump installation: \_\_\_\_\_ (feet)  
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, Cable guards, or other acceptable method used- Must circle one

**Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing** \_\_\_\_\_

**Piping to house**

Type: \_\_\_\_\_  
PSI: \_\_\_\_\_ (160 psi min)  
Depth of supply line: \_\_\_\_\_ (36" min)

**House Connection**

PVC sleeve to undisturbed soil at wall penetration: \_\_\_\_\_  
Approximate length of sleeve: \_\_\_\_\_  
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.**

Signature of company representative responsible for installation \_\_\_\_\_ date \_\_\_\_\_

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 10/6/03 Inspector: KB/SD

Inspection Data: Pitless adapter watertight & 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 not seen outside of well cap/casing ✓  
Correct well tag attached properly and casing 8" above finished grade ✓  
Water supply line sleeved adequately at house connection ✓  
Adequate grout observed below pitless adapter ✓

# CASSELL TESTING, INC.

ENVIRONMENTAL SAMPLING AND TESTING

10940 BEAVER DAM ROAD, HUNT VALLEY, MD 21030-2211  
(410) 252-7742

The Plumber  
12400 Frederick Road  
West Friendship, Maryland 21794

Report Date: October 23, 2003

Listed below are results of drinking water analyses on a water sample collected by Nancy Valimaki (Certification # 8989 NV) and delivered to Cassell Testing for analysis:

CTI Number: 03-6155  
Reference: 8517 Old Frederick Road U&D  
Well Tag #: HO-94-3454  
Received in lab: 10/22/03 at 10:56 am

**RESULTS:**

Coliform bacteria:	Absent	Pass
Nitrate-N:	5.2 mg/L	Pass
Turbidity:	3.6 NTU	Pass
pH:	6.3 Units	
Sand:	Negative	

