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1409 Front St.,  
Nelson, B.C.,  
March 31st 1982.

King Jack 82F/14W

82FNW/136  
135

A. Sutherland Brown, Ph.D., P.Eng.,  
Chief Geologist,  
Ministry of Energy, Mines and  
Petroleum Resources,

Victoria, B.C.

Dear Sir;

Herewith return of forms as requested along with a small report on the properties.

82F/11W The "King Jack" group consists of small quartz veins with very erratic values. The veins in the King-Jack have been drifted on and stoped to a point where they become very narrow and sheared completely disappearing at the face of the drift. I have not been able to obtain the values quoted in the reports. No attempt has been made to sink on the vein as yet and once I get the adit timbered and the backfill secured with new stulls I will pull at least 1 round on the face and sink a few feet on the widest point of the vein in the footwall. The Joan-Duplex adit has yielded minor fluorescence of scheelite and calcite and I believe I can follow the downward strike of this vein to its contact with a small patch of limestone exposed on the road. This likely will be the future plan for this property.

82F/111 The "Monument" is another story. I have traced the vein for over 5000 feet. From the original Monument (lot 5011) now the No 5 to Station 1. In the original adit on the Monument scheelite is exposed in the vein and samples from the dump run as high as 40 oz. silver. This is accessible only by a rather steep climb from the Monument creek road and has not been examined by any qualified person as yet. I will have to limit my work to the area around pit 1 as shown on the sketch. The Copco was not too good account dust and fumes and therefore last year I cleaned out the cat trail on order that I can take a compressor and air into this area and place some solid cuts on the vein at this point to try and prove up at least 1200 feet of good grade scheelite. I am now mounting a 250 CFM compressor on a ex army 6x6 with a 5 HP slusher on the front end so hopefully I can make some progress this year. The only catch being I have to use my own money and how far this will go will govern the amount of work done

Some majors Can-ex, Amax, Union Carbide and several others have looked at the property over the past years but it is not exposing the quantity of ore they desire as yet. The only other ones are several of the "fast-boys" looking for a quick promotion. I expect several Companies to make examinations this coming year. David Minerals, possibly Mentor or at least Ed Lawrence on their behalf as well as a few others who are over due from last year. The season is quite short June-October.

Hope this is what you are looking for.

yours truly



PROPERTY FILE

42F/11W (m)

KING JACK MINING CLAIMS—HELD BY R.M. MACKENZIE, 1409 FRONT ST. NELSON, B.C. 1975. THIS GROUP ALSO INCLUDES THE DUPLEX AND SEVERAL OTHER WORKINGS. THIS REPORT FROM THE 1922 M.M. PAGE 203.

**King Jack Group.**

This group, comprising the *Jack* and *King George* claims on the First North fork of Lemon creek, was acquired by the King Jack Mining Company, incorporated under the laws of the State of Washington, and of which W. F. van Vactor is secretary-treasurer. The outlet to the property is by trail for about 2 miles to the old *Chapleau* mill and thence by road for five miles to the Canadian Pacific Railway tracks at Lemon Creek Siding.

The *King Jack* claim is situated on the north side and near the headwaters of the First North fork. The area is underlain by granite, in which the vein on the *King Jack* strikes in an easterly and westerly direction, dipping at an angle of about 30° to the north. It has been traced by small open-cuts and shallow workings for nearly 2,000 feet. The principal work done consists of an adit run in an easterly direction along the strike of the vein for 242 feet. Here the vein shows a width of about 12 inches of iron-stained quartz carrying specks and small streaks of silver-sulphide minerals. The best values are found where the quartz shows a banded structure and where there is evidence of cross-fracturing.

A small shoot of ore has been stoped to a height of about 50 feet on the dip. At the face of this stope the ore had a tendency to pinch out and did not represent a good mining width, the average width of the vein being 12 inches. A sample knocked down at frequent intervals along the vein over a length of 21 feet assayed as follows: Gold, 0.42 oz.; silver, 35.4 oz. This was taken opposite the stoped ground and probably is representative of the best grade of ore at this point.

It is the intention of the company to continue this drift with the object of intersecting the downward continuation of an ore-shoot said to be developed by a short tunnel and shaft at a point considerably higher up the hill. These workings being in a caved condition could not be examined.

Other showings which are possibly on the same vein may be seen at the *Duplex* claim belonging to R. Cooper, of Slocan City. Here the vein shows a width of about 2 feet of iron-stained quartz. It has been drifted on for about 168 feet. A composite sample from three separate channel cuts across a width of 2 feet at the end of this drift ran: Gold, 0.06 oz.; silver, 3.7 oz. Several other samples taken along this drift gave similar values. The vein is persistent in strike and well defined and would appear to justify more development, as better values might come in at any time.

A sample of crushed quartz taken from a 20-foot tunnel driven into the bank of the creek some distance below the *King Jack* workings gave the following values: Gold, 1.66 oz.; silver, 18.3 oz. to the ton.

