



CONTACT INFORMATION  
Mining Records Curator  
Arizona Geological Survey  
3550 N. Central Ave, 2nd floor  
Phoenix, AZ, 85012  
602-771-1601  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

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## COPPER MOUNTAIN.

An old mine with values in Au/ ag. and cu. May still contain some pay ore.

There was an old dump of roasted ore near the smelter some of which carried 0.4 oz. Au., 4 oz. Ag., and 1.5% cu.

Some of this might pay to ship. See Celora

Stoddard.

(Celora Stoddard, Phoenix.

Ship from Copper Mountain (Mayer)

4000 to 5000 tons ore (about as follows:

Au.....0.01 oz.

Ag.....0.3

Cu.....4.6

Fe.....18.

CaO.....13

SiO<sub>2</sub>.....36

MgO.....1a

Probably 20 tons per day. Ready to start in May (1930) and will probably ship to Magma until we are ready.

COPPER MOUNTAIN (Old Stoddard Mine)

(18 patented claims)

District: Copper Mountain, Yavapai County  
Location:  $2\frac{1}{2}$  mi. S. Binghamton Mine.  $3\frac{1}{2}$  Mi. Mayer, 13.7 mi. Humboldt. Agua Fria Mining District.  
Owners & Operators: Copper Mountain Mines Co., recently incorporated by Celora M. Stoddard and D. A. Foster. Idle for ten years. Two men now working.  
Date Visited: August 2nd, 1917.

Notes

Yavapai schist and quartz diorite. Numerous tunnels, now caved, with large dumps showing small amounts of copper stained rock. One crosscut tunnel, 400' long, in which two Mexicans now working, with caved winze, said to be 300' deep. Very little copper observed in tunnel, but outside, on dump, is a small pile of rock surface ore containing chalcocite, malachite, azurite and chalcopyrite obtained from porphyritic belts in schist. Towards top of hill are two incline shafts with no timbers and water in bottom. On the Agua Fria River are the remains of an old smelter, a small slag pile, some of which is rich, and about a carload of coke. An old prospect worked 30 years ago with possibilities.



## COPPER MOUNTAIN MINES CO.

Location: The Copper Mountain Mine is situated on the northern end of Copper Mountain, about two miles south of the town of Stoddard, in Yavapai County, Arizona. It is connected with the railroad at Mayer by a fair wagon road.

This property is owned by the Copper Mountain Mines Co. and is being operated at present in conjunction with the Arizona Binghamton Copper Co., of Stoddard, Arizona, under the management of Geo. W. Johnson.

Geology: The rocks in the vicinity consist of Yavapai schist formation and rhyolite which has been intruded into it. The outcrop consists of a highly silicified schist of quartzite which forms the apex of the mountain. This quartzite strikes north and south and dips steeply to the west.

The rhyolite lies east of and under the quartzite and is very much decomposed in the upper workings.

Orebodies: The orebodies outcrop along small fissures in the quartzite and rhyolite near the top of the ridge. The fissures in the quartzite strike about North 25 degs. West magnetic and dip about 70 deg. West and are approximately parallel to the laminations of the schists. In the rhyolite and normal schist the fissures run parallel to the above and at approximately right angles to them.

The ores at the surface consist of malachite, azurite and cuprite in a gangue of crushed wall rocks and quartz. They are unquestionably concentrations along fissures by descending solutions. In the deeper workings the ores consist of pyrite and a very little chalcoppyrite in a similar gangue.

Workings: The workings are quite extensive and consist of an open cuts and pits along the outcrop at an elevation of 4740 feet; No. 1 tunnel workings at 4690 feet elevation; No. 2 tunnel workings at 4610 feet elevation; No. 3 tunnel workings at 4470 feet elevation, and the workings on the 300 foot level of the winze below No. 3 tunnel. All elevations were taken with aneroid.



