



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 527893

AGENCY REVIEW: _____

DATE 11/1/07

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Harry Reinhardt

DAYTIME PHONE 301-829-9495 CELL _____ FAX _____

MAILING ADDRESS 18571 Penn Shop Rd Mt Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT Mary Parker

DAYTIME PHONE 301-829-5410 CELL 240-498-5217 FAX _____

MAILING ADDRESS 17344 Old Frederick Rd Mt Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Deer Run LOT NO. 1

PROPERTY ADDRESS 18571 Penn Shop Rd Mt Airy MD 21771
STREET TOWN/POST OFFICE

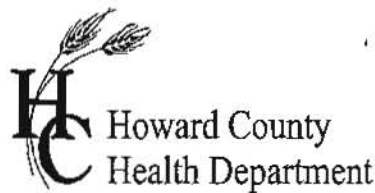
TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE 1 acre

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Mary Parker
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



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AP 527893-A

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- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
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- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Harry Reinhardt

DAYTIME PHONE 301-829-8495 CELL _____ FAX _____

MAILING ADDRESS 18571 Penn Shop Rd Mt Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT Sara Hall

DAYTIME PHONE 301-898-9502 CELL 240-674-0585 FAX _____

MAILING ADDRESS 18571 Penn Shop Rd Mt Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. 2

PROPERTY ADDRESS 18571 Penn Shop Rd Mt Airy MD 21771
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE 1 Acre

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

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Mary Porten
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
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Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

November 6, 2008

Harry and Christine Reinhardt
18571 Penn Shop Rd
Mt. Airy, Maryland 21771

RE: Variance request
18571 Penn Shop Rd
Mt. Airy, Maryland 21771

Dear Mr. and Mrs. Reinhardt,

The Health Department has received your variance request dated November 6, 2008 for the above referenced property. The Maryland Department of the Environment (MDE) has accepted our recommendation to approve the variance request. This approval will allow the initial sewage disposal system and future repair area for proposed Lot 1 to be located up gradient from a private water supply located on the remaining portion of the existing property.

Consideration of the favorable soil conditions and percolation tests, assumed groundwater flow patterns, landscape position, and type of well construction, were some of the factors used in making our recommendation for approval. In addition, a preliminary nitrogen balance calculation indicated favorable results. As a result of this determination, the need for an advanced pretreatment system that reduces nitrogen using best available technology is not required but is encouraged thru application to the Bay Restoration Fund.

The Bay Restoration Fund (BRF) may provide grant money to cover the complete cost of a nitrogen reducing aerobic pretreatment system. These systems are not only a good investment in the life of a septic system, but they help to purify the septic effluent prior to groundwater recharge to a much greater extent than a conventional septic tank system. If interested, please contact John Boris at MDE for additional information. He can be reached at (410) 537-3678.

If you have any questions regarding this letter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Sara Sappington'.

Sara Sappington, R.S.
Well and Septic Program

A handwritten signature in cursive script, appearing to read 'Steven R. King'.

Maryland Department of the Environment

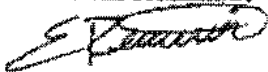
November 06, 2008

To Whom It May Concern,

My name is Edwin Reinhardt. I am currently trying to subdivide a one (1) acre lot off of the Reinhardt property located at 18571 Penn Shop Rd. in Mt. Airy to build my home. I am requesting a variance to COMAR 26.04.02.05C to allow the septic area on proposed lot 1 to be located directly up gradient of the existing well on the residue property. Thank you for your time.

Sincerely,

Edwin Reinhardt



11/06/08

November 06, 2008

To Whom It May Concern,

My name is Harry Reinhardt. My son Edwin, is currently trying to subdivide a one (1) acre lot off of the property located at 18571 Penn Shop Rd. in Mt. Airy to build his home. I am requesting a variance to COMAR 26.04.02.05C to allow the septic area on proposed lot one (1) to be located directly up gradient of the existing well on the residue property. Thank you for your time.

Sincerely,
Harry W. Reinhardt Sr.

A handwritten signature in black ink that reads "Harry W. Reinhardt Sr." The signature is written in a cursive style with a large, prominent "H" and "R".



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
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website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

September 3, 2008

Harry Reinhardt
18571 Penn Shop Rd
Mount Airy, MD 21771

RE: Percolation Test Results – A527893 (A&B)
1 Lots 18571 Penn Shop Rd

Dear Mr. and Mrs. Reinhardt,

Percolation testing conducted on August 28, 2008 on the referenced property indicated unsatisfactory and satisfactory soil conditions. Copies of the test results are enclosed. The limiting factors included shallow depths to rock, rock percentages over 50%, and fine soil textures.

