no. 342

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

64-50

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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Sheet 2 of 2

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Semiquantitative spectrographic and chemical analyses of rocks from the lower plate of the Roberts Thrust, north-central part of the Cortez quadrangle, Nevada (continued)

| Sample No. | Description | Percent Ca | Mg | Fe | Parts per million Ti | Mn | Ag | As | B | Ba | Be | Cr | Cu | Mo | Ni | Pb | Sb | Sr | V | W | Y | Zn | Zr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS-542 | Limestone, red, sandy, recrystallized---------- | 20 | .15 | .1 | 150 | 70 | <1 | 20 | <10 | 50 | <1 | 20 | 5 | <2 | <5 | <10 | <50 | 100 | 50 | <50 | 10 | <200 | 20 |
| 543 | Fracture filling, red, earthy---------- | 7 | .5 | 1.5 | 1,500 | 500 | <1 | 120 | 70 | >10,000 | 7 | 50 | 10 | <2 | 50 | <10 | 500 | 150 | 300 | 150 | 30 | <200 | 100 |
| 544 | Earthy pod, bright orange-brown---------- | 3 | .5 | 3 | 1,500 | 50 | <1 | 300 | 200 | 300 | 15 | 70 | 7 | 5 | 70 | 20 | 700 | 100 | 300 | 1,000 | 20 | 300 | 150 |
| 544-A | Earthy pod, yellow-green----- | .3 | .7 | .7 | 3,000 | 30 | <1 | 60 | 100 | 1,000 | 2 | 50 | 5 | <2 | 50 | <10 | 150 | 20 | 300 | 50 | <10 | <200 | 300 |
| 550 | Biotite quartz latite dike--- | .7 | .1 | .3 | 300 | 300 | <1 | 10 | 10 | 700 | 3 | <10 | 1 | <2 | <5 | 10 | <50 | 70 | <10 | <50 | <10 | <200 | 70 |
| 551 | Fracture filling, red-brown, calcareous---------- | >20 | .5 | .5 | 1,000 | 100 | <1 | 60 | 20 | 150 | 1 | 50 | 7 | <2 | 20 | 10 | <50 | 200 | 20 | <20 | 20 | <200 | 50 |
| 551-A | Do---------- | 20 | 2 | 1.5 | 1,500 | 300 | <1 | 60 | 70 | 500 | 2 | 70 | 20 | <2 | 50 | 30 | 100 | 500 | 30 | 20 | 20 | 200 | 100 |
| 551-B | Jasperoid, red---------- | 1.5 | .1 | 1 | 3,000 | 150 | <1 | 160 | 10 | 150 | 2 | 10 | 20 | 5 | 20 | 20 | 50 | 30 | 200 | <20 | 15 | 200 | 150 |
| 551-C | Fracture filling, red-brown-- | 2 | .15 | 20 | 300 | 300 | <1 | 3,200 | 20 | 300 | 5 | <5 | 30 | 200 | 70 | 70 | 1,500 | 50 | 200 | 200 | 20 | 1,000 | 100 |
| 551-D | Earthy pod, red-brown-------- | 1.5 | .15 | 15 | 2,000 | 70 | <1 | 600 | 100 | 150 | 7 | 50 | 50 | 150 | 100 | 150 | 1,000 | 150 | 700 | 150 | 30 | 700 | 300 |
| 551-E | Quartz latite dike rock------ | .7 | .03 | .5 | 1,500 | 50 | <1 | 60 | 10 | 700 | 5 | 10 | 10 | <2 | 20 | 10 | <50 | 20 | 30 | <20 | 10 | <200 | 300 |
| 552 | Jasperoid, red---------- | 5 | 2 | .7 | 1,000 | 300 | 1 | 60 | 20 | 150 | <1 | 50 | 7 | 2 | 30 | <10 | <50 | 100 | 300 | <20 | 15 | <200 | 70 |
| 553 | Do---------- | .7 | .07 | .5 | 1,000 | 100 | 15 | 400 | 50 | 200 | 1 | 20 | 10 | <2 | 20 | <10 | <50 | 70 | 70 | <20 | 20 | <200 | 100 |
| 554 | Limestone, gray, coarsely clastic---------- | >20 | .5 | .15 | 200 | 500 | <1 | 10 | <10 | 30 | <1 | 15 | 2 | <2 | <5 | <10 | <50 | 300 | 50 | <20 | 20 | <200 | 30 |
| 555 | Jasperoid, red-brown, vuggy-- | 3 | .2 | 15 | 700 | 2,000 | <1 | 2,000 | 50 | 700 | 15 | 20 | 50 | 10 | 150 | 15 | 1,000 | 200 | 300 | 200 | 15 | 700 | 150 |
