MEN, OR ENYRE
MINING
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EXPLORATION

Hunt.-Arnold Coll. 5

(325)

ITEM 51

"D and B" STEPTOE MINE
The Cherry Creek Region
Nevada

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Comment on the Brief Report of G. F. Bodfish, E.M.,
on the "D and B" Mine, Cherry Creek Region,
Nevada

I visited the property during the week of July 28, 1935, for the purpose of checking the G. F. Bodfish report, principally to ascertain the amount of ore in sight, the potentials of the property, and the economics.

There is sufficient ore in sight and easily accessible to operate on an important scale for several months, and open cut mining methods may be employed for years: many veins are exposed on the crests and slopes of the ridges and will supply a large tonnage before underground mining methods become necessary.

The economics of mining and transporting to an ore-loading bin are exceptionally favorable, and trucking is a simple and acceptable method of ore delivery to McGill smelter - the trucking cost should not exceed One dollar twenty cents ($1.20) per ton during the most unfavorable season of the year - across the valley to the surfaced highway is a good dry weather road, but should be rock or gravel surfaced for heavy loads in winter; a gravity cable tram may be found economic for transporting ore from the mine to an ore-loading bin at the level of the western boundary of the valley, thus saving about 1½ miles of trucking.

The veins are many and strong and of good commercial width; it was noted that there are two areas where the intersections of veins prompt the opinion that ore shoots are present, one being in the tunnel where samples Nos. 1 to 6, inclusive, were gathered, and the other in the area represented on the map by samples Nos. 12, 13, 14, and 15. It is considered that the geology of the vein system not only is, but will, upon more lengthy and closer examination, be found attractively interesting.

It is considered unusual to find a property for mining purposes so advantageously located relative to smelter treatment.

The advantages of the property are:

Large quantity of commercial ore in sight and a topography favoring the removal of ore at low cost;

In a region where an excess in the silica content will bring a premium payment per ton of ore;

Capital investment for mill and equipment, the time required and the expense of mill construction and equipping are not necessary - (it is now questioned that crushing and concentrating on the property would be found economic - silica content of ore considered);

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#2 - Comments on Report

Prompt returns from operation as trucking to smelter can begin at once;

Small amount of equipment required:

Compressor with power unit, jack hammers, air line, blacksmith shop and tools, drill steel, four or five ore cars, probably 1600 feet of rails (or caterpillar bull-dozer, and material for ore shute to loading bin), three or four cabins, 3500 feet of pipe to deliver water to camp (the small amount of water required at first could be hauled) - water pipe should be buried to protect during freezing season;

Operations conveniently conducted throughout the year;

Accessibility and proximity to a market for mining equipment (Ely, Nevada, and Salt Lake City, Utah).

I recommend the property to be worthy of thorough examination and sampling, and with the confident belief that the conditions on and relative thereto will be found satisfactory for operation.

Yours very truly,

Mentor Etnyre

Mentor Etnyre
2215a N Street
Sacramento, California

August 7, 1935.

(Copy)

STEPTOE QUARTZ PROPERTY
("D & B" Index)
Cherry Creek Region - Nevada

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Nine lode claims - 180 acres, more or less.

Title is by location under U. S. and Nevada mining Laws - is in good standing, all requirements having been satisfied, and there are no conflicting nor adverse claims.

Elevation of the property ranges from 5800 to 7000 feet; located on southeasterly slope of the mountains overlooking a valley; McGill smelter on opposite side of valley, about 20 miles distant by road; railroad to McGill and Ely is 8 miles eastward.

Hard surfaced highway southward to Ely and northward to Wells, Nevada, and Salt Lake City is 90 miles eastward across valley. Connecting road to property is a good dry weather road, but would require gravel surfacing in places for wet weather travel - moderate grade over last two miles and but two short grades requiring low or intermediate gear.

The ores are clean quartz carrying gold and silver values - the gangue or vein filling is quartz of high silica content, and desired by the smelter for flux.

The quartz croppings on this property are very bold and strong; in one place on the No. 3 claim the croppings are all of 250 feet in length by fully 200 feet in width, and carry fairly good gold and silver values. (Note Sample No. 10 on assay plan) This sample was cut at intervals across a width of 100 feet.

