

Mr. H.E. Jacques, President, Anchor Mines Ltd. (N.P.L.), 1111 - 409 Granville St., Vancouver, 2, B.C.

Dear Mr. Jacques:

I submit herewith for your consideration a report concerning your company's gold-silverlead-zinc-antimony property situated in the Manson Creek area, Omineca Mining Division, in north-central British Columbia, together with my recommendations and cost estimates concerning future exploration.

Yours truly,

BACON & CROWHURST LTD.

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J.J. Crowhurst, P.Eng.

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ANCHOR MINES LTD. (N.P.L.)

MANSON CREEK AREA OMINECA MINING DIVISION BRITISH COLUMBIA

by

J.J. CROWINDRST, P.Eng.

Vencouver, B.C.

February 26th, 1969.

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CERTIFICATE OF QUALIFICATIONS

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|-----|--|--------|--------|
| (Ъ) | Plan of 4300 level, No. 1 Zone, showing chip cample assays | 1.00 2 | » 50° |
| (c) | Surface plan of No. 3 zona | 1.63 5 | = 50° |
| (d) | North vertical section of No. 3 zone | L ** z | » 50° |
| (e) | South vertical section of No. 3 sone | 1 | - 501 |
| (£) | Surface plan of No. 4B zone | 1 89 0 | • 100* |
| (g) | North vertical section of No. 4B zone | J | · 501 |
| (h) | Sections 49,900 N to 50,300 N inclusive | 1.00 0 | - 501 |

1968 DIAMOND DRILL PROGRAM

INTRODUCTION

During the fall of 1968 a program of diamond drilling was carried out at the Takla Silver Mine, totalling 6,268 feet, 1881* underground and 4387* on the surface.

The program was primarily designed to investigate the No. 1 Zone which, on surface, assayed 0.13 oz. Au and 23.4 oz. Ag across 7.0' for a strike length of 255'. The relationship between the vain on surface and the mineral occurrences in the underground workings was not certain and had to be determined before intelligent planning could be carried out.

Systematic drilling on 50° sections was done from the adit, for 200 feat along strike, and showed that the principal mineral zone dipped steeply to the east while the host rocks, feldspar porphyry dyke and the associated fault zone dipped about 60° to the west.

GEOLOGY

The principal rocks are limestone, argillaceous limestone, graphitic schists, phyllites and argillites intruded by continuous, though narrow, foldspar porphyry dykes. Minerals present in the No. 1 orebody are sphalerite, pyrite, galena, areenopyrite, stibuite and jamesonito, all associated with quartz and carbonate stringers. Andorite, freibergite and native silver and gold have been recognized by earlier workers. The No. 1 Zone vein varies from a few inches up to about ten feet in true width. Host rocks in the vicinity of the mine workings are massive, light to medium grey, impure, massive limestone, with minor amounts of argillaceous material. The portal area is underlain by graphitic argillaceous schist. A northwesterly-plunging enticline of these schists appears to underlie the mineral area and most probably causes some major changes in depth to the principal veins. To generalize, one may say that veins that have good widths in limestone tend to pinch out in the less competent fissile schists. On the other hand, veins passing through massive host rocks, that may measure only a few inches in width, often are appreciably wider immediately upon entering a less massive host rock.

The graphitic schist anticline outcrops at surface on Section 499000 but is only encountered at depth for the next 400° to the north. The axis of the anticline plunges at about 45° to the north for 300° and then begins to rise again on Section 50300N.

The major fault that is associated with the principal feldspar porphyry dyke has been observed in the No. 1 crosscut east in the underground workings and in numerous diamond drill holes. The fault appears to dip steeply to the west, conformable with the formations. It is undoubtedly a normal fault, displacing the No. 1 mineral vein about 60° vertically.

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DRILLING RESULTS

Drilling has undoubtedly proved the continuity of the No. 1 mineral zone in depth. As in many cases of drilling for silverbearing veins, core recovery was a problem. Consequently, it is felt that many of the mineral intersections gave unreliable assay results. In almost all holes drill water was lost with associated loss of fine mineral. This is especially true of underground down holes which entered the expected location of the vein in the fault area.

