A Dataset of Magnetic Susceptibility, Metalization, and Alteration for Samples from the Stinkingwater Mining District, Absaroka Mountains, Wyoming

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Open-File Report 2004-1253

2004

U.S. GEOLOGICAL SURVEY
U.S. DEPARTMENT OF THE INTERIOR

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Abstract

Magnetic susceptibility was measured for 700 samples of drill core from thirteen drill holes in the porphyry copper-molybdenum deposit of the Stinkingwater mining district in the Absaroka Mountains, Wyoming. Measurements were performed on splits from 3 m (10 ft) sections of pulverized core. The measurements constitute a useful dataset because the same samples were studied to identify their alteration state and have been subjected to chemical analysis. Tables of the data are included in this report.

Magnetic susceptibility measurements dataset

For this study, 700 samples from thirteen boreholes (locations shown on fig. 1) in the Stinkingwater district of the Needle Creek igneous center in the Absaroka Range of northwestern Wyoming (Fisher, 1983) were measured for magnetic susceptibility. These samples were splits from 3m (10 ft) sections of pulverized drill core that were also subjected to chemical analyses (Fisher, 1971); thus, the susceptibility measurements represent a mean value for each 3 m (10 ft) interval. Studies of alteration and mineralization were also carried out (Fisher, 1983; Phelps-Dodge Corporation, written communication, 1968) so that a dataset of chemical composition, alteration class and magnetic susceptibility was obtained. The measurements were made in the laboratory using a computer controlled inductive bridge instrument with a shielded coaxial sensing coil. Samples were measured in their cardboard cylindrical storage containers (about 3 cm in diameter and 5 cm in length) inserted into the measurement coil. The instrument produces a mean magnetic susceptibility and a standard deviation of magnetic susceptibility for each sample and has a measurement precision 2×10^{-7} cgs/cm^3 magnetic susceptibility. For each sample, a reading with an empty container, a reading with the sample, and a reading with an empty container were obtained, thus determining a linear drift correction with time. A single arbitrary sample was chosen as a reference and repeatedly measured throughout the duration of susceptibility measurements. This sample was measured 165 times yielding a mean magnetic susceptibility of 2.607×10^{-6} cgs/g and a standard deviation of 2.668×10^{-7} cgs/g. Susceptibility values are given per unit mass rather than per unit volume in this paper because the samples were finely ground powders.

The Stinkingwater district is a hydrothermally altered and mineralized area in the Needle Creek igneous center (fig. 1). The rocks, alteration, and mineralization events are Eocene (approximately 40 Ma) and Upper Miocene in age (Fisher, 1983). The two intrusive units, the Needle Creek granodiorite and the Crater Mountain dacite (fig. 1) are both altered and mineralized, but the Crater Mountain dacite is most extensively mineralized in a zone where it is highly shattered (Fisher, 1972, 1983), presumably by a subsurface intrusive that was the source of the porphyry rocks. Geomorphically, the Crater Mountain dacite behaves as a fractured and incompetent unit, and displays many landslides and gravity slumps (Fisher, 1972). The dacite composition and permeability from fracturing make it a good host for hydrothermal alteration and mineralization.

The alteration pattern is a typical concentric zoned pattern ranging from propylitic in the outermost zone to phyllic alteration with patchy potassic alteration in the center (fig. 1). The drillholes were mostly located in the more highly altered phyllic and potassic zones (fig. 1), but several holes penetrated more than one zone vertically. Drillhole S8 penetrated 30.5 m (100 ft) in Crater Mountain dacite that was essentially unaltered. Although some alteration minerals are present (Fisher, 1972), they are volumetrically small and the rock penetrated by the drillhole is unmineralized (Phelps-Dodge Corporation, written communication, 1968). The hole thus represents a sample of unaltered rock and the pre-mineralization magnetic susceptibility. A total of 15 samples from this hole were measured and the results show a quite homogeneous magnetic

susceptibility. The measured maximum, minimum, mean, and standard deviation magnetic susceptibility were 4.78×10^{-4}, 3.18×10^{-4}, 4.03×10^{-4}, and 4.73×10^{-5} cgs units per unit mass. Thus, a value of 4.0×10^{-4} cgs/g magnetic susceptibility was taken as representative for unaltered and unmineralized Crater Mountain dacite.

Table 1 presents the results of the measurements and the compiled alteration and chemical analysis data. Table 2 presents the same data in an all-numeric format convenient for analysis software that does not accept alphanumeric data for values at or beyond detection limits.

The data in tables 1 and 2 have the following format. The data fields are in the following order: UTM easting (m); UTM northing (m); altitude (ft); magnetic susceptibility (cgs/unit mass); standard deviation of magnetic susceptibility (cgs/unit mass); lithology code; texture code; oxidized/enriched code; alteration class code; hole group code; hole number; sample number; mercury content (Hg, ppm); copper content (Cu, ppm); molybdenum content (Mo, ppm); total iron content (Fe, %); titanium content (Ti, %); silver content (Ag, ppm); and gold content (Au, ppm). UTM coordinates are for zone 12N.

The codes are as follows. Lithology codes are: 1-Crater Mountain dacite; 2-dike; 3-Needle Mountain granodiorite; 4-Needle Mountain granodiorite (?); and 9-undetermined.

Texture codes are: 1-fine grained; 2-porphyry; 3-phaneritcic(crystalline); and 9- undetermined. The oxidized/enriched codes are: 1-oxidized; 2-protoore; 3-enriched; and 9-unknown. The codes for alteration class are; 1-propylitic; 2- phyllic; 3- potassic; and 9-undetermined. The hole group codes are: N-Needle Creek; and S-Stinkingwater.

Table 1 contains original analytic data for Hg, Cu, Mo, Fe, Ti, Ag, and Au using codes N or N( ) - not detected or not detected at limits shown; L or L( ) - detected but below limit of determination or limit shown. Table 2 is identical to Table 1 except that the "not detected" and "less than" (N and L) codes have been replaced with arbitrary numbers to allow plotting. For gold, not detected (N or N(.05)) was assigned 0.01; less than (L or L(.05)) was assigned 0.015. For silver, not detected (N or N(.05)) was assigned 0.01; less than (L or L(.5)) was assigned 0.45.

The data in tables 1 and 2 are also available as separate text files "stwr_drillholes_data_final" and "alldata.numeric.final".

