

Ted Wynne Engineering/Contractor, Inc.

417 WELSHWOOD DRIVE • SUITE 114 • NASHVILLE, TN 37211
PHONE: 615-331-7660 • FAX: 615-333-0764

July 17, 2001

Mr. Bill Stalker
Tennessee Valley Authority
P.O. Box 292409, Bldg 1, Suite 300
565 Marriott Drive
Nashville, Tennessee 37229-2409

Re: White House Police Station
White House, Tennessee

This office performed a thermal conductivity test on one (1) 300 feet deep, 6 inch diameter vertical bore, backfilled with drilled tailings, July 5, 2001. The following data was derived from test data:

Thermal Conductivity	2.0 BTU/HR-F
Ground Temperature	59.6 F

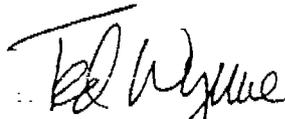
We feel that based on our observation of the terrain, the above is representative of the area where a field of Vertical Heat Exchangers will be located for this project.

The driller's log is enclosed herewith. According to the Driller's Log submitted to our office the bore hole penetrated more than one water source, thus our office recommends that any future holes drilled should be Grouted to prevent transfer of water from one elevation to another.

Please let us know if any additional information is needed.

Sincerely,

TED WYNNE ENGINEERING CONTRACTORS, INC.


Ted Wynne, P.E.

jh



333-6764

Mid-South Geo & Water Resources, Inc.

WORK ORDER

P.O. Box 297 • Lebanon, TN 37088-0297

Phone: (615) 444-0423 • Fax: (615) 444-0427

01051

Date 6/28/01

Job WhiteHouse Police Station

Phone _____

Address North Palmer Spring Rd., White House, TN 37188

County _____

Requested On: _____

Start Drilling 6/27/01

Complete Drilling

6/27/01

Total Depth 300 Ft.

Depth to Rock _____

Casing Set _____

Type & Size _____

Bit Type/Size _____

Total Yield 75 GPM

Water Zones _____

Quality Water _____

DEPTH	FORMATION
0 - 22 Ft.	Dirt
22 - 50 Ft.	Dark Gray Lime
50 - 59 Ft.	" " " "
60 Ft.	Water
61 - 79 Ft.	Dark Gray Lime
80 Ft.	Water
81 - 100 Ft.	Dark Gray Lime
100 - 119 Ft.	Hard Dark Gray Lime
120 Ft.	Water
121 - 150 Ft.	Hard Dark Gray Lime
150 - 175 Ft.	" " " "
175 - 200 Ft.	" " " "
200 - 225 Ft.	" " " "
225 - 250 Ft.	Medium Gray Lime
251 Ft.	Water
252 - 275 Ft.	Medium to Light Lime
275 - 300 Ft.	Medium to Light Lime