MONTANA BUREAU OF MINES AND GEOLOGY
A Department of Montana Tech of The University of Montana

BULLETIN 132, table 1
Berg and Cox, 2001

| Sample No. | Location | Clinoptilolite | Mordenite | Other Zeolites | Quartz | Opal-CT | Cristobalite | Glass | Feldspar | Biotite | Smectite | Kaolinite | Calcite | Dolomite | Gypsum | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Grasshopper Creek | M | T | | m | | | | m | T | T | | T | | | |
| 2 | " | | | | M | | | | | | | | M | | | |
| 3 | " | M | | | m | | | m | m | | T | | | | | |
| 4 | " | M | m | | m | | | | | | T | | T | | | |
| 5 | " | M | m | | m | | | | | | T | | T | | | |
| 6 | " | M | m | | m | | | | | | | | | | | |
| 7 | " | | | | | | | M | m | m | | m | T | | | |
| 11 | Beaver Creek | | | | m | M | | M | m | | | | | | | |
| 14 | " | | | | M | | | m | | M | | M | | T | | |
| 15 | " | | | | | | | | M | M | | M | | T | | |
| 17 | " | | | | | | | M | | T | | | | | | |
| 18 | " | | | | T | | | M | | T | | | | | | |
| 19 | " | | | | m | M | | m | T | | | | | | | |
| 22 | " | | | | M | | | M | M | | m | | | | | diatoms |
| 23 | " | | | | m | M | | | T | | | | M | | | |
| 29 | " | M | | | m | m | | | m | | | | | | | |
| 30 | " | M | | | T | | | | M | T | | | | | | |
| 32 | " | M | | | m | m | | | m | | | | | | | |
| 35 | " | M | | | | | | m | m | | m | | | | | |
| 36 | " | M | | | m | | | | M | | T | T | | | | |
| 37 | " | M | | | m | | | | M | T | | | | | | |
| 38 | " | M | | | m | M | | | m | | T | | | | | m opal A |
| 39 | " | M | T? | | M | | | | | | | | | | | |
| 40 | " | | | | | m | | M | | | | | M | | | |
| 41 | " | | | | m | | | M | T | M | M | | T | | | |
| 45 | " | | | | m | T | | m | M | | | | T | | | |
| 47 | " | | | | M | m | | M | m | m | | | | | | |
| 48 | " | M | | | m | M | | | | | | | | | | |
| 49 | " | M | | | M | M | | | m | | | | | | | |
| 50 | " | M | | | T | M | | | T | | | | | | | |
| 51 | " | | | | m | M | | | | | | | | | | |
| 53 | " | | | | M | M | | M | M | | T | | | | | |
| 54 | " | | | | M | M | | | M | m | T | | | | | |
| 55 | " | | | | m | M | | M | m | | T | | | | | |
| 56 | " | M | | | T | m | | | M | | | | | m | | dol. high in Fe (close to ankerite) |
| 57 | " | m | | | m | m | | | m | m | m | | | | | |
| 58 | " | M | | | m | T | | | T | | | | | | | |
| 59 | " | M | | | T | m | | | T | | | | | T | | |
| 60 | " | M | | | T | m | | | M | | T | | | T | | |
| 64 | " | | | | m | M | | M | T | | m | | | | | |
| 65 | " | | | | | m | | | M | M | | | | | | |
| 66 | " | | | | T | m | | M | M | M | | T | | | | |
| 67 | " | | | | m | | | M | M | M | T | | | | | |
| 70 | " | | | | T | | | M | m | | | M | | | | |
| 71 | Badger Pass | | M | | M | | | | | | | | | | | |
| 72 | Vaughn Area | | | M analcime | M | | T | | | | m | | | | | |
| 73 | " | | | M analcime | M | | T | | | | m | | | | | |
| 76 | " | | | M analcime | M | | | m | m | | M | | | | | |
| 78 | " | | | | M | | | | m | M | | | m | | | |
| 80 | Arrow Creek | | | | M | | | | m | T | m | | T | | | |
| 81 | " | M | | | M | | | | T | | | | | | | |
| 82 | " | M | | | m | | M | | T | | | | | | | |
| 86 | " | M | | | M | M | | | m | | m | | | | | |
| 87 | " | | | | M | | | | M | | m | | | | | |
| 88 | " | | | | M | | | | M | | M | | | | | |
| 89 | Ringling Area | | | M laumontite & stilbite; T chabazite | T | | | | | | | | m | | | |
| 90 | Southwest of Ramsay | | | | m | m | | M | m | | m | | | | | |
| 93 | " | M | | | T | | | | | | | | | | | |
| 94 | " | | | | M | | | | M | | | T | | | m | |
| 100 | Beaver Creek | M | | | T | T | | | M | | | | | | | |
| 101 | " | M | | | m | m | | | M | | | | | | | |
| 102 | " | | | | m | | | M | T | | | | | | | |
| 103 | " | | | | T | | | M | M | | T | | | | m | |
