2980 COSCO MARSFELDER

BELLEVILLE MINE

October 1970

North American Exploration, Inc.
351 South Wells Avenue,
Reno, Nevada 89502

INTRODUCTION

This report presents the results of the exploration activities of North American Exploration, Inc. as related to the Belleville Mine near Mina, Nevada in August 1970.

On August 22, 1970, Messers. Belleville, Greenwood and Poisson met at Gabbs and Mina, Nevada, to plan a schedule of activities for evaluation of the Belleville Mine and adjacent areas.

GENERAL

The Belleville Mine lies within the Pilot Mountain Range, east of Mina, Nevada. Access to the property is gained by proceeding south from Mina about seven miles along U. S. Highway 95 towards Tonopah. From this point a gravel road leads east into Telephone Canyon, in which the Belleville Mine is located.

The only maps available for this area are the 1:250,000 scale (Walker Lake and Tonopah sheets). Some confusion exists as to the actual location of the property in that old maps of the property carry the location as NW-1/4, Section 32, T. 6 N., R. 36 E., whereas Nevada Bureau of Mines Bulletin 58, Mineral Resources Map of Mineral County, Nevada show the location as Section 36, T. 6 N., R. 35 E.

According to the Nevada Bureau of Mines, the Belleville Mine produced about $303,000 worth of gold between 1917 and 1938.

This report covers a brief study of three related areas: 1). the Belleville Mine, 2). the Belleville Extension Group and 3). the shaft and adit in the floor of Telephone Canyon.

BELLEVILLE MAIN MINE

Field investigation of the map of the old workings show that all of the portals to the old workings have caved and access cannot be

made at this time. A more recent adit, now open, was believed to intersect the old work on the 200 level and this tunnel was explored.

A brunton compass survey of the new adit now indicates that this tunnel crosses over the 200 level work by 10 to 15 feet about 40 feet in from the portal. A magnetic disturbance at the portal may have lead to some errors in this survey.

Rock types in the adit consist of fine-grained, medium-gray quartzite, dark gray to black, very fine-grained quartzite, light gray argillite, possible greenstone units and rhyolite porphyry containing 5% pyrite cubes. The argillites and rhyolite are altered (kaolinized),and intensely sheared.

Gold occurs as free gold particles in manganese oxide-bearing veins. These manganese oxide-bearing veins are common and are the apparent control upon which the workings were driven.

Three samples were assayed from this area: No. 20 is a chip sample taken across the face of the western-most drift consisting of quartzite and a manganese oxide-bearing vein up to two inches wide; No. 21 is a composite sample of vein material taken from the face and back of the same western-most drift as above; No. 22 was taken from a breccia zone containing quartzite fragments, fault gouge and some manganese oxide. Results of assays show a trace of gold and 0.1 or 0.2 ounces per ton of silver.

BELLEVILLE EXTENSION GROUP

The Belleville Extension Group lies about a mile east of the main mine area and is connected to it by a four wheel drive road. Entrance to the workings was gained by digging away material which had buried the portal. It was necessary to explore this prospect because of old information, pre-1939, which suggested a gold-silver content of $7.05 per ton. Copies

of the old sample results are included in this report.

ROCK TYPES: The sedimentary rocks consist of a series of argillites, argillaceous quartzites and quartzites. Injected into the sedimentary sequence is a granodiorite unit showing various stages of hydrothermal alteration. Rocks having a diabasic texture were observed.

STRUCTURE AND ALTERATION: Multiple shear zones are common with the most prominent direction being N. 40° W. to N. 60° W., dipping steeply east. This direction is parallel or sub-parallel to the granodiorite sediment contact. Other shear zones occur at N. 10° W., N. 62° E. The argillites are intensely altered by this shearing, forming wide gouge zones and making the ground very unstable in these areas. The granodiorite is intensely altered in some areas. Alteration is kaolinization of the feldspars and partial bleaching of the biotite. Not all of the granodiorite exhibits this type of alteration. The granodiorite in the southeastern-most drift seems to show less alteration with the biotite appearing fresher and the feldspars less kaolinized.

