

# Gill Gully to Belleayre - Balsam Col

with Jennifer Benusis 4/28/09 (a very warm day)

202-67

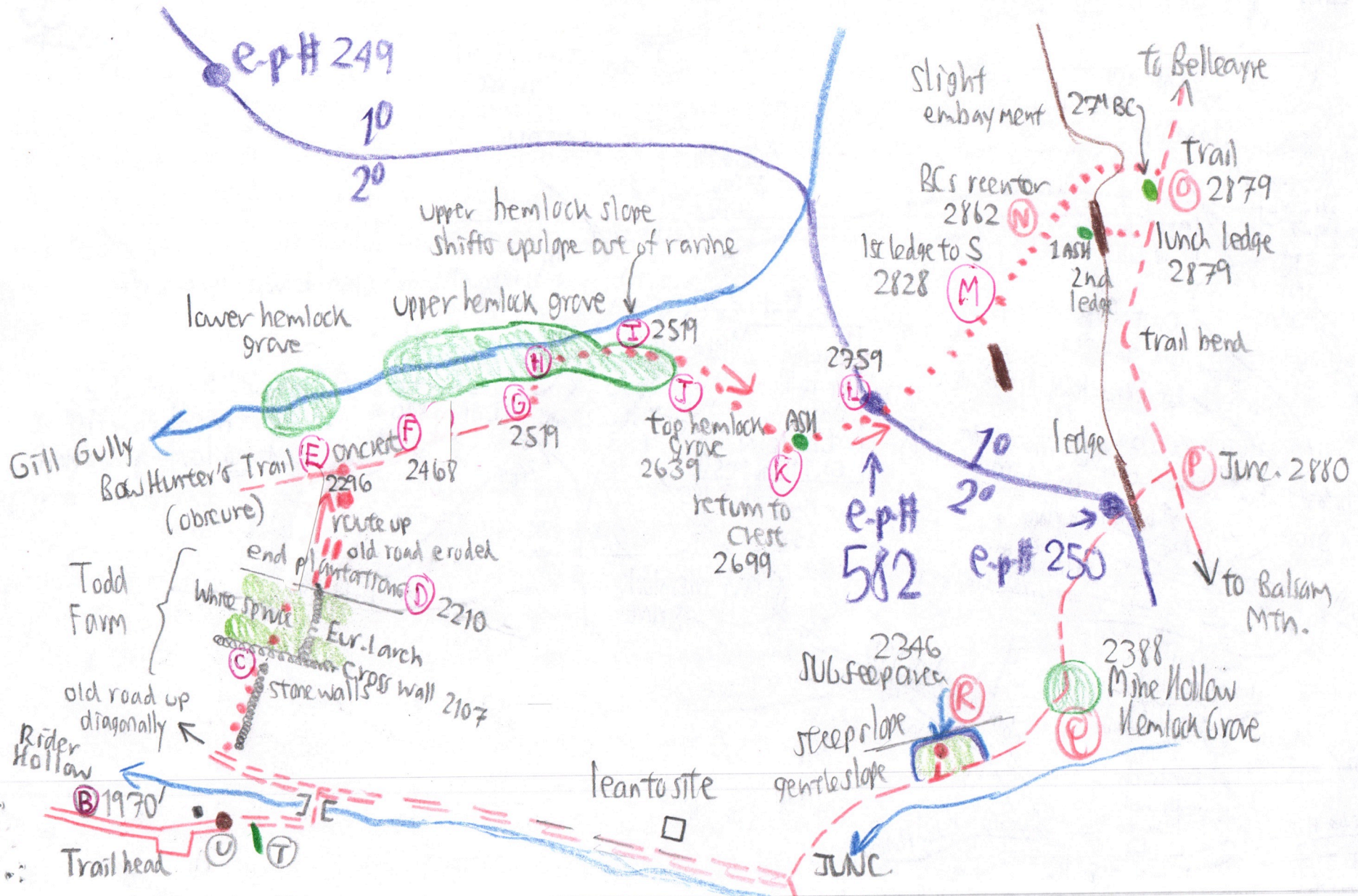
Location	P	Δp	Δe	e calc	e map	time	R
(A) 2810	—	—	—	—	1500	7:45	
(B) Rider Hollow Trail Head	29.70	0.00	—	—	1970	7:15	
(C) Cross wall	29.54	0.16	137	2107			
(D) top plantations	29.42	0.28	240	2210			
(E) on crest: Bow Hunters Trail	29.32	0.38	326	2296			
(F) on crest: lower end of upper NEM grave	29.12	0.58	498	2468			
(G) descend into NEM grave	29.06	0.64	549	2519			
(H) —	—	—	—	—			
(I) Gill Gully in hollows.	29.06	0.64	549	2519			
(J) Top NEM grave on ridge	28.92	0.78	669	2639			
(K) Last ASH on ascent turn up ridge	28.85	0.85	729	2699		10:40	
(L) enter 1 <sup>o</sup>	28.78	0.92	789	2759		10:50	
(M) on level with 1st ledge	28.70	1.00	858	2828			
(N) BCs reenter	28.66	1.04	892	2862		11:12	
(O) On trail LUNCH.	28.64	1.06	909	2879		11:18 } 11:55 }	
(P) Trail June. Mine H.	28.64	1.06	910	2880	2880'	12:02	
		0.87	910	1.046			
(Q) Mine Hollow NEMS	29.11	0.40	418	2388		12:20	
(R) SUG seep BASS ASH	29.15	0.36	376	2346			
(B) Rider Hollow Trail Head	29.51	0.00	—	—	1970	1:20	
(A) 2810	30.08	-0.57	-596	1374?!	1500	1:50	

