

PAY ROLL GROUP*(Negro)*

The Pay Roll group is situated on Nigger creek, a small south-flowing tributary of the Moyie river. The property is reached by following the logging-road from Lumberton to the upper Moyie River valley for a distance of about $3\frac{1}{2}$ miles and thence by an abandoned road (now a trail) for half-a-mile to the workings.

The claims are situated in an area of low but rugged relief. Massive grey quartzites underlie the area and outcrop profusely in small bluffs and irregularities in the land surface.

The various showings are best exposed in the workings. The showings consist of several quartz veins slightly mineralized with pyrite and chalcopyrite and reported to carry some values in gold. The quartz is white to watery and more or less stained with brown iron oxides.

The most northerly working is an adit driven to explore a narrow quartz vein 70 feet below the outcrop. The vein, two to three inches wide, strike 111 degrees, dip 65 degrees south, outcrops at intervals for about 100 feet along a rock-bench. The adit, 85 feet westerly and 70 feet below the outcrop, is driven 20 feet in a direction of 67 degrees to intersect the vein which it then follows for 63.5 feet in a direction of 111 degrees. The vein as exposed in this working varies from 8 to 10 inches in width. About 15 feet beyond the bend in the working a small split goes off to the east, paralleling the main vein 1 foot to the north. It is merely a stringer. At 40 feet beyond the bend the vein splits,

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the main vein continuing as a narrow stringer to the face, the southerly branch, about 2 inches wide, entering the south wall of the working 15 feet beyond the split. The vein cuts quartzites almost flat-lying or dipping slightly to the north. It occupies a well-defined fracture and is composed of watery, iron-stained quartz, slightly mineralized with pyrite and chalcopyrite.

Going southerly from this adit the next working is a shaft 105 feet distant in a direction of 156 degrees from the portal. This working was not examined but some white, watery quartz containing black tourmaline was found lying about it. This shaft is partially described in the British Columbia Minister of Mines Report for 1933.

Six hundred feet in a direction of 175 degrees from the shaft is an adit driven 16 feet in a direction of 95 degrees on a quartz-filled fracture. The quartz filling is 3 to 6 inches wide and the veinlet cuts dark grey argillaceous quartzites intruded by an irregular aplitic (?) sheet immediately above the working.

Two hundred and ten feet distant in a direction of 161 degrees is a third adit (elevation 3,600 feet), driven 49 feet in a direction of 82 degrees, then 39.5 feet at 114 degrees with a short, irregular working and raise beyond, and a drift 20 feet in a direction of 30 degrees from this point. The irregular working and drift expose a sheared zone about 4 feet wide, strike 30

degrees, dip 45 degrees south-east. There is some quartz in the sheared zone. This level passes through a greenstone dyke a little over 30 feet wide along the west side of the shear zone. The dyke cuts almost flat-lying quartzites.

Almost due east from the portal of this adit, 25 feet distant and 37 feet higher is a fourth working. It is an adit 30 feet long driven in a direction of 15 degrees in fractured, rusty, weathered rock. It is partly caved. Two feet of white, rusty quartz, strike 80 degrees, dip low south, is exposed at the portal. A little pyrite was noticed in the quartz.

One hundred feet in a direction of 150 degrees from the third adit is a fifth adit (elevation 3,637 feet), caved 10 feet in from the portal. Four to 6 feet of quartz, strike 80 degrees, dip 23 degrees south, is exposed at the portal. It is apparently the same quartz vein exposed at the fourth adit but it does not appear to show marked continuity.

Sixty feet distant in a direction of 194 degrees from the portal of the fifth adit is the sixth and last working near a small pond. This adit (elevation 3,520 feet) is driven in a direction of 43 degrees for 91 feet. The greenstone dyke exposed in the third adit outcrops at the portal and is exposed for 20 feet along the working. It strikes 10 degrees, dip vertical, and is 30 feet wide. It cuts almost flat-lying to gently easterly dipping quartzite. At 91 feet the working is continued in a

direction of 49 degrees for 100 feet, then 125 degrees for 55 feet. At this point workings are driven 86 degrees for 40.5 feet and 14 degrees for 46 feet. The latter is along a fault dipping 38 degrees east which is evidently the same one exposed in the third and fourth adits.

The fault evidently has a small downthrow on the hanging-wall side, for in the third adit the width of the greenstone is slightly increased.

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