DENR/DEH permit 1579 48 20 PIN # 4705-48-3346 RSH Sheet 2 of 2

ON-SITE WASTEWATER SECTION PROPERTY ID #: COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ellsworth + Shannon Dawnce Tel 704-883-0116 APPLICATION DATE 8-12-09
ADDRESS: 128 Tangent Drive Statesville, NC 28625 DATE EVALUATED: 8-21-09
PROPOSED FACILITY: 3 PROPOSED DESIGN FLOW (.1949): 360 gpd PROPERTY SIZE:
LOCATION OF SITE: 120 Tangent Drive Statesville PROPERTY RECORDED:
WATER SUPPLY: • Private • Public • Well • Spring • Other Hwy 64 W TL Ground From Rd
EVALUATION METHOD: • X Auger Boring • Pit • Cut TYPE OF WASTEWATER: • X Sewage • Industrial Process • Mixed

Lot 3 Cara Sands Drive E,TR Happy Acres TL Trailway TR Tangent Drive on R before cul-de-sac

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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	20% Side Slope	0-2"	SCL GR	VFRI SS SP	2.5YR	28"	Grp 2 Loamy		4S Soil depth
		2-28"	C WK SBK	FI SS SP					
		28-36"	Saprolyte						
2	20% Side Slope	0-4"	SCL GR	VFRI SS SP	2.5YR	30"	Group 2 Sandy Loamy		4S Soil depth
		4-30"	C WK SBK	FI SS SP					
		30-36"	Saprolyte						
3	20% Side Slope	0-3"	SCL GR	VFRI SS SP	2.5 YR	34"	Grp 2 Sandy Loamy		4S Soil depth
		3-34"	C WK SBK	FI SS SP					
		34-36"	Saprolyte						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	
System Type(s)	Pump Required	
Site LTAR		

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): 4S
EVALUATED BY: Fred Clemmons
OTHER(S) PRESENT: Shannon Dawnce, Steven Wooden

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

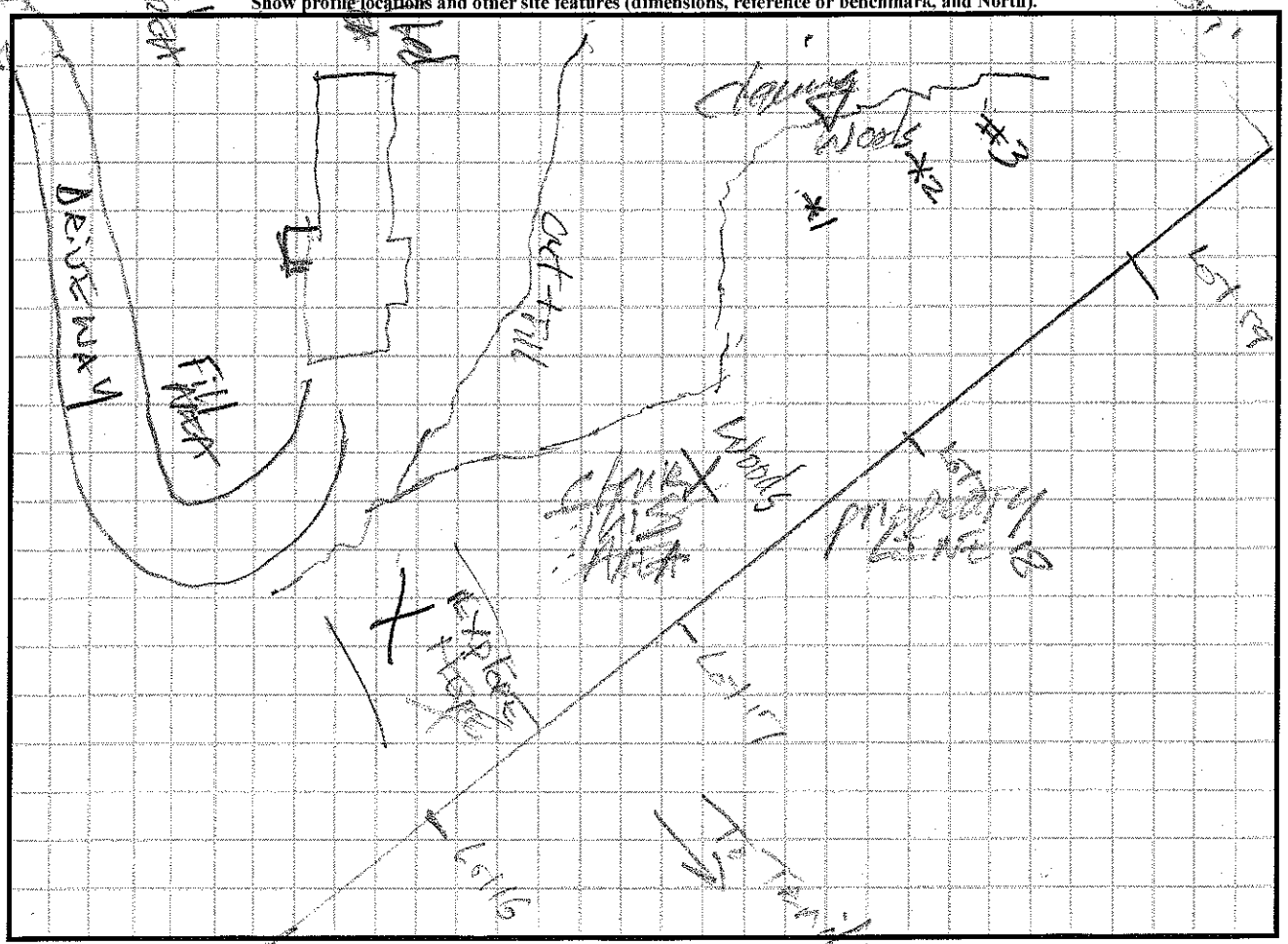
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)
Review (#####)

