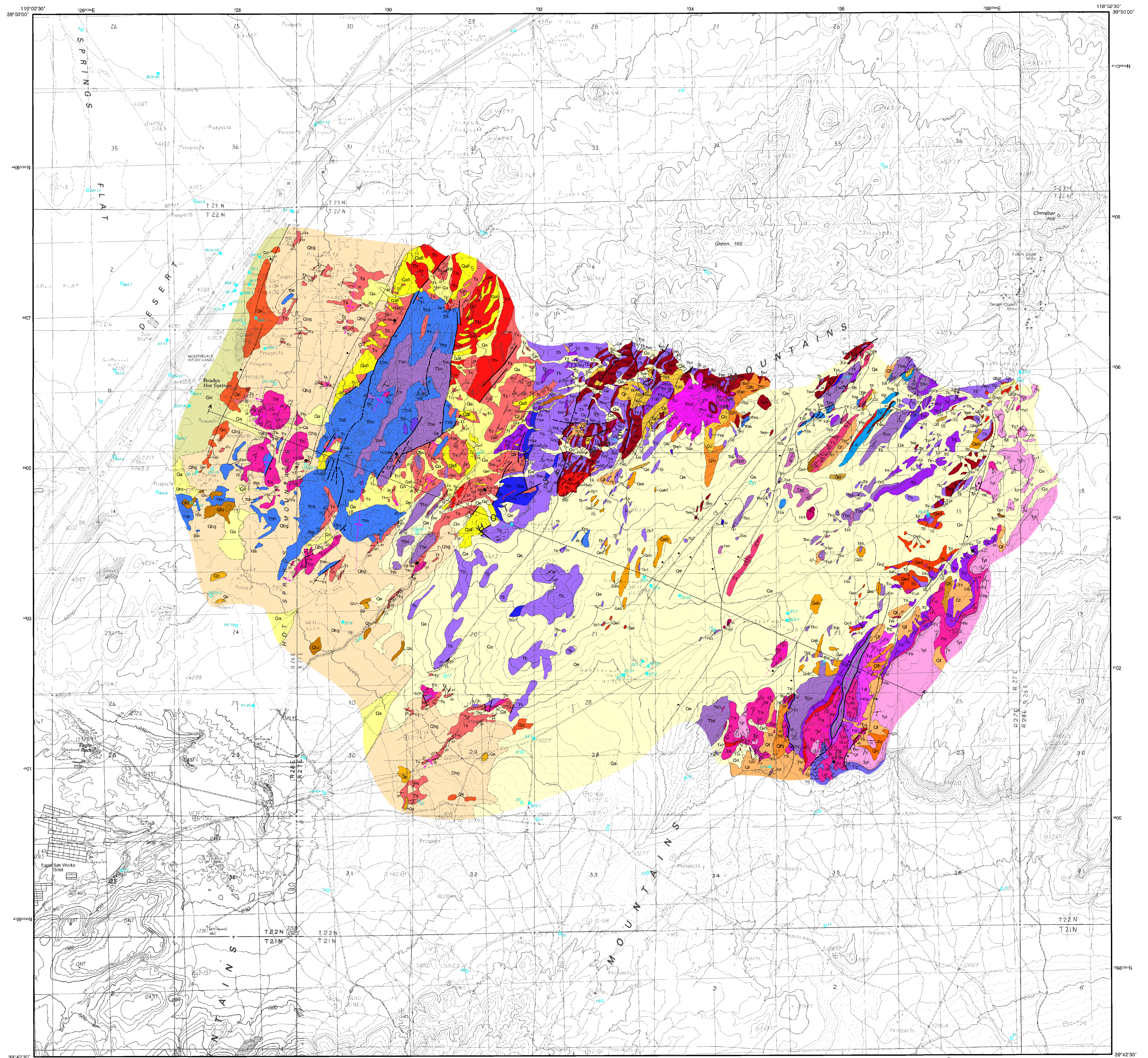
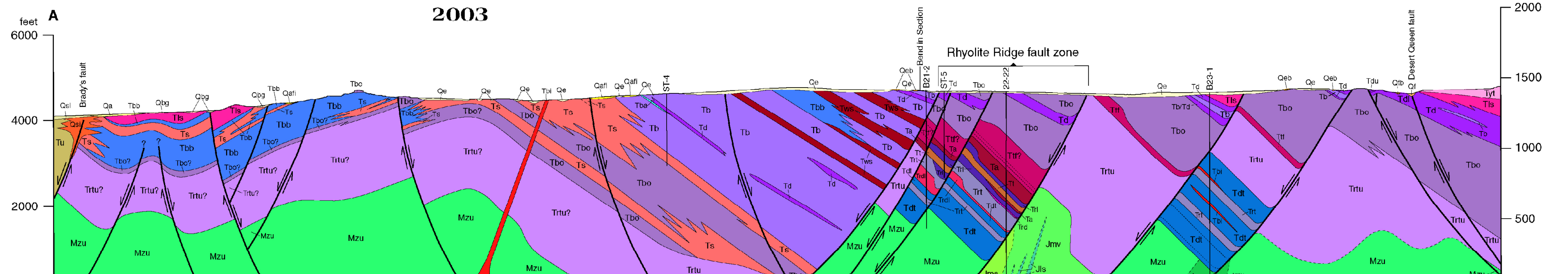
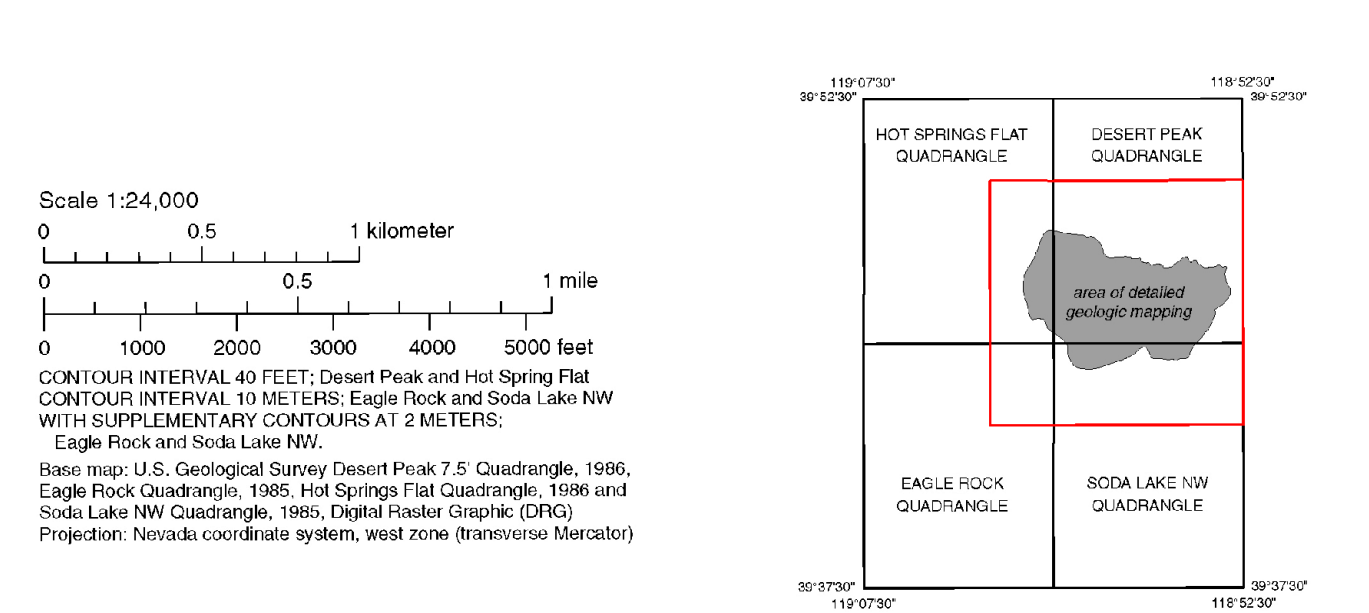
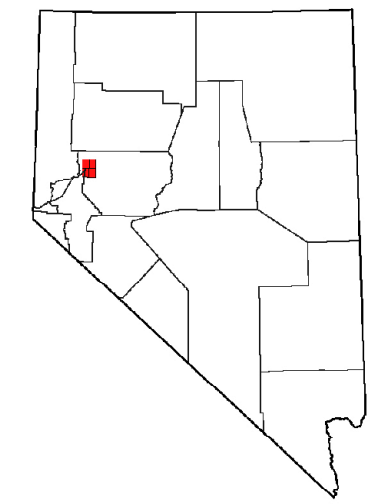


- Qa Quaternary alluvium
 - Qc Quaternary colluvium
 - Qd Sand dunes
 - Qdcp Surface with conspicuous desert pavement
- Alluvial fan surfaces**
- Qaif Qaif Intermediate-age alluvial fan deposits (Qaif)
 - Qaif Un differentiated (Qaif)
 - Qaib Qaib mainly basaltic clasts
 - Qaif Qaif mainly limestone clasts
 - Qaif Qaif mainly rhyolite clasts
- Qe Eolian sands
 - Qec Eolian sands with diatomite or siltstone clasts (Qec), basalt clasts (Qeb), tuff clasts (Qat), or limestone/tuffa (Qel)
 - Qca Sinter
 - Qp Pans
 - Qbg Qbg Beach gravels (Qbg), pebble conglomerate composed of Tuff clasts (Qbtg)
 - Qtu Tufa
 - Qca Concrete
 - Qal Lacustrine? sand and silt
- Tyt Aphyric, feldspar-rich ash-flow tuff, sparse plagioclase, biotite, and lesser sanidine phenocrysts