| 556 | Earthy pod, red-brown---------- | 3 | .15 | 3 | 1,000 | 20 | <1 | 1,600 | 50 | 300 | 5 | 30 | 15 | 50 | 100 | 50 | 1,500 | 200 | 200 | 30 | 10 | <200 | 150 |
| 556-A | Breccia, silicified---------- | 5 | .15 | 5 | 1,000 | 50 | <1 | 600 | 30 | 200 | 1 | 50 | 10 | 5 | 100 | <10 | 150 | 300 | 300 | 70 | 10 | <200 | 200 |
| 557 | Travertine(?); faint red [illegible] | [illegible] | [illegible] | [illegible] | 500 | 70 | <1 | 20 | [illegible] | [illegible] | [illegible] | 20 | 3 | <2 | 5 | <10 | <50 | 200 | 30 | <20 | 15 | <200 | 20 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 200 | <1 | 600 | 150 | 200 | 3 | 50 | 20 | 10 | 70 | 15 | 150 | 20 | 50 | 30 | 15 | <200 | 300 |
| 559 | Jasperoid, red---------- | 10 | 2 | 1.5 | 1,500 | 2,000 | 1 | 200 | 30 | 500 | 5 | 50 | 15 | 2 | 30 | 10 | 200 | 70 | 30 | 70 | 10 | <200 | 100 |
| 561 | Limestone breccia, red-stained---------- | >20 | .5 | 2 | 1,500 | 100 | 30 | 40 | 15 | 1,000 | 2 | 150 | 30 | <2 | 30 | 30 | <50 | 300 | 500 | 70 | 50 | <200 | 150 |
| 561-A | Calcite vein, white---------- | >20 | .7 | .2 | 500 | 70 | 2 | 40 | <10 | 700 | <1 | 70 | 20 | <2 | 10 | 10 | <50 | 200 | 50 | <20 | 15 | <200 | 20 |
| 562 | Calcite breccia, red-brown--- | 20 | .5 | 2 | 1,500 | 150 | <1 | 240 | 10 | 150 | 7 | 50 | 15 | 5 | 30 | 30 | 300 | 200 | 200 | 70 | 10 | <200 | 100 |
| 562-A | Calcite, coarse; cements limestone breccia---------- | >20 | .3 | .7 | 1,500 | 20 | <1 | 60 | <10 | 700 | 1 | 30 | 10 | 2 | 20 | <10 | 50 | 200 | 100 | <20 | 20 | <200 | 70 |
| 562-B | Calcite, red-brown; fracture filling---------- | >20 | 1 | 1 | 1,500 | 700 | <1 | 80 | <10 | 200 | 3 | 50 | 10 | 15 | 30 | 70 | 150 | 200 | 300 | 50 | 30 | <200 | 150 |
| 562-D | Quartz latite porphyry dike-- | .5 | .3 | .3 | 500 | 200 | <1 | 60 | 10 | 500 | 5 | <5 | 3 | <2 | 5 | 30 | <50 | 30 | 10 | <20 | 10 | <200 | 100 |
| 563 | Skarn, white with red-brown spots---------- | 15 | 10 | 1 | 2,000 | 200 | <1 | 40 | 10 | 700 | <1 | 70 | 20 | 2 | 30 | 70 | <50 | 500 | 100 | <20 | 30 | <200 | 300 |
| 563-A | Limestone and skarn, red-brown---------- | >20 | .7 | 1.5 | 2,000 | 500 | <1 | 300 | <10 | 150 | 1 | 70 | 20 | 5 | 50 | 50 | <50 | 700 | 300 | 20 | 30 | 200 | 200 |
| 563-B | Nodules, red-brown, earthy in altered limestone------- | 15 | .2 | 3 | 1,000 | 200 | <1 | 300 | 30 | 300 | 3 | 70 | 30 | 3 | 150 | <10 | <50 | 150 | 50 | <20 | 15 | 200 | 50 |
| 563-C | Skarn, weathered soft, yellow-brown---------- | .5 | .15 | 1 | 3,000 | 1,500 | <1 | 300 | 10 | 300 | 10 | 50 | 20 | 2 | 30 | 50 | 300 | 50 | 200 | 100 | 10 | <200 | 500 |
| 564 | Skarn---------- | 2 | 1 | 1.5 | 3,000 | 150 | <1 | 60 | 30 | 700 | 1 | 200 | 15 | <2 | 50 | <10 | <50 | 200 | 70 | <20 | 10 | <200 | 200 |
| 565 | Calcite fracture filling----- | >20 | .5 | .7 | 300 | 300 | <1 | 60 | <10 | 100 | <1 | 50 | 2 | 2 | 10 | <10 | <50 | 300 | 50 | <20 | 10 | 200 | 20 |
| 566 | Jasperoid, red-brown--------- | 5 | .3 | 10 | 700 | 300 | <1 | 2,000 | 15 | 300 | 10 | 30 | 20 | 15 | 150 | <10 | 1,000 | 50 | 500 | 70 | 20 | <200 | 200 |
| 566-A | Jasperoid(?), varicolored, crumbly---------- | 7 | .3 | 2 | 700 | 70 | <1 | 800 | 50 | 2,000 | 5 | 20 | 20 | 5 | 50 | 20 | 500 | 100 | 200 | <20 | 20 | <200 | 300 |
