Scott Jones / Homeowner
(704) 517-2892

Rec'd 05-30-13 MS
Pd 350.00 @ Final
05-14-13 MS



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for CL&T Section 11, Lot 147, Normandy Rd
House Footprint: 60' X 60'
Building Setbacks: 35' front, 15' sides, 50' lake
Water Source: Private Well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 2 @ 7.11 GPM, 4 @ 5.48 GPM
Hole Size & Material: 2 @ ½" SCH 40, 4 @ ½" SCH 80
System Flow: 36.14 GPM
Dosing Volume: 182.8 gallons
Pump Run Time: 5.1 minutes
Elevation Head: 24.7'
Friction Head: 5.4'
Pressure Head: 2'
Total Dynamic Head: 32.1'
Supply Line Length: 190'
Septic/Pump Tank Size: 1000 gallons
Proposed Trench Bottom: 24" (initial), 36" (repair)

Line	Design Length	Actual Length	Elevation	Tap size
Blue 1		47'	4.7'	
White 2		54'	6.2'	
Pink 3		60'	7.4'	
Blue 4		65'	8.7'	
White 5		70'	10.2'	
Pink 6	**75'**	**75'**	**11.6'**	**½" SCH 40**
Blue 7	**63'**	**68'**	**13.2'**	**½" SCH 80**
White 8	**62'**	**62'**	**14.8'**	**½" SCH 80**
Pink 9	**62'**	**64'**	**16.2'**	**½" SCH 80**
Blue 10	**63'**	**70'**	**18.5'**	**½" SCH 80**
White 11	**75'**	**78'**	**20.1'**	**½" SCH 40**

Initial System: 400' **Repair System:** 296'
Pump Tank Elev.: 36.3' **House Corner Elev.:** 25.8'
Benchmark: 3.1'

Comments:
The 50' well setback is flagged in orange. The house is marked in blue flags. There appears to be an abandoned well along the property line.

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ *of* ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Scott Jones _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: 4 Bedroom _____ PROPOSED DESIGN FLOW (.1949): 480 GPD _____ PROPERTY SIZE: _____
LOCATION OF SITE: Normandy Rd CL&T sec. 11 lot 147 _____ PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 12%	0-6	Br SCL WSBK	FR SS SP		52"			PS 0.3
		6-18	Lt Br SCL WSBK	FR SS SP					
		18-38	R C SBK	FR SS SP					
		38-52	R CL WSBK	FR SS SP					
		52-76	SL-LS SAP M	VFR SS SP	Few C Incl				
2	LS 12%	0-8	Br SCL WSBK	FR SS SP		52"			PS 0.3
		8-18	Lt Br SCL WSBK	FR SS SP					
		18-38	R C SBK	FR SS SP					
		38-52	R CL WSBK	FR SS SP					
		52-70	Ver L SAP M	VFR SS SP	Few C Incl				
3	LS 12%	0-6	Br SCL WSBK	FR SS SP		42"			PS 0.3
		6-12	Lt Br SCL WSBK	FR SS SP					
		12-30	R C SBK	FR SS SP					
		30-42	R CL WSBK	FR SS SP					
		42-70	Ver SL SAP M	VFR SS SP					
4	LS 12%	0-13	FILL			33"			NOT IN SYSTEM AREA
		13-33	R C SBK	FR SS SP					
		33-36	L SAP M	VFR SS SP					
		36-72	LS SAP M	VFR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	540FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.3 GPD/FT2	0.3 GPD/FT2

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: M A & Assoc _____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

