SHEEP MOUNTAIN SECTION

Location: East flank of Centennial syncline Sec. 17, T 15 N., R. 72W.

Sundance:

Jelm:

Soft sandstone partly drift covered..... 150' +

No. 31 Red limestone conglomerate. Lithologically this member is identical in every respect with the limestone conglomerate developed in the Jelm and Red Mountain section. It was also found to contain bone fragment but nothing complete enough for identification. This bed shows the same characteristic thinning and thickening so common to the corresponding member in the southern part of the Laramie Quadrangle..... 10'

Chugwater:

No. 30 Analternating series of soft red shale and massive red sandstone, the whole being too poorly exposed for detailed measurements..... 1140'

Forelle:

No. 29 Wavy fossiliferous gray limestone..... 2'

No. 28 Soft deep red shale..... 4'

No. 27 Irregular wavy band of sandy material..... 1'

No. 26 Hard purplish gray ribbon limestone weathering to a silver gray..... 10' 2"

No. 25 Wavy gray limestone (gypferous?)..... 2' 6"

Satanka:

No. 24 Soft red shale and shaly sandstone. The lower 50' of this member is not well exposed. The drift covering

consists of disintergrated red shale..... 191'

Camel Rock:

No. 23 Resistant mottled brown, buff and gray sandstone. This member forms a prominent line of hogbacks along the west flank of Sheep Mountain. A characteristic feature of this sandstone is the presence of a net work of thin siliceous stringers similar in every respect to those found in similar sandstones in the Red Mountain and big Laramie River sections..... 25'

No. 22 Light green to buff joint shale. The green color is characteristic of the greater portion of the formation but it is replaced near the top by a buff sandy shale 125'

No. 21 Very soft deep red shale. Three thin irregular sandy layers, varying in color from red and green to gray, are present..... 42'

No. 20 Massive soft gray to buff sandstone. This is a very prominent member thruout the Sheep Mountain region. It is cross-bedded to a marked degree (eolian type). Gray predominates thruout the greater thickness. Buff and pink characterize the lower few feet..... 291'

No. 19 Soft maroon arkose and red sandstone, medium fine-grained arkose with some coarse bands composing 70% of the whole. Sandstone varied in color from red, pink and light brown to gray..... 86'

No. 18 Dark gray hard limestone, containing numerous veins of secondary calcite. Uniform in thickness. No fossils 16'

No. 17 Soft light red sandstone..... 8"

No. 16 Mottled gray and red sandy shale containing numerous limestone nodules..... 2' 8"

No. 15 Fine-grained variably colored sandstone: buff, pink and gray. Color irregularly distributed..... 2' 4"

No. 14 Soft deep red shale. A 6" layer of thinly laminated gray sandstone is present near the base. A large number occur thruout the upper portion..... 15' 8"

No. 13 Soft variably colored sandstone. This member presents very contrasting relationships, ranging from red thru pink to gray and white. Reds and pinks predominate with gray and white most prominent in the upper few feet..... 36' 6"

No. Medium-grained red arkose passing upward to a fine grained pink to purplish-gray arkose sand..... 29'

No. 12 Soft fine-grained variably colored sandstone. The dominant color is salmon pink which alternates with grays and whites. Some eolian cross-bedding..... 59' 6"

No. 11 Deep red fine-grained arkose sand..... 20'

No. 10 Hard thinly laminated salmon pink sandstone; large mud-cracks predominant. Color constant and uniform 17'

No. 9 Soft fine-grained salmon pink and gray (developed in upper third) arkose..... 13'

No. 8 Salmon pink sandstone, containing numerous spherical and irregular gray patches. Gray predominates in the upper three to four feet. Thin layers of quartz pebbles several times larger than the average grain of the rock give the bed a characteristic appearance 25' 8"

No. 7 Coarse deep red arkose containing pebbles up to 12-15 cm. in diameter. Finer grained and lighter colored material characterizes the upper few feet.. 21'10"

No. 6 Soft red sandstone. Upper 18" mottled with gray... 5'

No. 5 Irregular band of mottled red and gray sandstone intersected by numerous thin calcite stringers..... 18'

No. 4 Alternating bands of coarse arkose and soft deep-red shale, containing numerous limestone lenses of varying proportion. The shale and arkose are present in about equal amounts..... 57'10"

No. 3 Maroon to salmon-pink soft shale, the lighter color predominating in the upper portion. Small limestone nodules and lenses abound thruout the shale..... 22' 4"

No. 2 Soft pinkish gray to white fine-grained sandstones. 1' 8"

No. 1 Unexposed interval covered with fine red sand and white limestone pebbles..... 50'

Pre-Cambrian:

Coarse-grained pink Granite.