Based on field tests, a 10,000 square foot sewage disposal area was identified for the existing house and for the proposed lot. Further review of the property is contingent upon submission of a Percolation Certification Plan by a Maryland registered surveyor or engineer, requirements are enclosed.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

Sara Sappington, R.S.
Well and Septic Program
Development Coordination Section

Enclosures

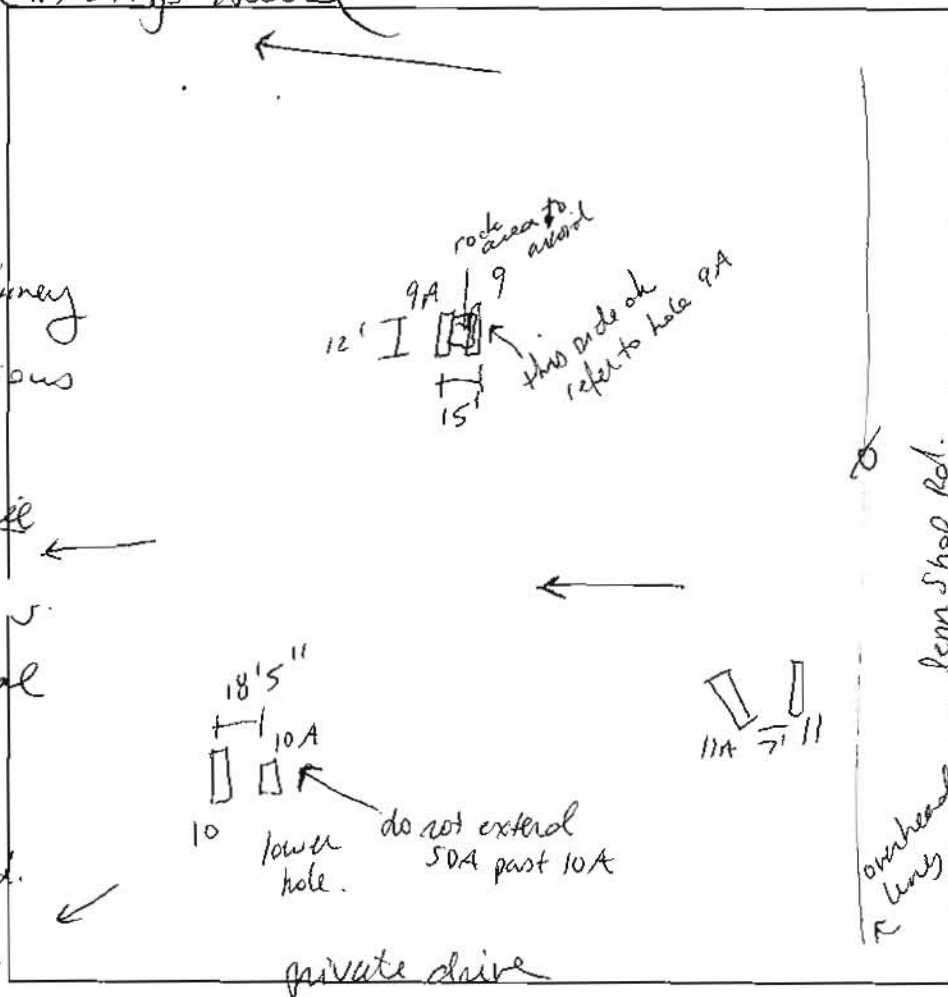
For Ex's trap house

A/P

9
brn l dry
brn
fine silt
very dry, hard
sbk 25% channery
2 1/2
light red/brn
silt micaceous
cw 35% channery
phyllite
saponite
downhill
6' 3"
+ 50% channery
phyllite
saponite
uphill
11' refusal

9A
brn l dry
brn
silt dry, hard
sbk
2 1/2
light red/brn
silt
micaceous
35% channery
uphill
6'
45% channery
8'
11' refusal

10/10A
brn
silt dry hard
2'
brn (gray cherty rock)
silt micaceous
40% channery
phyllite
schist
saponite
10'
refusal



11
brn l @ surface
~1/2"
brn
silt very hard
sbk
1 1/2
light red/brn
silt
micaceous
sideward means.
40% channery
refusal 10'

