

WARNER SOIL & GEOLOGICAL SERVICES, INC.
JOEL B. WARNER, P.G.
6263 Sharewood Forest, Morganton, GA 30560-1411
Phone & Fax: (706) 374-2188

COUNTY: Union	DATE: May 23, 2007
OWNER: William & Linda Davis	
SITE LOCATION ADDRESS: Hawksclaw Rd.	
PHONE NUMBERS: (727) 410-8313 or (727) 376-9354	
SUBDIVISION: Hawksclaw Estates	LOT NUMBER(S): 5
SCALE: 1" = 100'	QUAD MAP: Culberson
INTENSITY LEVEL OF INVESTIGATION: 3	SOIL SURVEY MAP SHEET NO. 5
APPROX. ELEVATION: 2,121 ft. GPS: N34° 58.727' W84° 07.267' <i>Form 1.94</i>	

SOIL PROPERTIES

BORING NUMBER	SOIL SERIES SEE SUITABILITY CODES	SLOPE % ranges of the soil type	TOTAL DEPTH OF BORING (Inches)	DEPTH TO BEDROCK (Inches)	DEPTH TO SEASONAL HIGH H ₂ O TABLE (Inches)	ABSORPTION RATE AT RECOMMENDED TRENCH DEPTH (Min/Inch)	RECOMMENDED TRENCH DEPTH (Inches)	SUITABILITY CODE (listed below)
B-1	Thurmont	10-12	63*	>63*	>72†	35-40	24-30	A
B-2	Evard	12-15	73	>73	>73	40-45	24-30	A
B-3	Clifton-Evard	8-10	51*	>51*	>72†	45	24	A
B-4	Clifton-Evard	10-12	74	>74	>74	35-40	24-30	A
B-5	Evard	2	57*	>57*	>72†	30	24	A

SUITABILITY CODE DESCRIPTIONS AND GENERAL NOTES

(From pages C-18-33 and C-18-34 in GA Manual for On-Site Sewage Management Systems)

* Auger refusal on riprable, weathered, quartz/quartzite boulder or metaquartzite cobble.

† From Soil Series Table of Manual For On-Site Sewage Management Systems.

A - These soils are suitable for installation of on-site systems with proper system design, installation, and maintenance. Position of the site or other soil and landscape considerations may require the drain field area to be greater than the minimum and/or the drain field design to require equal distribution or level field installation.

Boring locations illustrated on the soil map were located from an existing corner pin using a hip chain and a Brunton compass. A 3/4-inch hand auger was used for soil sample collection. A Munsell Soil Color Chart was used to determine the soil color.

WARNER SOIL & GEOLOGICAL SERVICES, INC.

JOEL B. WARNER, P.G.

6263 Sharewood Forest, Morganton, GA 30560-1411

Phone & Fax: (706) 374-2188

LEVEL: 3 SOIL SURVEY FOR: William & Linda Davis (Karyn Smith, agent)

SITE LOCATION INFORMATION: Hwy 19/129 N → L on Hwy 325 → R on Loving Rd. → R on Jonica Gap Rd.
→ R on Voylestown Rd. → L on Hawksclaw Rd., bear R, lot on L.

SUBDIVISION Hawksclaw Estates

DATE OF SOIL STUDY 5/21/07

LOT NUMBER 5

MAP LEGEND

Scale: 1 inch = 100 feet

.... Drainage Runs All Year (ONE DOT)

... .. Drainage Runs Part Of Year (3 DOTS)

--- Gully and/or Rainy Weather Drainage Way
 (Unsuitable For Septic Systems)

→ Slope (Direction Falling)

• Well, artesian

○ Well, non-artesian

○ Spring

○ Boring Site (completed to less than 6 ft.)

• Successful Boring (completed to 6 ft.)