| 566-B | Iron oxides, varicolored, sandy-textured---------- | 2 | .1 | 10 | 1,500 | 100 | <1 | 1,200 | 50 | 150 | 7 | 20 | 50 | 15 | 200 | 20 | 700 | 20 | 500 | <20 | 20 | 200 | 500 |
| 567 | Limestone breccia, iron-stained, porous---------- | 10 | 2 | .5 | 700 | 70 | <1 | 60 | 20 | 150 | <1 | 50 | 7 | <2 | 20 | <10 | <50 | 100 | 200 | <20 | <10 | <200 | 100 |
| 568 | Calcite vein, red-brown stain---------- | >20 | 1.5 | .5 | 100 | 700 | <1 | 80 | <10 | 150 | <1 | <5 | 7 | <2 | 20 | 15 | <50 | 200 | 15 | <20 | <10 | <200 | 10 |
| 568-A | Limestone breccia, red stain---------- | 15 | 3 | .7 | 1,000 | 150 | <1 | 80 | 70 | 50 | 1 | 30 | 5 | <2 | 20 | 10 | <50 | 200 | 30 | <20 | <10 | <200 | 50 |
| 569 | Skarn, quartz-rich---------- | 1 | .5 | .7 | 1,500 | 300 | <1 | 120 | 10 | 1,000 | <1 | 70 | 20 | 2 | 100 | <10 | <50 | 100 | 20 | <20 | 30 | <200 | 200 |
| 570 | Limestone breccia, red stain, calcite cement---------- | >20 | 1 | .5 | 1,000 | 70 | 1 | 20 | 10 | 70 | <1 | 30 | 7 | 2 | 30 | <10 | <50 | 200 | 70 | <20 | 10 | <200 | 150 |
| 571 | Calcite vein, white---------- | >20 | .5 | .15 | 200 | 100 | 1 | 40 | <10 | 100 | <1 | 10 | 50 | 15 | 10 | 100 | <50 | 1,000 | 70 | <20 | 15 | <200 | 10 |
| 575 | Iron-rich material, earthy, red-brown---------- | .7 | .3 | 5 | 1,500 | 70 | 2 | 60 | 100 | 500 | 15 | 50 | 20 | 3 | 70 | 150 | 1,000 | 20 | 200 | 500 | 100 | 500 | 200 |
| 575-B | Fracture filling, red-stained, calcareous---------- | 10 | .1 | 1.5 | 700 | 1,500 | <1 | 200 | 10 | >10,000 | 15 | 20 | 20 | <2 | 70 | 150 | 700 | 150 | 300 | 100 | 20 | 1,000 | 100 |
| 575-C | Iron-rich material, brownish-black, porous---------- | .3 | .15 | >20 | 300 | 700 | <1 | 1,600 | 50 | 500 | 100 | 30 | 70 | 15 | 150 | 200 | 3,000 | 20 | 300 | 700 | 100 | 2,000 | 150 |
| 575-D | Fracture filling, cherry red---------- | .2 | .03 | 2 | 1,500 | 50 | <1 | 120 | 30 | >10,000 | 10 | 15 | 20 | <2 | 30 | 70 | 500 | 200 | 150 | 300 | 30 | 200 | 150 |
| 576 | Fracture coating, red-------- | .7 | .2 | 2 | 1,500 | 50 | <1 | 80 | 50 | 700 | 2 | 30 | 30 | 10 | 50 | 50 | 300 | 50 | 700 | 70 | 15 | <200 | 150 |
| 577 | Breccia, yellow-stained, calcareous---------- | 7 | 1.5 | .5 | 1,000 | 100 | <1 | 40 | 20 | 500 | <1 | 30 | 15 | <2 | 15 | <10 | <50 | 100 | 50 | <20 | 10 | <200 | 70 |
| 577-B | Limestone, red-stained, siliceous---------- | 10 | 1 | .7 | 1,500 | 150 | 1 | 40 | 50 | 300 | <1 | 100 | 15 | <2 | 20 | 20 | <50 | 200 | 200 | <20 | 15 | <200 | 150 |
| 578 | Limestone, red-stained------- | >20 | .5 | .5 | 1,000 | 200 | <1 | 60 | 50 | 300 | <1 | 70 | 20 | <2 | 15 | <10 | <50 | 300 | 30 | <20 | 30 | <200 | 50 |
| 579 | Calcite, red-stained, in fractures---------- | >20 | .2 | .3 | 150 | 500 | <1 | 60 | <10 | 200 | <1 | 15 | 7 | <2 | 30 | <10 | <50 | 150 | 15 | <20 | <10 | <200 | 10 |
| 580 | Skarn, quartz-rich---------- | 1 | 2 | 1.5 | 2,000 | 500 | <1 | 60 | 10 | 1,000 | 1 | 500 | 50 | <2 | 200 | <10 | 200 | 200 | 70 | <20 | 10 | <200 | 150 |
| 581 | Calcite vein, red-stained---- | >20 | 1 | .5 | 50 | 300 | <1 | 400 | <10 | 30 | <1 | 5 | 2 | <2 | 5 | <10 | <50 | 500 | 10 | <20 | 10 | <200 | <10 |