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Nelson, B. C.

Dec. 11th, 1951.

PRELIMINARY REPORT ON THE IVA FERN PROPERTY

TYE, B. C.

by R. P. Jordan, B. Sc.

Summary and Conclusions

Ownership: Standard L. 12658 under option to purchase by Miners Western Ltd., Excelsior L.12657, Black Cap L.12654 owned by Ester Weaver of Vancouver, B.C. Option being negotiated by Miners Western Ltd. Fern L.12656, Iva L.12655, Jewel L.12653, Gem L.12652 owned by Nick Morris of Nelson. Option being negotiated by Miners Western Ltd.

Location: Seven miles west of Tye siding, on the north slope of Cultus Creek. Accessible from Tye by six miles of fair truck road and four miles trail. Rail distance from Tye to Nelson 46.4 miles.

Description: Two parallel quartz carbonate filled fissure type veins striking north-south, dipping vertically, occur in steeply tilted metamorphosed sediments. No.2 vein traced by trenching and drifting for 2000 feet. No.1 vein traced for at least 210 feet. Ore mineralization PbS, ZnS, CP. Vein widths reported up to 6 feet. Ore is reported to be confined to relatively short, northerly raking ore shoots.

Conclusions and Recommendations: This property merits at least a thorough examination. Examination should include complete mapping and sampling of surface and underground workings and exposures, and cleaning out of important surface trenches. Crew should include two or three labourers, engineer and Mr. Mulholland. Estimated cost of examination \$2500 to \$3000.

## IVA FERN MINE

Introduction: the descriptions included in this report are mainly based on annual reports of the B. C. Minister of Mines. An attempt was made to visit the property during the last week of October of this year, but due to deep snow conditions it was impossible to get over the last mile of trail.

Location: The Iva Fern property is located on the north slope of Cultus creek, eight miles west of Tye siding. The mine workings are at an elevation of 5400' and are located near the summit of the ridge lying between Cultus Creek and the North fork of Cultus Creek. The mine is connected by a four mile trail to a point on the Tye-Bayonne road six miles from Tye. The road is in good condition but the trail would require several days work before it would be passable for pack horses.

Mr. Jack Mulholland, the former owner, states that the C.M.& S. ran a road survey from a point on the Tye-Bayonne road at the junction of Cultus creek and the North Fork, directly to the mine. This route would entail four to five miles of road building. It does not appear that there would be a great deal of rock work required.

A good mill, site is available directly below the mine on a gently sloping bench on the north side of Cultus Creek. No more than a mile of road would be required to connect such a mill with the Tye-Bayonne road.

Claims and Title: the Iva Fern consists of a group of seven crown granted claims: The Excelsior L.12657, Standard L.12658, Fern L.12656, Iva L.12655, Black Cap L.12654, Jewel L.12653, and Gem L.12652. The Standard claim owned by Jack Mulholland of Nelson, B.C. is under option by MinersWestern Ltd. The Excelsior and Black Cap are owned by Ester Weaver of 1330 Georgia St., Vancouver, and the Iva, Fern, Jewel and Gem are owned by Nick Morris of Nelson, B. C. Negotiations to option these six claims are being undertaken by Miners Western Ltd.

History: this group of seven claims was staked by Jack Mulholland and during the first world war. In 1917 the property was bonded by the C.M. & S. company who did considerable surface stripping and trenching and drove 250' of crosscut tunnel to intersect the No. 1 vein. The property was dropped in 1919 before the tunnel reached its objective. In 1923 Standard Silver Lead took an option and continued the cross cut tunnel to intersect the No. 1 Vein and drifted north along the vein for 120'. Work was discontinued in 1923. The property lay idle until 1928 when the Iva Fern Mines Ltd. was formed and the C.M. & S. took a development bond. During 1929 and 1930 a large amount of trenching and 1400' of underground done, including a 125' winze.

After 1930 the property reverted to its former owner and no work has been done since. Mr. Mulholland retained the Standard claim and the remainder of the claims were picked up at tax sale by Mr. Weaver and Mr. Morris.

Production: no production has been recorded with the exception of a three ton test shipment made in 1919. This ore ran 0.04 ozs. Au, 4.2 ozs. Ag, 3.5% Cu, 26% Pb, 9% Zn.

Description: A description of the surface showings and underground workings is included in the Annual Report of the B. C. Minister of Mines for 1928, a copy of which is attached.

Briefly, two parallel north-south striking veins Nos. 1 and 2, occur in steeply tilted metamorphosed sediments. Vein dip is vertical. No. 1 vein has been traced by surface trenching and underground workings over a length of 2000'. The No. 2 vein has been traced for at least 210'. Reported vein widths vary from 2' to 6' on surface and in the No. 1. tunnel and drift, widths up to 4' are reported. The vein filling is quartz and carbonate with PbS, ZnS and Cp mineralization.

Mr. Mulholland states that the ore occurs in short northerly raking shoots. There is nothing in the Minister of Mines reports to substantiate this. C.M. & S. in their underground work failed to find the downward continuation of the best surface showing in their No. 1 level.



Following is a list of assays tabulated from the  
Minister of Mines Reports 1917 to 1930:

<u>Width</u>	<u>Au ozs/T</u>	<u>Ag ozs/T</u>	<u>Pb%</u>	<u>Zn%</u>	<u>Cu%</u>	<u>Location</u>
6.0'	Tr	3.5	5.0			not known
2.5'	0.02	3.4	22.0			"
2.0'	Tr.	1.8	10.0			"
3 Tons	0.04	4.2	26.0	9.0	3.5	10' shaft No. 2 vein at summit
6.0'	0.02	4.2	35.0	4.0		20' shaft No. 1 vein
4.0'		2.9	11.5	8.2	N	No. 1 L. Drift 100' north of X-cut
4.0'		2.5	5.9	15.0		No. 1 L. drift 120' north of X-cut

Conclusions and Recommendations: This property merits at least a thorough examination. Examination should include complete mapping and sampling of surface and underground workings and exposures, and cleaning out of important surface trenches. The crew should include two or three labourers, an engineer. The presence of Mr. Mulholland as a guide would also be advisable. Estimated cost of this examination would be \$2500 to \$3000.

As the property is on an exposed southern slope it is possible that a crew could be sent in during late May or early June. The initial examination should be finished by the end of June.

"R. P. Jordan"

"J.M."