B-1 Auger Hole Number

○ Auger Hole Location

72 Depth of Hole (inches)

WB Weathered Bedrock

+ Property Corner

+++ Steep Bank, Road Cut

Rock Outcrop

vv Wet spot

--- Railroad

• IPF Iron Pin Found

NORTH

100 FEET

SLOPE %

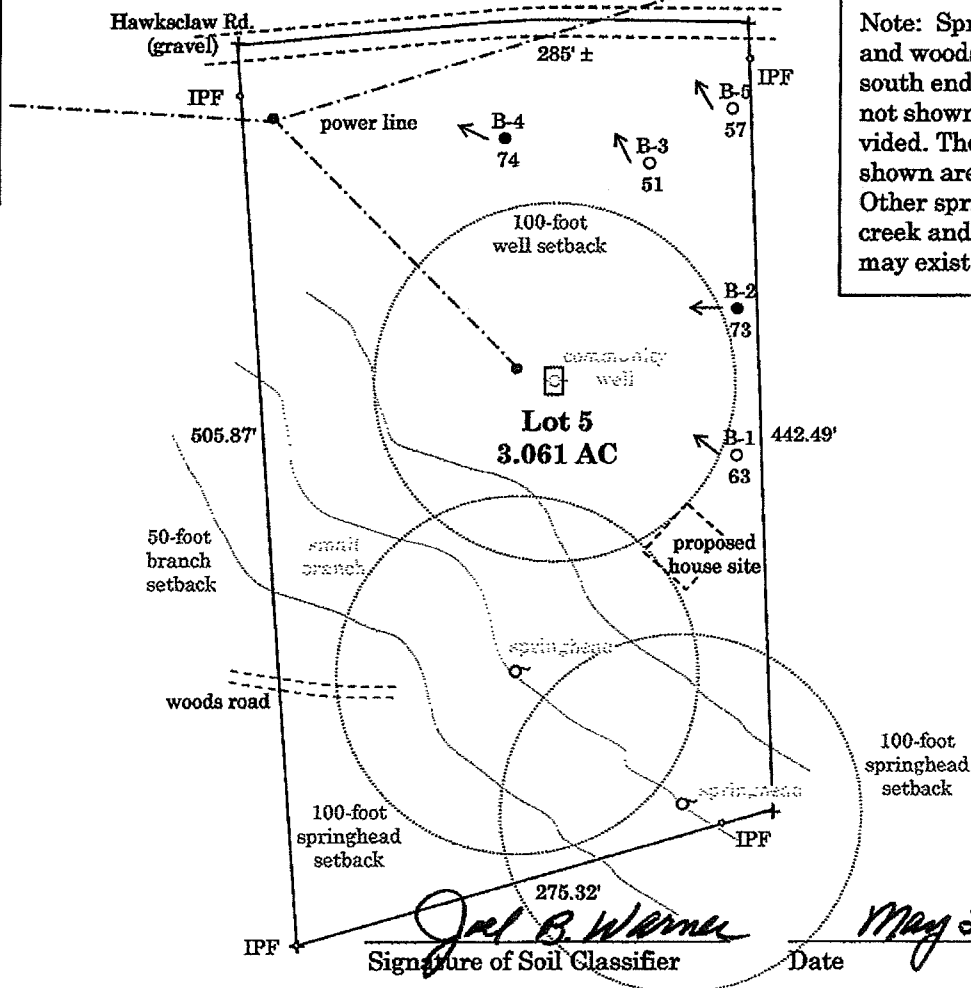
B-1 10-12

B-2 12-15

B-3 8-10

B-4 10-12

B-5 2



Note: Springheads, creek and woods road on the south end of the lot were not shown on the plat provided. The locations shown are approximate. Other springheads on the creek and woods roads may exist.

Signature of Soil Classifier

Date

May 23, 2007

WARNER SOIL & GEOLOGICAL SERVICES, INC.

JOEL B. WARNER, P.G.

