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

4709- 64-8842

Sheet 1 of ___
PROPERTY ID #: ___
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ADVANTAGE ELECTRIC & BLDG — APPLICATION DATE 11/12/04
ADDRESS: PO BOX 5127 STATESVILLE — DATE EVALUATED: 12/22/04
PROPOSED FACILITY: 3BR — PROPOSED DESIGN FLOW (.1949): 360 — PROPERTY SIZE: ___
LOCATION OF SITE: HWY 115N TL PISGAH TR BOWLES FARM TL HILL FARM — PROPERTY RECORDED: Y
WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other TR PISGAH RIDGE DRIVE ON LEFT
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut — TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

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	T	0-6	WK SBK SCL	VFR SS/SP SEXP					P5
		6-24	MO SBK C	FI S/P SEXP					
		24-30	MO SBK C+SAP	FI S/P SEXP	—	30"	—	—	0.125
		30+	SL MA SAP	—					
2	T	0-9	WK GR SL	VFR NS/NP SEXP					P5
		9-20	MO SBK C	FI S/P SEXP					
		20-30	MO SBK C+SAP	FI S/P SEXP	—	30"	—	—	0.125
		30+	SL MA SAP	—					
3	T	0-18	WK SBK SCL	VFR SS/SP SEXP					UN
		18-21	MO SBK C+SAP	FI S/P SEXP					
		21+	SL MA SAP	—	—	21"	—	—	N/A
4	T	0-2	WK SBK SL	VFR NS/NP SEXP					UN
		2-17	MO SBK C	FI S/P SEXP					
		17+	SL MA SAP	—	—	17"	—	—	N/A

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___
OTHER(S) PRESENT: ___

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.