 - Tbpb Porphyritic basalt boulders
 - Tbp Porphyritic basalt; abundant plagioclase phenocrysts
 - Tby Younger limestone
 - Tcv Calcite vein
 - Tb Younger aphanitic basalt lavas
 - Tst Tuffaceous siltstone
 - Tsw White siltstone with lesser diatomite
 - Tgs Gray shale
 - Td Diatomite, locally divided into upper and lower members
 - Tdu Upper member
 - Tdl Lower member
 - Tva Volcaniclastic sandstone
 - Ts Lacustrine sedimentary rocks
 - Tsb Interbedded diatomite, siltstone, and limestone
 - Tsc Conglomerate, mainly basalt clasts
 - Tsd Slightly siltified siltstone and diatomite
 - Tic Carbonate clastics
 - Til Older limestone
 - Tba Basaltic sandstone and lavas
 - Tbo Older aphanitic basalt lavas, undifferentiated
 - Tbl Altered basalt lavas
 - Tbf Basaltic flow breccia
 - Tbp Porphyritic basalt intrusions
 - Tba Aphanitic basalt intrusions
 - Tu Tertiary undifferentiated
 - Tr Rhyolite lavas
 - Tbt Bedded tuff
 - Tsd Sandstone
 - Tra Rock avalanche breccia
 - Tfp Finely porphyritic plagioclase-rich ash-flow tuff
 - Tlt Lithic-rich aphyric ash-flow tuff
 - Tll Lower part of lithic-rich ash-flow tuff
 - Tda Dacite and andesite lavas
- Lithologic Units Observed in Wells:**
- Ma Andesite lavas
 - Mh Rhyolite lavas
 - Mru Rhyolite undifferentiated
 - Mtu Tuffaceous rocks
 - Mtr Rhyolite tuff undifferentiated (at least 2 intervals)
 - Mtd Dacitic tuff (2-3 intervals)
 - Mru Rhyolite-dacite tuffs and lavas undifferentiated
 - Mzu Mesozoic basement undifferentiated
 - Jmv Jurassic? meta-volcanic rock
 - Jms Jurassic? metasedimentary rock
 - Jls Jurassic limestone
 - Jmu Jurassic metamorphic rock undifferentiated



PRELIMINARY GEOLOGIC MAP OF THE DESERT PEAK - BRADY GEOTHERMAL FIELDS, CHURCHILL COUNTY, NEVADA
 James E. Faulds and Larry J. Garside



Field work done in 2003.