References cited

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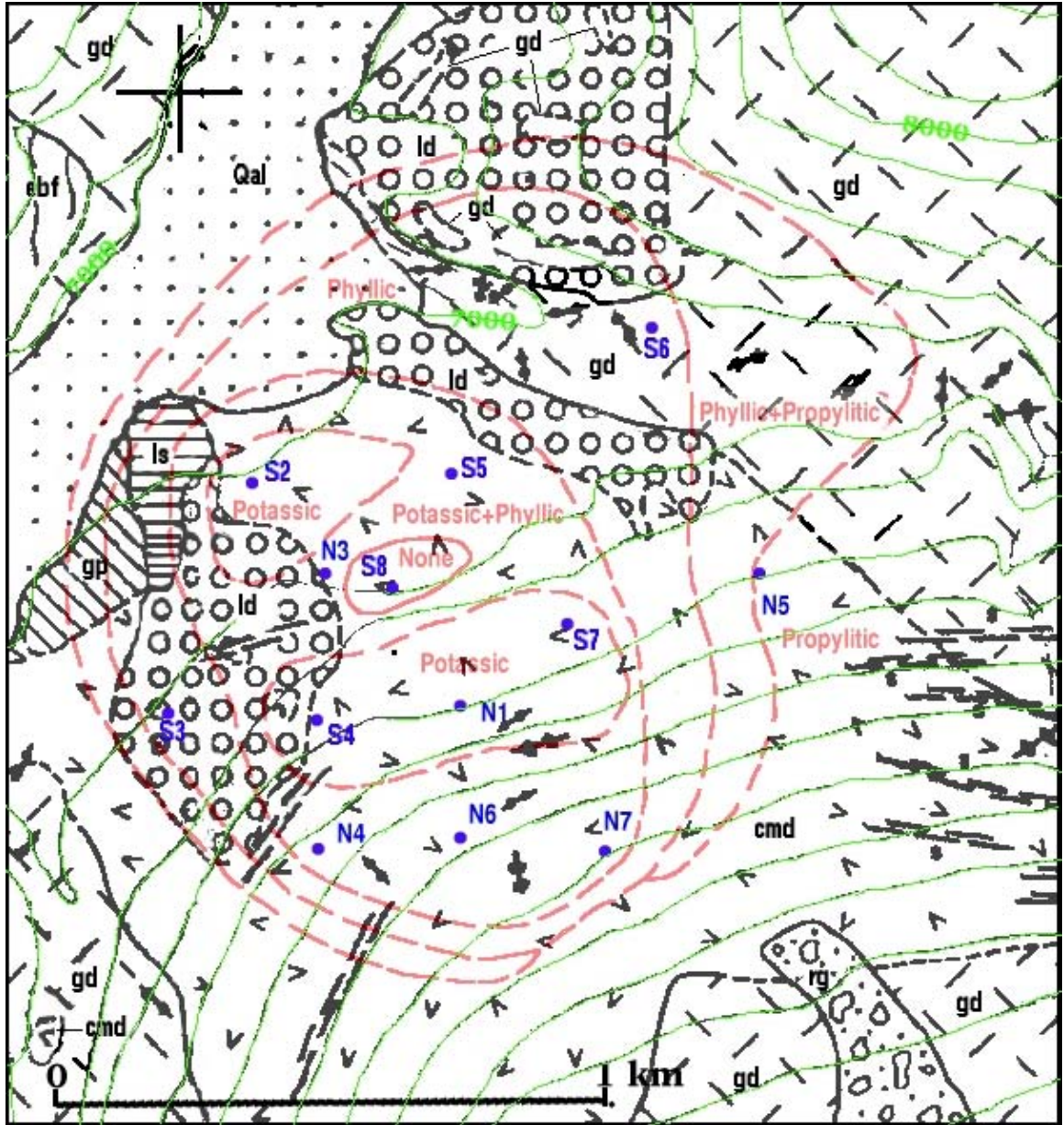
Figure 1. Geologic map of the Stinkingwater Mining region, Absaroka Mountains, Wyoming (Fisher, 1972). Rock unit abbreviations: ebf, basalt flows of the Eocene Trout Peak formation; gd, Miocene Needle Mountain granodiorite; cmd, Miocene Crater Mountain dacite; ld, Holocene landslide deposits; ls, Holocene limonitic soil; gp, Holocene gypsite; rg, Holocene rock glacier; and Qal, Holocene alluvium. Lines with two balls on them are dikes, stringers, or veins; double dashed lines are fracture systems and faults. North is to the top of the figure and the tick mark in the upper left is 44° 2' 23.8" N latitude and 109° 38' 38.3" W longitude. The points labeled, for example, "S2" or "N1" are the locations of exploration drillholes whose core was measured for magnetic susceptibility for this study. The red lines show the approximate boundaries of the zones of hydrothermal rock alteration. Green lines show approximate topographic contour locations of altitude in ft at a 200 ft interval.

Table 1. Measured magnetic susceptibility, alteration class, and selected chemical analysis for the 700 samples from drillholes from the Stinkingwater Mining district, Absaroka Mountains, Wyoming. Values are UTM e, UTM n, altitude(ft),magnetic susceptibility (cgs/g), standard deviation of magnetic susceptibility (cgs/g), lithology code, texture code, oxidized/enriched code, alteration class code, borehole group code, hole number, sampl number, Hg(ppm), Cu(ppm),Mo(ppm), total Fe(%), Ti(%), Ag(ppm), Au(ppm). N or N() means not detected or not detected at the level in parentheses; L or L() means less than or less than the level in parentheses. See text for explanation of codes; UTM coordinates are zone 12N.

These data are available in ASCII form at http://pubs.usgs.gov/of/2004/1253/table1.txt

The files http://pubs.usgs.gov/of/2004/1253/datafile_format.txt and http://pubs.usgs.gov/of/2004/1253/heading.txt are ASCII files describing the data format and headings.

