

B 1 **0329**  
SEQUENCE NO. (MDE USE ONLY)  
1 2 3 6

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
535996 please type

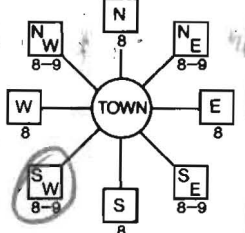
STATE PERMIT NUMBER  
40-95-2213  
fill in this form completely

Date Received (APA) 10 06 11  
OWNER INFORMATION  
8 MM DD YY 13  
Middlekauff Kent  
15 Last Name Owner First Name 34  
4000 Jennings Chapel Rd  
36 Street or RFD 55  
Brookville MD 20833  
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL  
Howard  
8 COUNTY Charles 21  
F. P. & R. Rooney Property  
23 SUBDIVISION 42  
SECTION 44 LOT 46  
44 46 48 50  
Glenwood  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) 3 M I  
73 76 77 78

DRILLER INFORMATION  
David Kelly M W D 304  
Driller's Name 76 License No. 81  
Jones Well Drilling Inc  
Firm Name  
3700 Rush Rd Terricottville MD 20884  
Address  
David Kelly 10-4-11  
Signature Date

B 4  
1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  
4000 Jennings Chapel Rd.  
11 NEAR WHAT ROAD 30  
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
NORTH  
WEST 32 EAST  
SOUTH  
34 170 37 DISTANCE FROM ROAD FT  
ENTER FT OR MI 38 39  
TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL \_\_\_\_\_



B 2 WELL INFORMATION  
1 2 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)  
22  I INDUSTRIAL, COMMERCIAL, DEWATERING  
 P PUBLIC WATER SUPPLY WELL  
 T TEST, OBSERVATION, MONITORING  
 G GEO-THERMAL 3 holes closed loop

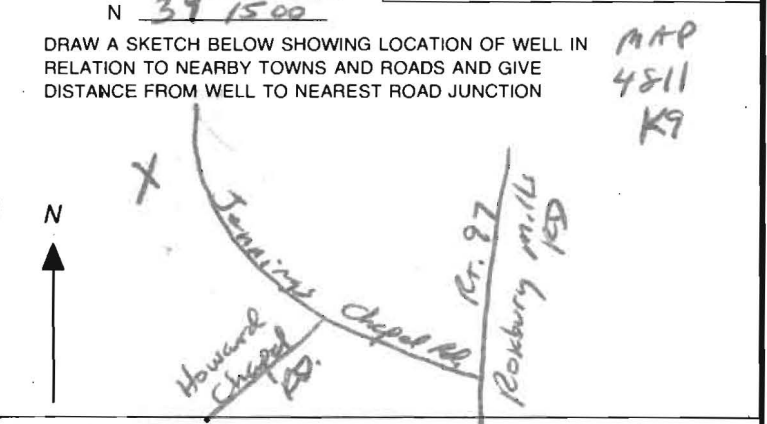
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
Howard (13) AS 0990-0  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE \_\_\_\_\_ INSERT S \_\_\_\_\_ 41  
DATE ISSUED 10/26/11  
43 MM DD YY 48 CO SIGNATURE David Kelly EXP. DATE 10/26/12  
NORTH GRID N/A 0 0 0 EAST GRID N/A 0 0 0  
50 55 57 63

APPROXIMATE DEPTH OF WELL 270 FEET  
24 28  
APPROXIMATE DIAMETER OF WELL 6 INCH  
NEAREST INCH

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 77° 04' 30"  
N 39° 15' 00"  
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 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  
39  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



Not to be filled in by driller (MDE OR COUNTY USE ONLY)  
APPROX. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_  
PERMIT No. 40-95-2213  
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Grant boreholes bottom to top.  
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

B 1 0329

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

535996

please type

HO-95-2213 fill in this form completely

Date Received (APA)

10 06 11

OWNER INFORMATION

Mreadekauf Kent 4000 Jennings Chapel Rd Brooksville MD 20833

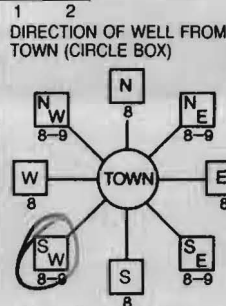
LOCATION OF WELL

Howard F. P. + R. Rooney Property Glenwood 3 MI

DRILLER INFORMATION

David Kelly MW D 304 Jones Well Drilling Inc 3700 Rush Rd Jarroville MD 2084

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



4000 Jennings Chapel Rd. NEAR WHAT ROAD ON WHICH SIDE OF ROAD DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: BLK: PARCEL