 Geologic map was supported by the U.S. Department of Energy and the Great Basin Center for Geothermal Energy (Agreement No. DE-F0794201411).
DRAFT
 Preliminary geologic map.
 Has not undergone office or field review.
 May be reviewed before publication.
 First Edition, first printing, 2003: 1:24,000 scale.
 Printed by Nevada Bureau of Mines and Geology
 Cartography by Nicole Clark
 Nevada Bureau of Mines and Geology
 University of Nevada, Mail Stop 178
 Reno, Nevada 89569-0178
 (775) 784-0991, ext. 2
 www.nmng.unr.edu; nmngsales@unr.edu
 This map was prepared as an electronic raster display file. Unchecked calibration may vary between electronic display and 3 and 4 digit or the same (300 and 400) not through the file. Unchecked calibration may vary between 300 and 400 and 400 and 500 and 500 and 600 and 600 and 700 and 700 and 800 and 800 and 900 and 900 and 1000 and 1000 and 1100 and 1100 and 1200 and 1200 and 1300 and 1300 and 1400 and 1400 and 1500 and 1500 and 1600 and 1600 and 1700 and 1700 and 1800 and 1800 and 1900 and 1900 and 2000 and 2000 and 2100 and 2100 and 2200 and 2200 and 2300 and 2300 and 2400 and 2400 and 2500 and 2500 and 2600 and 2600 and 2700 and 2700 and 2800 and 2800 and 2900 and 2900 and 3000 and 3000 and 3100 and 3100 and 3200 and 3200 and 3300 and 3300 and 3400 and 3400 and 3500 and 3500 and 3600 and 3600 and 3700 and 3700 and 3800 and 3800 and 3900 and 3900 and 4000 and 4000 and 4100 and 4100 and 4200 and 4200 and 4300 and 4300 and 4400 and 4400 and 4500 and 4500 and 4600 and 4600 and 4700 and 4700 and 4800 and 4800 and 4900 and 4900 and 5000 and 5000 and 5100 and 5100 and 5200 and 5200 and 5300 and 5300 and 5400 and 5400 and 5500 and 5500 and 5600 and 5600 and 5700 and 5700 and 5800 and 5800 and 5900 and 5900 and 6000 and 6000 and 6100 and 6100 and 6200 and 6200 and 6300 and 6300 and 6400 and 6400 and 6500 and 6500 and 6600 and 6600 and 6700 and 6700 and 6800 and 6800 and 6900 and 6900 and 7000 and 7000 and 7100 and 7100 and 7200 and 7200 and 7300 and 7300 and 7400 and 7400 and 7500 and 7500 and 7600 and 7600 and 7700 and 7700 and 7800 and 7800 and 7900 and 7900 and 8000 and 8000 and 8100 and 8100 and 8200 and 8200 and 8300 and 8300 and 8400 and 8400 and 8500 and 8500 and 8600 and 8600 and 8700 and 8700 and 8800 and 8800 and 8900 and 8900 and 9000 and 9000 and 9100 and 9100 and 9200 and 9200 and 9300 and 9300 and 9400 and 9400 and 9500 and 9500 and 9600 and 9600 and 9700 and 9700 and 9800 and 9800 and 9900 and 9900 and 10000 and 10000 and 10100 and 10100 and 10200 and 10200 and 10300 and 10300 and 10400 and 10400 and 10500 and 10500 and 10600 and 10600 and 10700 and 10700 and 10800 and 10800 and 10900 and 10900 and 11000 and 11000 and 11100 and 11100 and 11200 and 11200 and 11300 and 11300 and 11400 and 11400 and 11500 and 11500 and 11600 and 11600 and 11700 and 11700 and 11800 and 11800 and 11900 and 11900 and 12000 and 12000 and 12100 and 12100 and 12200 and 12200 and 12300 and 12300 and 12400 and 12400 and 12500 and 12500 and 12600 and 12600 and 12700 and 12700 and 12800 and 12800 and 12900 and 12900 and 13000 and 13000 and 13100 