*Heather R. Beam*  
Heather R. Beam  
Cassell Testing, Inc

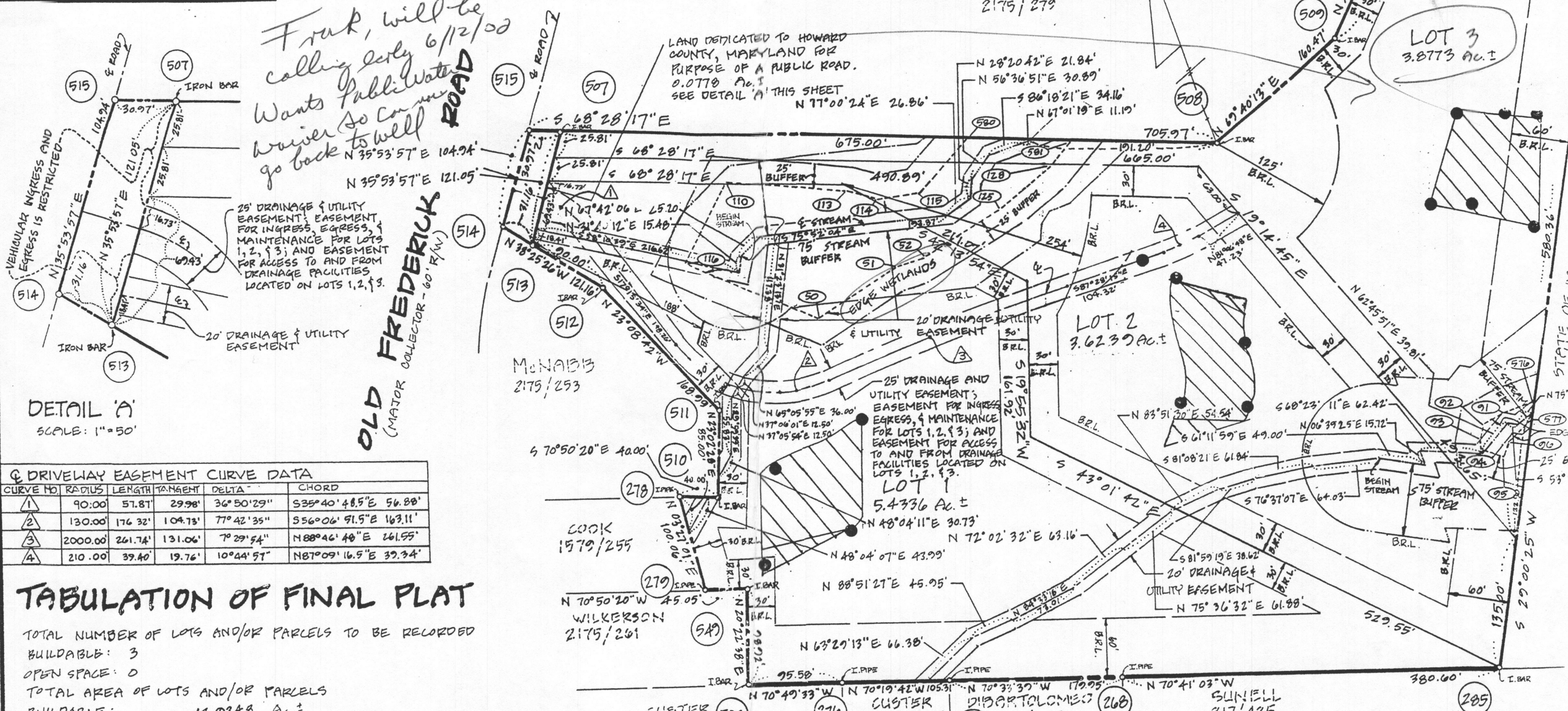
Please n  
collecti

not responsible for the  
le.

*Need  
WPI  
form*

547	835023.239	854710.478	116	50	S 45° 42' 58" E	148.45
582	834930.512	854676.035				

Frank, will be calling early 6/12/00  
Wants Public Water waiver so can go back to well



DETAIL 'A'  
SCALE: 1"=50'

CURVE NO.	RADIUS	LENGTH	TANGENT	DELTA	CHORD
1	90.00	57.81	29.98'	36° 50' 29"	S 35° 40' 48.5" E 56.88'
2	130.00	176.32	104.73'	77° 42' 35"	S 56° 06' 91.5" E 163.11'
3	2000.00	261.74	131.06'	7° 29' 54"	N 88° 46' 40" E 261.55'
4	210.00	39.40	19.76'	10° 44' 57"	N 87° 09' 16.5" E 39.34'

**TABULATION OF FINAL PLAT**

TOTAL NUMBER OF LOTS AND/OR PARCELS TO BE RECORDED BUILDABLE: 3  
 OPEN SPACE: 0  
 TOTAL AREA OF LOTS AND/OR PARCELS BUILDABLE: 12.9348 AC.±  
 TOTAL OPEN SPACE: 0  
 AREA AND % OF DRY GROUND USABLE OPEN SPACE: 0  
 TOTAL AREA OF ROAD RIGHT OF WAY TO BE RECORDED INCLUDING WIDENING STRIPS: 0.0778 AC.±  
 TOTAL AREA OF SUBDIVISION TO BE RECORDED: 13.0127 AC.±

Kefauver (Owen Kelly) 410 977 8927  
 F-90-192

APPROVED: FOR PRIVATE WATER & PRIVATE SEWAGE. HOWARD COUNTY HEALTH DEPARTMENT.

*Jesse M. Brooks* 2/27/91  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING.

**OWNER'S CERTIFICATE**

I, MARY L. KEFAUVER, OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADAPT THIS PLAN OF SUBDIVISION AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MD. ITS SUCCESSORS AND ASSIGNS (1) THE RIGHT TO LAY, CONSTRUCT AND MAINTAIN SEWERS, DRAINS, WATER PIPES, AND OTHER MUNICIPAL UTILITIES IN AND UNDER ALL ROADS AND STREET RIGHT-OF-WAYS AND THE SPECIFIC EASEMENT AREAS SHOWN HEREON (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS AND FLOODPLAINS AND OPEN SPACE, WHERE APPLICABLE AND FOR GOOD AND OTHER VALUABLE CONSIDERATION HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY, MD TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREETS AND FLOODPLAINS, STORM DRAINAGE FACILITIES AND OPEN SPACE, AND TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE,