WELL INFORMATION

APPROX. PUMPING RATE 0 AVERAGE DAILY QUANTITY NEEDED 0

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 3 holes closed top

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 A58990-C COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 10/26/11 CO SIGNATURE 10/26/12 NORTH GRID EAST GRID

APPROXIMATE DEPTH OF WELL 270 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

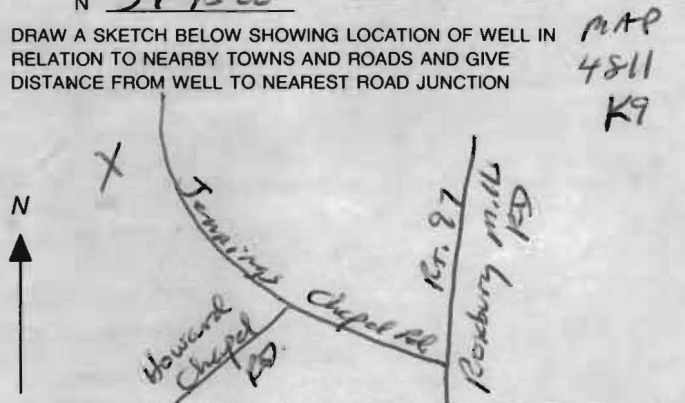
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

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

APPROP. PERMIT NUMBER G PERMIT No. HO-95-2213

SPECIAL CONDITIONS Grant boreholes bottom do top.

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER WRITE THE BOX NUMBER FROM THE MAP HERE E 77° 04' 30" N 39° 15' 00"





B 1	<b>0329</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> please type	STATE PERMIT NUMBER <b>HD-95-2213</b> <small>fill in this form completely</small>
1 2 3 6			535996	

**OWNER INFORMATION**

Date Received (APA) 10 06 11

8 MM DD YY 13

15 Last Name Middlekauf Owner Kent First Name 34

36 4000 Jenning Chapel Rd Street or RFD 55

57 Brookville Town 70 MD State 72 20833 Zip 76

**LOCATION OF WELL**

B 3

8 COUNTY Howard 21

23 SUBDIVISION F. P. + R. Rooney Property 42

SECTION 44 46 LOT 48 50

52 NEAREST TOWN Glenwood 71

MILES FROM TOWN (enter 0 if in town) 3 M 73 76 77 78

**DRILLER INFORMATION**

Driller's Name David Kelly License No. MW D 304 76 81

Firm Name Jones Well Drilling Inc

Address 3700 Rush Rd Jarrettsville MD 2084

Signature David Kelly Date 10-4-11

**DIRECTION OF WELL FROM TOWN (CIRCLE BOX)**

1 2

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

11 NEAR WHAT ROAD 4000 Jennings Chapel Rd 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 170 37 DISTANCE FROM ROAD 38 39

ENTER FT OR MI FT

TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL \_\_\_\_\_

**WELL INFORMATION**

1 2

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 3 holes closed loop

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

COUNTY NAME Howard COUNTY NO. 13

STATE SIGNATURE \_\_\_\_\_ INSERT S →

DATE ISSUED 10/26/11 CO SIGNATURE David Kelly EXP/DATE 10/26/12

43 MM DD YY 48

NORTH GRID N/A 50 0 0 0 55 EAST GRID N/A 57 0 0 0 63

APPROXIMATE DEPTH OF WELL 270 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

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 77° 04' 30"

N 39° 15' 00"

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 DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)**

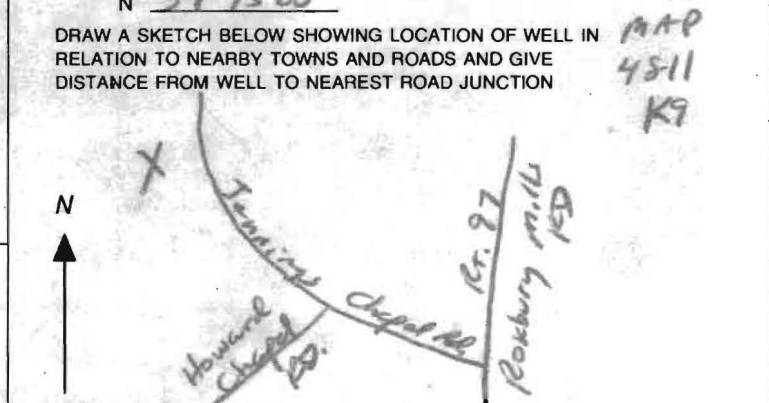
N THIS WELL WILL NOT REPLACE AN EXISTING WELL

Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39  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



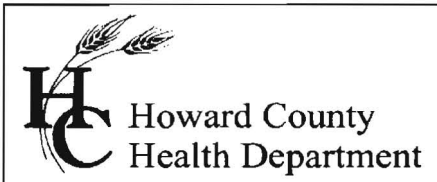
**Not to be filled in by driller (MDE OR COUNTY USE ONLY)**

APPROP. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_

PERMIT No. HD-95-2213 70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS** Grant boreholes bottom to top.

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



Bureau of Environmental Health  
7178 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](http://www.hchealth.org)

Peter L. Beilenson, M.D., M.P.H., Health Officer


Friday, October 14<sup>th</sup>, 2011

**IMPORTANT**

**MEMORANDUM - Replacement Well**

*Sent via email to [joneswelldrilling@yahoo.com](mailto:joneswelldrilling@yahoo.com)*

To: Jones Well Drilling, Inc.  
FILE

From: Kevin M. Wolf, R.S., R.E.H.S.  
Well and Septic Program  
Groundwater Mgmt. Sec. 

Re: **Geothermal Wells**  
4000 Jennings Chapel Rd., *Middlekauf Property*

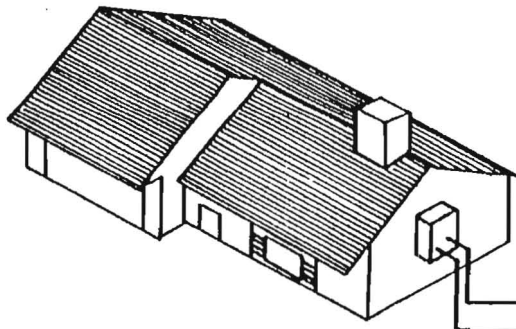
In review of the above referenced property for 3 vertical geoboires, the following must be changed in order to approve the well permit.

The geoboires are located too close to existing septic system. Please remember the bores have to be removed 50' if up gradient from septic systems and 100' if down gradient.

Any questions regarding anything mentioned here, please feel free to call me. 410-313-2645.

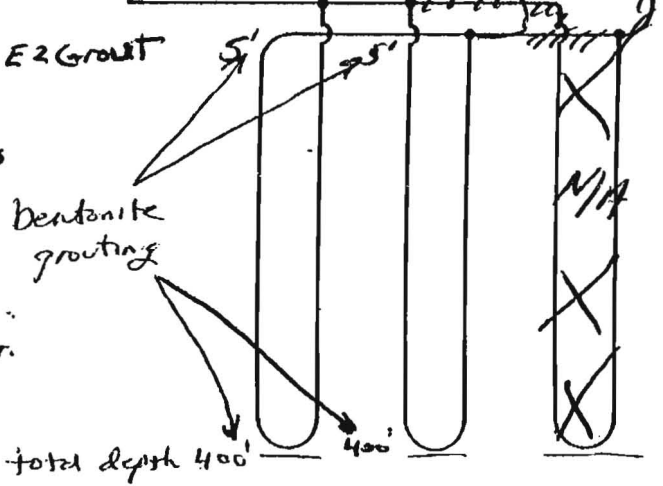
Cc: file

Driller: Jones Well Drilling Inc.  
 contact: David Kelly  
 410-692-6987



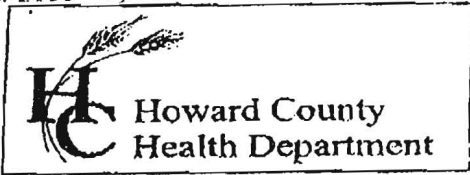
bury depth 5' below grade

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 **OK**  
 Water Flow: Parallel  
 Pipe Sizes: 1 1/4" double Loop  
 Bore Lengths: 270' x 3 holes (810' vertical bore)  
 Pipe Lengths: 540' x 3 (1620' 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:

4000 Jennings Chapel Rd.  
 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.

~~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

feet.  
shown, have been located  
by alternate methods.

