

CLASSIFICATION OF ORDINARY CHONDRITES

Meteorite BLUEE #1 USNM 135-1

PETROGRAPHY

CHONDRULE OUTLINES Very Distinct Discernible Obscure Non-Existent

PRESENCE OF CHONDRULE GLASS Yes No

PLAGIOCLASE GRAIN SIZE _____ μm (For highly metamorphosed Meteorites)

STRIATED PYROXENE Everywhere Abundant Rare None

MATRIX Opaque Recrystallized (Caution: Beware of Weathering)

CHONDRULE TYPES All Present Some Missing _____

~~WEATHERING~~ Pigments Patches Veins

~~METAL~~ Fresh Weathering Rims Islands Replaced

~~TROILITE~~ Fresh Weathering Rims Islands Replaced

OPAQUE GRAIN SIZE Metal _____ μm Troilite _____ μm

BRECCIATION Obvious Not Obvious

UNUSUAL FEATURES _____

SHOCK CLASSIFICATION

OLIVINE Sharp Undulatory Planar Fractures Mosaicism Ringwoodite

PLAGIOCLASE No effects Undulatory Extinction Maskelynite

SHOCK VEINS Yes No + POCKETS

MODES

_____ Metal _____ Troilite _____ Weathering Products (all in vol.%)

_____ No. of Points

MICROPROBE ANALYSES

Olivine _____ Fa Avg. _____ σ _____ Number of analyses

Low-Ca Pyroxene _____ Fs Avg. & σ _____ Wo Avg. & σ _____ N

High-Ca Pyroxene (optional) _____ Fs _____ Wo _____ N