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609131.6 4875713.2 7422 1.815761E-06 4.00672E-07 1 3 2 2 N 6 254 0.04 770 150 3 .15 N N(.05)
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609131.6 4875713.2 7232 2.079562E-04 5.847638E-07 2 9 9 9  N 6 273 0.06 15 0 2 .2 N N(.05)
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609431.2 4875684.9 7876 2.077055E-05 9.290848E-08 1 3 2 3   N 7 171 0.06 580 20 5 .5 .5 N(.05)
609431.2 4875684.9 7866 2.061378E-05 1.11479E-07 1 3 2 3   N 7 172 0.10 1600 300 5 .3 1 N(.05)
609431.2 4875684.9 7856 1.374431E-05 9.907102E-08 1 3 2 3   N 7 173 0.06 1200 30 5 .5 .5 L(.05)
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608762.0 4876309.2  6907.75 2.521927E-06 1.000989E-07 1 9 1 2   S 2 8 0.12 2000 200 1 .2 1 .06
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608643.3 4875922.9 7220.5 4.174033E-06 2.095078E-06 1 9 1 1   S 3 74 0.03 70 0 3 .2 .5 L(.02)
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608643.3 4875922.9 7120 3.272247E-06 5.316918E-08 2 9 2 2   S 3 85 0.06 700 10 1 .3 1.5 .04
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608643.3 4875922.9 7052 1.676127E-05 2.032617E-07 1 9 2 2   S 3 93 0.22 1500 7 7 .5 .5 L(.02)
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608643.3 4875922.9 7036.5 4.572165E-06 5.017854E-08 1 9 2 2   S 3 95 0.04 700 15 3 .2 L .02
608643.3 4875922.9 7028.25 3.230725E-06 1.718536E-08 1 9 2 2   S 3 96 0.05 300 5 3 .15 L L(.02)
608643.3 4875922.9 7020 3.262029E-06 8.612198E-10 1 9 2 2   S 3 97 0.10 1000 50 3 .3 .5 .02
608643.3 4875922.9 7015.5 4.07372E-06 5.388834E-08 1 9 2 2   S 3 98 0.10 2000 30 3 .3 .7 L(.02)
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608643.3 4875922.9 6877.5 3.390996E-06 5.243828E-08 1 9 2 2   S 3 117 0.06 300 0 3 .1 .5 .02
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608643.3 4875922.9 6773.5 4.190059E-06 2.529214E-08 1 9 2 2  S 3 131 0.03 1000 5 3 .3 .7 L(.02)
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608884.3 4875920.7 7298.5 2.434381E-06 1.495344E-08 1 9 1 2  S 4 149 0.03 1500 500 3 .15 1 .06
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608884.3 4875920.7 7286.75 1.827695E-06 3.73027E-08 1 9 1 2  S 4 151 0.06 2000 150 1 .15 .7 .04
608884.3 4875920.7 7282.75 1.400616E-06 5.187269E-08 1 9 3 2  S 4 152 0.05 5000 300 2 .3 1 .02
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608884.3 4875920.7 7275.5 2.304236E-06 1.826529E-07 1 9 3 2  S 4 154 0.009 5000 500 2 .3 .7 .02
608884.3 4875920.7 7275.5 4.62255E-06 1.714154E-06 1 9 3 2  S 4 154 0.009 5000 500 2 .3 .7 .02
608884.3 4875920.7 7269.75 1.086811E-06 4.644663E-08 1 9 3 2  S 4 155 0.06 10000 200 3 .3 .7 .02
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608884.3 4875920.7 7265 1.149135E-06 2.621203E-08 1 9 3 2  S 4 157 0.10 5000 100 .5 .2 .7 .04
608884.3 4875920.7 7261 2.727703E-06 2.052536E-08 1 9 3 2  S 4 158 0.04 3000 500 1 .3 1 .04
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608884.3 4875920.7 7029.5 2.27596E-06 3.324117E-08 1 9 2 2   S 4 186 0.09 1500 700 1 .3 .7 .04
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608884.3 4875920.7 6995.25 4.093017E-06 4.724681E-08 1 9 2 2   S 4 190 0.10 3000 100 2 .2 1 .02
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608884.3 4875920.7 6960 2.153803E-06 2.420006E-08 3 9 2 3   S 4 193 0.03 100 200 .5 .2 N L(.02)
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608884.3 4875920.7 6935.25 6.865335E-06 1.23237E-08 3 9 2 3   S 4 196 0.13 1500 200 1 .3 1 .04
608884.3 4875920.7 6928 7.123961E-06 3.45197E-08 3 9 2 3   S 4 197 0.26 1500 100 1.5 .3 .7 .04
608884.3 4875920.7 6928 8.512288E-06 3.318655E-08 3 9 2 3   S 4 198 0.05 1000 300 2 .3 .7 .02
608884.3 4875920.7 6920 4.663239E-06 7.259298E-08 3 9 2 3   S 4 199 0.04 700 70 1 .2 .7 .04
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609074.7 4876313.7 7011.4 5.006339E-06 1.559912E-07 1 9 2 3   S 5 204 0.15 2000 70 1 .3 1.5 .08
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6987.7 4.201791E-06 6.272694E-08 1 9 2 3   S 5 206 0.03 1500 70 1 .2 .7 .06
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609074.7 4876313.7 6977 4.20187E-06 4.379148E-08 1 9 2 3   S 5 208 0.03 1500 300 1.5 .2 .7 .04
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609074.7 4876313.7 6938.5 5.179836E-05 4.211179E-07 1 9 2 3   S 5 212 0.09 5000 150 3 .3 3 .04