Following are drill hole intersections of current holes and pertinent Bralorne holes. (Holes which were drilled into the fault area and others are shown on the accompanying sections.)

| Erill Hole | Section | Angle | Oz. Au | Oz. Ag | Width | Z Recovery |
|-------------|---------|-------|--------|--------|-------|------------|
| 68-DG-19 | 499001 | +43* | 0,10 | 21.0 | 1.70 | 100% |
| 68-06-21 | 11 | -450 | 0.11 | 14.8 | 7.01 | 60% |
| 68-UG-16 | 69950M | +400 | 0,06 | 6.0 | 2.2* | 100% |
| 68-UG-12 | SCOCOR | +450 | 0.03 | 4.1 | 1.10 | 70% |
| \$\$ | \$8 | | 0.03 | 6.7 | 3.01 | Rubble |
| 68-UC-10 | SCOSCH | *420 | 0.01 | 4.7 | 5.0* | 1002 |
| 68-UG-4 | 501000 | 00 | 0.01 | 7.3 | 1.01 | 90% |
| 68-UG-5 | 11 | ~30° | | 3.8 | 7.0" | Gouge |
| 61 | 88 | | 0.04 | 28.6 | 3.50 | 90% |
| 68-S-9 | 25 | ~60° | 44 | 23.4 | 4.00 | 80% |
| \$ } | ¥8 | | | 4.2 | 14.0* | 50% |
| 68-S-3 | 501500 | -350 | 0.03 | 7.1 | 11.04 | 70% |
| 9.8 | 10 | | 0.02 | 2.5 | 3.01 | 100% |
| 68. S. 4 | 50200N | -350 | 0.07 | 5.8 | 3.61 | 30% |
| 68-8-5 | 8.0 | -600 | 0.02 | 4.4 | 6.5* | 5% |
| 68-5-11A | 50000N | -680 | 0.01 | 3.2 | 5.0* | 90% |
| 44 | 88 | | 0.02 | 2.1 | 5.0* | 80% |
| 68-5-9 | 50100N | ~600 | 0.004 | 4.23 | 14.00 | 50% |
| | | | | | | |

| Drill Holo | | 6 | Section | Amala | Oz. Au | DE. Ag | Madth | Z Recovery | |
|------------|----------|----|---------|-------|--------|--------|--|------------|--|
| | Bralorne | 33 | 50100 | -750 | 0.38 | 13.8 | 1.0" | 80% | |
| | 94 | | 50100 | | 0.12 | 16.6 | 5.01 | 80% | |
| | ត្ថ័ន | | 84 | | 0.15 | 8.0 | 1.01 | 100% | |
| | 88 | | 11 | | 0.07 | 8.9 | 2.01 | 100% | |
| | 84 | | \$7 | | 0.06 | 26.3 | 3.0* | 50% | |
| | 1.0 | | 2 ¥ | | 0.10 | 10.1 | 2.01 | 75% | |
| | 49 | | ท | | 0.10 | 26.7 | 2.0* | 25% | |
| | Dralorno | 2 | 9.0 | *38° | 0.12 | 21.3 | 1.5" | 1.5% | |
| | 41 | | 12 | | 0.28 | 251.9 | 2.5* | 65% | |
| | 12 | | 98 | | 0.03 | 39.3 | 0.51 | 100% | |
| | Bralorna | 3 | 50200 | •360 | 0.06 | 2.8 | 1.0" | 50% | |
| | | | | | | | CARGON TO IN CARGON AND AND AND AND AND AND AND AND AND AN | | |

The following surface holes were drilled this year: <u>Drill Hole</u> 68-51 was drilled due west at -45° for 380'. The object was to check for a southward extension of the No. 1 vein. The hole passed 80' south of the main portal. Two feldspar porphyry dykes were intersected, as was the No. 1 vein structure at 70'. The principal rock here is the unfavourable graphite schist.

<u>Drill Hole 68-52</u> paralleled 68-51 300 feet to the south of the latter. Results were similar to 68-51 and confirmed the belief that possibilities of finding commercial ore in a host rock of graphite schist are poor. Minor pyrite at 97* was interpreted as being the structure.

Drill Hole 68-58 was drilled on the No. 3 zone for 554^{*}. Dip of the minoralized zone was uncertain and this hole indicated that it is very steeply to the southwest. No mineralization was intersected in the hole as it passed beneath the zone of interest. The rocks intersected were limestone, argillaceous limestone, and tuffs with minor feldspar porphyry dykes. します いいの ちかんないない たいないないないない

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The accompanying surface geology plan shows that north of the area of recent emploration are four old <u>Bralorne</u> diamond drill holes as follows:

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| WELLS HOLE | Vern Interacted |
|------------------|---|
| D.H. 5 6 6 | Ten feet of "indicated ore" - 2.7' recovered - no assay. 17' of "indicated ore" - 5.5' recovered - no assay. 3' of 6.2 oz. Az - 2.0' recovered. |
| 9 | No core 289'-299' - probable location of vein. 1.5' of 8.7 oz. Ag. 0.19 Au. 2.1% Pb - 100% recovery. |

This drilling, though inconclusive, appears to indicate that the No. 1 vein zone continues for at least 500° north of the northernmost of the principal surface showings. On the basis of surface and underground evidence to date, strike length of 1200° is indicated.

<u>Samples</u> Chip samples were taken from the No. 1 vein in the underground workings as follows:

| WEREN HERE | <u>92. 35</u> | Oz. Au | Location |
|------------|---------------|--------|------------------------------|
| 1.5* | 197.0 | 0.13 | Back, at face of Drift N. |
| 1.5 | 48.8 | 0,10 | " 10" south of face. |
| 2.2* | 14.9 | 0.07 | 20 |
| 2.01 | 15.5 | 0.05 | 30 |
| 1.51 | 30.2 | 0.06 | 40 |
| 2.01 | 15.8 | 0.19 | Both walls, vein in XC East. |
| 1.75" AVG. | 48.6 (uncut) | 0,10 | |
| 1.75' Avg. | 27.5 (cut) | 0.10 | |

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This grade is believed to be more realistic than the grade obtained from drill holes.

A 300 pound bulk cample of mineralized vein material was taken from underground and surface exposures for metallurgical testing.

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NO. 3 20115

A study of previous results shows the following:

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| | The second second second | | 903P | | |
|----|--------------------------|---|----------------|------------|---------------------|
| | Grade | | <u>Oz.Au</u> | ORAS | <u>7</u> 20 |
| 1. | area of min. on N | Section - 60'm180' = 10,800 sq.ft. | 0.11 | 1.14 | 1.29 |
| 20 | 48 84 88 49 53 | and an ante the day was de the day of the | 0.07 | 3,00 | 05+ |
| 3. | 88 82 88 88 (j) | urface - 65'x350' = 22,700 sq.ft. | 0.05 | 2.10 | 1.70 |
| | | Weighted average of grade | 0.07 | 1.84 | 1,52 |
| 1. | Assays on north s | ection based on following: | | | |
| | D.D.H. | Length of Intersection | | | |
| | Bralorno 27 | 450 | 0.08 | 1.34 | 410 |
| | " 30 | 175" | 0.11 | 0.38 | 1.32 |
| | " 28 | 170* | | 1.13 | 1.00 |
| | ** 21 | 50" | | 1.10 - | |
| | | 91 | 0.01 | dp | 17.05 |
| | PS 44 | 190* | 0.15 | 1.37 | 1.35 |
| | | Weighted average | 0.11 | 1,14 | 1.29 |
| 2, | Assays on south s | ection based on following: <u>Length of Intersection</u> | | | |
| | Bralorne 22 | 30* | 0.00 | 29 89 444 | |
| | 11 23 | 201 | 0.09 | 3.57 | 6 |
| | ** 24 | 259 | 0.11 | 4.68 | 49 |
| | ··· 4.** | de al " | 0.01 | 0.90 | 60 Antenderation |
| | | Weighted average | . 0.07 | 3.00 | |
| з. | Assays on surface | based on following: | ÷ | | |
| | A LOCATOR BA | <u>Vidth of Cut</u> | | | |
| | J-6 | 31.0 | Tr. | 1.4 | 4.5 |
| | J-3 | 25.0 | Tr. | 4.2 | 0.3 |
| | 3-5 | 80.0 | 0.09 | 1.7 | 1.0 |
| | | umach Baura | and the second | สมือสิตภิษ | allasand. |
| | | Weighted average | 0.05 | 2.1 | 1.7 |
| | | | | | |

Tonnage Calculation

| | |] | Longti | <u>Uidth</u> | | Aros | Length (horiz.) | Volume | Tons |
|--|--------------------|---|--------|--------------|------------|--------|--------------------|-----------|---------|
| | Section Section | | | | 112 113 | 10,800 | | 2,376,000 | 237,600 |
| | | | | | | | | | 257,000 |

SUMMARY

Total content of block (bafore mining dilution) 257,000 tons @ 0.07 oz. Au. 1.84 oz. Ag and 1.5% Zn.