**SURVEYOR'S CERT**

I HEREBY CERTIFY THAT THE FINAL PLAT IS CORRECT, THAT IT IS A SUBDIVISION OF LANDS CONVEYED BY MARY L. KEFAUVER BY DEED DATED AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MD IN LIBER 2175 F. AND THAT ALL MONUMENTS AND MARKERS BE IN PLACE PRIOR TO THE ACQUISITION OF THE SUBDIVISION BY HOWARD COUNTY, MD.

OWNER: MARY KEFAUVER 8507 O. ELLICOTT



## HOWARD COUNTY HEALTH DEPARTMENT

Bureau of Environmental Health  
3525-H Ellicott Mills Drive, Ellicott City, Maryland 21043-4544  
(410) 313-2640 FAX (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-877-4MD-DHMH



*Penny E. Borenstein, M.D., M.P.H., Acting County Health Officer*

June 21, 2002

Mr. Owen Kelly, President  
Carrigan Homes, Inc.  
9812 Caitlins Court  
Ellicott City, MD 21042

RE: Request for well service Lot 3,  
Kefauver Property

Dear Mr. Kelly;

This is in response to your request (Copy attached) for a waiver to allow the installation of a well at the above referenced property on Old Frederick Road in Ellicott City. At the time of subdivision the property was approved for well and septic systems, however, less than a year ago the property was placed in the planned service area, requiring a public water supply.

We understand the position that you are in with the Army Corps of Engineer's wetland crossing approval and the distance required to run the proposed water line, for these reasons, and the significant hardship that entails, we are granting a waiver to install a well on the property.

Should you require further information, you may contact Greg Mellon or myself at 410-313-2640.

Sincerely,

Frank Skinner, Director  
Bureau of Environmental Health

cc: James Irvin, Department of Public Works  
Greg Mellon



June 12, 2002

Mr. Frank Skinner  
Director Of Environmental Health  
3525-H Ellicott Mills Drive  
Ellicott City, MD 21043

Cc: Jim Irvin, Director of Public Works

Dear Mr. Skinner;

I am writing to request a waiver to allow installation of well service at Lot 3 Kefauver Property (F-90-192) on Old Frederick Road in Ellicott City. The property was originally designated to receive a well until November 2001 when the county changed the plan service area to water hook-ups. Installation of public water to the property would create an unnecessary hardship to us, the property owners, for the following reasons.

1. The property water access contains an area of wetlands requiring review by the Army Corp of Engineering. Approval of public water is not guaranteed by the Corp, especially since the property can be adequately serviced by well water. This course of action will result in significant engineering costs and an even more significant loss of build time with no guarantee of ultimate acceptance by the Corp.
2. We are currently under contract to build a custom home for the Dr. Elias Zambidis family. This contract will be in jeopardy if we cannot proceed with construction immediately. Well water is an acceptable source for Dr. and Mrs. Zambidis and they require a speedy resolution to this matter in order to meet their housing needs.
3. The cost of accessing public water and disturbing an existing wetland area by installation of this system in the existing 800 ft. property pipestem is prohibitive and unnecessary. Well water services the existing homes in the area.

We believe that public water installation on our property will create significant hardships for our company and result in the potential loss of a client as well as the loss of time and money in pursuit of an objective with no guarantee of approval. We seek a waiver to the plan service area requirement for public water service so that we may proceed with well installation and look forward to your prompt resolution of this matter.

Sincerely,

A handwritten signature in cursive script that reads "Owen Kelly".

Owen Kelly  
President

C1 3162 SEQUENCE NO. (MDE USE ONLY)

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.

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY 08 13 11

DATE WELL COMPLETED MM DD YY 07 27 11

Depth of Well 450 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 95 - 2171

OWNER ELY STREET OR RFD 8517 Old Frederick TOWN Elkton City SUBDIVISION SECTION LOT

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows: Soft Brown (0-9), Hard Tan (9-60), Hard Gray (60-450).