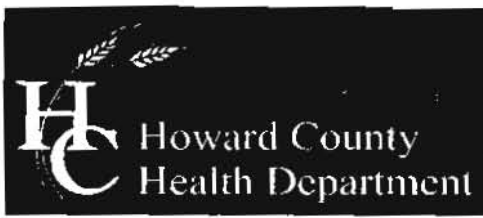
11A
brn l @ surface
~1/2"
brn
silt
very hard & dry
2 1/2
light red/brn
silt
not cemented
35% channery
7'
40% channery
saponite

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/28/08	9	3' 8" / 11'	9:15	10:00	next to 1st inch		F
	10	3' 7" / 10'	10:04	10:39	next to 1st inch		F
	"	4' 1/2	10:45	10:57	11:27	water just above tip	-
	10A	4'	12:03	No movement			
		5'	12:22	12:29	12:40	11	P
	9A	4' 1/2 / 11'	10:30	10:50	11:20	30	P
	11	5' / 10'	9:33	10:03	10:35		F
	11A	5' / 10' 5"	11:05	11:09	11:12	3	P
	10	5'	11:37	12:23	next to 1st inch		F

REMARKS Holes dug per stake then adjusted as indicated EAC 5' bottom @ 6'
SANITARIAN SS BACKHOE Loveland OTHERS E. Reinhardt
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

* 10A dug to see if rock
'decanted, hole exists to dip but overall
consistent with #10 w/ lesser degree of rock.

Ex. house = 3 BR
New house = 3 BR



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Peter L. Beilenson, M.D., M.P.H., Health Officer

March 24, 2008

Harry Reinhardt
18571 Penn Shop Rd
Mount Airy, MD 21771

RE: Percolation Test Results – A527893 (A&B)
3 Lots 18571 Penn Shop Rd

Dear Mr. and Mrs. Reinhardt,

Percolation testing conducted on March 18 and 19, 2008 on the referenced property indicated unsatisfactory soil conditions for a sand mound system on all three proposed lot locations. Copies of the test results are enclosed. The limiting factors included shallow depths to rock, rock percentages over 50%, and fine soil textures. If you choose to continue percolation testing on the property, a revised plan showing new lot locations, sewage disposal areas, and well areas will need to be submitted to the Health Department for review.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-4261.

Sincerely,

Sara Sappington, R.S.
Well and Septic Program
Development Coordination Section

Enclosures

MOUND TEST DATA SHEETS

Property I.D. 18571 PENNSHOP RD Lot # 3 Date 3/18/2008

Sanitarian GABE C. Landscape Position _____

% Slope <10% Soil Type _____ Contractor So. Carroll

HOLE # 303 DEPTH OF TEST 12" START TIME 1:40

8"
36"
Brn. Ch. Ap Silty
str Brn Sil.
ch. ~ 10%

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
8 ¹³ / ₁₆	10m	3/16		
8 ²⁵ / ₃₂	10m	No Change		
8 ²⁵ / ₃₂	10m	No Change		
8 ²⁵ / ₃₂	10m	No Change		

Pulled (F)

HOLE # 304 DEPTH OF TEST 24" START TIME 2:50

12"
18"
36"
DK Brn Ap Silty
or Sil
ch. str. Brn Sil
3 sbk
transitioning
Olive sil
ch. ~ 20-30%
2 sbk

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
8 ¹⁵ / ₁₆	20m	1/16	3/16/hr	
8 ¹⁴ / ₁₆	20m	1/16	3/16 hr	
8 ¹³ / ₁₆	20m	1/16	3/16 hr	
8 ³ / ₄	20m	1/16		

Pulled too slow F

18571 PENN. SHOP RD
 REINHARDT PROP
MOUND TEST DATA SHEETS

Property I.D. _____ Lot # 3 Date 3/18/08
 Sanitarian GABE Landscape Position Shoulder/Top
 % Slope <10 Soil Type Glendy Contractor So. Carroll
 HOLE # 301 DEPTH OF TEST 12" START TIME 12:08

0"
 12"
 24"
 36"
 42"

Brown Ap
 sil. Lim ch.
 ~ 10%

 Str. Brn sil m
 ch. 25%

 Olive Brn
 ch. si ~ 30%

 >50% Rock

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
8 ¹⁵ / ₁₆	15m	1/16	1/4" hr	
8 ²⁹ / ₃₂	15m	1/32		
8 ¹⁴ / ₁₆	15m	1/32		
8 ²⁷ / ₃₂	15m	1/32		
8 ²⁵ / ₃₂	15m	Pulled slow and has a leak		