MINERALIZATION: Mineralization of the area has occured and is characterized by a series of manganese oxide-bearing veins. These veins have a similar appearance to those veins found in the belleville main mine. Manganese oxide is often found in gouge zones and occurs as thin veins in the gouge and sometimes dissiminated in the gouge but not all gouge zones have manganese oxide present. A description of the samples taken in this study is included in this report.

OTHER WORKINGS

In the floor of Telephone Canyon, there are a number of shafts, one adit along with numerous trenches. One shaft and one adit were briefly examined.

About 2,000 feet down slope from the Belleville Extension Mine, a shaft has been sunk to a reported depth of 90 feet. A drift was driven to the north along a vein of galena-bearing material. Examination of dump indicates galena, chalcopyrite, tetrahedrite-bearing rhyolite. Two samples, 90A and 90B were taken from this dump. Sample 90A was composed of quartzite and altered rhyolite-bearing obvious galena and sample 90B composed of altered rhyolite without metalic minerals.

An adit driven into the east wall of the canyon below and about one-half mile west of the main mine, is 82 feet long. This adit was driven in what appears to be highly altered rhyolite or latite porphyry. Fault gouge with greater than 2% pyrite, unoxidized, is present throughout the adit. Samples 75, 55 are from this adit and represent the distance measured in from the portal. Silver values of 0.1 oz. and 0.3 oz/ton and one gold value of 0.05 oz/ton were returned.

CONCLUSIONS AND RECOMMENDATIONS

Results of this study indicate a need for additional exploration work in the area. There are two approaches open to exploration activity.

An accurate survey of the new adit at the Belleville Mine should be made and tied in with the old caved portal locations. Since the present adit is only 10 to 15 feet above the old 200 level workings, a break-through should be made at the crossover point. It is expected that at least a portion of the old 200 level workings will have caved since the 1930's and this should be anticipated by those entering the old workings. Recovery of the 200 level would open the way for detailed mapping

and sampling as well as entrance to the lower levels.

No additional work is indicated for the Belleville Extension Mine.

The second approach and one which seems to offer a reasonable chance of success is to consider the whole area as a unit. Occurences of gold and silver-bearing caps above porphyry type base metal deposits in other areas suggests that exploration of this possibility be carried out. The presence of rhyolite and/or latite porphyry intrusives which have been altered and intersected by granitic and granodiorite stocks and dikes form the frame work for exploration of the property. The possibility of base metal occurrences below the gold horizons is supported by the material found in the shaft in the canyon floor. A map of the surface geology should be constructed on an air-photo base. A rock sample program with emphasis on alteration as well as contained metal is required. A magnetic survey is indicated for selected contact areas which are found in the mapping.

BELLEVILLE EXTENSION GROUP SAMPLE RESULTS

E-1: chip sample across the face of the first drift east of main drift. The face is five feet wide. This sample is composed of gouge, manganese oxide veins, argillite, quartzitic argillite.

E-2: composite sample of manganese oxide vein material, first drfft east of main drift.

E-3: chip sample at the face of the first drift to the west.

E-4: chip sample at the face of the second drift to the east. Quartzite, argillite, and argilliceous quartzite compose this sample.

E-5: composite sample of vein material in the second drift to the east.

E-6: this sample was taken at the face of the third drift to the west and consists of fairly massive quartzite.

E-7: a chip sample 12 feet back from E-6; altered granodiorite, with occasional 1/16 inch manganese oxide veins.

E-8: a chip sample from the south wall 15 to 20 feet along the third drift west. Argillite gouge and manganese oxide vein material make up this sample.

E-9: a chip sample as E-8; 10 to 15 feet along drift; composed of altered granodiorite with manganese oxide veins.

E-10: a chip sample as E-8; 5 to 10 feet along drift; composed of granodiorite, which is highly altered showing argillitic alteration.

E-11: a chip sample as E-8; 0 to 5 feet along drift, with much manganese oxide veining.

E-12: a composite sample of vein material, from the third drift to the east; gouge with manganese oxide, clay and quartz crystals.

E-13: a chip sample at the face of the second drift to the west; composed of granite or rhyolite showing argillitic alteration.

E-14: a chip sample from the back; 11 feet back of the face in the second drift to west; composed of argillite and manganese oxide vein material.

Telephone 363-3302

Hand Sample Serial 31699-31716.