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [Y] NO [N] TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 27 NO. OF POUNDS 1350 GALLONS OF WATER 621 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 450 ft.

CASING RECORD

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot) 60 61 63 64 66 70

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 2

Table with columns: E A C H S R E E N, rows for casing depth and slot size.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9 PUMPING RATE (gal. per min.) 11 15 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 ft. WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test) [A] air [P] piston [T] turbine [C] centrifugal [R] rotary [O] other [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 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 [ - ] below LAND SURFACE (nearest foot) 49 50 51

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) 8517 Old Frederick Road

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES [Y] NO [N]

- 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 28.04.04 "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. MW D 304 David Kelly

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 AW D 897 Josh Holmes

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

B 1 9125

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 535261

STATE PERMIT NUMBER

Ho-95-2171 fill in this form completely

Date Received (APA) 06 16 11

OWNER INFORMATION

8 MM DD YY 13 ELY SAM 15 Last Name Owner First Name 34 85 17 01 D Frederick Road 36 Street or RFD 55 Ellicott City, MD 21043 57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

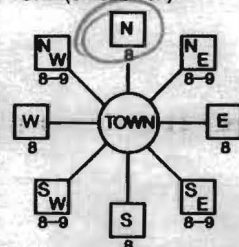
8 COUNTY Howard 21 Kefauver Property 23 SUBDIVISION SECTION 44 46 LOT 3 48 50 52 NEAREST TOWN Ellicott City 71 MILES FROM TOWN (enter 0 if in town) 3 73 76 77 78

DRILLER INFORMATION

Driller's Name David Kelly M W D 304 76 License No. 81 Firm Name Jones Well Drilling, Inc. 3700 Rush Rd - Jarr. MD 21084 Address David Kelly 6-14-11 Signature Date

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



(8517) Old Frederick Rd. 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST EAST SOUTH 34 800 37 DISTANCE FROM ROAD FT ENTER FT OR MI 38 39 TAX MAP: 18 BLK: 7 PARCEL 371

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 0 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 0 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL 2-450' covered

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S 41 DATE ISSUED 6/30/2011 Brian Baker 6/30/2012 43 MM DD YY 48 CO SIGNATURE EXP. DATE NORTH GRID 535 000 EAST GRID 855 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 450 24 28 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 30 CABLE REVERSE-ROTary DRIVE-POINT 37 other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

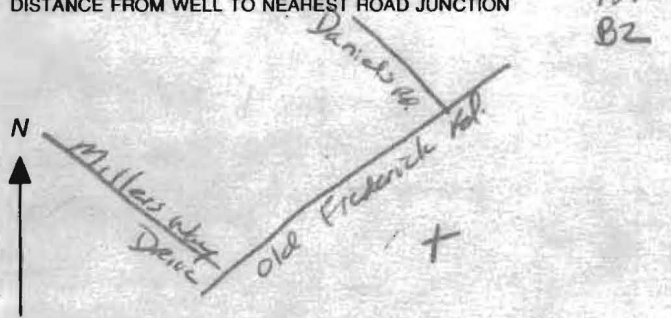
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 76°48'45" 000 000 N 39°18'05"

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



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER G PERMIT No. Ho-95-2171 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