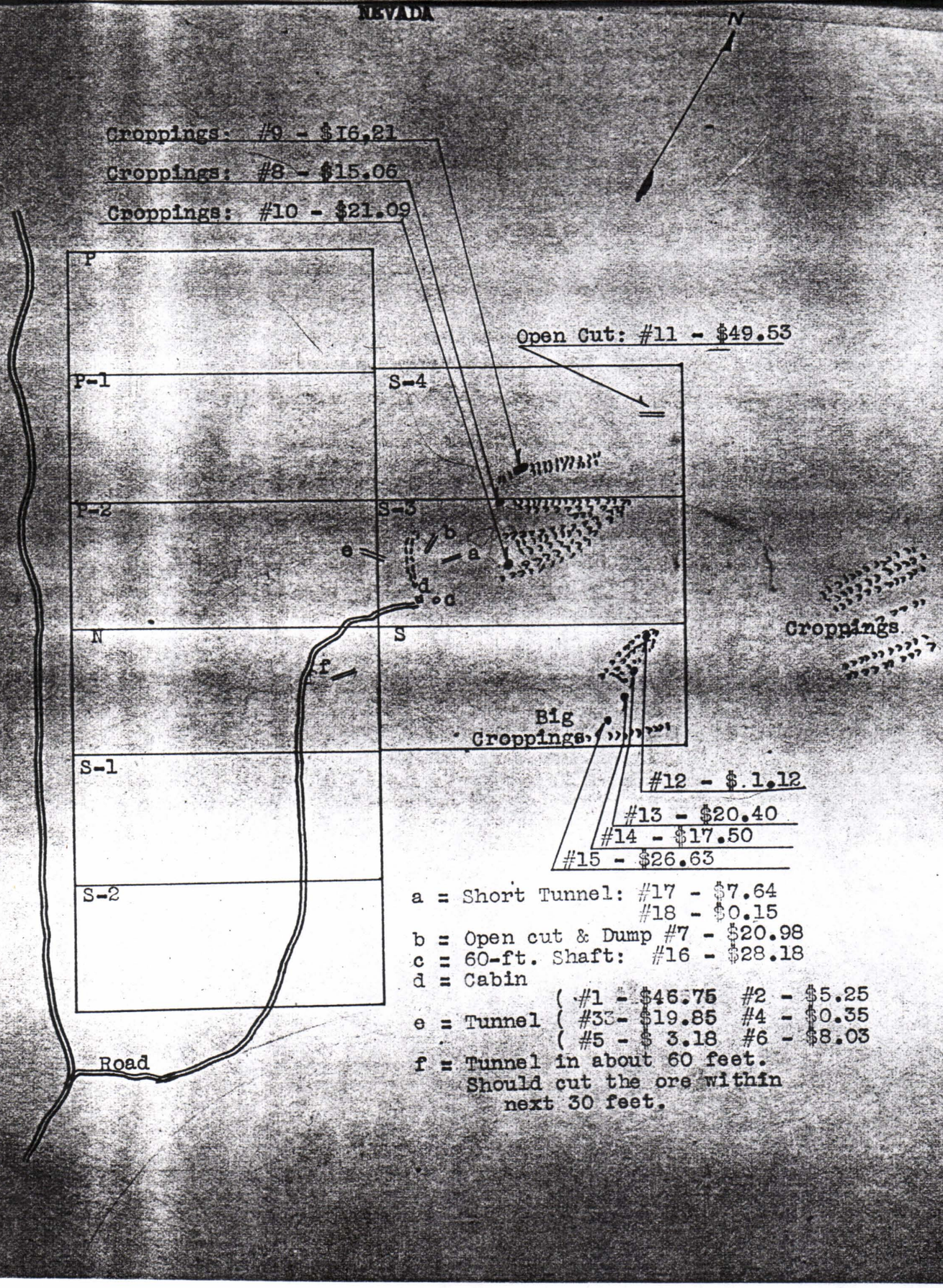
Over the ridge on its easterly slope, and on the "S" Claim, where samples Nos. 13, 14 and 15 were taken (See appended map and assay plan) the quartz croppings are very bold and continuous for a long distance.

The foot-wall of this mineralized zone is Granite with a porphyry showing as the apparent present hanging wall, making it a contact of granites and porphyry so far as disclosed by present development.

Water is available for milling and domestic use on this property in abundant supply, but it must be piped by gravity about 3000 feet.

Timber is on the ground and adjacent thereto and consists of the typical small pine and cedar of the Nevada Hills and is in sufficient quantity to last for a number of years.

NEVADA



a = Short Tunnel: #17 - $7.64
#18 - $0.15
b = Open cut & Dump #7 - $20.98
c = 60-ft. Shaft: #16 - $28.18
d = Cabin
e = Tunnel (#1 - $46.75 #2 - $5.25
(#33- $19.85 #4 - $0.35
(#5 - $ 3.18 #6 - $8.03
f = Tunnel in about 60 feet.
Should cut the ore within
next 30 feet.

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SMELTER RETURN

NEVADA CONSOLIDATED COPPER CORPORATION - NEVADA MINES

Settlement for Siliceous Flux Received September Month 1934

(Indexed as the "D - B" Mine)

Date Sampled	Lot Number	Number Cars	Wet weight Pounds	% H_2O	Dry Weight Pounds	ASSAY Ozs. Per Ton Au.	Ag.	% SiO_2
9/21/34	4	1	113,600	1.20	112,237	.07	12.10	86.3

CONTENTS

Ounces

Gold	Silver
3.928	679.03
95%	90%
3.732	611.13

3.732 ounces Gold @ $32.897 per ounce - - - - -$122.77
611.13 ounces Silver @ 64.125¢ per ounce - - - - 391.89
Silica Credit - 2.5¢ per unit over 75%- - - - - - 15.85
Total value - - - - - - - -- - - - - - - - - - -$530.51

Gross value per dry ton of ore - - - - - - - - - - $ 9.45
Treatment rate - - - - - - - - - - - - - - - - - - 2.00

Total value of ore as shown- -$530.51

Less treatment - 56.1185 dry tons of ore @ $2.00 per ton - $112.24
Less freight on ore as per receipted freight bill attached 45.44 157.68
Balance due - $372.83

Rates subject to change without notice when not under contract or for a specified tonnage.

NEVADA CONSOLIDATED COPPER CORPORATION-NEVADA MINES

F. E. Huffer
Chief Clerk

SETTLEMENT No. 3

COPY

McGill, Nevada
October 10th, 1934.

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SMELTER RETURNS

NEVADA CONSOLIDATED COPPER CORPORATION - NEVADA MINES

Settlement for Siliceous Flux received August, 1934.

From "D and B" STEPTOE MINE

Date Sampled	Lot Number	Number cars	Wet weight Pounds	% H_2O	Dry Weight Pounds	ASSAY Ozs. per Ton Au.	ASSAY Ozs. per Ton Ag.	% SiO_2
8/31/34	3	1	110,700	0.57	110,069	.09	14.18	88.9

C O N T E N T S

Ounces

GOLD	SILVER
4.953	780.39
95%	90%
4.706	702.35

4.706 Ounces Gold @ $32.897 per ounce - - -$153.81
702.35 Ounces Silver @ 64.125¢ per ounce - -$450.38
Silica credit - 2.5¢ per unit over 75% - - - 19.23
TOTAL VALUE - - - - - - - - - - - - - - - - -$624.42

Gross value per dry ton of ore - - - - - - -$ 11.35
Treatment rate (per ton)- - - - - - - - - - - 2.27

Total value of ore as above - $624.42
Less Treatment - 55.0345 dry tons of ore @ $2.27 per ton $125.31
Less freight on ore as per receipted freight bill attached 44.28 169.59
BALANCE DUE - $454.83

Rates subject to change without notice when not under contract, or for specified tonnage.

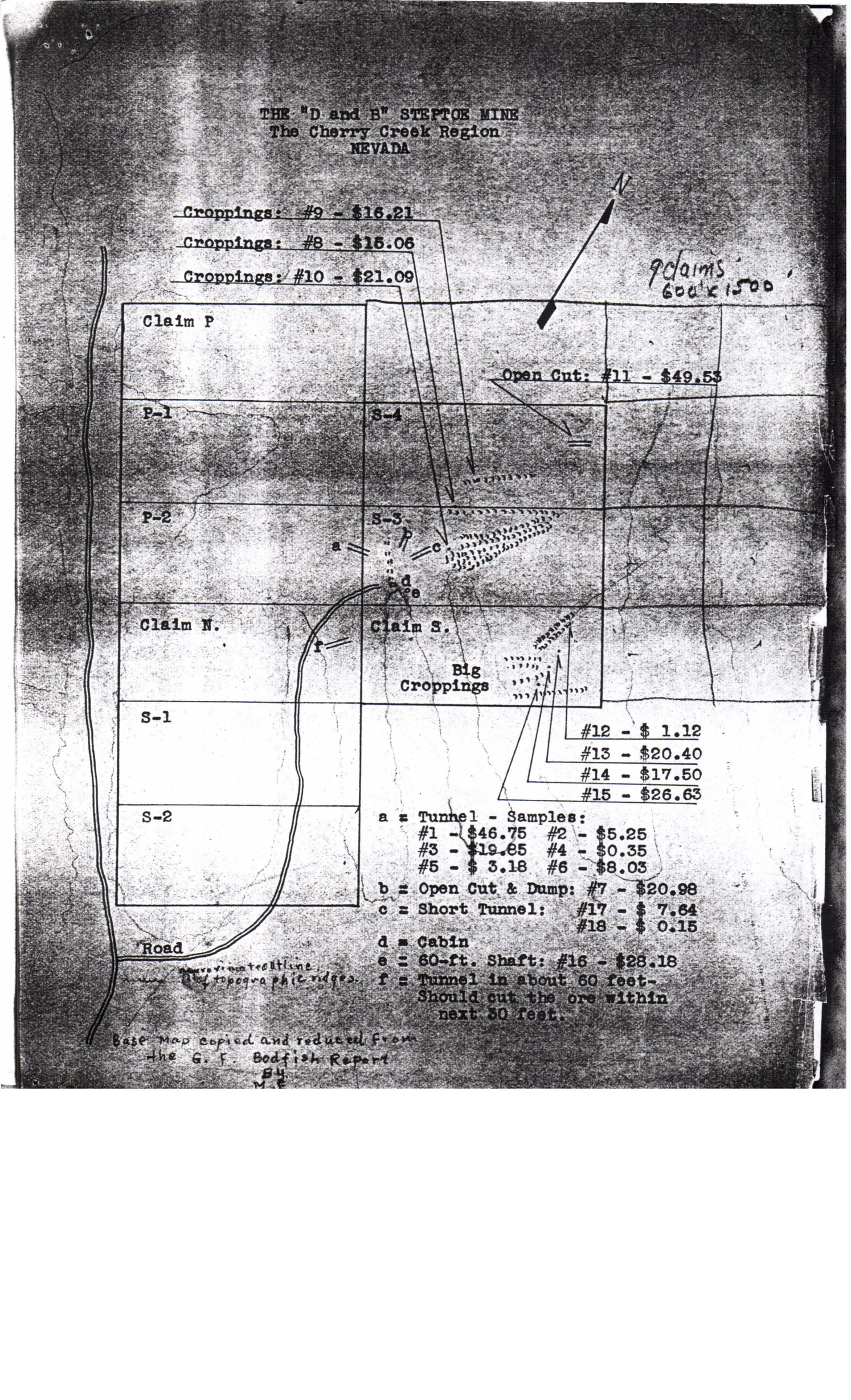
NEVADA CONSOLIDATED COPPER CORPORATION - NEVADA MINES

F. E. Huffer,
Chief Clerk

SETTLEMENT No. 3

McGill, Nevada
September 11th, 1934

THE "D and B" STEPTOE MINE
The Cherry Creek Region
NEVADA



a = Tunnel - Samples:
#1 - $46.75 #2 - $5.25
#3 - $19.85 #4 - $0.35
#5 - $ 3.18 #6 - $8.03

b = Open Cut & Dump: #7 - $20.98

c = Short Tunnel: #17 - $ 7.64
#18 - $ 0.15

d = Cabin

e = 60-ft. Shaft: #16 - $28.18

f = Tunnel in about 60 feet-
Should cut the ore within
next 30 feet.

Base Map copied and reduced from
the G. F. Bodfish Report
By
M.F.

Samples #3

Sample No. 16: Cut across vein 12 feet wide in 60-foot shaft on No. 3 claim, near bottom of this shaft.
Gold - .20 oz. per ton, Silver 27.50 ozs. per ton. Value per ton;
Gold - $7.00 - Silver $21.18 - Total value Gold and Silver per ton $28.18

Sample No. 17: Cut across vein 5 feet wide in a short tunnel on No. 3 claim and about east of the 100-foot tunnel and just about 80 feet easterly from 100-foot tunnel and open cut.
Gold - .06 oz. per ton, Silver 7.20 ozs. per ton. Value per ton:
Gold - $2.10 - Silver $5.54 - Total value Gold and Silver per ton $ 7.64

Sample No. 18: Breccia about 3 feet thick lying above the vein where Sample No. 17 was taken. This sample was taken to see if the talc and breccia carried any values.
Gold - trace. Silver .20 oz. per ton. Total value per ton $ 0.15

Gold figured at $35.00 an ounce and Silver at 77¢ per ounce.

Samples - #2

Sample No. 9: Across vein 5 feet wide, no foot-wall in sight, and northeast of No. 8 about 50 feet or more on croppings in a shallow tunnel of no depth beyond five or six feet.
Gold - .12 oz. per ton, Silver 15.60 ozs. per ton. Value per ton:
Gold - $4.20 - Silver $12.01 - Total value Gold and Silver per ton $16.21

Sample No. 10: Taken at intervals across a total width of 100-feet on the big croppings, where they show a width of 200 feet or more, northwesterly up the hill from the 100-foot tunnel and approximately 72 or 80 feet higher than the tunnel.
Gold - .20 oz. per ton, Silver 18.30 ozs. per ton. Value per ton:
Gold - $7.00 - Silver $14.09 - Total value Gold and Silver per ton $21.09

Sample No. 11: From open cut about 8 feet deep and across 5 feet on the No. 4 Claim, on the west side of the ridge above where Sample No. 1 was taken.
Gold - .26 oz. per ton, Silver 52.50 ozs. per ton. Value per ton:
Gold - $9.10 - Silver $40.43 - Total value Gold and Silver per ton $49.53

Sample No. 12: Open cut on fissure vein in place. Vein 42 inches wide, strike northerly and southerly; dips at about 80°. The cut sampled is in the grass-roots and has no depth.
Gold - .01 oz. per ton, Silver 1.00 oz. per ton. Value per ton:
Gold - $0.35 - Silver $0.77 - Total value Gold and Silver per ton $ 1.12

Sample No. 13: Open cut about 12 feet deep on east slope of ridge and 400 feet or more below the top of ridge, and 60 to 100 feet down the hill from Sample No. 12, which is on the bottom of the open cut.
Gold - .20 oz. per ton, Silver 17.40 ozs. per ton. Value per ton:
Gold - $7.00 - Silver $13.40 - Total value Gold and Silver per ton $20.40

Sample No. 14: About 25 feet southerly from sample No. 13, in a shallow incline shaft about 10 feet deep and on same big quartz vein and cropping as Samples Nos. 12 and 13, cut across 4 feet at and near bottom.
Gold - .06 oz. per ton, Silver 20.00 ozs. per ton. Value per ton:
Gold - $2.10 - Silver $15.40 - Total value Gold and Silver per ton $17.50

Sample No. 15: About 26 feet southerly from Sample No. 14 on same vein and croppings as No. 14; from a shallow incline about 12 feet in depth and on Claim No. 3, as are samples Nos. 12, 13 and 14. Cut across 3½ feet.
Gold - .18 oz. per ton, Silver 26.40 ozs. per ton. Value per ton:
Gold $6.30 - Silver $20.33 - Total value Gold and Silver per ton $26.63

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RECORD OF SAMPLES "D and B" STEPTOE MINE

Sample No. 1: Across 3 feet width of vein from face of 100-foot tunnel outward for about 15 feet. The vein is probably 5 feet or more in width or thickness as the floor of the tunnel is not down to the foot-wall of the vein.
Gold - .70 oz. per ton, Silver 28.90 ozs. per ton. Value per ton:
Gold - $24.50 - Silver $22.25 - Total value Gold and Silver per ton $46.75

Sample No. 2: Across 4 feet width of vein and 25 feet outward from the face of 100-foot tunnel, taking the hard rock only, and not down to foot-wall; further out the vein shows a width of 6 feet and not clear down to the foot-wall.
Gold - .04 oz. per ton, Silver 5.00 ozs. per ton. Value per ton:
Gold $1.40 - Silver $3.85 - Total value Gold and Silver per ton $ 5.25

Sample No. 3: Across 3 to 4 feet width - General sample of whole exposed vein for a length of 20 feet along center of the 100-foot tunnel, but not down to the foot-wall.
Gold - .16 oz. per ton, Silver 18.50 ozs. per ton. Value per ton:
Gold $5.00 - Silver $14.25 - Total value Gold and Silver per ton $19.85

Sample No. 4: Across 3 feet of talc lying above vein taken to see if it carried any values.
Gold - .01 oz. per ton, silver trace. Total value Gold per ton: $ 0.35

Sample No. 5: Across 3 feet width of vein at portal of the 100-foot tunnel.
Gold - .06 oz. per ton, Silver 1.40 ozs. per ton. Value per ton:
Gold $2.10 - Silver $1.08 - Total value Gold and Silver per ton $ 3.18

Sample No. 6: Across 3 to 4 feet of width, hard rock only along vein in tunnel, cut from face about 30 feet and along the tunnel outward for a distance of about 40 feet; taken at intervals of about a foot apart.
Gold - .06 oz. per ton, Silver 7.70 ozs. per ton. Value per ton:
Gold - $2.10 - Silver $5.93 - Total value Gold and Silver per ton $8.03

Sample No. 7: Across 8 feet of width, in open cut parallel to the 100-foot tunnel and about 40 feet northwesterly from the 100-foot tunnel.
Gold - .10 oz. per ton, Silver 22.70 ozs. per ton. Value per ton:
Gold - $3.50 - Silver $17.48 - Total value Gold and Silver per ton $20.98

Sample No. 8: Across vein 5 feet wide and not down to foot-wall; in open cut and about 70 feet northwesterly from the 100-foot tunnel.
Gold - .12 oz per ton, Silver 14.10 ozs. per ton. Value per ton:
Gold - $4.20 - Silver $10.86 - Total value Gold and Silver per ton $15.06

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#3 - Steptoe Mine

Some 26 feet further south is another shallow incline shaft about 12 feet in depth and on the same vein and croppings the vein is exposed in the bottom of this shaft and shows a width of $3\frac{1}{2}$ feet of good ore. Sample No. 15 is cut across this vein at the bottom of the incline.

On "S" Claim No. 3 is sunk a vertical shaft to a depth of 60 feet, at about 15 feet above the bottom. At its present depth, this shaft encountered and went through a vein of ore 12 feet wide. This is good ore and sample No. 16 is taken across the width of this vein and down the shaft.

There is a short tunnel about 25 feet in length on the No. 3 Claim and about 80 feet easterly from the 100-foot tunnel and open cut, the vein shows a width of 5 feet in the face of this tunnel. Sample No. 17 is taken across the vein at face of this 25-foot tunnel.

Sample No. 18 is cut across about 3 feet of talc and breccia that lies above the vein in the 25-foot tunnel where Sample No. 17 is taken.

Samples Nos. 4 and 18 were not taken as ore samples but merely to determine whether the talc and breccia carried any values.

G. F. BODFISH, E.M.

July 10, 1935.

2 - Steptoe Mine

DEVELOPMENT:

Development on the property consists of a tunnel on the No. 3 Claim, and is driven on the vein a distance of 100 feet, and exposes the vein for its entire length, showing as vein width 3 feet to 4 feet; the vein is doubtless much wider as the floor of this tunnel is too high to expose the vein down to the foot-wall. Samples Nos. 1, 2, 3, 4, 5, and 6 are all taken along this 100-foot tunnel.

There is an open cut about 40 feet northerly from the 100-foot tunnel which exposes a vein 8 feet in thickness and not yet down to the foot wall; this vein is quite flat at this point. Sample No. 7 is taken here.

A vein 5 feet wide and not down to the foot-wall is exposed in an open cut about 70 feet northerly from the 100-foot tunnel. Near this is an undeveloped stringer of very high grade silver ore. Sample No. 8.

Northeast of the above about 50 feet or more on the No. 3 Claim is a shallow tunnel on the croppings. It has no depth but shows 5 feet of ore of good value - Sample No. 9 is taken across this ore.

Northwesterly, up the ridge from the 100-foot tunnel and some 70 to 80 feet or more higher than the tunnel, at a point where the croppings are very bold and show a width of 200 feet or more and on the No. 3 Claim, I took a sample at short intervals for a width (across the croppings) of 100 feet. This is sample No. 10.

There is an open cut about 8 feet deep on the No. 4 Claim, on the west side of the ridge and about 60 feet below its top, which shows a probable height above the 100-foot tunnel of 200 feet or more. This cut exposes a vein 5 feet in width of excellent looking ore. Sample No. 11 is taken here.

On the east side of the ridge, on "S" Claim a shallow open cut about a foot deep exposes a fissure vein in place 42 inches in width, strike northerly and southerly and has an inclination or dip of about 85° westerly. No. 12 sample is taken here.

About 60 to 100 feet lower down the ridge and on the same fissure vein above described is an open cut about 12 feet in depth and the vein shows a width in the bottom of 5 feet; it shows good looking ore. Sample No. 13 is taken across the vein at bottom of this cut.

On this same vein and 25 feet further south along its strike from the open cut above described and on the same big croppings and vein at the bottom of a shallow incline shaft, the vein shows a width of 4 feet which is the width of the opening. Sample No. 14 is taken here.