| 104 | " | M | | | m | m | | m | m | | | | | | | |
| 105 | Point of Rocks | | | | M | | | | M | m | M | | | | | |
| 106 | " | T | | | | M | | M | m | | M | | | | | |
| 112 | Sage Creek | | | | m | m | M | | M | | | | m | | | |
| 113 | Frying Pan Basin | | | | T | | M | | M | | | | | | | |
| 115 | " | | | | | | M | | M | | m | | | | | |
| 116 | " | | | | | M | | m | m | | M | | | | | |
| 117 | " | | | | | m | | m | M | | M | | | | | |
| 118 | " | | | | | | M | | M | | | | | | | |
| 119 | " | | | | | | M | | M | | | | | | | |
| 126 | Grasshopper Creek | M | | | m | m | | | | | | | | | | |
| 127 | " | M | m | | m | T | | | T | | | | M | | | |
| 128 | " | T | | | m | | | M | T | | m | | | | | |
| 129 | " | T | T | | | | | M | T | | T | | | | | |
| 130 | " | T | | | m | T | | M | T | | M | | | | | |
| 131 | " | M | m | | m | M | | m | T | | | | | | | |
| 132 | " | M | T/m | | m | m | | | T | | | | | | | |
| 133 | " | M | m | | | m | | | T | | | | | | | |
| 134 | " | M | T | | m | T | | | T | | T | | T | | | |
| 136 | " | M | m | | m | | | | T | | | | | | | |
| 137 | " | M | m | | m | | | T | | | T | | | | | |
| 138 | " | M | T | | m | | | m | T | | | | | | | |
| 140 | " | M | T | | m | T | | m | | | T | | | | | |
| 142 | Opportunity Pit | | | | | | | M | | | M | | | | | |
| 148 | Badger Pass | T | m | | M | | | | m | | | | | | | |
| 149 | " | T | m | | M | | | | | | | | | | | |
| 154 | " | T | m | | M | | | | T | | | | | | | |
| 158 | " | T | | | M | | | | T | | | | | | | |
| 163 | " | m | | | M | | | | | | | | | | | |
| 168 | " | m | m | | M | | | | T | | m | | | | | |
| 174 | " | m | T | | M | | | | m | | m | | | | | |
| 175 | " | | | | M | | | | M | | M | | | | | |
| 181 | " | | | | M | | | | M | | M | | | | | |
| 182 | " | | | | M | | | | M | | m | | | | | |
| 187 | " | | | | M | | | | M | m | m | | T | | | |
| 188 | " | | | | M | | | | M | | m | | | | | |
| 193 | " | | m | | M | | | | m | | T | | | | | |
| 194 | " | | m | | M | | | | m | | T | | | | | |
| 196 | " | | M | | M | | | | m | | T | | | | | |
| 200 | Lincoln Area | | | | M | M | | | | | | | | | | |
| 201 | " | | | | M | m | | | M | T | M | | | | | |
| 202 | " | | | | m | m | | | M | T | M | | | | | |
| 205 | Dry Hollow | | | | | | | M | | | | | M | | | |
| 206 | Beaver Creek | M | | | T | M | | | | | m | | | | | |
| 207 | " | M | T | | | m | | | M | | m | | | | | |
| 209 | " | M | | | M | m | | | M | | T | | | | | |
| 211 | " | M | | | T | M | | | T | | | | | | | |
| 213 | " | | | | m | M | | M | T | | | | | | | |
| 214 | " | | | | T | | | M | m | | | | | | | |
| 216 | " | T | | | T | M | | M | m | | m | | | | | |
| 218 | " | | | | m | M | | M | | | m | | | | | |
| 222 | Blacktail Deer Creek | M | | | T | m | | | | | m | | | | | |
| 223 | " | m | | | T | M | | M | T | T | m | | | | | |
| 240 | Muddy Creek | M | | | m | M | | | m | | | | | | | |
| 242 | " | M | | | | m | | | M | | m | | | | | m tridymite |
| 246 | " | M | | | m | M | | | M | m | T | | | | | |
| 247 | " | M | | | m | M | | | M | | | | | | | |
| 248 | " | M | | | m | m | | | m | | T | | | | | T alunite ? |
| 249 | " | M | | | m | m | | | M | | m | | | | | m tridymite |
| 250 | " | M | | | m | M | | | m | | | | | | | |
| 251 | " | M | | | m | M | | | m | | | | | | | |
| 252 | " | m | | | M | M | | | M | | | | | | | |
| 257 | " | M | m | | | | | | M | | m | | | | | |
| 263 | " | M | | | m | M | | | m | T | | | | | | |
| 274 | Dyce Creek | M | | | m | m | | | T | T | m | | | | | |
| 275 | " | T | | | m | M | | M | | | | | | | | |
| 276 | " | M | | | | M | | | T | | m | | | | | |
| 277 | " | M | | | m | m | | | m | | m | | | | | |
| 278 | " | M | | | M | m | | | M | m | m | | | | | m hornblende |
| 279 | " | m | | | m | | | m | m | m | | M | | | T | T hornblende |
