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~~104B-50~~ANNUAL REPORT OF THE MINISTER OF MINES
FOR 1936.~~104B-50~~
PF 104B 095Part B -- Special Report
by

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PAY ROLL - This property consisting of the two crown-granted claims, Pay Roll No. 3 (lot 5524) and Pay Roll No. 4 (lot No. 5525) is owned by R. W. Irwin, Ketchikan, Alaska. It is situated in the Portland Canal Mining Division on the Big Missouri ridge, around 2200 to 2750 feet in elevation and about $\frac{1}{2}$ mile south of No Name lake. The claims are adjoined on the north by the Silver Coin group, on the east by the Silver Cup group, on the south by the Indian group and on the west by the Boundary group. The property is reached by the Premier-Missouri motor-road from seaboard at the village of Stewart to the Big Missouri camp at elevation 2900 feet, a distance of $17\frac{1}{2}$ miles. From this place a trail extends south for about 2 miles to the claims, along the comparatively level but rock-knolled, ridged, gullied and locally swampy southern end of the Missouri ridge-crest.

The topography of the locality is not so roughly rugged as that which characterizes the higher mountainous sections of the Portland canal area. The deep canyon of Myrtle creek which cuts through the north-east corner of Pay Roll No. 4 claim is quite rugged and rough and east of this Pay Roll No. 4 embraces the upper portion of the Westerly side of the ridge sloping between 30 and 40 degrees to the Salmon River glacier. Pay Roll No. 3 claim, adjoining Pay Roll No. 4 on the east embraces the knolled and gullied crest of the ridge of about 2750 feet general elevation in this locality.

The locality is situated in the eastern contact-belt of the Coast Range granodiorite batholith and the claims are about $1\frac{1}{2}$ miles east of the main contact. The claims are underlain by an irregular complex of volcanic breccia and tuff, locally argillaceous, and greenstone of the Bear River formation (Hazelton group), intrusive into which are granitic and lamprophyre dykes. No work has been done on this property for several years.

The open-cuts on the siliceous-zone on the Missing Link Fraction described under the heading of the Boundary group approach to within 50 feet of Pay Roll No. 4 west boundary. The southerly projection of this zone should cut through the south-west corner of Pay Roll No. 4 claim. In this locality, at 2200 feet elevation, two very old trenches in clay about 3 feet

deep and 20 feet long, on a flat bench of the steep west slope of the ridge expose severely oxidized rock containing locally heavy pyrite mineralization in a siliceous gangue. These trenches are badly caved and heavily overgrown with underbrush which obscures the width, attitude and mineral distribution of any mineralized structure which may occur here. This mineralization is about 150 feet east of the outcrop-projection of the Boundary group zone and unless this zone has been offset to the east represents a possible parallel zone. Further prospecting in this locality would be constructive. At elevation 2400 feet, about 1000 feet north of these trenches and at the edge of Myrtle Creek canyon an open-cut in tuffs exposes a width of 4 feet of quartz stringers and quartzose rock well-mineralized in one section across 2 feet with pyrite, galena and sphalerite. This vein strikes north 32 degrees west and dips 50 degrees north-easterly and a few feet north of the cut a crosscut-adit has been driven for 25 feet. This exposes silicified rock and irregular quartz patches across 12 feet, well-mineralized with pyrite, galena and sphalerite on the hangingwall-side. The rock-formation on the foot-wall of this vein is argillaceous tuff and on the hanging-wall is an acidic dyke.

About 1000 feet east on the crest of the ridge at elevation 2850 feet, approximately 1200 feet south of No Name lake, on the Pay Roll No. 3 claim, about 250 feet east of the south-east corner-post of the Silver Coin Fraction a well-defined siliceous-zone in tuffs outcrops prominently along the crest of a north-south ridge. This zone strikes north-easterly and can be traced southerly by natural outcrop from the Silver Coin Fraction boundary for about 500 feet where silicification disperses in a series of quartz stringers. To the north it can be traced along a continuous outcrop for about 500 feet in Silver Coin Fraction ground and disperses in a series of quartz veins, stringers and offset lenses. The zone is 10 to over 20 feet wide and composed of reticulated white quartz masses, stringers and veins and silicified tuff. Locally, quartz lenses "en echelon" to the main zone and connected with it by quartz veinlets and stringers appreciably extend the width of the zone. Several open-cuts and "pop-shots" along the outcrop expose white quartz generally very sparsely mineralized with blebs and streaks of pyrite with occasional specks and small blebs of sphalerite and galena.

This zone extending from Pay Roll No. 3 claim into the Silver Coin Fraction is easily accessible from the Missouri road.

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