GEOLOGICAL SURVEY OF WYOMING
UNPUBLISHED MINERAL REPORT
MR 84-9

DIANA MINE, SOUTH PASS-ATLANTIC CITY DISTRICT

by

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1984

DM 2703 (2' sample across swell in quartz vein)
Au - 0.31 ppm
Ag - 1.2 ppm
W - 3.0 ppm
As - 467.0 ppm
Cu - 30.0 ppm

DM 2704 (2' sample across footwall breccia)
Au - 0.03 ppm
Ag - 1.0 ppm
W - 7.0 ppm
As - 714.0 ppm
Cu - 66.0 ppm

DM 2702 (5' oblique sample across quartz vein)
Au - 1.62 ppm
Ag - 0.7 ppm
W - 5.0 ppm
As - 134.0 ppm
Cu - 22.0 ppm

DM 2701 (3' sample in sheared tremolitic schist in back)
Au - 0.05 ppm
Ag - 1.0 ppm
W - 3.0 ppm
As - 388.0 ppm
Cu - 152.0 ppm

DM 2686 (chip sample across 18 inches of quartz vein)
Au - 0.93 ppm
Ag - 0.5 ppm
W - 4.0 ppm
As - 180.0 ppm
Cu - 13.0 ppm

DM 2687 (5' sample of footwall below vein)
Au - 0.92 ppm
Ag - 0.5 ppm
W - 3.0 ppm
As - 133.0 ppm
Cu - 38.0 ppm

DM 2699 (sample across 18 inch quartz vein)
Au - 5.66 ppm
Ag - 2.2 ppm
W - 5.0 ppm
As - 362.0 ppm
Cu - 16.0 ppm

DM 2700 (4' footwall sample below vein)
Au - 0.34 ppm
Ag - 1.4 ppm
W - 6.0 ppm
As - 1,150.0 ppm
Cu - 50.0 ppm

DM 2698 (sampled along strike of 1' wide vein)
Au - 1.71 ppm
Ag - <0.2 ppm
W - 2.0 ppm
As - 178.0 ppm
Cu - 15.0 ppm

DM 2688 (7' channel in SW part of muck pile)
Au - 3.11 ppm
Ag - 1.4 ppm
W - 11.0 ppm
As - 444.0 ppm
Cu - 59.0 ppm

DM 2689 (7' channel in NE portion of muck)
Au - 24.0 ppm
Ag - 6.9 ppm
W - 25.0 ppm
As - 1640.0 ppm
Cu - 77.0 ppm

DM 2690 (3' channel along contact)
Au - 4.41 ppm
Ag - 1.0 ppm
W - 32.0 ppm
As - 2830.0 ppm
Cu - 84.0 ppm

DM 2685 (3' hanging wall sample)
Au - 13.2 ppm
Ag - 4.1 ppm
W - 20.0 ppm
As - 1320.0 ppm
Cu - 70.0 ppm

DM 2692 (2ft chip sample of quartz vein)
Au - 23.7 ppm
Ag - 0.5 ppm
W - 8.0 ppm
As - 326.0 ppm
Cu - 13.0 ppm

DM 2656
DM 2697

DM 2691
Au - 10.5 ppm
Ag - 1.2 ppm
W - 7.0 ppm
As - 1030.0 ppm
Cu - 65.0 ppm

DM 2693 (6' chip sample)
Au - 0.89 ppm
Ag - 0.5 ppm
W - 4.0 ppm
As - 779.0 ppm
Cu - 107.0 ppm

DM 2684 (hanging wall sample)
Au - <0.02 ppm
Ag - 0.7 ppm
W - 3.0 ppm
As - 171.0 ppm
Cu - 44.0 ppm

DMA-6-84

DM 2683 (vein)
Au - <0.02 ppm
Ag - 1.2 ppm
W - 8.0 ppm
As - 190.0 ppm
Cu - 147.0 ppm

chip sample # DM 2681
Au - 0.06 ppm
Ag - 1.9 ppm
W - 12.0 ppm
As - 1930.0 ppm
Cu - 91.0 ppm

6 inch to 1 foot wide gouge zone w/ limonite & clay

DM 2694 (2' sample of silicified breccia)
Au - 0.74 ppm
Ag - 0.7 ppm
W - 5.0 ppm
As - 488.0 ppm
Cu - 58.0 ppm

DM 2682 (5 ft of footwall of vein)
Au - 0.14 ppm
Ag - 1.7 ppm
W - 6.0 ppm
As - 917.0 ppm
Cu - 112.0 ppm

chip sample # DM 2680
Au - <0.02 ppm
Ag - 2.2 ppm
W - 5.0 ppm
As - 1290.0 ppm
Cu - 113.0 ppm

limonite-stained gouge w/ quartz pods

sample DNA-5-84

DM 2695 (5' sample of shear zone)
Au - 0.27 ppm
Ag - 1.0 ppm
W - 6.0 ppm
As - 836.0 ppm
Cu - 142.0 ppm

DNA-7-84

chip sample # DM 2679
Au - 0.08 ppm
Ag - 2.5 ppm
W - 4.0 ppm
As - 651.0 ppm
Cu - 269.0 ppm

gouge zone w/ limonite & minor quartz.

Fault breccia w/ quartz pods & limonite stains.

gouge zone w/ micaceous alteration

limonite-stained ½-1 inch wide gouge zone w/ minor manganese dendrites.

¼ to 6 inch wide shear w/ limonite-stained gouge & micaceous alteration

chip sample # DM 2678
Au - 0.09 ppm
Ag - 1.2 ppm
W - 7.0 ppm
As - 196.0 ppm
Cu - 41.0 ppm

DM 2696 (2' chip sample of vein)
Au - 1.37 ppm
Ag - 0.2 ppm
W - 4.0 ppm
As - 2,490.0 ppm
Cu - 31.0 ppm

DM 2697 (5' sample of foot wall)
Au - 0.06 ppm
Ag - 0.5 ppm
W - 4.0 ppm
As - 498.0 ppm
Cu - 83.0 ppm

Mica schist
Graphitic schist
Tremolite-actinolite schist
Gneiss
Metadiabase
Quartz vein
Silicified breccia

N MN 16°

0 10 20 feet