N  
A

6/30/2011

New Siter Look

O.K. BB

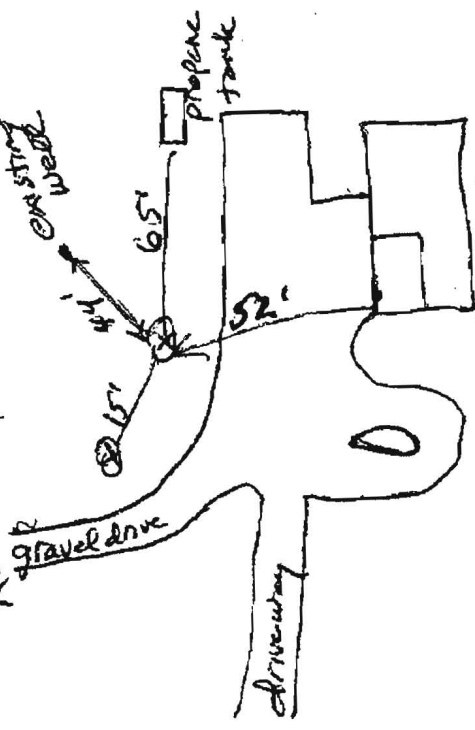
~~Geo locations~~

<del>Area</del>	<del>A</del>	<del>B</del>
<del>1</del>	<del>56</del>	<del>64</del>
<del>2</del>	<del>43</del>	<del>76</del>