6263 Sharewood Forest, Morganton, GA 30560-1411

Phone & Fax: (706) 374-2188

SUPPLEMENT TO SOIL TEST REPORT
for William & Linda Davis

COMMENTS

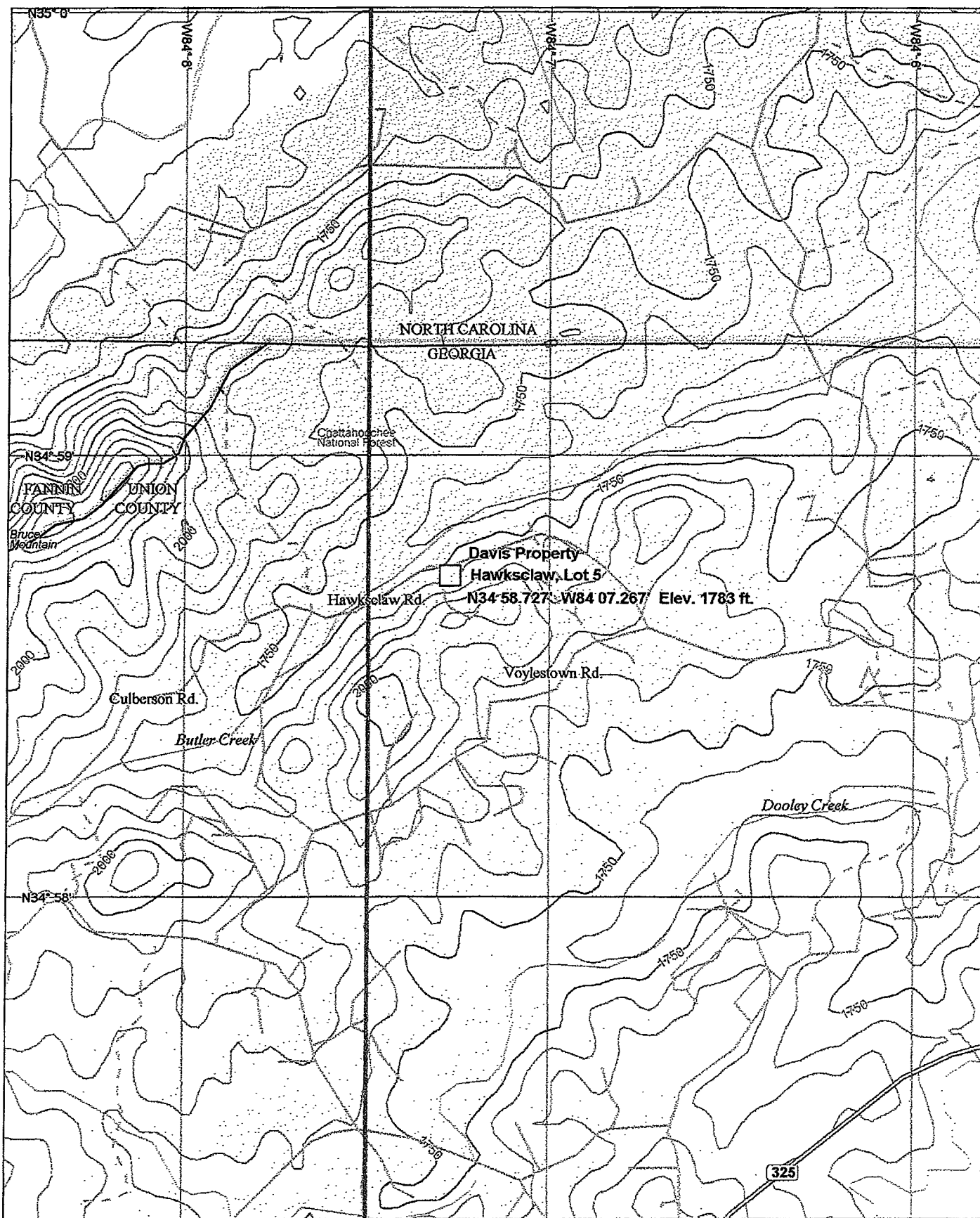
Six soil test holes were hand-augered on the Davis property, Lot 5 of Hawksclaw Estates subdivision, a 3.061-acre parcel bordered on the north by Hawksclaw Rd.

A tentative house site has been flagged, and hole locations were selected in areas that would accommodate an absorption field near the house site, avoid the proposed driveway and remain outside the 100-foot setback from the backup community well.