ASSAY REPORT

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RESULTS PER TON OF 2000 POUNDS

Sept. 4, 1970

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
BLVL-E-2 EXT.	Trace	0.6		0.018		Composite Vein					
3	Trace	0.1									
5 "	0.010	0.7		0.069		Composite					
7	Trace	0.2									
9	Trace	None		None							
10	Trace	0.7									
11	Trace	None									
12	0.020	0.4									
13	0.020	0.4									
14	Trace	0.2									
BLVL-20 MAIN MINE	Trace	0.2									
21 " "	Trace	0.1				Composite					
22 " "	Trace	0.1		None		Main Mine					
55	0.050	0.3				Lower Adit in Valley					
75	Trace	0.1		None		Lower Adit in Valley					
90A	Trace	2.7	9.20	0.100		High Grade at Shaft					
90B	Trace	0.1	0.65	0.044							
195	Trace	0.2				Main Mine					

Remarks BLVL E PROJECT - NO. AM. EXP.

Charges $2.00

Glen P. Williams

ASSAY RESULTS
PILOT RANGE MINE
EXTENSION GROUP OF BELLEVILLE MING AREA
Mineral Co., Nevada
NW¼ SE¼ S.32, T6N, R36E (unsurveyed township)

Sample Number K6339	Silver Ounces	Silver at $0.64 Per Ton	Gold Ounces	Gold at $35 Per Ton	Total Value Ton	Width Of Cut	REMARKS
1	4.76	3.08	Trace	Nil	3.08	31"	Hot to HW or F. Wall. Roof Cut
2	.97	0.97	Trace	Nil	.96	48"	" " "
3	1.42	0.92	0.06	2.10	3.52	36"	" " "
4	4.44	2.87	0.06	2.10	4.97	28"	" " "
5	x	x	0.16	5.60	5.60	24"	" " "
6	1.00	0.64	0.18	6.30	6.94	34"	" " "
7	4.72	3.06	0.50	28.00	31.06	36"	" " "
8	3.20	2.08	0.20	7.00	9.08	30"	HW side "
9	2.46	1.59	0.10	3.50	5.09	32"	" " "
10	4.60	2.98	0.10	3.50	6.48	49"	" " "
11	5.36	3.48	0.12	4.20	7.68	30"	" " "
12	1.00	0.64	0.20	7.00	7.64	24"	" " "
13	4.60	2.98	0.12	4.20	7.18	47"	" " "
14	3.00	1.94	0.12	4.20	6.14	36"	Quartzite Syke in Face
15	4.69	3.04	0.20	7.00	10.04	120"	Across Vein in Cross Cut
16	1.80	1.16	0.20	7.00	8.16	42"	18" HW 24" FW Diorite Horse 30" Center
17	2.00	1.29	0.16	5.60	6.89	69"	38" HW 21" FW " " 11" "
18	2.00	1.29	0.18	6.30	7.59	39"	In Caved Portion (Roof Cut)
19	1.50	0.97	0.16	5.60	6.57	138"	Across Fractured Zone (Side of Drift)
20	3.70	2.39	0.20	7.00	9.39	36"	Cross Cut Still in Vein (Face)
21	5.84	3.78	0.10	3.50	7.28	48"	On FW Side of Vein Old Shaft 60' level
22	4.34	2.80	0.18	6.30	9.10	108"	Across Vein in Cross Cut Well Defined
23	x	x	trace	Nil	x	16"	Small Manganese Lense, In Cross Cut
24	4.20	2.69	Trace	Nil	2.69	180"	Grab Sample on Surface
25	4.70	3.04	0.12	4.20	7.24		Chip Sample on Quartzite Blowout
26	Trace	Nil	0.06	2.10	2.10		Sample from Dump Prospect Hole
27	2.28	1.48	0.12	4.20	5.68	30"	Across North Side Prospect Hole
28	x	x	0.28	9.80	9.80	36"	Lower Tunnel
29	3.60	2.33	0.12	4.20	6.53	48"	Lower Tunnel
30	2.40	1.53	0.16	5.60	7.13	60"	60' Level Lower Shaft FW Side

Note: Total of 30 assays $211.61 or an average of $7.05

Date probably 1939 or earlier.