DENR/DEH

ON-SITE WASTEWATER SECTION

Permit #15794820 TR Happy Acres TL Trailways TR Tangent Lot on R before cul-de-sac

Hwy 64 West TL Lippard Farm Rd

RSH

Sheet 1 of 2

PROPERTY ID #:

COUNTY: IREDELL

PIN # 4705-48-3346

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER: Ellsworth & Shannon Rhyne Tel# 704-883-0116 APPLICATION DATE 8/12/09

ADDRESS: 128 Tangent Drive Statesville, NC 28625 DATE EVALUATED: 9-3-09

PROPOSED FACILITY: 0 PROPOSED DESIGN FLOW (.1949): 360gpd PROPERTY SIZE: 2.51 Acre

LOCATION OF SITE: 120 Tangent Drive Statesville PROPERTY RECORDED: Casa Grande Sec 3 Lot 3

WATER SUPPLY: • Private • X Public • Well • Spring • Other

EVALUATION METHOD: X Auger Boring • Pit • Cut TYPE OF WASTEWATER: X Sewage • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	15-25% Side Slope	0-3 3-48	SCL SAB WK SC SAB WK	FRi SS SP FRi SS SP	2.5YR	48"			0.25 gal/ft2 P/S
2	15-25% Side Slope	0-3 3-44 44-48	SCL SAB WK SC SAB WK SCL/SAP	FRi SS SP FI SS SP FRi SS SP	2.5 YR	48"	CRP 3 SCL		0.25 gal/ft2 Loamy
3	15-25% Side Slope	0-3" 3-40 40-42" 42 "	SCL SAB WK SC SAB WK SAP/SCL SAP SAB SCL WK	FRi SS SP FI SS SP FRi SS SP FRi SS SP	2.5 YR	42" Hit Rock	CRP 3 SCL		0.25 gal/ft2
4	15-25% Side Slope	0-3 3-42 42-48	Numerous Scattered Rock outcrop SC WK SAB SCL WK SAB	FI SS SP FRi SS SP	2.5 YR	48"			P/S 0.25 gal/ft2

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	45 Bounds	Yes Bounds
System Type(s)	25% Rdn	25%/50%
Site LTAR	0.25 gal/ft	0.25 gal/ft

OTHER FACTORS (.1946):

SITE CLASSIFICATION (.1948): P/S

EVALUATED BY: Fred Clemmons

OTHER(S) PRESENT: Ellsworth Rhyne

COMMENTS: 360 LFT 2 STP/D 195 LFT - 2", Install TS ND Scapes when 30"

LEGEND

use the following standard abbreviations

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FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	SCL (Sandy Clay Loam)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiL (Silt Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SiCL (Silty Clay Loam)				
S (Shoulder Slope)		Si (Silt)				
T (Terrace)						
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05		
		SiC (Silty Clay)				
		C (Clay)				
		O (Organic)	None			

