

Huntington - Kane
ARCA CONSOLIDATED MINES COMPANY

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REPORT
on the
THE GARFIELD COPPER COMPANY
situated in
THE HASTHORPE MINING DISTRICT
MINERAL CO., NEVADA.
by
A. T. BAGGS
AUGUST 20th 1917

THE GARFIELD COPPER COMPANY PROPERTY

AUGUST 20th 1917.

LOCATION: The Garfield Copper Co. property is located in the Hawthorne Mining District, Mineral County, Nevada, about one mile south-east of the old La Panta gold mine. It is reached by two fair wagon roads, the one to Kinkaid Siding, a station on the Hazen-Mina branch of the Southern Pacific Railroad, being approximately seven miles and sandy, the other to Hawthorne, via Panlico, being about thirteen miles and very good after reaching the Hawthorne-Mina county road about one mile south-west of the cabins.

CLAIMS: The group of claims consists of fourteen locations namely: Copper Bug, Copper Bug Nos. 1, 2, 3, 4, 5, 6, 7, and 8, Gold Bug, Gold Bug Nos. 1, 2, 3, and 4. All locations are 1500 feet long by 600 feet wide covering the ground without fractions or conflicts according to the statement of the owners but so few of the corner posts are in place that it will be necessary for an amended location survey to be made before the property is free from possible litigation.

OWNERS: The owners are P. J. Williams of Reno, Nevada, J. A. Harvey, and D. B. Shepherd of Mina, Nevada. Title being acquired January 1917 by location.

TOPOGRAPHY: The property is situated in the steeply rolling hills of the northern extremity of the Excelsior Mountains. Vegetation is practically nil, consisting chiefly of occasional bunches of grass and desert shade scale. The nearest water is at the Panlico Mill, two and one-half miles west, which is piped nine miles from Cottonwood Canyon.

AREAL GEOLOGY: The areal geology, as shown on plate No. 1, consists of a Pre-tertiary limestone grading from almost pure Calcium Carbonate to a hard sil-

THE GARFIELD COPPER CO. PROPERTY cont.

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AREAL
GEOLOGY
cont.

coarse shale. Lying to the east and in places intruding into the limestone is a granitic porphyry showing Quartz, Felspar, Mica, and Hornblende which has tilted, folded, and faulted the limestone beds and produced numerous small fissure veins in the limestone. Overlying the granite and the limestone to the southeast is a capping of Tertiary Basalt covering all traces of mineralization in that direction.

ECONOMIC
GEOLOGY:

There are three distinct systems of mineral deposits on the property, i.e., quartz fissure veins in the limestone, contact veins along the contact of the granite and the limestone, and quartz gash veins along fractures in the granite. The fissure veins in the limestone vary from a small seam to about four feet wide and show strong signs of leaching by the gossan of iron which is prevalent in all veins of this type examined. They carry fair values in gold with traces of silver and a very few stains of copper carbonate. By sinking to the ground water level, which distance is indeterminable, it is possible that a good grade of copper ore might be found. However the width of the veins do not warrant extensive development. The contact veins occur at irregular intervals along the contact of the granite and the limestone and while rich in places these places are so small and far between that their economic value is practically nothing. The gash veins in the granite occur in two small zones on the Copper Bug Lode and are accompanied by contact minerals, i.e., quartz, epidote, garnet, mica, chalcopyrite, and etc. These veins are small but have been gouged out at a small profit. About 150 feet to the south of the discovery monument of the Copper Bug Lode is a small peak 25 feet in diameter of micaceous material showing flakes of white mica one inch square. This is of no commercial importance.

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DEVELOPMENT There has been considerable work done on the property mainly in the
and
ASSAYS: limestone following the quartz veins which are principally gold produc-
ors. On the Gold Bug Lode there are two tunnels one 50 feet above the
other on the same vein and in each is a winze 30 to 40 feet deep. There
were no means on the ground for entering these winzes so the vein around
them was sampled and showed from a trace of gold to \$0.60 and no silver
or copper. On the Gold Bug No. 1 Lode a shaft has been sunk about 200
feet vertical also an incline winze from the shaft, about 50 feet below
the surface, along the vein for a distance of 130 feet. The vein here
varies from 12 inches to 4 feet in width and \$3.00 to \$9.40 gold, no
silver and a small stain of copper carbonate was noted in one place near
the bottom of the winze. This work was all done in the "Old Days"
when the mine was known as the Evening Star.