and 13100 and 13200 and 13200 and 13300 and 13300 and 13400 and 13400 and 13500 and 13500 and 13600 and 13600 and 13700 and 13700 and 13800 and 13800 and 13900 and 13900 and 14000 and 14000 and 14100 and 14100 and 14200 and 14200 and 14300 and 14300 and 14400 and 14400 and 14500 and 14500 and 14600 and 14600 and 14700 and 14700 and 14800 and 14800 and 14900 and 14900 and 15000 and 15000 and 15100 and 15100 and 15200 and 15200 and 15300 and 15300 and 15400 and 15400 and 15500 and 15500 and 15600 and 15600 and 15700 and 15700 and 15800 and 15800 and 15900 and 15900 and 16000 and 16000 and 16100 and 16100 and 16200 and 16200 and 16300 and 16300 and 16400 and 16400 and 16500 and 16500 and 16600 and 16600 and 16700 and 16700 and 16800 and 16800 and 16900 and 16900 and 17000 and 17000 and 17100 and 17100 and 17200 and 17200 and 17300 and 17300 and 17400 and 17400 and 17500 and 17500 and 17600 and 17600 and 17700 and 17700 and 17800 and 17800 and 17900 and 17900 and 18000 and 18000 and 18100 and 18100 and 18200 and 18200 and 18300 and 18300 and 18400 and 18400 and 18500 and 18500 and 18600 and 18600 and 18700 and 18700 and 18800 and 18800 and 18900 and 18900 and 19000 and 19000 and 19100 and 19100 and 19200 and 19200 and 19300 and 19300 and 19400 and 19400 and 19500 and 19500 and 19600 and 19600 and 19700 and 19700 and 19800 and 19800 and 19900 and 19900 and 20000 and 20000 and 20100 and 20100 and 20200 and 20200 and 20300 and 20300 and 20400 and 20400 and 20500 and 20500 and 20600 and 20600 and 20700 and 20700 and 20800 and 20800 and 20900 and 20900 and 21000 and 21000 and 21100 and 21100 and 21200 and 21200 and 21300 and 21300 and 21400 and 21400 and 21500 and 21500 and 21600 and 21600 and 21700 and 21700 and 21800 and 21800 and 21900 and 21900 and 22000 and 22000 and 22100 and 22100 and 22200 and 22200 and 22300 and 22300 and 22400 and 22400 and 22500 and 22500 and 22600 and 22600 and 22700 and 22700 and 22800 and 22800 and 22900 and 22900 and 23000 and 23000 and 23100 and 23100 and 23200 and 23200 and 23300 and 23300 and 23400 and 23400 and 23500 and 23500 and 23600 and 23600 and 23700 and 23700 and 23800 and 23800 and 23900 and 23900 and 24000 and 24000 and 24100 and 24100 and 24200 and 24200 and 24300 and 24300 and 24400 and 24400 and 24500 and 24500 and 24600 and 24600 and 24700 and 24700 and 24800 and 24800 and 24900 and 24900 and 25000 and 25000 and 25100 and 25100 and 25200 and 25200 and 25300 and 25300 and 25400 and 25400 and 25500 and 25500 and 25600 and 25600 and 25700 and 25700 and 25800 and 25800 and 25900 and 25900 and 26000 and 26000 and 26100 and 26100 and 26200 and 26200 and 26300 and 26300 and 26400 and 26400 and 26500 and 26500 and 26600 and 26600 and 26700 and 26700 and 26800 and 26800 and 26900 and 26900 and 27000 and 27000 and 27100 and 27100 and 27200 and 27200 and 27300 and 27300 and 27400 and 27400 and 27500 and 27500 and 27600 and 27600 and 27700 and 27700 and 27800 and 27800 and 27900 and 27900 and 28000 and 28000 and 28100 and 28100 and 28200 and 28200 and 28300 and 28300 and 28400 and 28400 and 28500 and 28500 and 28600 and 28600 and 