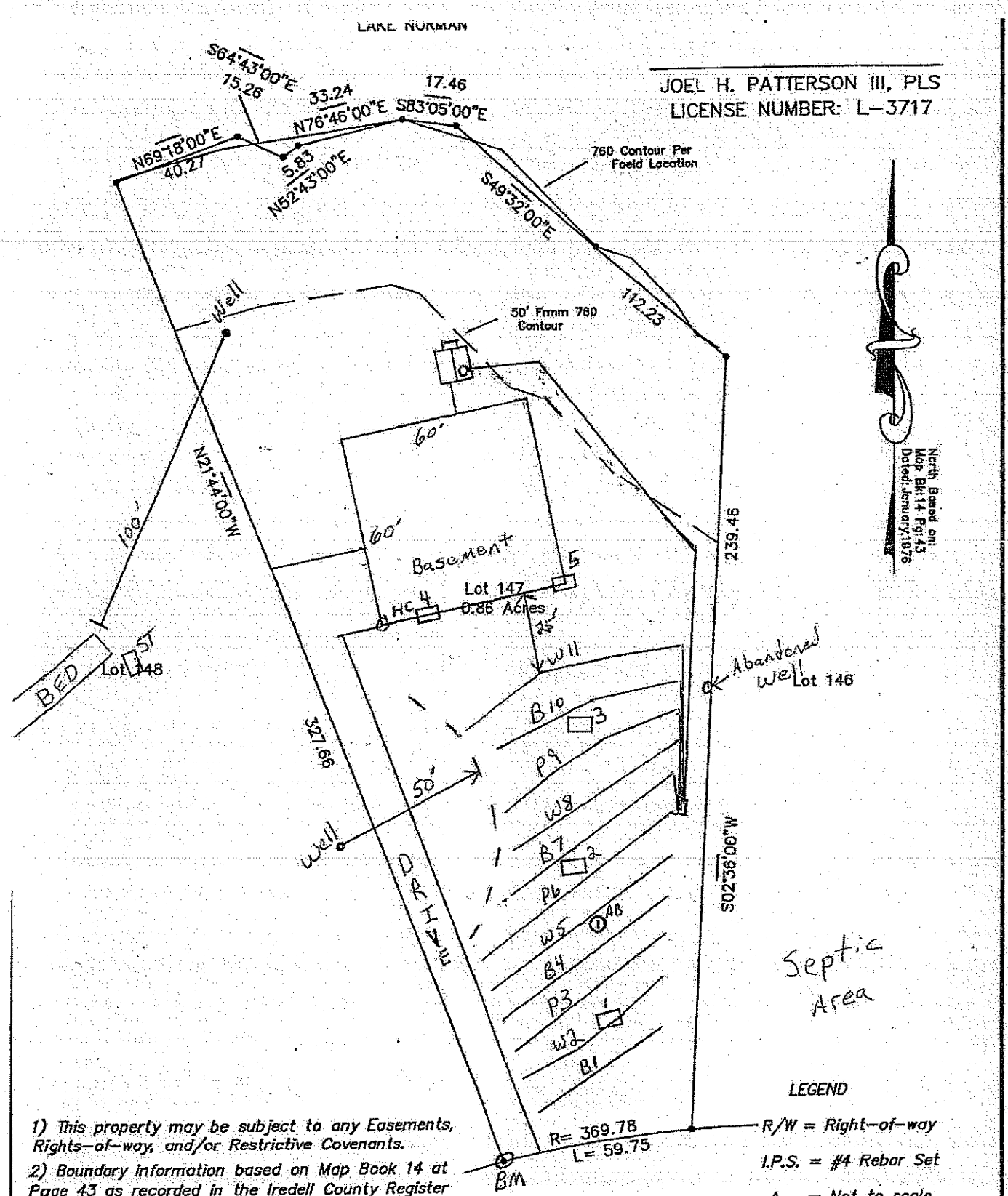
Sheet ___ of ___

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	LS 12%	0-20	FILL			68"			NOT IN SYSTEM AREA
		20-50	R C SBK	FR SS SP					
		50-68	R CL WSBK	FR SS SP			F-C Inc Sap		
		68-83	L SAP M	VFR SS SP					
AB 1	LS 12%	0-16	Br SCL WSBK	FR SS SP		48"			PS 0.3
		16-36	R C SBK	FR SS SP					
		36-48	R CL SBK/WSBK	FR SS SP			F-C Inc Sap		

COMMENTS: _____



JOEL H. PATTERSON III, PLS
LICENSE NUMBER: L-3717

Septic Area

LEGEND

R/W = Right-of-way
I.P.S. = #4 Rebar Set
— = Not to scale
= Telephone Pedestal
= Utility Pole
= Cable Pedestal
WM = Water Meter

1) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants.

2) Boundary information based on Map Book 14 at Page 43 as recorded in the Iredell County Register of Deeds.

3) This is a preliminary survey and is not intended for recordation, conveyances or sales.

4) Area by coordinate method.

BOUNDARY SURVEY

OF

LOT 147 "CRESCENT LAND & TIMBER CORP., SEC. 11"

SCALE 1" = 40'

DAVIDSON TWSP., IREDELL CO., NC

SCOTT JONES

FIELD BOOK:
FILE: