This has been 1956 Decycles appropriately see other appropriately 1956 PIOCHE HILLS EXPLANATION QTa Volcanic rocks. Chiefly Granite porphyry. Granodiorite Diabase. Dolomite and limestone Limestone carbonaceous limestone. Locally called Bristol limestone. Correlated with Swazey Imesto by wheeler (19.4.5) Sandstone or siltstone Limestone Limestone called Davidson Black limestone. Thickness 180-240 feet. Dolomite Limestone Chisholm shale Lyndon limestone Pioche shale Cpm Prospect Mountain quartzite it is the basal unit in the region. Contact, showing dip Dashed where approximately located Concealed contact ¥75 Fault, showing dip Dashed where approximately located Vertical fault Roushed where approximately located Concealed fault

Highland Peak limestone,

undifferentiated |

Dolomites and limestones

Middle Cambrian

Lower Cambrian

undifferentiated.

Alluvium and Panaca formation, undifferentiated Includes stream deposits, slope wash, talus, and the Panaca formation. Mostly unconsolidated.

Uppermost member of the Highland Peak mapped in the Pioche Hills. Light-gray, thin-bedded, finely-laminated and somewhat silty dolomite and limestone. Gray to blue-gray on fresh surfaces. Weathers to light gray. Locally called Badger dolomite. 110-175 feet thick.

Dark gray medium grained, mottled, thickly but distinctly bedded 345-430 feet thick.

Buff to reddish brown fine grained, thinly laminated dolomitic or limy sandstone or siltstone. Weathers into flat plates 2-6 inches across and 1-2 inches thick. Locally called Platy dolomite. Designated fonder member of across and 1-2 inches thick. Locally called Platy dolomite. Designated functions by wheeler 110-120 feet thick.

Dark blue massive limestone with white massive limestone beds at both top and bottom of the member. Locally is composed largely of dark colites that impart a mottled salt and pepper appearance to the rock. Locally called Newport limestone. Total thickness ± 625 feet.

Thin-bedded dark gray to black, fine-grained or medium-grained limestone. Shale partings common in lower beds. Limestone is lenticular and knotty. Weathered surface stained by spots of pink or red iron oxides. White calcite stringers abundant. Shale member 60 feet above base is fossiliferous. Locally

White to light pearl gray, coarsely crystalline thick-bedded to massive dolomite, commonly brecciated. Locally is fine-grained dense white limestone. Locally called Davidson dolomite. Thickness is 300-350 feet.

Dark blue-gray, thick bedded or massive limestone. Partly dolomitized, especially in the upper beds. Commonly brecciated and contains numerous white calcite stringers. The basal member of the Highland Peak formation. Locally called Davidson blue limestone. Thickness is 160-180 feet.

Dull olive green, tan to maroon, argillaceous and calcareous shales and limy shales to shaly limestones. Weathers drab brown. Paper thick layers contain well preserved trilobites and brachiopods in weathered material. Thickness 160-170 feet.

The uppermost member is dark blue-gray limestone about 30 feet thick. The middle member is a white or light gray dense crystalline limestone which averages 200 feet thick. The lower member is a dark gray massive bedded limestone 115 feet thick. Locally called Prince limestone.

Largely shales, locally with conspicuous mica. Elsewhere mica is absent. Contains beds of impure limestones and quartzites. Grades downward into Prospect Mountain quartzite. Dark gray, gray, greenish gray to brown on fresh surfaces. Commonly weathers brown. Limestones and several shale layers are fossiliferous. The lowest limestone member, locally called the Combined Metals bed, is the most productive ore horizon. Thickness of the Pioche shale ranges from 855-920 feet.

Alternating beds of shale and quartzite in upper part. Grades downward into massive glassy to white pure quartzite, probably 1000 to 1500 feet thick. The lowest known members consist of brownish to reddishbrown shales and quartzite. Total thickness is unknown because

120

Strike and dip of beds

Dike

Shaft at surface

Portal of adit

Prospect

Doublful of probable fault