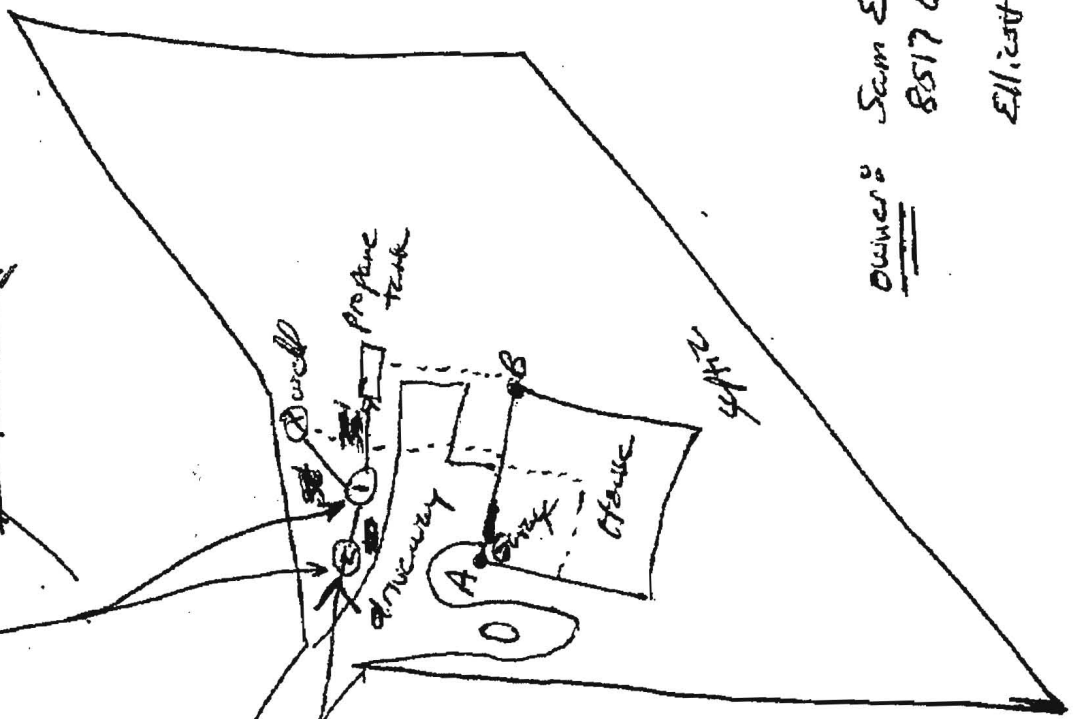
018 Frederick Rd

6/27/11

Revised locations

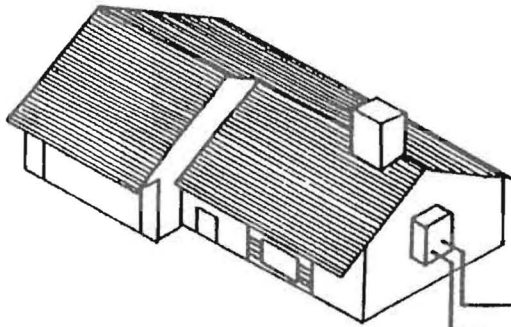


Not to Scale



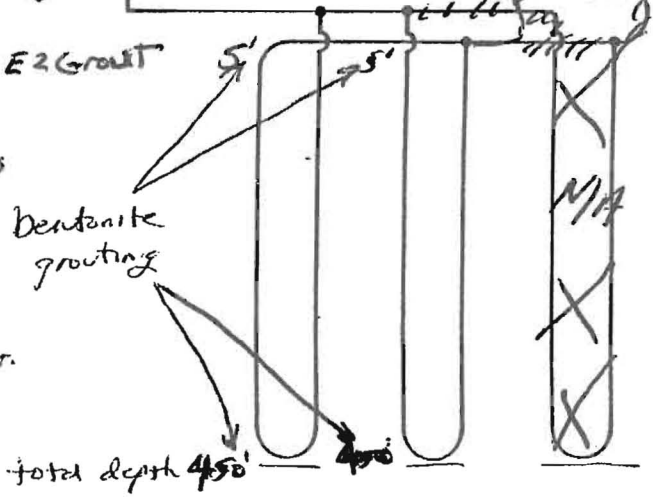
Owner: Sam Ely  
8517 Old Frederick Rd.  
 Ellicott City, MD  
 21043

Driller: Jones Well Drilling Inc.  
contact: David Kelly  
410-692-6981



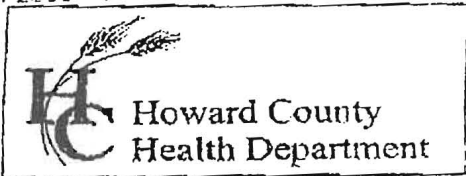
bury depth 5' below grade

Wyo-Ben bentonite-E2 GROUT  
GROUT (50 lb. bags)  
mixed with 24 gallons  
of water per  
manufacturer specs  
yields 27 gal. slurry  
with a 0.42 btu/ft-hr.  
thermal conductivity



- Earth Coil Type: Vertical - Single U-Bend
- Water Flow: Parallel
- Pipe Sizes: 1 1/4" double Loop
- Bore Lengths: 450' x 2 holes (900' vertical bore)
- Pipe Lengths: 900 x 2 (1800 vertical pipe)

FIGURE 4.5: Parallel Vertical Ground Heat Exchanger



7178 Columbia Gateway Drive, Columbia MD 21046  
 (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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

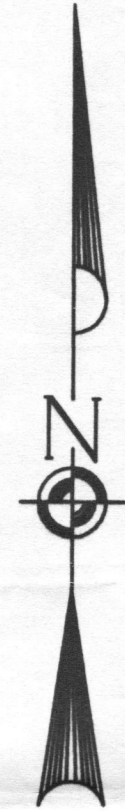
Well Site Location:  
8517 Old Frederick Road  
 Subdivision/Property Name    Lot#    Road Name

The well site has been staked by \_\_\_\_\_  
 (professional land surveyor or company employing professional land surveyors)  
 on \_\_\_\_\_ (date) and does not require a site inspection.

*Flagged on 6/6/11*  
 The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05



OLD FREDERICK ROAD  
60' R.O.W.  
60' COLLECTION - 60' R.O.W.

LOT 1  
PLAT 9862

MARY KEFAUVER  
2175/279

LOT 2  
PLAT 9862

LOT 3  
3.8773 AC.