700



STATE OF MD  
DEPT. OF  
FORESTS & PARKS

N 67°05'00" W 611.19'

LIBER 774  
FOLIO 386  
5.00 AC.±

N/F  
L.527 F.541

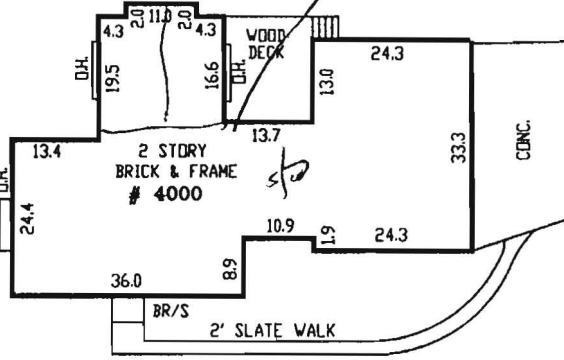
S 76°32'00" E

699.28'

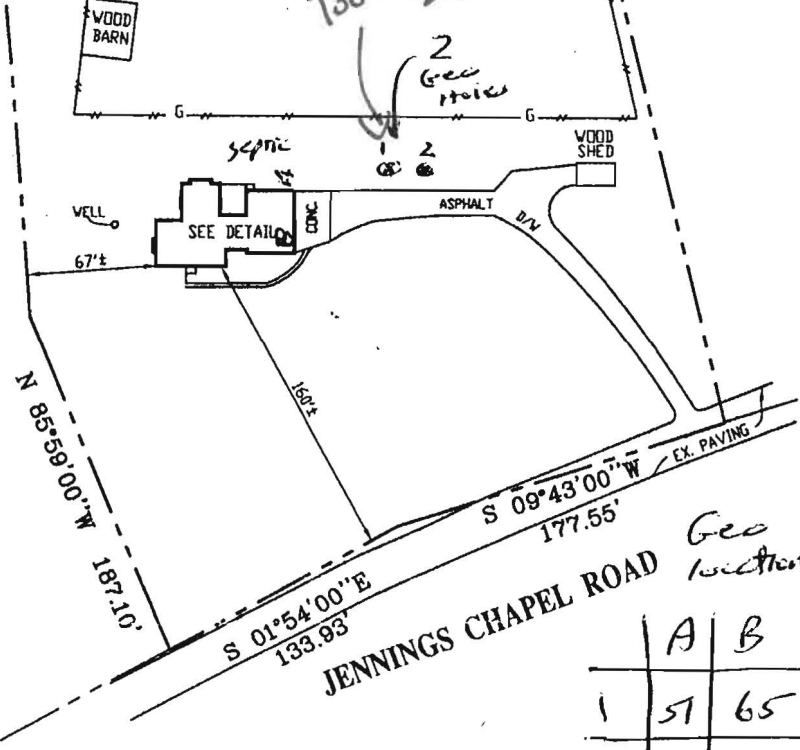
N/F  
L.9628 F.82

*Too Close to  
Septic*

*2  
Geo  
sticks*



**HOUSE DETAIL**  
SCALE: 1"=30'



LOCATION DRAWING  
#4000 JENNINGS CHAPEL ROAD  
BROOKEVILLE  
F.P. & R. ROONEY PROPERTY  
LIBER 774 FOLIO 386  
HOWARD COUNTY, MARYLAND

*Geo  
locations*

	A	B
1	57	65
2	66	50

SURVEYOR'S CERTIFICATE		REFERENCES	SNIDER & ASSOCIATES LAND SURVEYORS	
THE INFORMATION SHOWN HEREON HAS BEEN BASED UPON THE RESULTS OF A FIELD INSPECTION PURSUANT TO THE DEED OR PLAT OF RECORD. EXISTING STRUCTURES SHOWN HAVE BEEN FIELD LOCATED BASED UPON MEASUREMENTS FROM PROPERTY MARKERS FOUND OR FROM EVIDENCE OF LINES OF APPARENT OCCUPATION.  <i>Jeffrey A. Foster</i> MARYLAND PROPERTY LINE SURVEYOR REG. NO. 587		PLAT BK.	20270 Goldenrod Lane, Suite 110 Germantown, Maryland 20878 301/948-5100, Fax 301/948-1286	
		PLAT NO.		
LIBER	774	DATE OF LOCATIONS	SCALE:	1" = 100'
FOLIO	386	WALL CHECK:	DRAWN BY:	E.M.G.
		HSE. LOC.: 04-20-10	JOB NO.:	10-01636