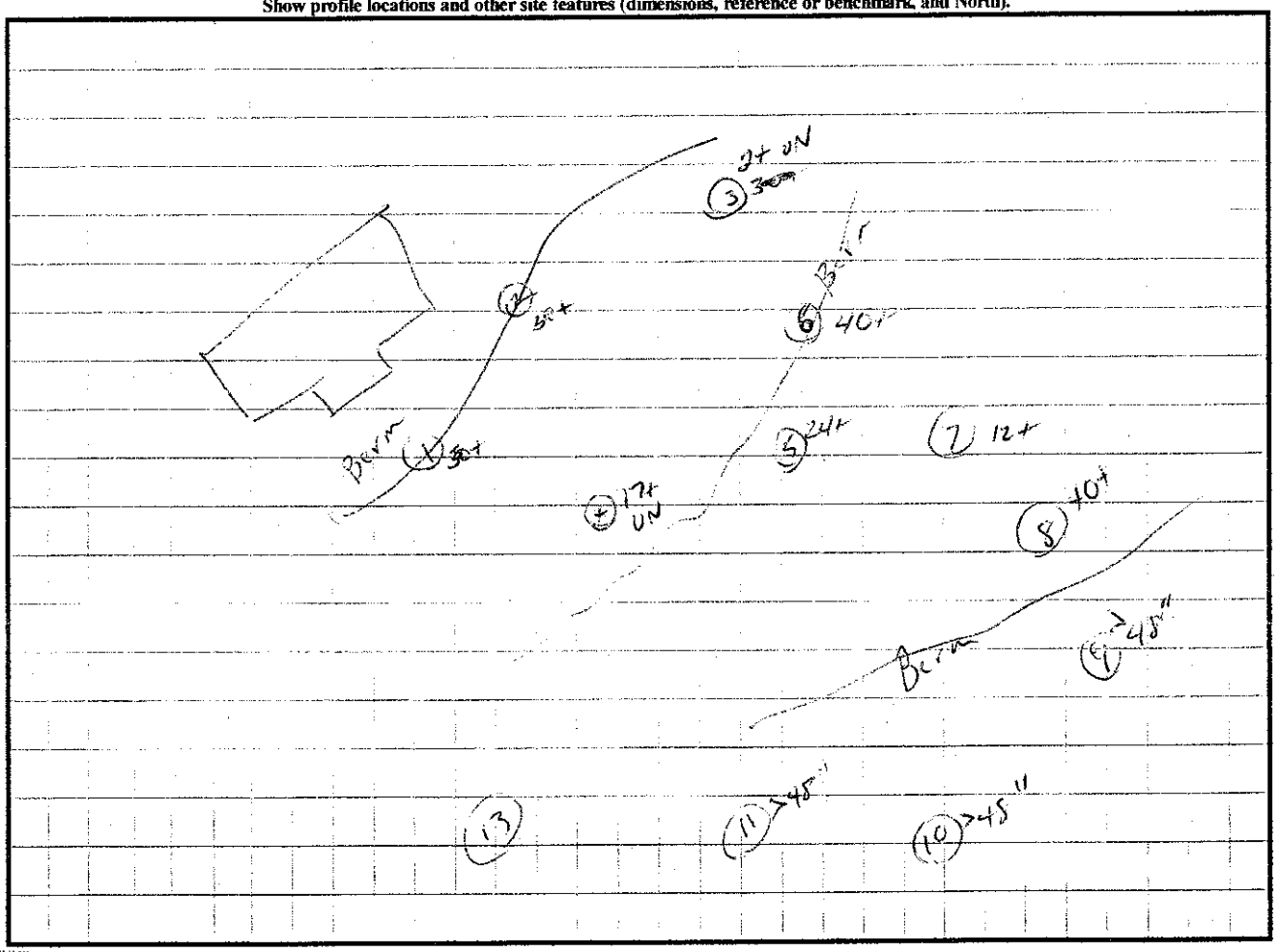
NOTES

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 (#####)

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

4709- 64-8842

Sheet 2 of ____
PROPERTY ID #: ____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ADVANTAGE ELECTRIC & BLDG
ADDRESS: ____
PROPOSED FACILITY: 3BR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: ____
WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE 11/12/04
DATE EVALUATED: 12/22/04
PROPERTY SIZE: ____
PROPERTY RECORDED: Y
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

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	T	0-11	WK SBK SCL	VFR SS/SP SEXP	—	24"	—	—	PS 0.125
		11-24	MO SBK C+SCL	FI S/P SEXP					
		24+	SL MA ROCK	—					
2	T	0-10	WK SBK SCL	VFR SS/SP SEXP	—	40"	—	—	PS 0.30
		10-30	MO SBK C	FR S/P SEXP					
		30-40	MO SBK C+SCL	FR S/P SEXP					
		40+	SL MA Aff	—					
3	T	0-2	WK SBK SCL	VFR SS/SP SEXP	—	12"	—	—	UN N/R
		2-12	MO SBK C	FI S/P SEXP					
		12+	SL MA Cr	—					
4		0-10	WK GR-SL	VFR NS/NP SEXP	—	40"	—	—	PS 0.30
		10-40	MO SBK C+SCL	FR S/P SEXP					
		40+	SL MA Saff	—					

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

OTHER FACTORS (.1946): ____
SITE CLASSIFICATION (.1948): ____
EVALUATED BY: ____
OTHER(S) PRESENT: ____

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/ft²

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

9
C - 6 SCL
6 - 35 C
35 - 48 C+Sap
PS .25

10
0 - 5 SCL
5 - 48 C
PS .25

11
0 - 9 SCL
9 - 40 C
40 - 48 C+Sap
PS .3

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

12
0 - 10 SL
10 - 33 C
33 - 40 C+Sap
40+ Sap
DS .3

13
0 - 33 SC
33 - 48 C
PS 0.3

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

4709- 64-8842

Sheet 3 of ___
PROPERTY ID #: ___
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ADVANTAGE ELECTRIC & BLDG — APPLICATION DATE 11/12/04
ADDRESS: ___ — DATE EVALUATED: 12/22/04
PROPOSED FACILITY: 3 BR — PROPOSED DESIGN FLOW (.1949): 360 — PROPERTY SIZE: ___
LOCATION OF SITE: ___ — PROPERTY RECORDED: 4
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	T	0-9	WK SBK SCL	VFR NS/NP SEXP	—	>48"	—	—	PS 0.25
		9-38	MO SBK C	FI S/P SEXP					
		38-48	MO SBK C+SAP	FR S/P SEXP					
2	T	0-5	WK SBK SCL	VFR NS/NP SEXP	—	>48"	INCLUSIONS AT 30"	—	PS 0.25
		5-48	MO SBK C	FI S/P SEXP					
3	T	0-9	WK GR SL	VFR NS/NP SEXP	—	>48"	—	—	PS 0.30
		9-40	MO SBK C	FR S/P SEXP					
		40-48	MO SBK C+SAP	FR S/P SEXP					
4	T	0-10	WK GR SL	VFR NS/NP SEXP	—	40"	—	—	PS 0.30
		10-22	MO SBK C	FR S/P SEXP					
		22-40	MO SBK C+SAP	FR S/P SEXP					
		40+	SC M SAP	—					