609074.7 4876313.7 6929.5 4.186466E-06 1.379777E-09 1 9 2 3   S 5 213 0.009 1500 200 .7 .2 1 .04
609074.7 4876313.7 6920 7.325371E-06 4.079209E-08 1 9 2 3   S 5 214 0.04 1500 200 .7 .2 .7 .06
609074.7 4876313.7 6910.2 1.329648E-05 3.522307E-08 1 9 2 3   S 5 215 0.05 1500 150 3 .3 .7 .02
609074.7 4876313.7 6897.2 4.947093E-06 4.440835E-08 1 9 2 3   S 5 216 0.05 700 150 .7 .1 1 .06
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609074.7 4876313.7 6874.5 3.945974E-06 1.695586E-08 1 9 2 3   S 5 218 0.04 1500 50 .7 .2 1 .02
609074.7 4876313.7 6865 6.103677E-06 3.325914E-08 1 9 2 3   S 5 219 0.18 1500 150 1.5 .3 .7 .04
609074.7 4876313.7 6865 4.133544E-06 6.937773E-08 1 9 2 3   S 5 220 0.04 1500 100 15 .3 .5 L(.02)
609074.7 4876313.7 6855.5 6.972989E-06 7.535971E-08 1 9 2 3   S 5 221 0.03 1000 100 1 .15 .7 .06
609074.7 4876313.7 6846 3.381822E-06 5.961152E-08 1 9 2 3   S 5 222 0.04 1500 700 2 .3 .7 .04
609074.7 4876313.7 6836.5 3.799236E-06 2.234824E-07 1 9 2 3   S 5 223 0.05 2000 200 1.5 .3 1 .06
609074.7 4876313.7 6827.5 4.96587E-06 2.4038E-08 1 9 2 3   S 5 224 0.04 3000 500 7 .2 .5 .04
609074.7 4876313.7 6818 6.456761E-06 1.209132E-07 1 9 2 3   S 5 225 0.09 2000 200 2 .2 3 .06
609074.7 4876313.7 6808.2 3.576429E-05 2.225787E-07 1 9 2 3   S 5 226 0.05 1500 200 5 .3 .7 L(.02)
609074.7 4876313.7 6798.7 2.00844E-05 2.65629E-07 1 9 2 3   S 5 227 0.13 1000 300 1 .2 .5 .08
609074.7 4876313.7 6789.2 4.636832E-06 6.677102E-08 1 9 2 3   S 5 228 0.05 1000 70 1 .2 .7 .04
609074.7 4876313.7 6779.7 9.703414E-06 6.137658E-07 1 9 2 3   S 5 229 0.03 1500 150 1 .2 .7 .02
609074.7 4876313.7 6770.2 1.47162E-05 5.542449E-08 1 9 2 3   S 5 230 0.10 1500 300 1 .3 .7 .06
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609074.7 4876313.7 6760.7 9.000616E-06 3.581817E-08 1 9 2 3   S 5 232 0.03 2000 50 .7 .2 .7 .04
609074.7 4876313.7 6751.5 7.320327E-05 4.29493E-07 1 9 2 3   S 5 233 0.04 1000 70 1.5 .3 1 .06
609074.7 4876313.7 6742.2 4.057629E-06 2.400975E-08 1 9 2 3   S 5 234 0.04 700 50 .7 .15 .5 .04
609074.7 4876313.7 6732.7 4.499864E-06 9.144965E-08 1 9 2 3   S 5 235 0.20 2000 100 1 .2 2 .06
609074.7 4876313.7 6723.2 3.961612E-06 1.468312E-07 1 9 2 1   S 5 236 0.03 1500 70 .7 .15 1 .2
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609074.7 4876313.7 6704 5.19363E-06 7.519238E-07 1 9 2 3   S 5 238 0.15 1500 100 1.5 .3 .7 .06
609074.7 4876313.7 6719.2 9.488297E-06 6.476694E-08 1 9 2 3   S 5 239 0.05 1000 70 .7 .2 L .02
609074.7 4876313.7 6684.7 4.944181E-06 2.115516E-07 4 9 2 1   S 5 240 0.03 1500 150 1.5 .2 .7 .04
609074.7 4876313.7 6675.2 1.368298E-05 1.34302E-07 4 9 2 1   S 5 241 0.06 1500 200 2 .3 2 .04
609074.7 4876313.7 6675.2 1.125255E-05 1.404378E-07 4 9 2 1   S 5 242 0.03 1000 100 1.5 .2 .7 L(.02)
609074.7 4876313.7 6665.7 8.078203E-05 1.887891E-06 4 9 2 1   S 5 243 0.22 7000 300 1 .2 2 .02
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609074.7 4876313.7 6608.7 4.289341E-06 5.392361E-08 4 9 2 1   S 5 250 0.18 300 300 .5 .15 N .04
609074.7 4876313.7 6599 4.213873E-06 1.384286E-09 4 9 2 1   S 5 251 0.10 200 200 .7 .15 .5 .04
609074.7 4876313.7 6589 9.099018E-06 1.224431E-07 4 9 2 1   S 5 252 0.09 1500 300 1 .2 .7 .04
609074.7 4876313.7 6589 3.827727E-06 5.484129E-08 4 9 2 1   S 5 253 0.08 1500 100 1 .2 .5 .02
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609428.3 4876540.0 6979.7 5.223223E-06 3.713372E-08 3 9 1 1   S 6 258 0.15 1000 20 2 .3 .7 .04
609428.3 4876540.0 6979.7 6.972076E-06 7.506284E-08 3 9 1 1   S 6 259 0.26 1500 30 5 .3 .7 L(.02)
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609428.3 4876540.0 6930.25 4.766397E-06 5.591706E-08 3 9 1 1   S 6 264 0.10 2000 70 1 .2 .7 .04
609428.3 4876540.0 6920.75 7.746652E-06 1.076947E-07 3 9 1 1   S 6 265 0.03 1500 50 3 .3 1.5 L(.02)
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609428.3 4876540.0 6864 2.829827E-06 2.462047E-08 3 9 2 1   S 6 272 0.10 1000 100 3 .2 2 .04
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609428.3 4876540.0 6807.35 6.70797E-06 7.042485E-08 3 9 2 1   S 6 279 0.06 1000 15 3 .2 .7 .02
609428.3 4876540.0 6797.85 6.468473E-06 5.467773E-08 3 9 2 1   S 6 280 0.009 1500 50 7 .3 1 L(.02)
609428.3 4876540.0 6788 5.222637E-06 4.1735E-08 3 9 2 1   S 6 281 0.03 1500 70 2 .2 1 .04
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609428.3 4876540.0 6768.2 8.139262E-06 8.643044E-08 3 9 2 1   S 6 283 0.06 2000 200 5 .3 1.5 .04
