ABBREVIATIONS TO SAMPLE LISTS IN TABLES TO TIMBERWOLF MTN 7.5' QUADRANGLE, WASHINGTON

A=andesite
abo=above
abtmt=abutment
abun=abundant
accret=accretionary
adj=adjacent
aggl=agglomerate
agm=agmatite, agmatitic
alg=along
altd=altered
Am, Amer=American
amph=amphibole, amphibolite
amyg=amygdule, amygdaloidal
ap=andesite porphyry
aph=aphanite, aphanitic
aphp=aphanite porphyry
aphy=aphyric
arg=argillized
aspy=arsenopyrite
aug=augite

B=basalt
BA=basaltic andesite
bdd=bedded
belo=below
betw=between
bio=biotite
BFL=Benjamin F. Lill
bjtg=blocky jointing
BL=Buck Lake
blastoporp=blastoporphyritic (relict phenocryst)
blk=black
blky=blocky
blu=blue
borw=borrow (in borrow pit)
bot=bottom
brc=breccia
Brdg, brdg=bridge
brg=bearing
brn=brown

C=Cohassett LFU of GRB
calc=calcite
cany=canyon
Casc=Cascade
Cb=collapse breccia
CCH=Christopher C. Humphrey
cgrd=campground
chl=chlorite, chloritized
cjtg=columnar jointing
cl=clay
clst, clst=claystone, clast
clt, clast=fragment
cmpd=compound
cmplx=complex
col=column, columnar
contm=contact metamorphosed
cse=coarse

D=dacite, Dam
DA=debris avalanche
db=diabase
DCF=Devil Creek fault
devit=devitrified
DF=debris flow
DGT=David G. Taylor
dio=diorite
dikty=diktytaxitic
dk=dike; dk with NE, N, NW indicates strike of dike
dklt=dikelet
dn=dense
DNR=Department of Natural Resources
drk=dark
E=east, Ellensburg Formation
Eoc=Eocene
epi=epidote, epidotized
ER=Edgar Rock volcano

femg=ferromagnesian mineral
fk=fork
flk=flank
flt=fault
fm, Fm=ferromagnesian mineral, formation
fn, fn-grnd=fine, fine grained
fnly=finely
foss=fossil, fossilized
frg=fragment
fs=feldspar
FR, FS=Forest Route
FWD=4 wheel-drive

G=GPS reading
GC=Grouse Creek LFU of GRB
gd, gdio=granodiorite
gn=gneiss
GCF=Goat Creek fault
gr=granite
gran=granular
GRB=Grande Ronde Basalt
grnd=grained
grywke=graywacke
grn=green
grnst=greenstone
gry=gray

ha=hydrothermal alternation/altered
hb=hornblende
hd=head
hem=hematitic
hjtg=hackly jointing
hnfls/d=hornfels, hornfelsed
hwy=highway
hy=hypersthene
hyc=hyaloclast, hyaloclastic, -ite

IFF=Indian Flat fault
incl=inclusion
ind=indurated
intbd=interbed
intr=intrusion, intrusive
intrdg=intruding
intrds=intrudes

jct=junction
JST=Julianna Shultz Thompson
jt, jtd, jtg =joint, jointed, jointing

KAB=Keith A. Brunstad
ks, Kf=K-feldspar

L=little, lower; lahar, laharic
lap=lapilli
LB=lava brc, lithic brc, laharic brc
lf, LF=lava flow
LFU, lfu=lava-flow unit
L, lk, Lk=lake
lo=lower
LOI=loss on ignition
LRC=Little Rattlesnake Creek
ls=landslide
lt=light
lth=lithic
lyrd=layered

MA=mafic (basaltic) andesite, Mount Aix
MAC=Mount Aix caldera
mbr, Mbr=member
MC=McCoy Canyon LFU of GRB
micro=v fine grained
minl=mineral, mineralized
msv=massive
MT=Meeks Table; also equivalent to Grouse Creek LFU of GRB
mus=muscovite

na=not analyzed
NB=Nelson Butte
NC=Nile Creek
nd=not determined
nr=near
NRMP=normal (positive) remnant magnetic polarity
NRS=North Rattlesnake
obs=obsidian
ol=olivine
opp=opposite

P=plotted lattitude & longitude
pc=plagioclase
PFA=pyroclastic fall
PFL=pyroclastic flow
ph=phenocryst
PHA=sample prefix for Paul E. Hammond
phy=phyric (phenocrystic)
pilo=pillow
pk=peak
pl=pillow lava
plty=platy
pm=pumice
porp=porphyry, porphyritic
pQ=pre-Quaternary
prk=park
prop=propylitized
Ps=Pass
pt=point, part
pT=pre-Tertiary
pur=purple
px=pyroxene
py, pyr=pyrite, pyritized

q=quartz
qd, qdio=quartz diorite

R=rhyolite, river
RC=Rocky Coulee LFU of GRB
RD=rhyodacite
rdg, Rdg=ridge
rheoignim=rheoignimbrite
RRMP=reversed (negative) remnant magnetic polarity
RSC=Rattlesnake Creek
rx=rock

sdy=sandy
Sec-Twp-Rg=section-township-range
sect=section
SFC=Steven F. Cole
shrd=sheared
sil=siliceous, silicified
sm-small
sprg=spring
ss=sandstone
stnd=stained
st=siltstone
strat=stratigraphic
sulf, sulph=sulfide (mineral)

T=Tertiary
TE=trace elements
tf=tuff
tf-brc=tuff-breccia
Ti=Tertiary intrusion
tk bdd=thick bedded
TM=Timberwolf Mountain
TMv=Timberwolf Mountain volcano
tn bdd=thin bedded
tr=trail
TV=Tieton Volcano

up=upper

v=valley
vesi=vesicle, vesicular
vit=vitric
vitphy=vitrophyric, vitrophyre
vnlt=veinlet
vs=volcanic sedimentary rock
VII=month, e.g., July
VP=view point

w/=with
wh=white
w/in=within
wld=welded
WR=Wapshilla Ridge LFU of GRB
WSU=Washington State University
GeoAnalytical Lab
wthd=weathered
wthg=weathering

xbdd=cross bedded
xeno=xenolith
xg=crossing
xl=crystal
xln=crystalline

zeo=zeolite, zeolitized
zn=zone