Ⓞ 12:23

HOLE # 302 DEPTH OF TEST 16" START TIME 12:48

12"
 36"

Brn. Ap sil m
 ch. 10%

 Str Brn sil m
 ch. ~ 45%
 Rare phyllite

 Bottom

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
7 ⁷ / ₈	10m	1 ¹ / ₈ "		
6 ⁷ / ₈	10m	1"		
6 ³ / ₁₆	10m	11/16		
5 ¹ / ₂	10m	11/16		
4 ³ / ₄	10m	3/4"		
4 ¹ / ₄	10m	1/2"		
3 ⁹ / ₁₆	10m	~ 1"		
8"	10m	N/A repour		
7 ¹ / ₄ "	10m	3/4"		
6 ⁵ / ₁₆	10m	15/16"		
5 ¹¹ / ₁₆	10m	5/8"		
4 ¹¹ / ₁₆	10m	1"		

Repoured

Will not stabilize
 Pulled

Ⓣ

MOUND TEST DATA SHEETS

Property I.D. 18571 Penn Shop Rd Lot # 1

Date 3/19/08

Sanitarian SS

Landscape Position _____

% Slope _____

Soil Type _____

Contractor South Carroll

HOLE # 1

DEPTH OF TEST 15"

START TIME _____

dark brown
silt/heavy silt
15% coarse chert
roots chert
2'
st. brown
fine silt sbk
30-35% coarse
chert
2'
grayish/st. brown
fine silt/heavy
silt
platy rock orientation
40-45% coarse chert
some patches (slate) phyllite
of red/yellow silt
4'

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 ¹⁶ /16	9:46	0		
10 ¹⁶ /16	10:01			
10 ¹⁶ /16	10:16			
10 ¹⁶ /16	10:31			

No movement
Fail

HOLE # 2

DEPTH OF TEST 16"

START TIME _____

dark brown
heavy silt sbk
roots 0-15% chert
1'
st. brown
fine silt
sbk
35-40% coarse
chert
2'
multicolored
(gray, pale red, red, yellow,
shaded layers)
fine silt
50% platy phyllite
slate
(some breaks
off)
3'8"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change

not tested due to location, did not
have a match

MOUND TEST DATA SHEETS

Property I.D. 18571 Penn Shop Lot # 1 Date 3/19/08

Sanitarian SS Landscape Position _____

% Slope _____ Soil Type _____ Contractor Scott Carroll

HOLE # 3 DEPTH OF TEST 15" START TIME _____

7" dark brown
fl roots sbk
10% chert

2 1/2" brown
f sil sbk
25% coarse chert
(slats)

2" st. brown / pale brown
coluie
heavy fine sil
saprulite (phyllite)

platy
slates (some breaks off)
50% phyllite

3' 8"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	10:30	0		
10 14/16	10:45	2/16		
10 13/16	10:00	1/16		
10 13/16	11:15	0		
10 13/16	11:30	0		

Fail

HOLE # 4 DEPTH OF TEST 18" START TIME _____

1" dark brown
heavy sil sbk

2" brown
fine sil sbk
25% coarse
chert

multicolored
(dark gray, so. brown,
pale red)

fine sil
slate (platy structure)
40-45% slate
(some breaks off)
phyllite

4 1/2"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
10 16/16	11:41	0		
10 15/16	11:56	1/16		
10 15/16	12:11	0		
10 15/16	12:26	0		

Fail

MOUND TEST DATA SHEETS

KEINHARDT

Property I.D. 18571 PENNSHOP Lot # 2 Date 3/18/2008

Sanitarian GABEL Landscape Position Side Slope

% Slope _____ Soil Type _____ Contractor So. Carroll

HOLE # 201 DEPTH OF TEST 24" START TIME 8:50

12"
Brown ch. Sil
ch ~ 10%

24"
St. Brw
ch. Sil
ch ~ 20%
2 sbk

olive ch. Sil
ch ~ 20%

36"
Overall:

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
8 3/32	10 m	1/32		
8 15/16	10 m	1/32		
8 29/32	10 m	1/32		

Pulled @ 30m too slow
F

HOLE # _____ DEPTH OF TEST _____ START TIME _____

Blank box for notes.

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change