609428.3 4876540.0 6768.2 3.552822E-06 2.797515E-08 3 9 2 1   S 6 284 0.04 2000 500 5 .3 1 .02
609428.3 4876540.0 6758.7 4.592567E-06 3.257128E-08 3 9 2 1   S 6 285 0.03 2000 150 3 .3 1.5 .02
609428.3 4876540.0 6749.5 4.047327E-06 7.652043E-09 3 9 2 1   S 6 286 0.03 3000 100 2 .5 1.5 .04
609428.3 4876540.0 6740.25 6.610339E-06 8.682065E-09 3 9 2 1   S 6 287 0.03 2000 100 3 .3 1.5 .02
609428.3 4876540.0 6730.55 4.718179E-06 6.324528E-08 3 9 2 3   S 6 288 0.09 1500 150 3 .2 .7 .04
609428.3 4876540.0 6721.05 4.982712E-06 9.985342E-09 3 9 2 3   S 6 289 0.09 1000 200 2 .15 .7 .04
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609428.3 4876540.0 6701.5 8.287876E-06 1.120276E-07 3 9 2 3   S 6 291 0.10 3000 300 5 .3 2 .02
609428.3 4876540.0 6701.5 6.162049E-06 1.493033E-08 3 9 2 3   S 6 292 0.06 5000 300 5 .3 .5 L(.02)
609428.3 4876540.0 6692 5.636196E-06 7.634146E-08 3 9 2 1   S 6 293 0.18 2000 150 10 .3 .7 L(.02)
609428.3 4876540.0 6682.25 3.151817E-06 1.866919E-08 3 9 2 1   S 6 294 0.06 1000 70 5 .15 1 .02
609428.3 4876540.0 6672.75 4.975151E-06 7.451894E-08 3 9 2 1   S 6 295 0.04 2000 200 7 .3 1 L(.02)
609428.3 4876540.0 6672.75 5.099324E-06 1.522795E-09 3 9 2 1   S 6 295 0.04 2000 200 7 .3 1 L(.02)
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609428.3 4876540.0 6644.25 4.808293E-06 1.187219E-07 3 9 2 1   S 6 298 0.03 2000 50 1.5 .3 1 .02
609428.3 4876540.0 6644.25 4.345736E-06 3.511288E-08 3 9 2 1   S 6 299 0.15 2000 30 2 .2 1 .04
609428.3 4876540.0 6634.5 3.357443E-06 6.141681E-08 3 9 2 1   S 6 300 0.009 500 30 2 .1 .7 .02
609428.3 4876540.0 6625.5 4.901409E-06 6.917613E-08 3 9 2 1   S 6 301 0.05 2000 100 2 .3 .7 .06
609428.3 4876540.0 6616.25 5.762802E-06 5.145784E-08 3 9 2 1   S 6 302 0.09 2000 30 3 .2 1 .02
609428.3 4876540.0 6606.75 5.2846E-06 2.036378E-08 3 9 2 1   S 6 303 0.10 2000 70 3 .3 .7 L(.02)
609428.3 4876540.0 6597.15 3.583411E-06 3.395456E-08 3 9 2 1   S 6 304 0.03 1500 70 7 .3 .7 L(.02)
609428.3 4876540.0 6587.3 3.318563E-06 3.728746E-08 3 9 2 1   S 6 305 0.009 500 30 3 .15 .5 L(.02)
609428.3 4876540.0 6577.65 4.813225E-06 2.422914E-08 3 9 2 1   S 6 306 0.03 1500 150 3 .2 .7 .02
609428.3 4876540.0 6568.1 4.880166E-06 2.99392E-08 3 9 2 1   S 6 307 0.009 1500 15 2 .2 .7 .04
609428.3 4876540.0 6558.45 5.687632E-06 5.747535E-08 3 9 2 1   S 6 308 0.009 700 30 3 .3 .5 .02
609428.3 4876540.0 6558.45 6.883566E-06 5.106682E-08 3 9 2 1   S 6 309 0.06 1000 150 3 .3 1.5 .02
609428.3 4876540.0 6548.85 4.575738E-06 2.556289E-07 3 9 2 1   S 6 310 0.06 3000 50 7 .5 1.5 .02
609428.3 4876540.0 6539.15 5.320251E-06 4.857105E-08 3 9 2 1   S 6 311 0.03 1000 30 2 .2 .5 .02
609428.3 4876540.0 6529.4 7.093582E-06 6.134245E-08 3 9 2 1   S 6 312 0.03 2000 30 2 .3 .7 .04
609428.3 4876540.0 6519.75 5.322321E-06 6.356976E-08 3 9 2 1   S 6 313 0.05 1500 70 5 .3 .7 L(.02)
609428.3 4876540.0 6510.2 5.310051E-06 8.57997E-09 3 9 2 1   S 6 314 0.03 700 150 5 .2 .5 L(.02)
609428.3 4876540.0 6500.7 5.044605E-06 4.806724E-08 3 9 2 1   S 6 315 0.03 1500 30 3 .2 .7 L(.02)
609428.3 4876540.0 6491.2 3.112395E-06 2.060108E-08 3 9 2 1   S 6 316 0.04 1500 150 15 .3 N .02
609428.3 4876540.0 6481.7 4.713905E-06 1.197094E-07 3 9 2 1   S 6 317 0.10 2000 10 5 .3 .7 .02
609428.3 4876540.0 6472 6.192023E-06 1.049959E-07 3 9 2 1   S 6 318 0.05 3000 100 3 .2 L L(.02)
609428.3 4876540.0 6462 3.904938E-06 4.253752E-08 3 9 2 1   S 6 319 0.03 1000 0 3 .2 .5 L(.02)
609428.3 4876540.0 6452.5 4.060254E-06 3.109218E-08 3 9 2 1   S 6 320 0.10 500 20 3 .15 L .02
609428.3 4876540.0 6443.2 4.799886E-06 3.462604E-08 3 9 2 1   S 6 321 0.05 500 50 5 .2 .5 L(.02)
609428.3 4876540.0 6433.2 2.888088E-06 1.719104E-08 3 9 2 1   S 6 322 0.06 300 15 3 .2 N L(.02)
609428.3 4876540.0 6433.2 4.67561E-06 4.242383E-08 3 9 2 1   S 6 323 0.06 1000 20 5 .3 L L(.02)
609428.3 4876540.0 6423.7 3.395677E-06 5.426708E-08 3 9 2 1   S 6 324 0.03 1000 20 2 .3 1.5 .02
609428.3 4876540.0 6414.7 4.263538E-06 1.39242E-09 3 9 2 1   S 6 325 0.18 700 15 5 .2 3 .5
609428.3 4876540.0 6405.5 6.602082E-06 7.197968E-08 3 9 2 1   S 6 326 0.10 700 20 3 .3 .7 L(.02)
609428.3 4876540.0 6396 5.390154E-06 2.033129E-08 3 9 2 1   S 6 327 0.05 300 15 2 .2 N .02
609428.3 4876540.0 6386.35 4.803107E-06 8.456163E-08 3 9 2 1   S 6 328 0.10 300 20 2 .15 L .02
609428.3 4876540.0 6376.85 1.095503E-05 6.813836E-08 3 9 2 1   S 6 329 0.13 1000 200 3 .3 5 .06