28700 and 28700 and 28800 and 28800 and 28900 and 28900 and 29000 and 29000 and 29100 and 29100 and 29200 and 29200 and 29300 and 29300 and 29400 and 29400 and 29500 and 29500 and 29600 and 29600 and 29700 and 29700 and 29800 and 29800 and 29900 and 29900 and 30000 and 30000 and 30100 and 30100 and 30200 and 30200 and 30300 and 30300 and 30400 and 30400 and 30500 and 30500 and 30600 and 30600 and 30700 and 30700 and 30800 and 30800 and 30900 and 30900 and 31000 and 31000 and 31100 and 31100 and 31200 and 31200 and 31300 and 31300 and 31400 and 31400 and 31500 and 31500 and 31600 and 31600 and 31700 and 31700 and 31800 and 31800 and 31900 and 31900 and 32000 and 32000 and 32100 and 32100 and 32200 and 32200 and 32300 and 32300 and 32400 and 32400 and 32500 and 32500 and 32600 and 32600 and 32700 and 32700 and 32800 and 32800 and 32900 and 32900 and 33000 and 33000 and 33100 and 33100 and 33200 and 33200 and 33300 and 33300 and 33400 and 33400 and 33500 and 33500 and 33600 and 33600 and 33700 and 33700 and 33800 and 33800 and 33900 and 33900 and 34000 and 34000 and 34100 and 34100 and 34200 and 34200 and 34300 and 34300 and 34400 and 34400 and 34500 and 34500 and 34600 and 34600 and 34700 and 34700 and 34800 and 34800 and 34900 and 34900 and 35000 and 35000 and 35100 and 35100 and 35200 and 35200 and 35300 and 35300 and 35400 and 35400 and 35500 and 35500 and 35600 and 35600 and 35700 and 35700 and 35800 and 35800 and 35900 and 35900 and 36000 and 36000 and 36100 and 36100 and 36200 and 36200 and 36300 and 36300 and 36400 and 36400 and 36500 and 36500 and 36600 and 36600 and 36700 and 36700 and 36800 and 36800 and 36900 and 36900 and 37000 and 37000 and 37100 and 37100 and 37200 and 37200 and 37300 and 37300 and 37400 and 37400 and 37500 and 37500 and 37600 and 37600 and 37700 and 37700 and 37800 and 37800 and 37900 and 37900 and 38000 and 38000 and 38100 and 38100 and 38200 and 38200 and 38300 and 38300 and 38400 and 38400 and 38500 and 38500 and 38600 and 38600 and 38700 and 38700 and 38800 and 38800 and 38900 and 38900 and 39000 and 39000 and 39100 and 39100 and 39200 and 39200 and 39300 and 39300 and 39400 and 39400 and 39500 and 39500 and 39600 and 39600 and 39700 and 39700 and 39800 and 39800 and 39900 and 39900 and 40000 and 40000 and 40100 and 40100 and 40200 and 40200 and 40300 and 40300 and 40400 and 40400 and 40500 and 40500 and 40600 and 40600 and 40700 and 40700 and 40800 and 40800 and 40900 and 40900 and 41000 and 41000 and 41100 and 41100 and 41200 and 41200 and 41300 and 41300 and 41400 and 41400 and 41500 and 41500 and 41600 and 41600 and 41700 and 41700 and 41800 and 41800 and 41900 and 41900 and 42000 and 42000 and 42100 and 42100 and 42200 and 42200 and 42300 and 42300 and 42400 and 42400 and 42500 and 42500 and 42600 and 42600 and 42700 and 42700 and 42800 and 42800 and 42900 and 42900 and 43000 and 43000 and 43100 and 43100 and 43200 and 43200 and 43300 and 43300 and 43400 and 43400 and 43500 and 43500 and 43600 and 43600 and 43700 and 43700 and 43800 and 43800 and 43900 and 43900 and 44000 and 44000 and 44100 and 44100 and 44200 and 44200 and 