The State has mapped the soils in this area as Clifton-Evard and Cowee-Evard complexes with nearby area of Thurmont fine sandy loam. Clifton-Evard soils are well drained, moderately permeable and occur on uneven ridges and side slopes of intermountain uplands. The soils form from weathered granite or gneiss and are commonly interbedded with weathered mica schist. Thurmont soil is well drained, moderately permeable and occurs on stream terraces and toe slopes. This soil forms from fine loamy sediments interbedded with gravels and quartzite fragments. No Cowee-Evard soil was encountered by sandy Evard soil was found. Evard soil is very deep, well drained, moderately permeable and occurs on ridges and side slopes of the Blue Ridge. It forms in residuum affected by soil creep in the upper part and weathered from felsic to mafic, igneous and high-grade metamorphic rocks such as mica gneiss. Slopes, typically 15 to 50 percent, can range from 2 to 95 percent.

Hole B-1 was augered to 63 inches in Thurmont soil. Auger refusal was due to a quartz/quartzite boulder. Holes B-2 and B-5 were augered to 73 and 57 inches, respectively, in Evard soils. Auger refusal in B-5 was due to a weathered quartzite boulder. Holes B-3 and B-4 were augered to 51 and 74 inches, respectively, in Clifton-Evard soils. Clifton was added to the classification because of the yellow color and mica content. Auger refusal in B-3 was due to metaquartzite cobbles.

All the borings encountered sandy soils with good absorption rates. A septic tank and absorption field should function satisfactorily if designed, installed and maintained properly.