It was noted that most of the mineral zone drilled to date is oxidized with the fresh sulphide zone about 150' below surface. The mineral zone appeared to be sufficiently well drilled to determine the probable average grade of the block; this is not commercial material at the present time, unless other nearby deposits of similar nature and of more substantial size are discovered.

D.H. S-8 was drilled in 1968, and appears to effectively close off the zone in depth. Bralorne Hole #31, also on the north section, passes directly down dip from the main ore zone and encountered a very short section containing some values.

NO. 48 ZONE

A study of the previous results showed the following:

Grade

| | | | | | | Length | Width | Ares | A | Oz. Au | Oz.AR | % Z.m | |
|----|--------------------|------|-----|----|------|----------------------|----------------|--------------|----------|---------------------|-------|--------------|--|
| 1. | Surface Section | Pits | M-6 | to | M-12 | 550 * 140* | 11.0' 9.25' | 6050 1294 | | 0.10 <u>0.07</u> | 0.84 | 6.55 7.30 | |
| | | | | | | Weight | ed evers | ige | | 0,095 | 0.81 | 0.60 | |

<u>Assays</u> on surface based on old sampling on pits M-6 to M-21 and Pit M-14
 Assays on section based on following:

| D.D.H. | S/Leith | Oz.Ay | Oz.Ag | <u>% 2n</u> |
|----------|---|-----------|--|--------------------------------|
| 5 | 6* | 0.14 | 0.60 | 9,25 |
| 5 | 71 | 0.10 | 0,55 | 12.25 |
| 5 | 201 | 0.06 | 0.70 | 6.50 |
| 6 | 13' | | 0.62 | 3,22 |
| 7 | 70 | 0.01 | 0.65 | 11.00 |
| 8 | 110 | No assays | | |
| 1 | 51 | 11 H | | |
| 2 | E. S. | 9 6 | withing the providence in the second providenc | digit (gan #Erg + Stan #) west |
| Averages | 9,25° | 0.07 | 0.54 | 7,30 |

Tonnaga

| | | Length | Width |
|---------|----------|--------|-------|
| Surface | | 5501 | 11.00 |
| Section | | 140* | .9.25 |
| Avera | ge Width | | 10.61 |

Volume - 550*(length) x 140*(depth) x 10.6*(width) = 817,000 cu. ft.

Tons $-\frac{817,000}{10} = 81,700$ tons.

SUMMARY

Total content of block (before mining dilution) 81,700 tons @ 0.095 oz. Au, 0.81 oz. Ag. and 6.60% Zn. This is a typical erratic limestone replacement zone with randomly-oriented narrow sulphide bands within limenite zones.

The drilling through the widest portion of the mineralized zone indicates that only one of the numerous mineral lenses persists in depth.

Narrow steeply-dipping veins dictate that underground mining would have to be used.

The values encountered to date indicate that, at present metal prices, nothing of economic value has so far been indicated in this zone.

ANTIMONY CONTENT

BACON AND CROWHURST

A study of the assay values returned for the No. 1 vein during previous work at Takia Silver shows the following:

| | | | | | • | | ength <u>uence</u> | <u>Sb %</u> | Oz./ton Ag | Ratio Sb/Ag |
|------|------------|-----|---------------------|-----|--------|-----|-----------------------|-------------|------------|----------------|
| Zone | the second | 150 | Bralorne D.D. Holes | (10 | sample | es) | 200* | 4.8 | 15.5 | 1:3.2 |
| 11 | | | Underground samples | | |) | 401 | 3.6 | 14.7 | 1:4.1 |
| 47 | the second | | Surface samples | (38 | 93 |) | 250* | 3.4 | 19.5 | 1:5.7 |
| 11 | 2 | -67 | 88 TO | (7 | 88 |) | 801 | 14.9 | 29.0 | 1:1.2 |
| | | | | Tot | als | | 570 | 5.5 | 19.2 | 1:3.5 |

Although it is realized that the recovery of antimony

as a marketable product may present metallurgical problems, and that sales contracts would have to be negotiated, it is felt that the No. 1 vein system contains a sufficiently large amount to warrant further investigation. The recovery of even 60%/ton of ore could apparently result in a net smelter return of perhaps \$15/ton of ore, which, if realized, would represent an attractive addition to the gold and silver values.

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CONCLUSIONS

Evaluation of the property's potential as a possible gold, silver and antimony producer, coupled with the 1968 diamond drilling results shows that further exploration is warranted.

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This should be primarily directed toward the No. 1 mone, in order to measure accurately the metal values in the vein system, to determine continuity, to evaluate possible mining methods and to obtain a bulk sample for metallurgical test work.

The proximity of the No. 2 Zone to the No. 1 Zone indicates that some exploration of this vein be carried out in conjunction with the No. 1 vein program. This vein has been exposed on surface for 300° and six samples taken from three trenches average 0.10 oz. Au, 5.8 oz. Ag, 1.82 Zn and 4.12 Pb across 3.5°. The vein parallels the No. 1 vein about 250° west and the south trace of it may have been encountered in the west crosscut of the principal 4300° level. Surface drilling is warranted.

Drifting and raising on the principal structure in the 4300' level will effectively determine whether the property can support a mining operation. About one thousand feet of lateral work is required to expose the vein as are nine properly-placed 50' raises.

Sufficient work has been completed on certain parts of the No. 3 and No. 4B zones to indicate their probable size and grade. Extensive overburden in the No. 3 and No. 4 zone areas, generally however, effectively hides any possible parallel or adjacent similar mineral deposits. Not too much exploration other than cursory surface prospecting has been carried out so far to rule out their existence.

The fact that widespread mineralization has been discovered, even though of apparently modest size and grade, warrants further exploration work.

RECOMMENDATIONS

Further exploration at the Takla Silver property is recommended as follows:

STAGE 1

(1) No. 1 Vein

(a) Extend the 4300 level about 670° along the No. 1 vein, as shown on the plan accompanying this report.

(b) Complete six short raises, each 50⁴ long, inclined upwards at about 50^o following the vein, also as shown.

(c) As drifting and raising progresses, obtain careful muck samples and chip face samples to determine metal content. Finally, channel sample the complete vein at five foot intervals. Assay these samples for lead, zinc, antimony, gold and silver.

(d) Initiate metallurgical test work with the Department of Energy, Mines and Resources in Ottawa on bulk samples obtained in 1968 from the surface and the limited underground exposures on No. 1 vein.

(2) No. 3 & 4 Zone Area

Continue exploration in the No. 3 and No. 4 zone areas by completing surface prospecting and geological mapping, together with perhaps reconnaissance geochemistry on lines spaced at approximately 800' intervals. The exact location of these lines would be dictated by overburden, geology, topography, stream flow, etc.

STAGE 2

(a) Based on results obtained during Stage 1 regarding No. 1 vein exploration, either continue drifting on the vein northwards, or drive a lower crosscut to intersect the vein about 150' below the 4300' level, followed by lateral drifting on the vein.

(b) Explore the No. 2 vein system by either flat holes spaced at 50^s intervals from the extension of the 4300 level northwards, or by inclined surface diamond drilling, designed to attain the same objective.

(c) Follow-up work on the No. 3 and No. 4 zone areas, governed by the results of the reconnaissance geochemistry, is recommended. This should consist of either an extension of the geochemical grid together with accompanying sampling, or closer spaced geochemistry around any anomalous areas discovered by Stage 1 work.

ESTIMATED COST

The estimated cost of the above recommended program is as follows:

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SFAGE 1

Direct Costs

| (a) | 600° of drifting on No. 1 vein 4300 level 0 \$60/ft. | | \$36,000 |
|---------------|---|---|----------|
| | Lay truck portal inwards - 500° plus 200° on dump | | 3,000 |
| (6) | Six raises each 50' long - total of 300' 8 \$45/ft. | | 13,500 |
| (c) | Sampling & assaying Drifting - 120 chip samples, 120 muck samples & 120 channel samples © \$10/sample | \$3,600 | |
| | Raising - 60 chip samples, 60 muck samples & 60 channel samples @ \$10/sample | 1,800 | |
| | Freight on samples to Vancouver | 1.00 | 5,500 |
| (d) | Geochemistry - No. 3 & 4 zone area | | 2,000 |
| (e) | Metallurgical investigations | | 1,000 |
| Indract Costs | | Por Month | |
| | Supervision Geology & engineering Camp expense Cookhouse & bunkhouse Empediting Travel expense Telephone & miscellaneous Total | 1,100 1,000 2,500 2,500 800 2,600 500 | к 3 щов. |
| | | | - 33,000 |
| Move | in & Hove out | | |
| Reno | vate buildings & moving expense | | 4,000 |
| Head | Office Expense | | |
| (1) | Engineering & consulting fees | 4,000 | |

(2) Insurance, legal, licenses & office expense
(3) Administration - 3 mos. 8 \$1200/mo. - say
4,000
10,000

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Capital Expense

| 4 mil | able crusher & splitter ne cars & \$500 each nd hand 1½ ton battery or air | 1,000 2,000 | | | |
|----------------|---|----------------|--------------|--|--|
| | locomotive with accessories | 5.000 | <u>8,000</u> | | |
| | Total | | \$116,000 | | |
| | Contingencies @ 8% - say | | 9,000 | | |
| | Total - Stare 1 | | \$1.25,000 | | |
| STAGE 2 | | | | | |
| Dire | et Costs | | | | |
| (a) | 0 \$60/ft. or equivalent - if crosscut | | | | |
| | at lower elevation | | 25,000 | | |
| (b) | 3 raises each 30° long - total of 150 ft. 8 \$45/ft. | | 8,000 | | |
| (e) | Sampling & assaying Drifting 100 chip samples, 100 muck samples & 100 channel samples © \$10/sample | 3,000 | | | |
| | Raising 30 chip samples, 30 muck samples & 30 channel samples & \$10/sample | 900 | | | |
| | Freight on samples to Vencouver | L(X) | 4,000 | | |
| (d) | Cecchemistry & follow-up work on No. 3 & No. 4 zones and/or new discoveries | | 12,000 | | |
| (e) | Diamond drilling No. 2 vein - 4 holes each 350° long from 4300 drift (or equivalent on surface) - | | | | |
| | total 1,400' @ \$7.00/ft say | | 10,000 | | |
| (2) | Metallurgical test work | | 5,000 | | |
| Indirect Costs | | | | | |
| As 1 | 33,000 | | | | |

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| Nove out | | 2,000 |
|-------------------------|------------------------------|-------------------|
| Head Office Expense | | |
| As in Stage 1 | | 10,000 |
| Preliminary Feasibility | Studies | 5,000 |
| | Total | 114,000 |
| | Plus contingencies 0 10% - s | say <u>11,000</u> |
| | Total Stage 2 | \$125,000 |

Respectfully submitted, BACON & CROWHURST LTD.

andant.

J.J. Crowhurst, P.Eng.

CERTIFICATE OF QUALIFICATIONS

I, John James Crowhurst, do hereby certify that:

- 1. I am a practising mining engineer with Bacon & Crowhurst Ltd., Ste. 102, 1111 West Georgia St., Vancouver, 5, B.C.
- 2. I am a graduate of the University of British Columbia and have been graated the degree of Bachelor of Applied Science.
- 3. I have been practicing my profession as a mining engineer for 26 years.
- 4. I as a number of the Association of Professional Engineers of British Columbia, Registration No. 2120.
- 5. On November 7th, 8th and 9th, 1968, I visited the property of Anchor-Takla Mines Ltd.
- 6. I was employed by Highland Bell Mines Ltd. as General Manager during the period 1960-1967.
- 7. I, nor any member of my firm, have directly or indirectly received or expect to receive any interest direct or indirect in the property of the company or any affiliate, nor do I nor any member of my firm beneficially own directly or indirectly any securities of the company or any affiliate.

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J.J. Crowhurst, P. Eng.

Feb. 26, 1969.