

2480	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 528891 please type	STATE PERMIT NUMBER HD-95-1615 <small>fill in this form completely</small>
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Date Received (APA) _____

OWNER INFORMATION

8 MM DD YY 13
Grimes Thomas

15 Last Name Owner First Name 34

36 **2275 Fairground Road**
Street or RFD 55

57 **West Friendship MD 21794**
Town 70 State 72 Zip 76

B 3 **Howard** LOCATION OF WELL

8 COUNTY 21
WAH Property

23 SUBDIVISION 42
TW2

SECTION 44 46 LOT 48 50

52 NEAREST TOWN 71
West Friendship

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

DRILLER INFORMATION

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

Jones Well Drilling, Inc
Firm Name

3700 Rush Rd. Jarr MD 21084
Address

David Kelly 4-11-08
Signature Date

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

RT-32 & RT-70

11 NEAR WHAT ROAD 30

34 **1,827** 37
DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: **15** BLK: **11** PARCEL **14**

B 2 **WELL INFORMATION**

APPROX. PUMPING RATE (GAL. PER MIN.) **4**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **400**

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard **A 524002**
COUNTY NAME COUNTY NO.

STATE SIGNATURE

DATE ISSUED **4/16/09** INSERT S →

43 MM DD YY 48 CO SIGNATURE **John Jones** EXP. DATE

NORTH GRID **837** 0 0 0 EAST GRID **812** 0 0 0

50 55 57 63

APPROXIMATE DEPTH OF WELL **600** FEET

APPROXIMATE DIAMETER OF WELL **6** INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. **X**

2.

3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E **8102**

N **5307**

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

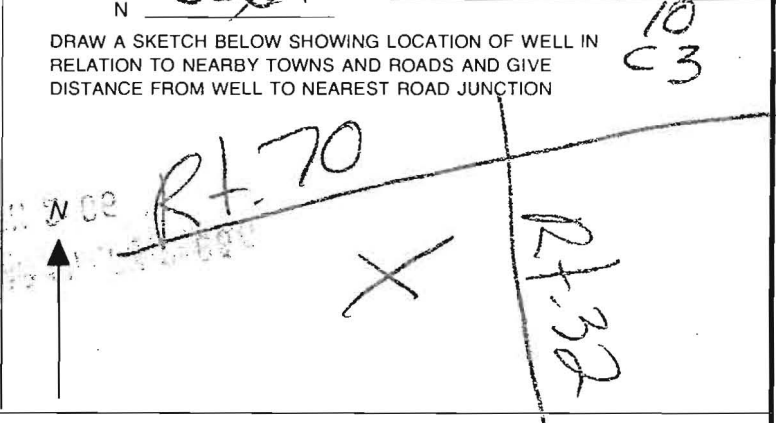
D THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____

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

APPROP. PERMIT NUMBER _____

PERMIT No. **HD-95-1615**



GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND
ENVIRONMENTAL CONSULTANTS

A Practicing ASFE Member Firm



April 24, 2008

Mr. Mike Davis
Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

Re: Request for Variance on Well and Septic Set Backs
Wah Property
Howard County, Maryland

Dear Mr. Davis:

On behalf of St. John Properties, Inc., Geo-Technology Associates, Inc. (GTA) is requesting a variance to locate wells at distances less than 200 feet from septic reserve areas (SRAs) that are at equal or higher relative elevations. GTA is conducting a groundwater resource exploration at the Wah Property, located at 12799 Buttercup Court, immediately southwest of the Interstate 70 and Route 32 Interchange, in Howard County, Maryland. The Wah Property is proposed for development with office-flex space and is to be serviced by an on-site groundwater supply. The groundwater resource exploration is scheduled to be initiated at the site next week, and will first include a test well drilling program, followed by hydraulic testing and analysis, and water quality sampling.

Due to site constraints and based on hydrogeologic evaluation results, a variance is requested for select well locations with respect to the 200-foot setback requirement from SRAs that are situated at a higher or equal elevation. Specifically, the requested variance is to reduce the required setback from 200 to 100 feet, which is the minimum setback requirement for wells and SRAs that are at lower elevations.

Based on the results of a fracture trace analysis and electrical resistivity imaging done at the site, GTA has identified areas and approximate proposed well locations that appear to be more favorable with respect to potential groundwater productivity. Approximate proposed locations are depicted on the attached *Proposed Well Location Plan*. Productive test well locations that are drilled would be converted to potable groundwater supply wells. Five of the approximate locations, identified as TW-2, TW-3, TW-3 ALT, TW-4 and TW-6, are situated more than 100 feet, but less than 200 feet, from off-site SRAs of equal or greater elevation. Four of these locations, i.e., TW-2 through TW-4, are not directly downslope of SRAs, but are cross-slope and/or on the opposite side of topographic divides.

3445-A Box Hill Corporate Center Drive, Abingdon, MD 21009

(410) 515-9446

Fax: (410) 515-4895

♦ Abingdon, MD ♦ Laurel, MD ♦ Frederick, MD ♦ Waldorf, MD ♦ Sterling, VA ♦ Somerset, NJ
♦ New Castle, DE ♦ Georgetown, DE ♦ York, PA ♦ Quakertown, PA ♦ Charlotte, NC

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The following information provides additional basis for the requested variance:

1. Results of the fracture trace analysis, geophysical survey and site reconnaissance indicate potentially productive areas within 200 feet of off-site SRAs, at the approximate locations indicated on the attached plan.
2. The results of the fracture trace analysis indicate that the proposed well locations and the respective SRAs within 200 feet of the proposed well locations are not situated along the same identified linear features.
3. The wells are proposed to be completed with minimum surface casing depths of 50 feet and will be grouted to prevent shallow water from entering the well.
4. Extensive water quality sampling will be performed prior to incorporation into the water distribution system, as required by the MDE for new public supply wells.
5. Routine water quality sampling will be performed during operation of these wells, as required by the MDE and Howard County.
6. Site constraints due to the size and locations of the proposed building envelope, parking area, and on-site wastewater disposal system preclude drilling on much of the site;

Thank you for your attention to this matter. Please consider this information and if the variance request is acceptable to you, please respond with your approval. If you would like to meet to discuss this matter, we are available to meet at your earliest convenience. If you have any questions, or require additional information please contact our office at (410) 515-9446.

Sincerely,
GEO-TECHNOLOGY ASSOCIATES, INC.



Paul Scott, P.G.
Vice President

MM/PSS/kl

L:\Shared\Aquifer\Reports\070304.4 Wah & Grimes Properties\Wah Property Variance Request ltr.doc

cc: Ramon Benitez/St. John Properties
Paul Muddiman/MRA
Amy DiPietro/MRA

Attachments:

Proposed Well Location Plan