Along the contact there are a number of small open cuts and shafts. The
deepest of these being 15 feet below the surface. The vein here varies
from nothing to twelve feet in width and the samples taken from the
most promising places assayed \$41.05 to \$52.60. A small quantity of ore
of shipping grade could be taken out here by careful mining and sorting
but owing to the inconsistency of the vein it is probable that a real
mine could be developed. In most places the ore has been gouged out
leaving nothing but a stringer to follow to the next bunch of ore. The
mineralized zone here is about 1000 feet in length. No positive tonnage
can be calculated.

The principal ore zone lies at the east end of the Copper Bug Lode
where there are two small areas of copper bearing fissures and lenses
in the granite. At the discovery of the Copper Bug Lode an area 50 feet

THE GARFIELD COPPER CO. PROPERTY cont.

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DEVELOPMENT
and
ASSAYS
cont.

long by 25 feet wide shows copper stains along the fracture planes while in the main fissure ore of commercial value has been carefully sorted and shipped. The veins have not been developed more than 15 feet below the surface. A tunnel goes under part of the area and in barren granite the whole distance of 25 feet. About 100 feet east of the discovery monument is a second area about 40 feet in diameter probably associated with the first. A small shaft has been sunk on the principal fissure for 20 feet but the vein has been leached out leaving copper stains on the fracture planes of the granite. A tunnel begining at the collar of the shaft cuts this area at a depth of 10 feet below the surface also two open cuts have been started. of the samples taken on the whole zone a width is shown varying from six inches to eight feet and value from \$1.47 to \$41.89. A possible small out-put of ore might be estimated on this zone but the area is so small that it would hardly pay to install a plant of working size to exploit it.

CONCLUSIONS: Owing to the present high price of silver and copper this property could be made to pay a small profit by careful mining and sorting provided a dozen or so miners were set to work following the streaks and taking out the ore as they came to it. Ore can be delivered to the railroad at about \$4.00 per ton. Taken as a whole the property is of doubtful value as a real mine.

J. J. Flagg

Examining Engineer.

THE GARFIELD COPPER CO.

ASSAYS

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Sample Number	Description	Ozs. Ozs. Per cent Total		
		Gold	Silver	Copper Value
7001	Open out Copper Bug No.4 across 6' granite	.00	.00	trace \$0.00
7002	Grab from dump Inc. shaft 75' deep C.B.4.	.65	.02	trace 13.02
7003	X 6ft. vein 10ft down "	.10	trace	- 2.00
7004	X 3ft " " " 10" " C.B.3.	.21	"	.00 4.20
7005	X 12ft twd port from So. Tun. 2. Cu. Bug.	.00	-	trace 0.00
7006	X 15ft " " cont. out 7005	.02	-	.03 1.90
7007	Picked sample Inc. Shaft Bottom Cu. Bug 1.	trace	1.65	3.93 11.05
7008	X 12 feet X bottom "	.02	14.63	2.50 25.33
7009	X $\frac{1}{2}$ " streak in Open out Cu. Bug No.8	.03	1.10	3.53 19.43
7010	X 4ft vein O.C. 10'x10'x5' deep Cu. Bug No.1	.03	8.76	2.26 19.35
7011	X 2ft iron oxides O.C. 20' S.W. Disc. C.B.1	.07	trace	0.00 1.40
7012	Picked sample in O.C. small seams Cu. bug.8	.05	"	6.19 31.95
7013	X 3 feet Contact minerals Inc Cut Disc C.B.	.03	4.11	7.56 41.89
7014	X 8" in O.C. Bedx5ft deep Disc C.B. Sulphides	.00	.00	1.47 7.35
7015	X 2" Qtz. Lt. side Oz. Tun. No.1 Gold Bug	.03	trace	- 0.60
7016	" X 2" Lt. " " " " "	.02	.00	- 0.40
7017	X 3" Qtz. 10ft in from 7016 "	.03	trace	- 0.60
7018	X 2" " Over winza in Tun. No2 "	.00	.00	- 0.00
7019	Picked sample over 6 ft vein in O.C. on C.B. 300 feet S.W. of disc. on Contact.	.01	6.77	9.33 52.60
7020	Picked sample X 2ft vein like peak	.00	.00	1.33 6.65
7021	X 6ft West side shaft 15' down Cu. Bug.	.04	1.16	1.00 6.78
7022	X 3ft East " " " " "	.04	1.50	1.18 7.97
7023	Picked sample X 12" vein O.C. No.2 Cu. Bug.	.00	1.00	3.04 16.05
7024	" " " X 3ft " " No.1 " "	.01	.00	2.36 12.00
7025	X 3ft broken vein under O.C. No.2 "	.02	2.61	2.06 12.91

