

Table 9. Chemical and radiometric analyses of 18 rock samples from the Sheep Canyon area, Fall River County, South Dakota

| Sample Number | U ppm | eU % x 10 ⁻³ | As ppm | Cu ppm | Fe % | Mn ppm | pH | V % | Zn ppm | Remarks |
|---|-------|-------------------------|--------|--------|------|--------|-----|------|--------|---|
| 53-1556 | | | < 10 | 20 | 0.6 | < 50 | 6.8 | .15 | 50 | Underlying soil sample 53-1557 |
| 2846 | 2400 | 150 | 3000 | 100 | 49.0 | 200 | | | 50 | Goethite "buttons" 1" to 1 1/2" in diameter on joint face Carnotite on joint face. |
| 2847 | 50 | 7 | 1500 | 50 | 10.0 | 500 | | | 70 | Joint face, "micro-pahoehoe" surface |
| 2856 | 50 | 6 | 400 | 50 | 14.0 | 1000 | | .06 | 20 | Joint face, "micro-pahoehoe" surface near RR tracks. |
| <u>From adit wall, Sheep Canyon Claim</u> | | | | | | | | | | |
| 71 2848 | 8 | 2 | 40 | <20 | .1 | < 100 | | <.03 | <20 | White sandstone 24" thick. |
| 2849 | 450 | 29 | 600 | 50 | 8.4 | < 100 | | .15 | 50 | Contact between 53-2848 and 53-2850 |
| 2850 | 270 | 21 | 20 | 50 | 1.4 | < 100 | | .03 | <20 | Mudstone 3" thick, above 53-2849 |
| 2851 | 260 | 25 | 100 | 50 | 3.0 | < 100 | | .15 | 20 | Contact between 52-2850 and 53-2852 |
| 2852 | 20 | 4 | 20 | 50 | 0.1 | < 100 | | <.03 | <20 | Sandstone, white, iron-stained, 8" thick above 53-2851 |
| 2853 | 420 | 33 | 600 | 50 | 6.0 | < 100 | | | 50 | Contact between 53-3852 and an overlying mudstone. |
| 2854 | 440 | 32 | 30 | <20 | .5 | 100 | | .03 | <20 | Sandstone, white 36" thick above 53-2855 |
| 2855 | 900 | 86 | 400 | 100 | 8.5 | < 100 | | .06 | 50 | Contact between base of 53-2854 and an underlying mudstone |
| <u>Alongside and above railroad tracks, SW¹/₄ NE¹/₄ NE¹/₄ sec. 27, T8S, R3E</u> | | | | | | | | | | |
| 200 174 | 10 | 2 | | | | | | | | Sandstone, near top, overlying sample 200172. |
| 170 | | < 1 | | | | | | | | Sandstone, near base, overlying sample 200172. |
| 173 | 80 | 10 | | | | | | | | Contact zone, between samples 200172 and 200170. |
| 172 | 24 | 5 | | | | | | | | Mudstone, one foot thick, beneath sample 200170. |
| 171 | 28 | 3 | | | | | | | | Contact zone, between sample 200172 and underlying sandstone. |
| 175 | 83 | 12 | | | | | | | | Contact zone, between mudstone and sandstone, near sample 200173. |