44300 and 44300 and 44400 and 44400 and 44500 and 44500 and 44600 and 44600 and 44700 and 44700 and 44800 and 44800 and 44900 and 44900 and 45000 and 45000 and 45100 and 45100 and 45200 and 45200 and 45300 and 45300 and 45400 and 45400 and 45500 and 45500 and 45600 and 45600 and 45700 and 45700 and 45800 and 45800 and 45900 and 45900 and 46000 and 46000 and 46100 and 46100 and 46200 and 46200 and 46300 and 46300 and 46400 and 46400 and 46500 and 46500 and 46600 and 46600 and 46700 and 46700 and 46800 and 46800 and 46900 and 46900 and 47000 and 47000 and 47100 and 47100 and 47200 and 47200 and 47300 and 47300 and 47400 and 47400 and 47500 and 47500 and 47600 and 47600 and 47700 and 47700 and 47800 and 47800 and 47900 and 47900 and 48000 and 48000 and 48100 and 48100 and 48200 and 48200 and 48300 and 48300 and 48400 and 48400 and 48500 and 48500 and 48600 and 48600 and 48700 and 48700 and 48800 and 48800 and 48900 and 48900 and 49000 and 49000 and 49100 and 49100 and 49200 and 49200 and 49300 and 49300 and 49400 and 49400 and 49500 and 49500 and 49600 and 49600 and 49700 and 49700 and 49800 and 49800 and 49900 and 49900 and 50000 and 50000 and 50100 and 50100 and 50200 and 50200 and 50300 and 50300 and 50400 and 50400 and 50500 and 50500 and 50600 and 50600 and 50700 and 50700 and 50800 and 50800 and 50900 and 50900 and 51000 and 51000 and 51100 and 51100 and 51200 and 51200 and 51300 and 51300 and 51400 and 51400 and 51500 and 51500 and 51600 and 51600 and 51700 and 51700 and 51800 and 51800 and 51900 and 51900 and 52000 and 52000 and 52100 and 52100 and 52200 and 52200 and 52300 and 52300 and 52400 and 52400 and 52500 and 52500 and 52600 and 52600 and 52700 and 52700 and 52800 and 52800 and 52900 and 52900 and 53000 and 53000 and 53100 and 53100 and 53200 and 53200 and 53300 and 53300 and 53400 and 53400 and 53500 and 53500 and 53600 and 53600 and 53700 and 53700 and 53800 and 53800 and 53900 and 53900 and 54000 and 54000 and 54100 and 54100 and 54200 and 54200 and 54300 and 54300 and 54400 and 54400 and 54500 and 54500 and 54600 and 54600 and 54700 and 54700 and 54800 and 54800 and 54900 and 54900 and 55000 and 55000 and 55100 and 55100 and 55200 and 55200 and 55300 and 55300 and 55400 and 55400 and 55500 and 55500 and 55600 and 55600 and 55700 and 55700 and 55800 and 55800 and 55900 and 55900 and 56000 and 56000 and 56100 and 56100 and 56200 and 56200 and 56300 and 56300 and 56400 and 56400 and 56500 and 56500 and 56600 and 56600 and 56700 and 56700 and 56800 and 56800 and 56900 and 56900 and 57000 and 57000 and 57100 and 57100 and 57200 and 57200 and 57300 and 57300 and 57400 and 57400 and 57500 and 57500 and 57600 and 57600 and 57700 and 57700 and 57800 and 57800 and 57900 and 57900 and 58000 and 58000 and 58100 and 58100 and 58200 and 58200 and 58300 and 58300 and 58400 and 58400 and 58500 and 58500 and 58600 and 58600 and 58700 and 58700 and 58800 and 58800 and 58900 and 58900 and 59000 and 59000 and 59100 and 59100 and 59200 and 59200 and 59300 and 59300 and 59400 and 59400 and 59500 and 59500 and 59600 and 59600 and 59700 and 59700 and 59800 and 59800 