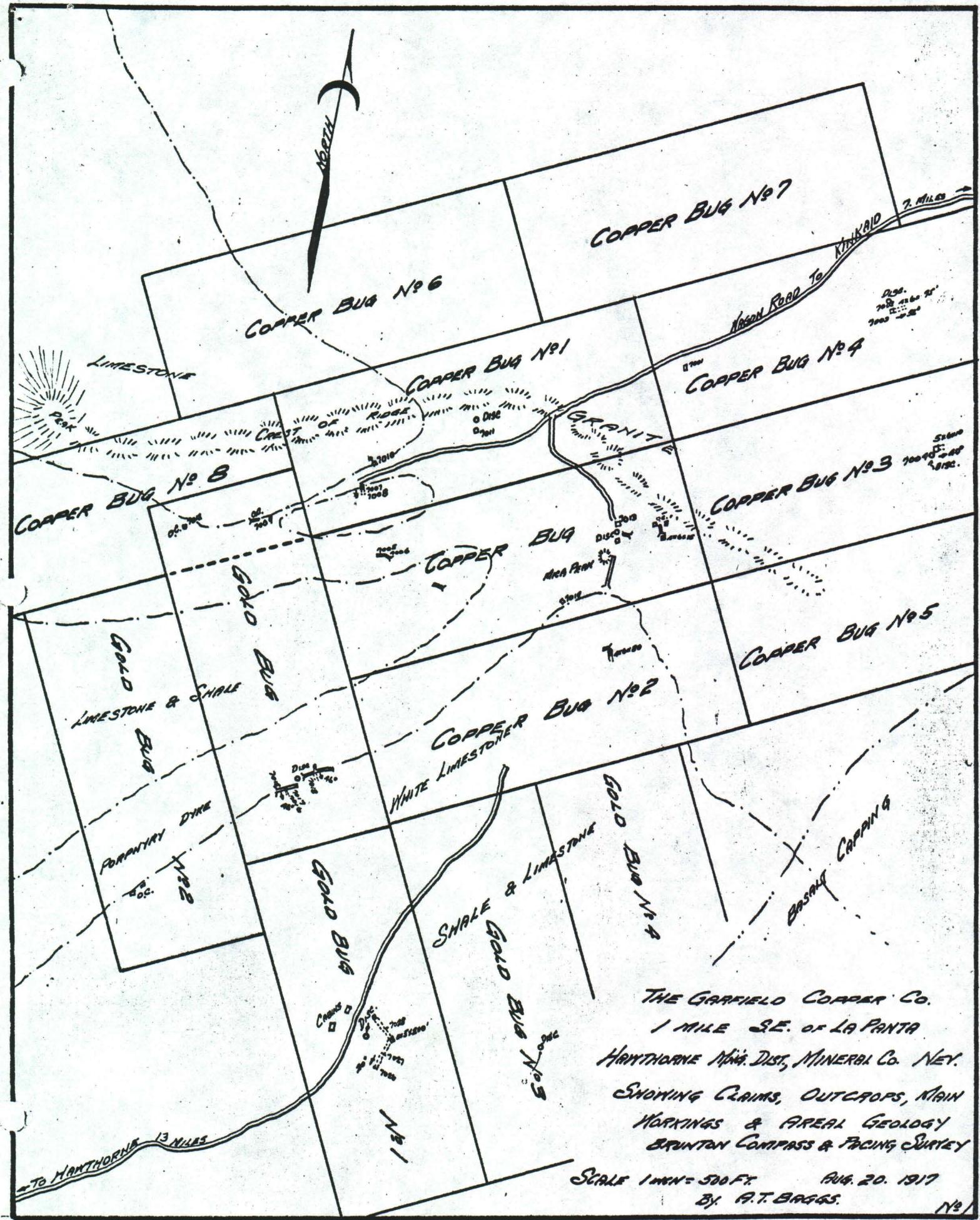
THE GARFIELD COPPER CO.