This tunnel is in badly broken ground and gains little depth. An interesting feature was the appearance of a basic dyke in the face. More prospecting is necessary at this point before an opinion can be formed as to the possibilities.

The summer's work consisted mostly of packing in supplies over the summit from Springer creek and building a cabin in preparation for the winter. Time was also spent on road and trail repairs to the Lemon Creek route. According to latest reports they are now operating a 2-stamp mill, which was installed during the latter part of the year. About nine men were employed.

The operations of this company will be observed with interest, for if successful they will have an important bearing on near-by claims and will help to stimulate mining in the Lemon Creek area.

PROPERTY FILE

*Joan (Duplex) (173)*

References: Minister of Mines, B.C., Ann. Repts.: 1901, p. 1028; 1902, p. 151; 1904, p. 168; 1922, p. 204; 1947, p. 173.

The Joan claim, formerly known as the Duplex, lies about half a mile north-east of the junction of Chapleau Creek and the third tributary east of Cameronian Creek. It adjoins the Fourth of July No. 6 and Teuro Crown-granted claims on the south. In 1950 ownership was held by W. Parker of New Westminster, B.C., by virtue of assessment.

The Duplex claim, staked prior to 1901, was worked under lease in that year and in 1902. Six tons of ore was shipped, containing 520 ounces silver and 7 ounces gold. The value of this ore was much greater than that estimated from samples collected by the resident mining engineer in 1922. These assayed 0.06 ounce gold and 3.7 ounces silver a ton.

The property appears to have been idle until 1946, when W. Parker and H. Parker mined 4 tons of ore from the Joan claim, as it was then named. This ore, shipped in 1947, yielded 121 ounces silver and 1 ounce gold.

The property was examined in 1950 by A. B. Irwin of the Geological Survey.

The workings consist of two adits, the lower by aneroid barometer being at an elevation of about 5,750 feet and the upper some 44 feet higher. About 50 feet from the portal of the lower tunnel a raise has been driven up the vein to the surface (see Figure 15).

The property is underlain by porphyritic Nelson granite that is sheared and fractured near the vein. The vein is encountered in the lower tunnel about 25 feet from the portal where it enters the right wall. From this point it is followed in the drift for a distance of about 140 feet to a narrow fault near the face. Along the drift the vein is offset by three small faults with slight left-hand displacements. These strike roughly north and dip 70° to 80°W. The vein strikes N40° to 50°W and dips 30° to 40°NE. It is 1 foot to 2 feet wide on both levels.

The vein matter is quartz that in many places shows coarse crystal faces; no carbonates were observed. Narrow streaks and disseminations of galena occur in the vein together with a little pyrite and argentite.

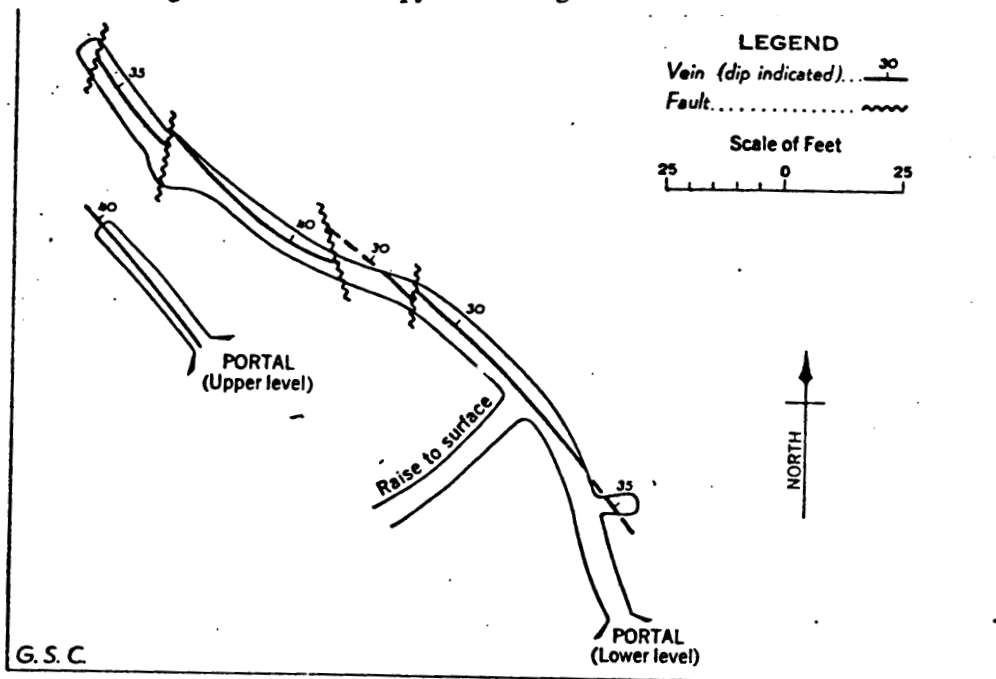


Figure 15. Plan of workings on Joan (Duplex) property (geology by A. B. Irwin, 1950).