$$R_{1050\text{cont}} = \frac{2880' - 1970'}{29.70 - 28.64} = \frac{910'}{1.06} = 0.858$$

Barometric pressure falling rapidly as cold front approaches

$$R_2 \text{ descent} = \frac{2100' - 1990'}{29.51 - 28.64} = \frac{910'}{0.87} = 1.046$$

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# Flora

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(D) Beech stand above plantations

(E) LL patch

(F) ASH to 15"  
BC to 22" common  
SUB to 28"  
YB-RM-B

(G) leave crest at large boulders with a few YBs on top <sup>with</sup> straddling roots. Rock fully hidden under litter & humus. RMs to 16" ± nearby. Hardwoods age not over <sup>ca</sup> 100y.

(H) Dic-can. in fl.  
Dent-di. in fl bud  
30" BC

(I) & (J) see next page for ring counts

(K) Last 24" Ash on wide, wide spur crest

(L) **e-p# 582** 2781  
see next page for ring count. NO BCs or YBs →  
Two 30" YBs near ledges.  
SUBS 28"

(N) SUB still dom, but BCs re-enter  
RG on ledges with Lonicera can. common

(O) 1 Ash below lunch ledge in 10.

East of trail & along it, BCs are dom. to 70%.  
Much ice damage & B sprouts, some RA from defoliation.

(R) see next page for ring counts

(S) Rich seep site.  
SUBs dom, ASH BASH  
OST.

<u>Mitella</u>	m fl.
<u>VC</u>	"
<u>VPAP?</u>	← cucullata
<u>Dic. cuc.</u>	"
<u>Hydro.</u>	—
<u>Capo</u>	"
<u>Allyum.</u>	—

(T) white spruce cut-  
see next page

(U) Breccia balder?  
Piece collected.

Some SUBs below (L) are almost as big, but lack the broken tops & old age look. Also, below (L) large SUBs > 24" are widely scattered. Above (L), SUBS > 24" are common.

# Tree ages and forest history

202-70

## Hemlocks in Upper Grove:

#1. 30" diameter tree, snag dead down. 15" radius. 20y/mch in outer part, but hollow. Probably nowhere near  $20 \times 15 = 300y$ .

#2. 38" hemlock, live. Most hemlocks have healthy tops, not damaged like 300y trees.

#3. 25.2" diam. broken off  $\pm 28$  ft up. WEM. 30.2" at breast height. #15 120y at 28' level. 4mm/y when young to 1.5mm/y radius older. If height growth is 8"/y, then 28' more feet would be about 42y.  $\therefore$  Age total  $120 + 42 = 162y$ . Following bark peeling in 1847?

#4. 30" dbh tree

#5. 31" broken tree 6' up. 150 to 160y plus  $\pm 9y$  to reach 6'.  $\Sigma 165y$ . #16 4mm/y at youth radial growth

#6. 36" dbh

#7. 30" dbh

#8. Several 30" trees

#9. 34" broken top

#10 #11. fallen together 150 to 160y with full can't? dbh??

Hemlocks are all about the same age, 160y, estab. ca. 1850s, prob. after tanning cut. Or, perhaps were saplings during tanbarking. Few live trees have, if any, broken aged tops like 300y trees

## SUGAR MAPLES:

Many scattered 28" to 30", ice-damaged at J.

At L, common to 70' or 80' in height. Begn 10 at e-p#

#27. One tree broken hollow. Outer 2 1/2" of radius = 60y. Full diameter 28". Full radius = 14".  $\frac{2.5''}{14''} = \frac{60y}{?y}$  or 336y?

Must be much younger with youthful growth faster

## Mine Hollow Hemlock Grove:

#17. One tree broken 10' up, 22" d. On ground log hollow. Outer 9" radius counted = 140y. Inner 2" radius missing.

$$\frac{140}{2} = \frac{9''}{11''} = 171y \text{ max, prob. younger}$$

#18. No dbh measured. White spruce fell across trail just above register. 59y or 35 ft up, cut to clear trail. If 8"/y height growth, add  $35 \times 3/2 = 52y$  to the 59y = 111y. No? Ed West put in plantation later?

Compare with Upper Birch Creek Grove, on p. 402-17: large, but young 41" tree = 95y by increment borer.