609428.3 4876540.0 6367 8.433451E-06 1.586727E-07 3 9 2 1   S 6 330 0.20 500 20 5 .3 .5 L(.02)
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609428.3 4876540.0 6357.05 6.059397E-06 3.386906E-08 3 9 2 1   S 6 331 0.05 700 150 3 .3 .7 .04
609428.3 4876540.0 6357.05 3.849027E-06 4.891042E-08 3 9 2 1   S 6 332 0.05 1000 200 5 .3 1 L(.02)
609428.3 4876540.0 6347.3 3.43118E-06 5.601687E-08 3 9 2 1   S 6 333 0.03 1000 300 3 .15 .7 .02
609428.3 4876540.0 6337.45 3.797062E-06 1.563688E-08 3 9 2 1   S 6 334 0.06 1500 150 3 .2 .7 .02
609428.3 4876540.0 6327.9 5.277426E-06 7.03573E-08 3 9 2 1   S 6 335 0.04 1000 20 3 .2 1 .02
609428.3 4876540.0 6318.45 7.653297E-06 5.440755E-08 3 9 2 1   S 6 336 0.06 700 7 2 .3 3 .04
609428.3 4876540.0 6308.75 8.912037E-06 8.079864E-08 3 9 2 1   S 6 337 0.04 700 100 3 .3 .5 .04
609428.3 4876540.0 6299.25 1.029301E-05 1.249184E-07 3 9 2 1   S 6 338 0.15 300 200 2 .3 .5 .04
609428.3 4876540.0 6289.75 1.407069E-05 5.5334E-08 3 9 2 1   S 6 339 0.06 1000 100 5 .2 L L(.02)
609428.3 4876540.0 6289.75 7.501965E-06 7.495731E-08 3 9 2 1   S 6 340 0.009 700 200 5 .3 1 .04
609428.3 4876540.0 6280 8.530753E-06 3.601897E-08 3 9 2 1   S 6 341 0.04 1000 30 3 .3 .7 .02
609428.3 4876540.0 6270.3 5.718E-06 1.616402E-08 3 9 2 1   S 6 342 0.09 300 7 2 .15 L .2
609428.3 4876540.0 6260.8 5.384758E-06 1.837375E-07 3 9 2 1   S 6 343 0.03 1000 50 1.5 .3 2 .04
609428.3 4876540.0 6251.2 8.925937E-06 1.120316E-07 3 9 2 1   S 6 344 0.06 700 15 5 .3 .5 L(.02)
609428.3 4876540.0 6241.7 7.755151E-06 3.231344E-08 3 9 2 1   S 6 345 0.03 700 30 3 .2 1 .02
609428.3 4876540.0 6232 1.51948E-05 1.530198E-07 3 9 2 1   S 6 346 0.06 700 30 3 .2 5 .1
609428.3 4876540.0 6232 5.350356E-06 5.267657E-08 3 9 2 1   S 6 347 0.09 300 30 3 .15 .7 .04
609428.3 4876540.0 6222.4 7.343322E-06 4.6477E-08 3 9 2 1   S 6 348 0.03 200 30 3 .2 L .02
609428.3 4876540.0 6212.9 7.426113E-06 3.836292E-08 3 9 2 1   S 6 349 0.06 1000 10 2 .15 L .02
609428.3 4876540.0 6203 8.004907E-06 9.812786E-08 3 9 2 1   S 6 350 0.06 1500 20 3 .3 .5 L(.02)
609428.3 4876540.0 6203 6.372138E-06 8.694401E-08 3 9 2 1   S 6 351 0.04 2000 50 3 .2 L L(.02)
609428.3 4876540.0 6195 4.377044E-06 8.926266E-08 3 9 2 1   S 6 352 0.05 1500 30 5 .3 .7 .02
609295.3 4876077.1 7337.5 5.057398E-06 4.596887E-08 1 9 3 3   S 7 353 0.03 5000 100 7 .3 .5 L(.02)
609295.3 4876077.1 7274 1.490149E-05 3.525884E-07 1 9 3 3   S 7 354 0.06 1500 70 1.5 .15 .7 .04
609295.3 4876077.1 7261.5 3.246827E-06 8.461191E-08 1 9 3 3   S 7 355 0.13 3000 150 1 .2 1 .04
609295.3 4876077.1 7256 5.374662E-06 2.125576E-07 1 9 3 3   S 7 356 0.06 5000 150 1 .2 .7 .1
609295.3 4876077.1 7247 2.594044E-06 5.420429E-08 1 9 3 3   S 7 357 0.09 1000 70 1 .15 .5 .06
609295.3 4876077.1 7237 2.570896E-06 7.208109E-08 1 9 3 3   S 7 358 0.03 1500 100 1 .15 .5 .04
609295.3 4876077.1 7237 4.136639E-06 1.138712E-07 1 9 3 3   S 7 359 0.05 5000 200 3 .3 1 .04
609295.3 4876077.1 7225.3 3.688698E-06 3.844547E-08 1 9 3 3   S 7 360 0.18 3000 200 1.5 .3 .7 .04
609295.3 4876077.1 7212.8 3.604862E-06 4.742954E-08 1 9 3 3   S 7 361 0.05 5000 300 5 .5 1 .06
609295.3 4876077.1 7201.5 3.829467E-06 2.643384E-08 1 9 2 3   S 7 362 0.06 2000 100 1 .3 .7 .06
609295.3 4876077.1 7189.75 4.270572E-06 5.600759E-08 1 9 2 3   S 7 363 0.03 3000 200 2 .3 1 .06
609295.3 4876077.1 7178.25 5.448802E-06 7.353766E-08 1 9 2 3   S 7 364 0.03 2000 200 1 .2 .7 .06
609295.3 4876077.1 7167.75 3.734857E-06 6.823662E-08 1 9 2 3   S 7 365 0.18 3000 200 1 .5 1 .02
609295.3 4876077.1 7157.75 4.340734E-06 6.014622E-08 1 9 2 3   S 7 366 0.09 1500 100 .7 .15 .5 .04
609295.3 4876077.1 7147.5 -2.074968E-08 2.934448E-08 1 9 2 3   S 7 367 0.40 3000 100 5 .3 1 L(.02)
609295.3 4876077.1 7147.5 3.581872E-06 4.574695E-08 1 9 2 3   S 7 368 0.009 3000 500 2 .3 1 .04
609295.3 4876077.1 7137 5.270561E-06 2.314982E-08 1 9 2 3   S 7 369 0.10 1500 70 .7 .15 .7 .04
609295.3 4876077.1 7127.25 4.041433E-06 1.804165E-08 1 9 2 3   S 7 370 0.12 1000 70 .7 .1 .7 .06
609295.3 4876077.1 7117.25 5.255256E-06 1.433363E-08 1 9 2 3   S 7 371 0.03 1500 50 1 .2 .5 .04
609295.3 4876077.1 7104.75 7.353925E-06 8.389572E-08 1 9 2 3   S 7 372 0.09 1500 70 1.5 .3 2 .02
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609295.3 4876077.1 7091.5 2.920297E-06 8.505731E-08 1 9 2 3  S 7 373 0.06 700 50 .7 .15 .5 .04
609295.3 4876077.1 7080.25 5.269851E-06 9.039013E-09 1 9 2 3  S 7 374 0.18 1500 150 1 .15 1 .06
