

Table 9. Vermiculite deposits in the CRIDA area.

| Locality number (Plate II) | Distance (miles) | Location | | Name of deposit | Comments |
|----------------------------------|---------------------|-------------------|-------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Direction from | Town ¹ | | |
| LI-73 | 1.2 | N. 70° E. | LI | Smith | Explored by U. S. Bureau of Mines. Area of 55,600 square feet underlain by 3 to 32 feet of ore containing 9 to 46 percent vermiculite. Alluvium cover up to 10 feet. |
| LI-74 | 4.5 | N. 27° E. | LI | Bush | Explored by U. S. Bureau of Mines. Two deposits with combined area of 63,000 square feet underlain by 3 to 48 feet of ore containing 25 to 56 percent vermiculite. Cover of barren schist and alluvium up to 19 feet. A small quantity of ore was mined in 1938. Less than 25 percent of the 6,000 tons of ore mined in 1946 was recovered as a vermiculite concentrate, although the average vermiculite content of 828 feet of ore drilled by the U. S. Bureau of Mines was reported to be 43.2 percent. |
| LI-75 | 5.1 | N. 21° E. | LI | Dunlop Ranch | Small deposits containing about 20 percent vermiculite. |
| LI-76 | 5.1 | N. 15° E. | LI | Highway 16 | Explored by U. S. Bureau of Mines. Surface area about 140 feet wide and 300 to 400 feet long. Drill holes indicate ore thickness ranges from 4 to 42 feet and vermiculite content from 13 to 51 percent. |
| LI-77 | 5.1 | N. 11° E. | LI | Light Ranch | Vermiculite exposed at several localities west and northwest of LI-76. Deposit reported extensive. Samples contain up to 43.8 percent vermiculite. |
| LI-78 | 6.6 | N. 6° E. | LI | Fox Ranch | Small deposit containing about 20 percent vermiculite. |
| LI-79 | 7.9 | N. 3° E. | LI | Faris | Explored by U. S. Bureau of Mines. Two deposits with combined area of 12,300 square feet underlain by a maximum of 37.5 feet of ore containing 7 to 48 percent vermiculite. |
| LI-80 | 8.3 | N. 1° W. | LI | Faris | See entry for LI-79. |
| LI-81 | 10.2 | N. 3° E. | LI | ..... | Minor occurrence. |
| LI-82 | 9.7 | N. 13° E. | LI | ..... | Minor occurrence. |
| LI-83 | 11.0 | N. 20° E. | LI | ..... | Minor occurrence. |
| LI-84 | 8.7 | N. 40° E. | LI | ..... | Minor occurrence. |
| LI-85 | 5.7 | N. 48° E. | LI | ..... | Minor occurrence. |
| LI-86 | 11.3 | N. 34° W. | LI | ..... | Minor occurrence, fine grained. |
| LI-87 | 9.0 | N. 37° W. | LI | ..... | Minor occurrence, exceedingly fine grained. Ore contains about 10 percent vermiculite. |
| LI-88 | 12.8 | N. 50° W. | LI | ..... | Minor occurrence; irregular pockets and veinlets. |
| LI-89 | 16.9 | N. 59° W. | LI | ..... | Minor occurrence. Ore contains about 20 percent vermiculite. |
| LI-90 | 18.8 | N. 56° W. | LI | ..... | Minor occurrence. |
| LI-91 | 11.3 | S. 88° W. | LI | Roy Kothman | Few exposures of bedrock. Zone of vermiculite-bearing schist exposed in a road material pit. Other areas of soil similar to that above the vermiculite schist suggest additional deposits may be present. |
| LI-92 | 12.2 | N. 88° W. | LI | Vernon Otto | Band of vermiculite-bearing schist crosses road at angle of about 35°. Vermiculite is exposed in the drainage ditch for a distance of about 600 feet. The vermiculite resembles that from Bush deposits (LI-74) but does not expand as freely. |
| LI-93 | 12.6 | N. 85° W. | LI | Fritz Otto | Schist containing an average of 20 percent vermiculite is exposed in road-material pit. |
| LI-94 | 12.4 | S. 85° W. | LI | Kothman-Oestreich | Vermiculite content as great as 32.2 percent in surface samples. Soil cover prevents estimate of reserves. |
| LI-95 | 13.6 | S. 82° W. | LI | ..... | Several minor occurrences. Selected beds contain approximately 50 percent vermiculite. |
| LI-96 | 11.5 | S. 77° W. | LI | Jordan | Extent of deposit not determined because of soil cover. |
| LI-97 | 14.8 | S. 77° W. | LI | ..... | Minor occurrence, fine grained. |
| LI-98 | 11.7 | S. 74° W. | LI | ..... | Small, inferior deposit. |
| LI-99 | 14.4 | S. 68° W. | LI | ..... | Minor occurrence. |
| LI-100 | 8.6 | S. 14° W. | LI | Carl Moss | Veins and irregular masses of coarse-grained vermiculite in soapstone and serpentine. Vermiculite content of many veins is greater than 70 percent. This deposit is within the area covered by figure 20. |
| LI-101 | 12.1 | S. 3° W. | LI | Gregory | Explored by U.S. Bureau of Mines. Vermiculite occurs around and between boulder-like masses of soapstone in the cluster of soapstone deposits near the southeastern corner of the area covered by Plate IX. The content of commercially usable vermiculite is probably no greater than 15 percent. With a suitable milling process it may be possible to produce both a vermiculite concentrate and a good grade of talc from this deposit. |
| Bu-46 | 7.9 | S. 89° W. | Bu | Reed | Exposed in road cut and test pit. Reported to underlie flat valley 1 mile southeast of road cut. Vermiculite content ranges from 0 to near 100 percent in adjacent layers. |
| G-27 | 14.5 | N. 10° E. | Fr | Welgehausen | Vermiculite occurs in weathered hornblendite. Expanded flakes are less fragile than those from the Bush deposits. Reserves on the order of 1,500 cubic yards per foot of depth. Maximum depth is probably less than 30 feet. |
| G-28 | 19.0 | N. 56° E. | Fr | ..... | Minor occurrences associated with soapstone of the Big Branch area (Plate VII). |
| M-26 | 18.5 | N. 53° E. | Ma | ..... | Small deposit containing a few relatively rich layers in micaceous schist. |
| M-27 | 14.7 | N. 51° E. | Ma | ..... | Minor occurrence, fine grained. |
| M-28 | 3.5 | N. 75° E. | Ma | ..... | Minor occurrence. Thin, widely spaced layers containing up to 65 percent vermiculite. |
| M-29 | 6.8 | N. 47° E. | Ma | ..... | Minor occurrence in area of good bedrock exposures. Possibility of more promising deposits nearby. |
| M-30 | 13 | S. 88° E. | Ma | ..... | Numerous small layers and pockets of vermiculite, some coarse grained. |

¹ Bu = Burnet; Fr = Fredericksburg; LI = Llano; Ma = Mason.