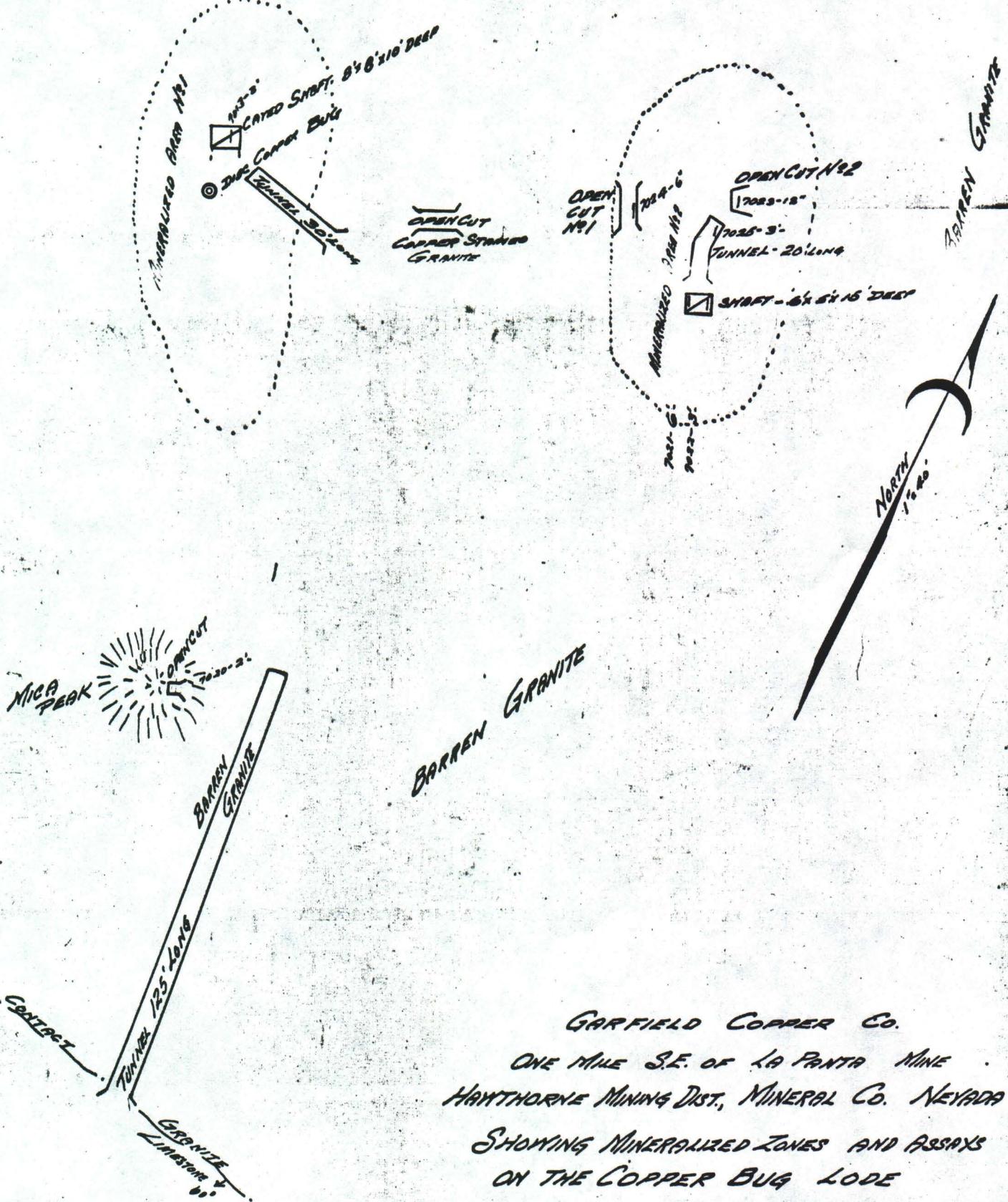
ASSAYS

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Sample Number	Description	Ounces	Ounces	Percent	Total Gold	Silver	Copper	Value
7026	X 3ft. Qtz at bottom long Inc. H. Gold Bug I.	.15	trace	0.0	\$ 3.00			
7027	X 2ft " 60ft above 7026 "	.47	"	"	9.40			
7028	X 2ft Qtz 20ft north of 200' shaft in drift	.34	"	"	6.80			

Total Value calculated as follows; Gold \$20.00 per ounce, Silver \$.85 per ounce, and Copper at 6.25 per pound.