609295.3 4876077.1 7080.25 5.304739E-06 8.396046E-08 1 9 2 3  S 7 375 0.03 2000 300 2 .2 1 .04
609295.3 4876077.1 7069 5.653297E-06 8.110784E-08 1 9 2 3  S 7 376 0.03 1500 70 2 .2 2 .04
609295.3 4876077.1 7056.5 3.691508E-06 4.466502E-08 1 9 2 3  S 7 377 0.05 1500 100 .7 .2 .5 .04
609295.3 4876077.1 7056.5 4.464056E-06 4.464073E-08 1 9 2 3  S 7 377 0.05 1500 100 .7 .2 .5 .04
609295.3 4876077.1 7044.75 2.599294E-06 1.577199E-08 1 9 2 3  S 7 378 0.10 2000 100 .7 .2 .7 .06
609295.3 4876077.1 7044.75 2.914363E-06 1.573288E-08 1 9 2 3  S 7 378 0.10 2000 100 .7 .2 .7 .06
609295.3 4876077.1 7035.5 3.31351E-06 1.606359E-08 1 9 2 3  S 7 379 0.45 2000 100 1 .3 1 .04
609295.3 4876077.1 7027 2.995929E-06 2.607781E-08 1 9 2 3  S 7 380 0.04 5000 150 1.5 .3 2 .06
609295.3 4876077.1 7019 3.946035E-06 3.208152E-08 1 9 2 3  S 7 381 0.12 5000 200 2 .3 3 .1
609295.3 4876077.1 7010.75 3.404933E-06 3.565356E-08 1 9 2 3  S 7 382 0.15 1500 100 1 .15 .7 .06
609295.3 4876077.1 7001 4.017766E-06 6.783816E-08 1 9 2 3  S 7 383 0.09 2000 150 1 .3 1 .06
609295.3 4876077.1 6992 4.157627E-06 5.618404E-08 1 9 2 3  S 7 384 0.03 2000 200 2 .2 1 .04
609295.3 4876077.1 6992 3.239482E-06 2.880818E-08 1 9 2 3  S 7 385 0.12 3000 300 1.5 .3 1 .04
609295.3 4876077.1 6983 3.756402E-06 2.425258E-08 1 9 2 3  S 7 386 0.20 1500 150 .7 .15 1 .02
609295.3 4876077.1 6964.75 6.748969E-06 6.971979E-08 1 9 2 3  S 7 388 0.15 5000 200 2 .5 3 .06
609295.3 4876077.1 6956.75 5.399736E-06 2.945684E-07 1 9 2 3  S 7 389 0.009 3000 300 10 .5 .5 L(.02)
609295.3 4876077.1 6939 4.783252E-06 8.664069E-08 1 9 2 3  S 7 391 0.009 3000 200 1.5 .2 1.5 .04
609295.3 4876077.1 6929.5 4.328567E-06 4.084853E-08 1 9 2 3  S 7 392 0.03 3000 150 2 .2 2 .08
609295.3 4876077.1 6929.5 4.393393E-06 4.65725E-08 1 9 2 3  S 7 393 0.10 1500 200 1 .15 1 .04
609295.3 4876077.1 6919.5 5.083341E-06 1.016567E-07 1 9 2 3  S 7 394 0.03 3000 300 2 .3 1 L(.02)
609295.3 4876077.1 6909.5 4.792549E-06 1.479157E-08 1 9 2 3  S 7 395 0.05 3000 150 2 .3 .7 .06
609295.3 4876077.1 6899.75 5.135354E-06 5.902712E-08 1 9 2 3  S 7 396 0.009 1500 150 1 .3 1 L(.02)
609295.3 4876077.1 6899.75 2.92589E-06 8.583167E-08 1 9 2 3  S 7 397 0.03 2000 200 3 .5 3 .02
609295.3 4876077.1 6892.25 3.596043E-06 7.208568E-08 1 9 2 3  S 7 398 0.15 2000 200 1 .3 1 .04
608934.2 4876119.0 7141 4.445233E-04 6.220071E-07 1 9 1 1  S 8 399 0.03 1500 5 3 .2 .7 .04
608934.2 4876119.0 7132 3.609487E-04 2.515117E-06 1 9 2 3  S 8 400 0.03 1000 15 3 .3 .5 .06
608934.2 4876119.0 7132 4.092166E-04 2.505406E-06 1 9 2 3  S 8 401 0.09 500 50 3 .3 .5 .06
608934.2 4876119.0 7122.75 4.576632E-04 1.043974E-06 1 9 2 3  S 8 402 0.15 300 5 5 .3 1 .04
608934.2 4876119.0 7113.75 4.14044E-04 5.791675E-06 1 9 2 3  S 8 403 0.06 700 15 2 .3 .5 L(.02)
608934.2 4876119.0 7104 3.386388E-04 9.494543E-07 1 9 2 3  S 8 404 0.04 500 5 2 .15 L .04
608934.2 4876119.0 7094.5 4.54529E-04 8.724292E-07 1 9 2 3  S 8 405 0.05 150 10 7 .3 1 .02
608934.2 4876119.0 7084.5 3.981681E-04 1.274412E-06 1 9 2 3  S 8 406 0.03 200 30 3 .3 L .04
608934.2 4876119.0 7084.5 4.070272E-04 3.909025E-06 1 9 2 3  S 8 407 0.20 200 5 2 .2 1 .02
608934.2 4876119.0 7075.25 3.181813E-04 8.029555E-07 1 9 2 3  S 8 408 0.04 150 15 2 .2 L .04
608934.2 4876119.0 7066.75 3.819327E-04 1.128257E-06 1 9 2 3  S 8 409 0.009 150 20 2 .2 .5 .02
608934.2 4876119.0 7057.5 3.586235E-04 3.997256E-06 1 9 2 3  S 8 410 0.06 100 15 1.5 .3 N .04
608934.2 4876119.0 7048 3.787692E-04 1.667913E-06 1 9 2 3  S 8 411 0.03 70 15 2 .3 N L(.02)
608934.2 4876119.0 7048 4.479167E-04 2.078563E-06 1 9 2 3  S 8 412 0.10 100 10 2 .3 N .04
608934.2 4876119.0 7041.5 4.782695E-04 1.726619E-06 1 9 2 3  S 8 413 0.06 100 15 2 .3 .5 L(.02)
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Table 2. Measured magnetic susceptibility, alteration class, and selected chemical analysis for the 700
samples from drillholes from the Stinkingwater Mining district, Absaroka Mountains, Wyoming. Values are
UTM e, UTM n, altitude(ft),magnetic susceptibility (cgs/g), standard deviation of magnetic susceptibility
(cgs/g), lithology code, texture code, oxidized/enriched code, alteration class code, borehole group code,
hole number, sampl number, Hg(ppm), Cu(ppm),Mo(ppm), total Fe(%), Ti(%), Ag(ppm), Au(ppm). N or N() and L
or L() have been replaced by numeric values. See text for explanation of codes and replaced values; UTM
coordinates are zone 12N.