and 59900 and 59900 and 60000 and 60000 and 60100 and 60100 and 60200 and 60200 and 60300 and 60300 and 60400 and 60400 and 60500 and 60500 and 60600 and 60600 and 60700 and 60700 and 60800 and 60800 and 60900 and 60900 and 61000 and 61000 and 61100 and 61100 and 61200 and 61200 and 61300 and 61300 and 61400 and 61400 and 61500 and 61500 and 61600 and 61600 and 61700 and 61700 and 61800 and 61800 and 61900 and 61900 and 62000 and 62000 and 62100 and 62100 and 62200 and 62200 and 62300 and 62300 and 62400 and 62400 and 62500 and 62500 and 62600 and 62600 and 62700 and 62700 and 62800 and 62800 and 62900 and 62900 and 63000 and 63000 and 63100 and 63100 and 63200 and 63200 and 63300 and 63300 and 63400 and 63400 and 63500 and 63500 and 63600 and 63600 and 63700 and 63700 and 63800 and 63800 and 63900 and 63900 and 64000 and 64000 and 64100 and 64100 and 64200 and 64200 and 64300 and 64300 and 64400 and 64400 and 64500 and 64500 and 64600 and 64600 and 64700 and 64700 and 64800 and 64800 and 64900 and 64900 and 65000 and 65000 and 65100 and 65100 and 65200 and 65200 and 65300 and 65300 and 65400 and 65400 and 65500 and 65500 and 65600 and 65600 and 65700 and 65700 and 65800 and 65800 and 65900 and 65900 and 66000 and 66000 and 66100 and 66100 and 66200 and 66200 and 66300 and 66300 and 66400 and 66400 and 66500 and 66500 and 66600 and 66600 and 66700 and 66700 and 66800 and 66800 and 66900 and 66900 and 67000 and 67000 and 67100 and 67100 and 67200 and 67200 and 67300 and 67300 and 67400 and 67400 and 67500 and 67500 and 67600 and 67600 and 67700 and 67700 and 67800 and 67800 and 67900 and 67900 and 68000 and 68000 and 68100 and 68100 and 68200 and 68200 and 68300 and 68300 and 68400 and 68400 and 68500 and 68500 and 68600 and 68600 and 68700 and 68700 and 68800 and 68800 and 68900 and 68900 and 69000 and 69000 and 69100 and 69100 and 69200 and 69200 and 69300 and 69300 and 69400 and 69400 and 69500 and 69500 and 69600 and 69600 and 69700 and 69700 and 69800 and 69800 and 69900 and 69900 and 70000 and 70000 and 70100 and 70100 and 70200 and 70200 and 70300 and 70300 and 70400 and 70400 and 70500 and 70500 and 70600 and 70600 and 70700 and 70700 and 70800 and 70800 and 70900 and 70900 and 71000 and 71000 and 71100 and 71100 and 71200 and 71200 and 71300 and 71300 and 71400 and 71400 and 71500 and 71500 and 71600 and 71600 and 71700 and 71700 and 71800 and 71800 and 71900 and 71900 and 72000 and 72000 and 72100 and 72100 and 72200 and 72200 and 72300 and 72300 and 72400 and 72400 and 72500 and 72500 and 72600 and 72600 and 72700 and 72700 and 72800 and 72800 and 72900 and 72900 and 73000 and 73000 and 73100 and 73100 and 73200 and 73200 and 73300 and 73300 and 73400 and 73400 and 73500 and 73500 and 73600 and 73600 and 73700 and 73700 and 73800 and 73800 and 73900 and 73900 and 74000 and 74000 and 74100 and 74100 and 74200 and 74200 and 74300 and 74300 and 74400 and 74400 and 74500 and 74500 and 74600 and 74600 and 74700 and 74700 and 74800 and 74800 and 74900 and 74900 and 75000 and 75000 and 75100 and 75100 and 75200 and 75200 and 75300 and 75300 and 75400 and 754