| 280 | " | M | | | m | m | | | M | m | m | | | | | m hornblende |
| 286 | Lost Creek | m | | | m | M | | M | m | | m | | | | | |
| 287 | " | m | T | | m | M | | m | T | | T | | | | | |
| 288 | " | M | T | | m | m | | | M | | m | | | | | |
| 290 | " | m | | | m | M | | | M | | T | | | | | |
| 292 | " | m | T | | m | M | | M | m | | m | | | | | |
| 293 | " | | | | m | | | | M | | | | | | | |
| 294 | " | M | T | | m | m | | | m | | M | | | | | |
| 295 | " | M | | | | m | | | M | | T | | | | | |
| 299 | Deer Lodge Valley | m | | | m | M | | M | T | | | | M | | | |
| 300 | Bearmouth Pit | | | | | | | M | | T | M | | | | | |
| 305 | South of Anaconda | | | | m | | | M | m | | m | | | | | |
| 306 | " | | | | m | m | | M | m | | m | | | | | diatoms |
| 308 | Anaconda Area | | | | | | | M | | | M | | | | | |
| 312 | " | m | | | M | | | | m | m | M | | | | | |
| 313 | Southwest of Ramsay | M | | | m | M | | | T | T | | | | | | |
| 315 | " | M | | | m | m | | | T | | | | T | | | |
| 317 | Sweetwater Road | | | | M | | | | T | | | M | T | | | |
| 318 | " | | | | M | | | | m | | m | m | | | | |
| 319 | Dyce Creek | m | | | | M | | | | | M | | | | | |
| 320 | " | M | | | m | | | | m | | m | | T | | | |
| 323 | Medicine Lodge Creek | | | | M | | | | M | m | M | m | | | | |
| 324 | " | | | m analcime | M | | | | M | | M | | | | | |
| 327 | " | | | | M | | | | M | | | | | | | |
| 329 | " | M | | | M | M | | | M | | m | | | | | |
| 330 | " | | | | M | | | | M | | m | | | | | |
| 333 | Belmont Park Ranch | | | | m | | | | M | m | m | | M | | | |
| 335 | " | | | | m | | | M | | | M | | M | | | |
| 336 | " | | | | m | | | M | | | M | | M | | | |
| 337 | " | | | | m | | | | m | | M | | M | | | |
| 338 | " | | | | m | m | | M | m | | M | | | | | |
| 340 | Salt Creek Area | m | | | m | | | M | M | | m | | | | | |
| 341 | " | m | m | | | | | M | | m | | | | | | m tridymite |
| 342 | " | M | | | m | T | | | m | | | | | | | |
| 343 | " | M | | | M | T | | M | m | m | | | | | | |
| 344 | " | M | | | m | T | | M | m | | | | m | | | |
| 346 | Tabor Mountain Area | M | | | m | m | | | m | m | m | | | | | |
| 349 | " | M | | | M | | | | m | m | m | | | | | |
| 351 | " | M | | | m | T | | | | | M | | | | | |
| 353 | " | M | | | m | T | | | M | m | | | | | | |
| 354 | " | M | | | m | T | | | m | m | m | | | | | |
| 356 | " | | | | M | | | | M | m | | | | | | |
| 358 | " | M | | | T | m | | M | | m | T | | | | | |
| 380 | Salt Creek | M | | | M | M | | | | | M | | | | | |
| 381 | " | M | | | | M | | | | | T | | | | | |
| 382 | " | | | | m | | m | | m | | M | | | | | |
| 383 | " | | | | M | | | | m | | M | | | | | |
| 391 | Tabor Mountain Area | M | | | m | M | | | | | m | | | | | |
| 392 | " | M | | | T | | | | | | m | | | | | |
| 393 | " | M | | | M | T | | | | | m | | | | | |
| 416 | Muddy Creek | M | | | m | M | | | M | | T | | | | | |
| 417 | " | M | | | M | M | | | m | | | | | | | |
| 419 | " | M | | | m | M | | | M | | | | | | | |
| 421 | " | M | | | T | m | | | | | T | | | | | |
| 428 | " | M | | | m | M | | | M | | T | | | | | |
| 429 | " | M | | | m | M | | | T | | T | | | | | |
| 433 | " | M | | | m | M | | | m | | T | | | | | |
| 436 | Hepburn's Mesa | M | | | m | m | | | | | | | | | | |
| 437 | " | M | | | m | m | | | m | | | | | | | |
| 438 | Tabor Mountain Area | M | | | m | m | | | m | | | | | | | |
| 444 | Grasshopper Creek | M | | | m | | | | | T | T | | | | | |
| 445 | " | M | | | m | T | | | | | T | | | | | |
| 447 | " | M | | | m | M | | | | | | | | | | |

*Table 1. Mineralogy of selected samples as determined by x-ray diffraction analysis. M=major constituent, m=minor constituent, T=trace constituent, ?=identity uncertain.*