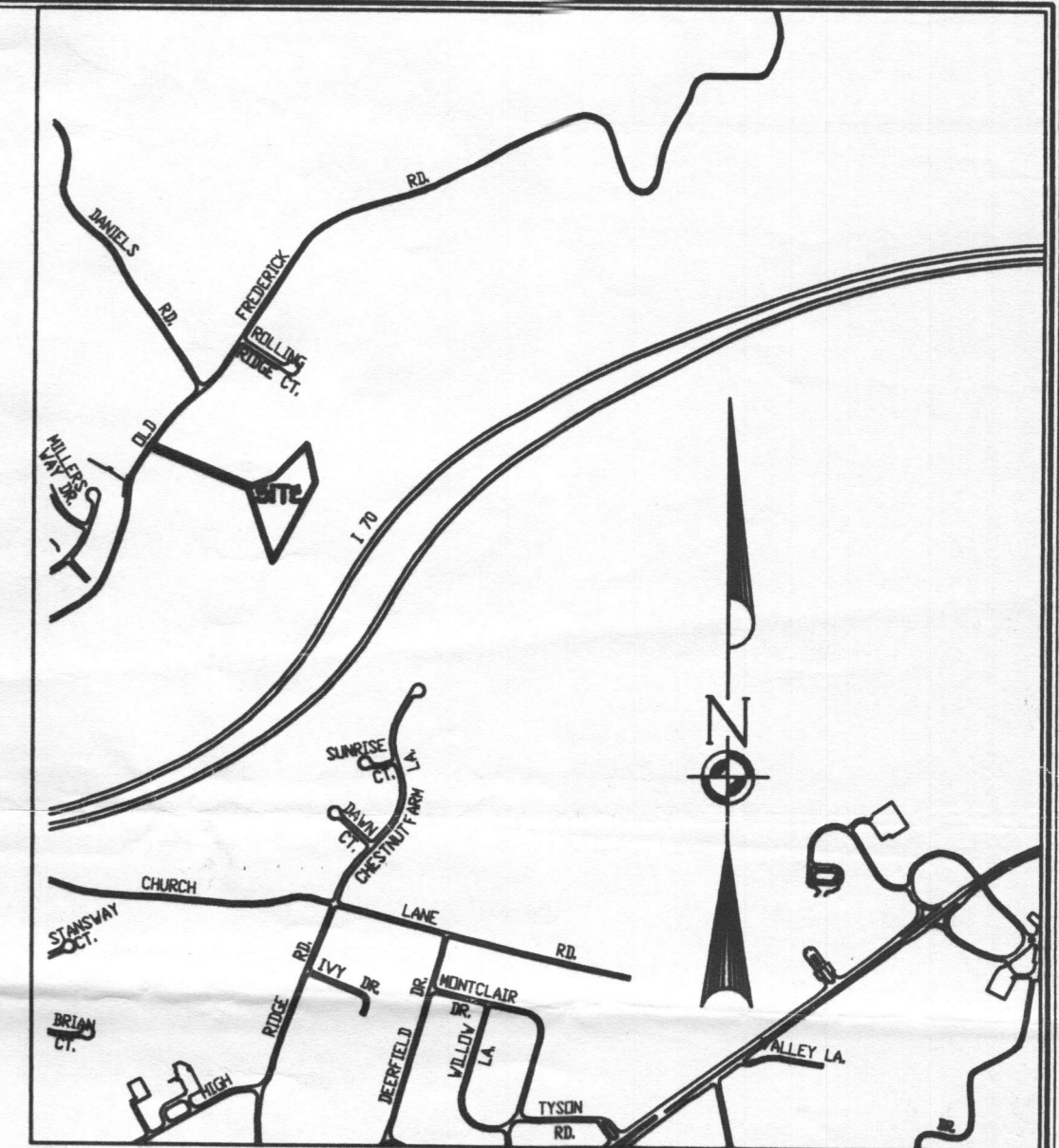
LOT 6  
PLAT 4376

STATE OF MARYLAND  
341/1

**OWNER/DEVELOPER**

Carrigan Homes  
9812 Caitline Court  
Ellicott City, Maryland 21042

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
410 481 - 2855



**VICINITY MAP**  
SCALE: 1" = 1200'

*Well Steek*  
NO. 1 WSP  
MR 726102

DENOTES 1500 SQ. FT.  
ALTERNATE WELL SITE

PRIVATE  
SEPTIC

WELL PERMIT  
LOT 3  
KEFAUVER PROPERTY  
LOTS 1 THROUGH 3  
TAX MAP 18 PARCEL 19  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE 1"=50'  
DATE JUNE 19, 2002

K:\SISHP\PROJ\181785 Kefauver Property.dwg, 7/2/2002, 3:36:55 PM