GARFIELD COPPER CO.
ONE MILE S.E. OF LA PANTA MINE
HAWTHORNE MINING DIST., MINERAL CO., NEVADA
SHOWING MINERALIZED ZONES AND ASSAYS
ON THE COPPER BUG LODE

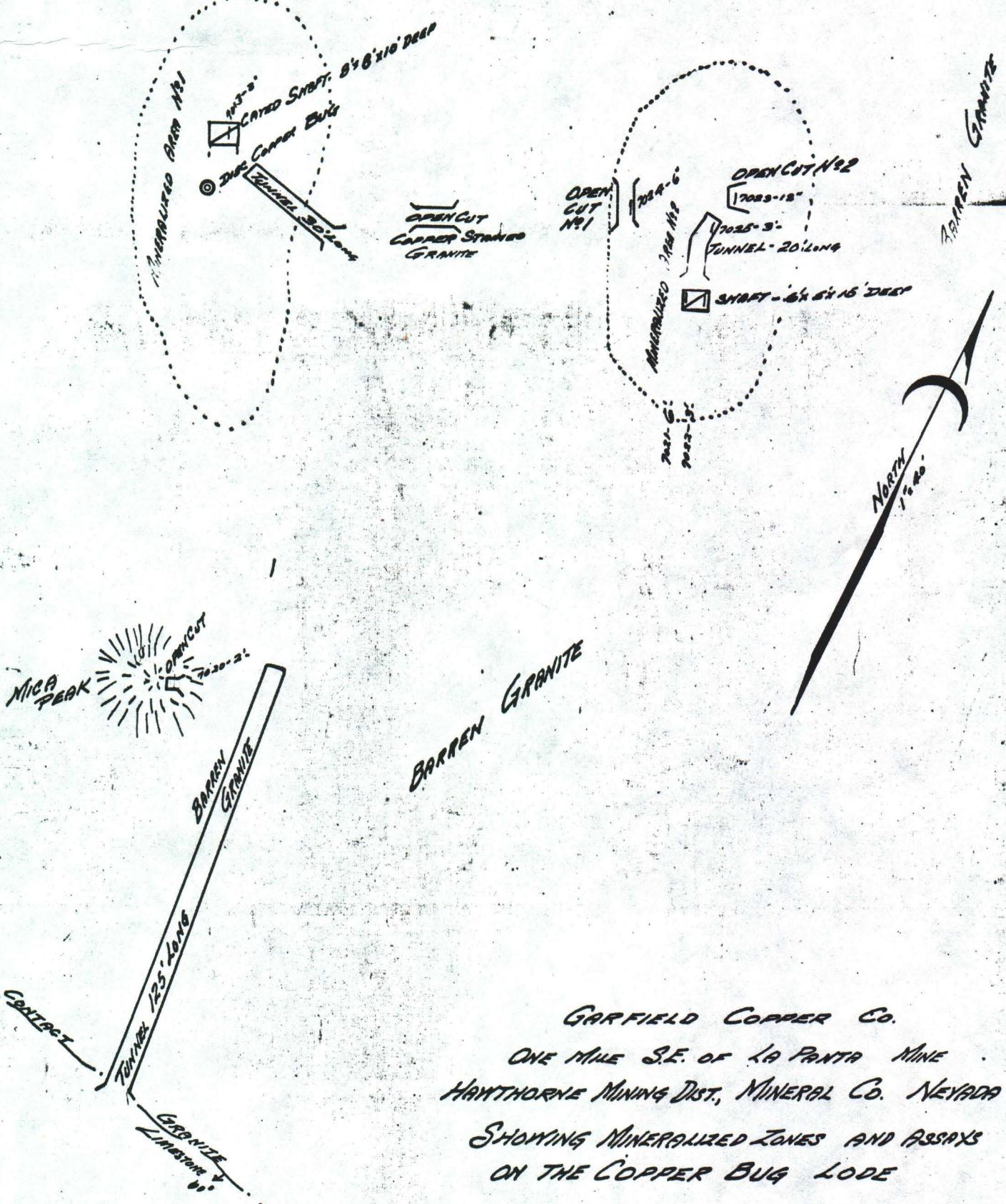
SCALE 1 INCH = 90 FT

AUGUST 20 1917

BY A.T. BAGGS

SOUTH SIDE LINE COPPER BUG
NORTH SIDE LINE COPPER BUG N°2

No. 2



GARFIELD COPPER CO.
ONE MILE S.E. OF LA PONTE MINE
HANTHORNE MINING DIST., MINERAL CO., NEVADA
SHOWING MINERALIZED ZONES AND ASSAYS
ON THE COPPER BUG LODE

SCALE 1 INCH = 40 FT

AUGUST 20 1917

BY A.T. BAGGS

SOUTH SIDE LINE COPPER BUG
NORTH SIDE LINE COPPER BUG NO. 2

No. 2