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

#5 Hole
0-6" SCL WK SAB FR SS SP
6-8 Rock SC WK SAB FI SS SP

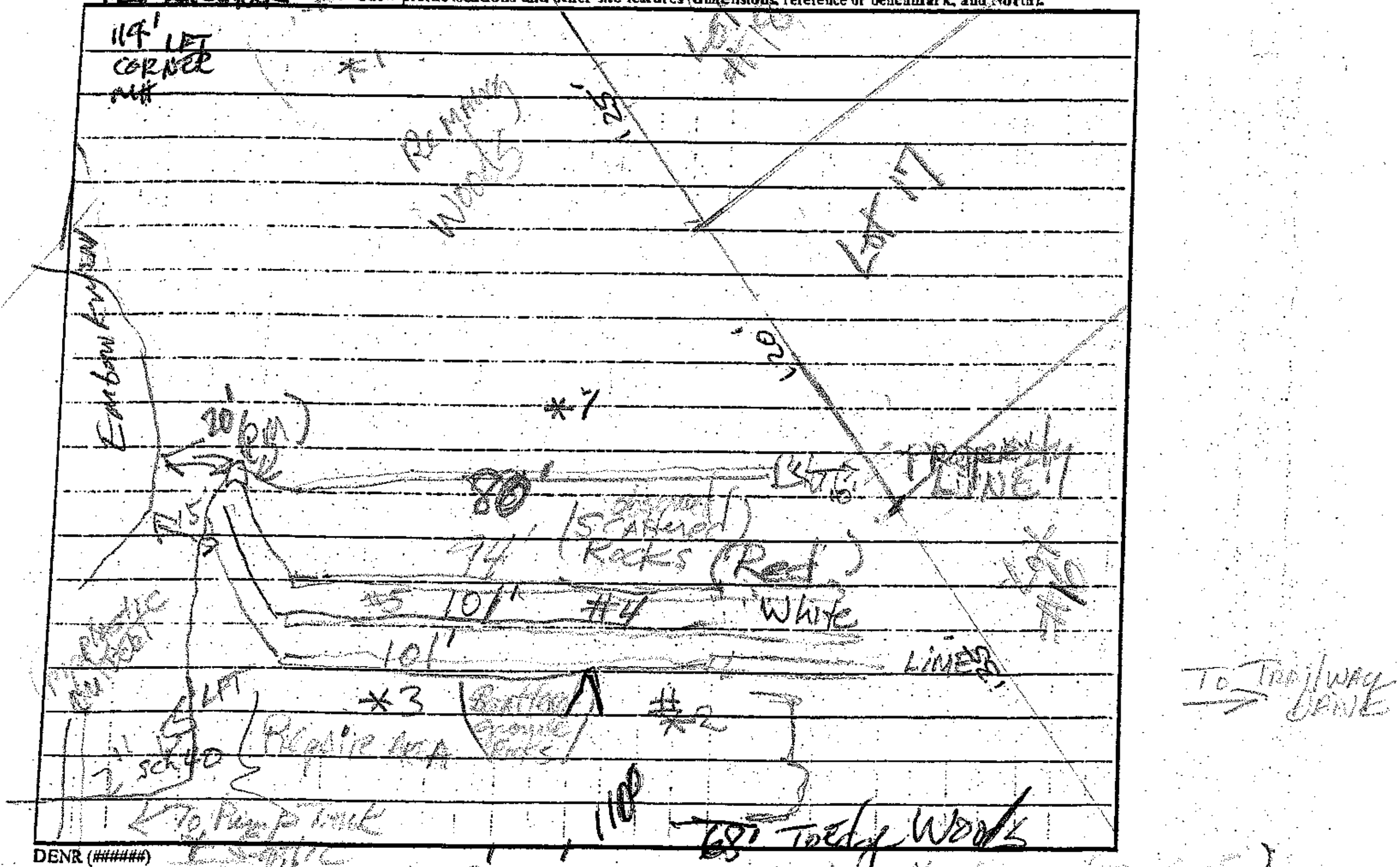
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

NOTES

HORIZON DEPTH In inches below natural soil surface
DEPTH OF FILL In inches from land surface
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SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.
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Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)
Review (#####)

94 - 77 = 16 FT elevation head (grd surface)
+7 = TANK
23 FT Elevation Head
110'
Conc IPS
23 + 25% = 29 EH
23 + 6 = 29