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___
OTHER(S) PRESENT: ___

COMMENTS: ___

LEGEND

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N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
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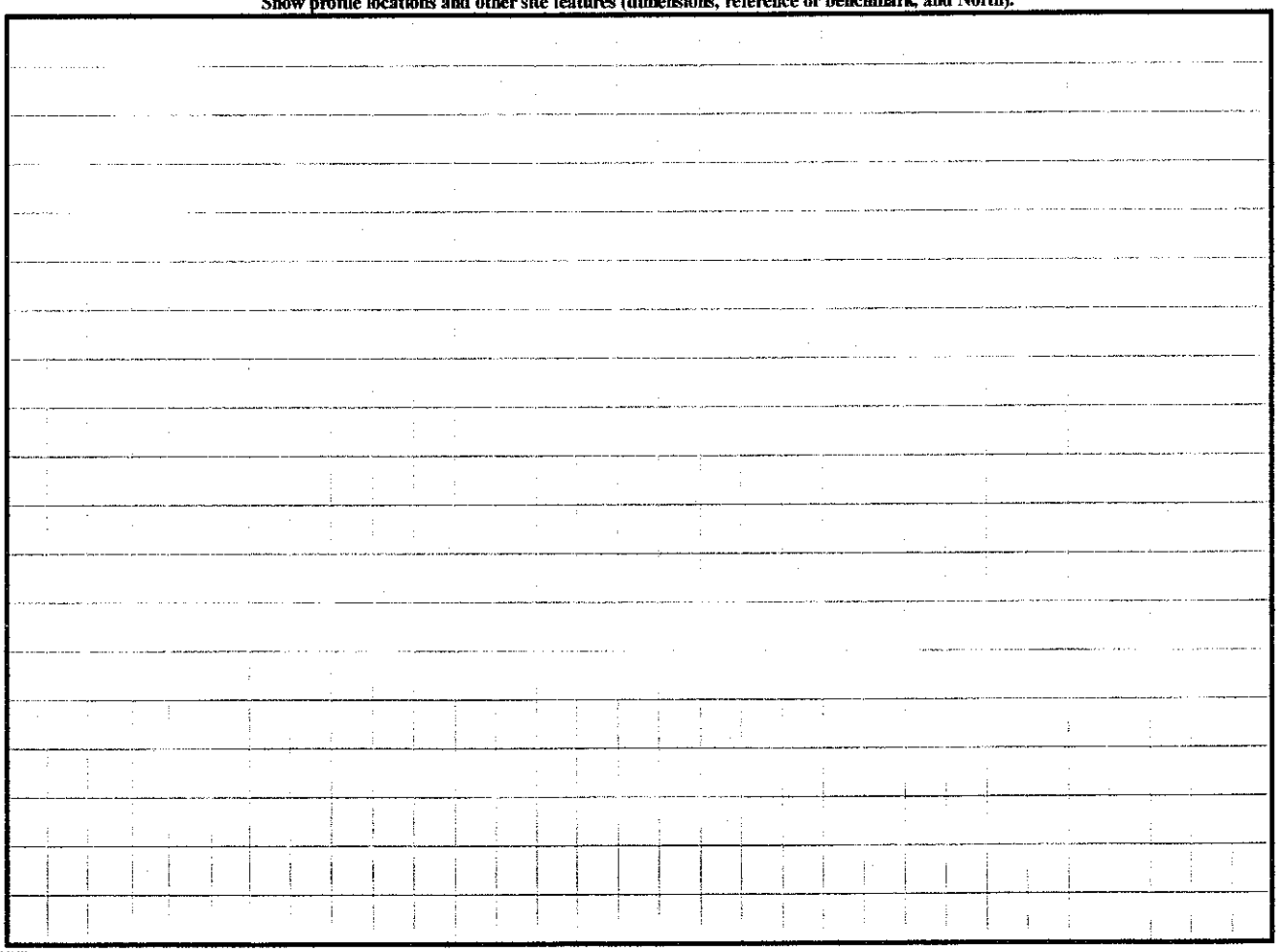
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Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)

Review (#####)

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

4709-64-8842

Sheet 4 of ___
PROPERTY ID #: ___
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ADVANTAGE ELECTRIC & BLDG
ADDRESS: ___
PROPOSED FACILITY: 3 BR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: ___
WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE 11/12/04
DATE EVALUATED: 12/22/04
PROPERTY SIZE: ___
PROPERTY RECORDED: 4
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

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1	T ON BERM	0-33	WK GR SL	VFR NS/NP SEXP	Fe 3+/Mn 2+ concretions found in upper 33"	>48"	—	—	PS 0.30
		33-48	MOSBK C	FR S/P SEXP					
2									
3									
4									

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
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LEGEND

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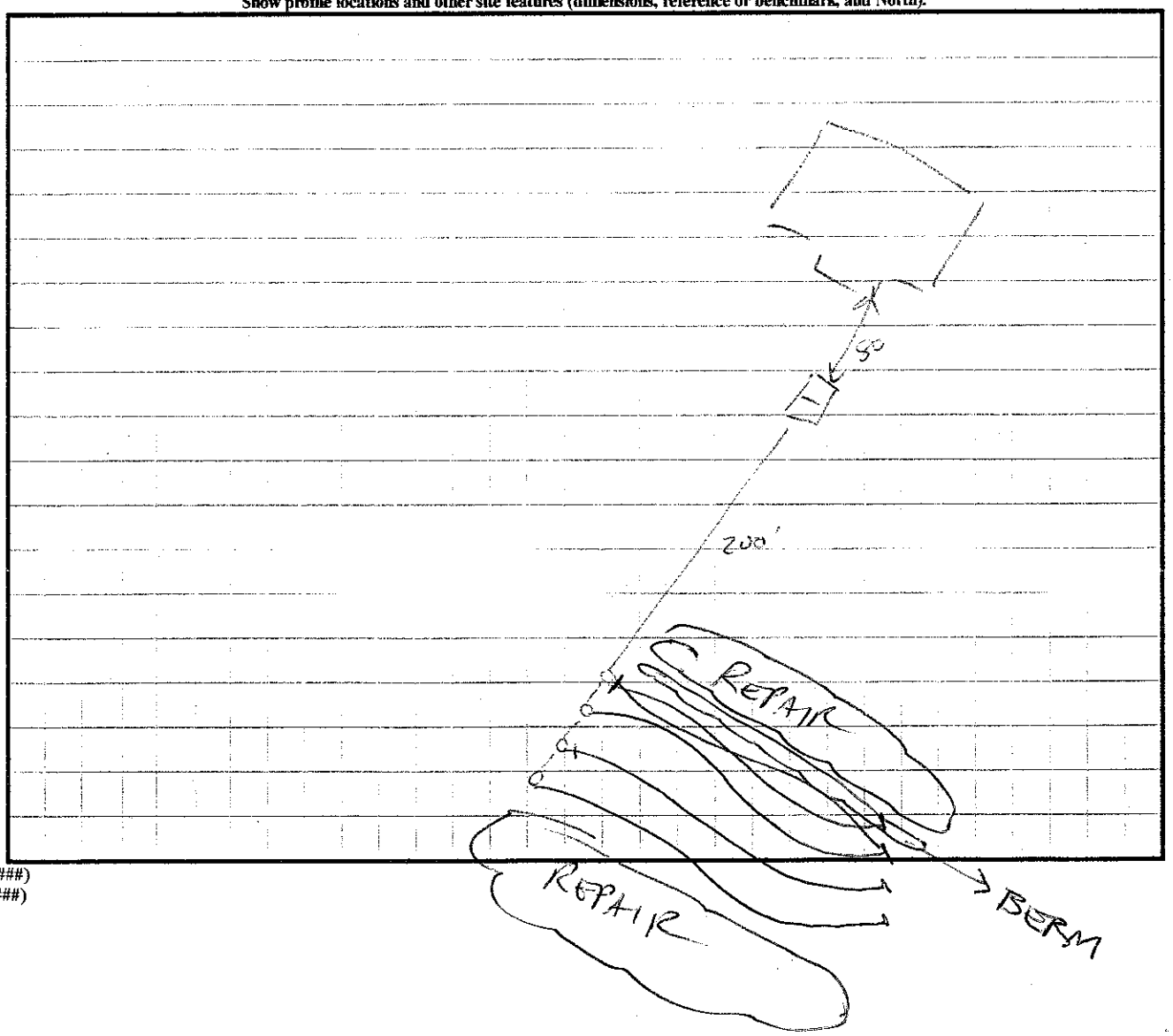
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DENR (######)

Review (#####)