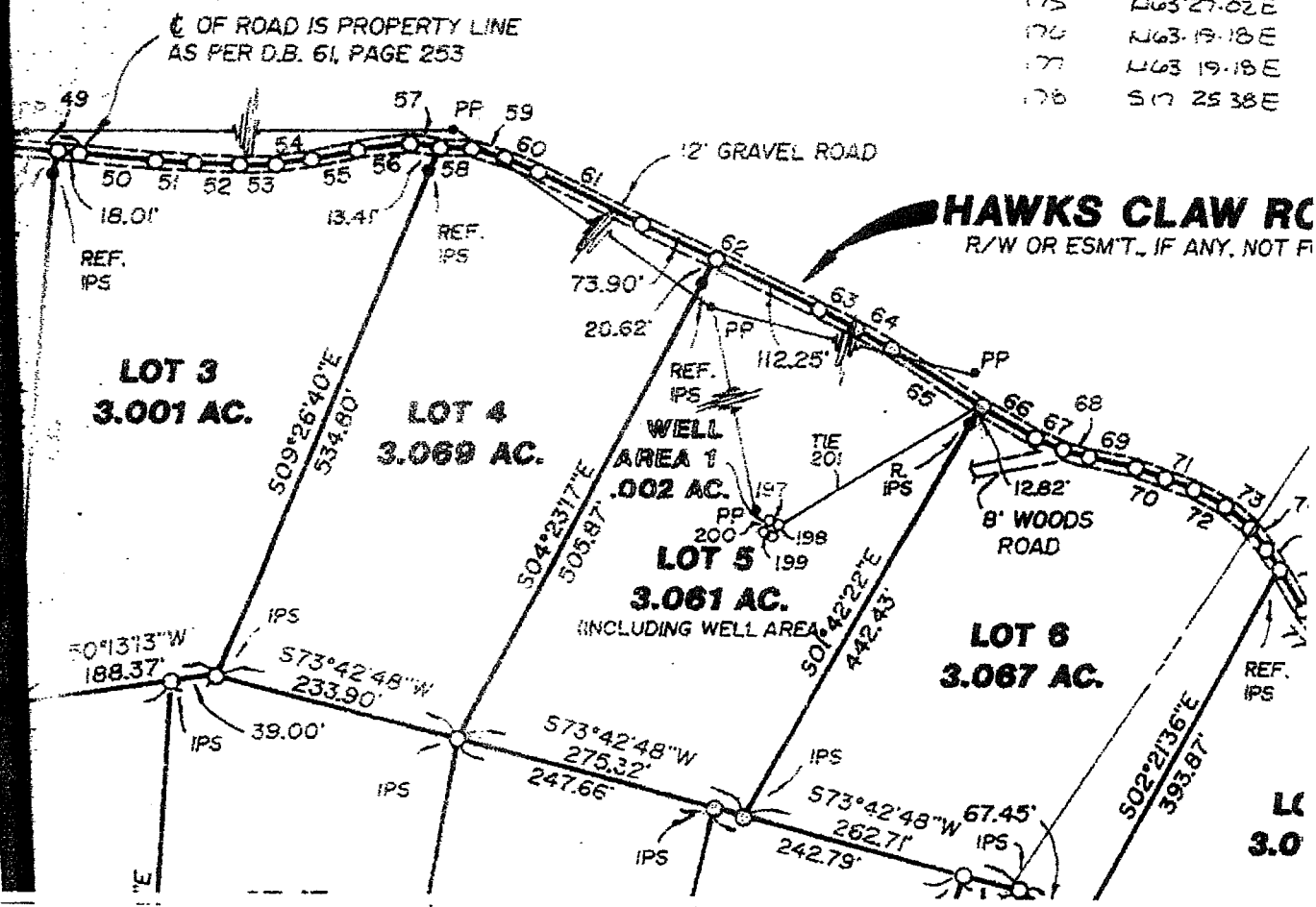


REFERENCE PLAT RECORDED IN PLAT BOOK T, PAGE 103, UNION COUNTY RECORDS.
REFERENCE PLAT BY ROCHESTER & ASSOC. FOR HENRY & ELIZABETH HUTCHENSON
AND MAY 10, 1995.
REFERENCE PLAT RECORDED IN PLAT BOOK P, PAGE 134, UNION COUNTY RECORDS.
REFERENCE PLAT RECORDED IN PLAT BOOK G, PAGE 222, UNION COUNTY RECORDS.
REFERENCE PLAT RECORDED IN PLAT BOOK N, PAGE 8, UNION COUNTY RECORDS.
REFERENCE PLAT RECORDED IN PLAT BOOK S, PAGE 238, UNION COUNTY RECORDS.

135	NSO-00-08E	366.51'	148	S70-27-41W	68.00'	159	S55-37-46E
136	S54-15-55W	135.24	149	S70-27-41W	75.00'	160	S62-35-48E
137	N37-25-40W	76.94'	150	S38-27-41W	62.00'	161	S33-57-55W
138	S55-55-20W	155.00	151	S11-32-19E	79.88'	162	S42-35-48E
139	N53-59-40W	103.27	152	S75-21-23W	168.87'	163	S59-55-01E
140	N19-36-40W	85.41	153	S75-21-23W	41.44'	164	S59-55-01E
141	N80-27-19W	36.18'	154	N44-30-22W	144.49'	165	S62-16-43E
142	N80-27-19W	109.55'	155	S70-27-41W	147.75'	166	S69-12-54E
143	N52-27-17W	358.10	156	S38-27-41W	33.33'	167	S07-27-11W
144	S73-27-41W	109.52'	157	S75-32-53W	64.36'	168	S69-12-54E
145	S51-27-41W	117.30'	158	S24-54-52E	108.24'	169	S82-39-06E
146	S70-27-41W	95.31'				170	N80-26-45E
147	N38-01-19W	105.44				171	N80-26-45E

NF

GARY S. & JUDY A. VAIL



EF.
5

R/W

73.90'

20.62'

PP

112.25'

REF.
IPS

WELL
AREA 1
.002 AC.

TIE
201

R.
IPS

8' W
RC

LOT 5

3.061 AC.

(INCLUDING WELL AREA

LOT

3.061

504°23'17"E
505.87'

501°42'22"E
442.43'

573°42'48"W
275.32'
247.66'

IPS
573°42'48"W
262.71'
242.79'

IPS

T 4
9 AC.