These data are available in ASCII form at http://pubs.usgs.gov/of/2004/1253/table2.txt

The files http://pubs.usgs.gov/of/2004/1253/datafile_format.txt and
http://pubs.usgs.gov/of/2004/1253/heading.txt are ASCII files describing the data format and headings.

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609121.5 4875939.6 7603 2.554834E-06 2.936252E-08 1 3 1 2 N 1 1 0.30 55 150 2 .3 1.5 0.01
609121.5 4875939.6 7593 1.116083E-05 8.680806E-08 1 3 1 2 N 1 2 0.08 90 150 3 .3 1 0.01
609121.5 4875939.6 7583 2.155997E-06 4.052591E-08 1 3 1 2 N 1 3 0.10 85 150 3 .3 .5 0.01
609121.5 4875939.6 7573 2.694983E-06 1.739543E-08 1 3 1 2 N 1 4 0.08 120 200 3 .3 .5 0.01
609121.5 4875939.6 7563 1.626001E-06 7.12903E-08 1 3 1 2 N 1 5 0.10 85 300 3 .3 .5 0.01
609121.5 4875939.6 7523 3.949657E-06 2.47861E-06 1 3 1 2 N 1 9 0.06 150 300 2 .3 1 0.01
609121.5 4875939.6 7523 2.713721E-06 2.568007E-07 1 3 1 2 N 1 9 0.06 150 300 2 .3 1 0.01
609121.5 4875939.6 7513 2.002277E-06 1.122869E-07 1 2 1 2 N 1 10 0.10 120 100 1.5 .3 1 0.01
609121.5 4875939.6 7503 2.396971E-06 1.612762E-08 1 2 1 2 N 1 11 0.08 250 150 3 .3 1 0.015
609121.5 4875939.6 7493 2.807801E-06 7.87546E-08 1 2 1 2 N 1 12 0.02 320 200 5 .3 1 0.015
609121.5 4875939.6 7483 2.352235E-06 1.512285E-07 1 2 1 2 N 1 13 0.06 130 150 3 .3 .5 0.01
609121.5 4875939.6 7473 3.112092E-06 1.064787E-07 1 2 1 2 N 1 14 0.10 240 700 3 .2 .5 0.01
609121.5 4875939.6 7463 2.938187E-06 9.614186E-08 1 2 1 2 N 1 15 0.06 150 300 3 .3 0.01 0.01
609121.5 4875939.6 7453 2.435118E-06 2.393517E-08 1 2 1 2 N 1 16 0.04 130 300 3 .3 .5 0.01
609121.5 4875939.6 7443 2.232361E-06 3.272604E-07 1 2 1 2 N 1 17 0.06 220 300 3 .3 1 0.01
609121.5 4875939.6 7433 2.299899E-06 1.855749E-07 1 2 1 2 N 1 18 0.08 100 500 3 .3 3 0.01
609121.5 4875939.6 7413 3.656154E-06 2.43275E-07 1 3 1 2 N 1 20 0.04 350 150 7 .2 1 0.01
609121.5 4875939.6 7403 3.46172E-06 5.018922E-07 1 3 1 2 N 1 21 0.06 290 200 5 .2 .5 0.01
609121.5 4875939.6 7393 3.233902E-06 9.018574E-08 1 3 1 2 N 1 22 0.04 350 200 5 .3 1 0.01
609121.5 4875939.6 7383 2.782429E-06 1.537564E-07 1 3 1 2 N 1 23 0.04 480 70 5 .2 1 0.01
609121.5 4875939.6 7373 3.063128E-06 4.241098E-08 1 3 1 2 N 1 24 0.08 350 300 7 .3 .7 0.01
609121.5 4875939.6 7363 1.569503E-06 6.370892E-07 1 3 1 2 N 1 25 0.06 340 300 3 .3 .5 0.01
609121.5 4875939.6 7343 1.352578E-06 2.049123E-07 1 3 3 2 N 1 27 0.06 3900 300 2 .2 2 0.01
609121.5 4875939.6 7333 3.037918E-06 2.921192E-06 1 3 3 2 N 1 28 0.04 4900 300 3 .3 1.5 0.01
609121.5 4875939.6 7333 1.73612E-06 6.685621E-07 1 3 3 2 N 1 28 0.04 4900 300 3 .3 1.5 0.01
609121.5 4875939.6 7323 1.753769E-06 3.324467E-07 1 3 3 2 N 1 29 0.02 4000 150 2 .3 1 0.01
609121.5 4875939.6 7313 1.951879E-06 5.987416E-07 1 3 3 2 N 1 30 0.06 2700 70 2 .2 1 0.01
609121.5 4875939.6 7303 1.391169E-06 3.336056E-07 1 3 3 2 N 1 31 0.10 3300 100 2 .3 1 0.01
609121.5 4875939.6 7243 3.198825E-06 1.600256E-07 1 3 2 2 N 1 37 0.06 3300 200 3 .2 1 0.01
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609121.5 4875939.6 7233 1.896758E-06 4.860253E-08 1 3 2 2 N 1 38 0.08 2000 300 2 .3 .5 0.01
609121.5 4875939.6 7223 2.374395E-06 5.506236E-08 1 3 2 2 N 1 39 0.06 2300 300 2 .2 1 0.01
609121.5 4875939.6 7213 2.558427E-06 3.794349E-07 1 3 2 2 N 1 40 0.04 2800 100 3 .3 1 0.01
609121.5 4875939.6 7203 2.311801E-06 1.92928E-07 1 3 2 2 N 1 41 0.02 2600 150 2 .3 .5 0.01
609121.5 4875939.6 7193 1.65705E-06 5.962515E-07 1 3 2 2 N 1 42 0.06 2000 70 1.5 .3 .7 0.015
609121.5 4875939.6 7184.5 3.865458E-06 6.732548E-06 1 3 2 2 N 1 43 0.02 2200 100 2 .5 1 0.01
608873.0 4876142.0 7217 1.225769E-04 6.306202E-07 1 2 2 3 N 3 44 0.02 170 15 2 .3 .5 0.01
608873.0 4876142.0 7208 1.631122E-04 4.272244E-07 1 2 2 3 N 3 45 0.02 290 10 3 .5 .5 0.01
608873.0 4876142.0 7198 2.614733E-04 6.15113E-07 1 2 2 3 N 3 46 0.04 650 70 2 .3 .7 0.01
608873.0 4876142.0 7188 4.384847E-04 1.086048E-06 1 2 2 3 N 3 47 0.02 1200 0 3 .7 .5 0.01
608873.0 4876142.0 7178 2.926848E-04 2.119949E-06 1 2 2 3 N 3 48 0.04 2000 5 3 .7 .7 0.01
608873.0 4876142.0 7168 3.624313E-04 1.215701E-06 1 2 2 3 N 3 49 0.02 740 0 3 .5 .5 0.01
608873.0 4876142.0 7158 2.395881E-04 2.231197E-06 1 2 2 3 N 3 50 0.02 1300 0 2 .5 .5 0.01
608873.0 4876142.0 7148 2.54929E-04 6.447229E-07 1 2 2 3 N 3 51 0.02 370 15 2 .7 0.45 0.01
608873.0 4876142.0 7138 3.385178E-05 1.650938E-07 1 2 2 3 N 3 52 0.20 450 7 2 .3 3 0.01
608873.0 4876142.0 7128 1.066505E-04 1.982471E-07 1 2 2 3 N 3 53 0.02 1700 10 3 .7 1.5 0.01
608873.0 4876142.0 7118 2.086506E-04 6.563281E-07 1 2 2 3 N 3 54 0.06 2300 0 3 .5 2 0.01
608873.0 4876142.0 7108 4.277326E-05 1.771766E-07 1 2 2 3 N 3 55 0.02 1100 0 1 .3 0.01 0.01
608873.0 4876142.0 7098 7.106361E-05 3.802556E-06 1 2 2 3 N 3 56 0.06 950 15 1.5 .7 0.45 0.01
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