No. 1 tunnel was driven along a narrow vein in rhyolite, showing rich oxidized copper minerals. This is connected with No. 2 tunnel by raises and all the widest portions stoped to the surface and below the level. There is practically nothing left that can be extracted at a profit.

No. 2 tunnel is also driven on a narrow vein and is connected, as stated, to No. 1 tunnel. It is cut by a number of north and south fissures carrying a few inches of quartz and gouge with some oxidized copper ores. The larger portions of which have been stoped a few feet above the level. Beyond the point where this tunnel branches it penetrates very hard quartzite, which shows practically no mineralization. It is connected with No. 3 tunnel by open stopes which could not be examined.

No. 3 tunnel is accessible only as far as the main winze. It follows a fissure parallel to those of No. 1 and No. 2 tunnels. It is cut in a number of places with cross fissures containing quartz and gouge, the quartz generally showing considerable amounts of pyrite which appears to contain little or no copper. Just beyond the winze a drift, stoped above, was examined for a short distance. It was nearly closed and showed nothing but a soft schist consisting of quartz stringers about 1/2 inch wide in a white mud. Three of the cross fissures have been driven on for about 100' each, but show nothing but quartz and gouge carrying 10 to 25% pyrite and having a maximum width of about 3'. These workings are shown on assay map appended.

About 600' northwest of the portal of No. 3 tunnel three shallow shafts have been sunk along an altered zone in the schist, close to a rhyolite intrusion which has a northwesterly direction. The southeasterly shaft is about 20' deep. It is in altered schist and shows no mineralization. The other two shafts cut several small lenses of very finely disseminated pyrite and schist. The northerly shaft is 150' deep with a small lense of pyrite at the 100' level, which assays .20 oz. gold, 2.90 oz. silver, and 2.06% copper. It is being sunk at present and the present bottom is in very hard dense gray rock, probably rhyolite.

Samples & Assays \_

The attached map showing width and position of samples and the list of assays were made by the former management. They show that nothing of value is left in the old workings above No. 3 tunnel.

There are about 200 tons of roasted ore on the dump, from which three cars shipped to Consolidated Arizona Smelting Co. assayed as follows:

11/28/17	Cu. 1.37%	Au. 0.36 oz.	Ag. 3.92 oz.
12/ 3/18	Cu. 1.36%	Au. 0.34 oz.	Ag. 3.66 oz.
12/ 9/17	Cu. 1.46%	Au. 0.40 oz.	Ag. 4.24 oz.

Sample 1001 was taken from a pile of fine ore that had been saved to cover a roast pile which contains about 100 tons of raw ore. It assayed Cu. 0.83%; Au. 0.18 oz; Ag. 0.62 oz.

Conclusions: I believe that any ore found in deeper workings will be heavy pyritic ore containing very little copper. There are no indications anywhere of a large orebody, so that I do not believe the property will ever be profitable.

Yours respectfully,

MINING ENGINEER.

Note by G. M. C. October, 1937.

This report was made about 1918 or 1919 by an engineer employed by the Arizona Binghamton Co. whose name I do not recall. Little or no work has been done there since that date and the remaining material is probably too low grade to mine and the conclusion can be accepted.

G.M.C.



COPPER MOUNTAIN  
(STODDARD)

Copper Mountain District, Yavapai County

2½ miles South of Binghamton Mine. 3½ miles from Mayer, 13.7 miles from Humboldt. Agua Fria Mining District.

OWNERS & OPERATORS: Copper Mountain Mines Co., recently incorporated by Celora M. Stoddard and D. A. Foster, Idle for ten years. Two men now working.

Visited August 2nd, 1917.

Yavapai schist and quartz diorite. Numerous tunnels, now caved, with large dumps showing small amounts of copper stained rock. One crosscut tunnel, 400' long, in which two Mexicans are now working, with caved winze, said to be 300' deep. Very little copper observed in tunnel but outside on dump is a small pile of rich surface ore containing chalcocite, malachite, azurite and chalcopyrite obtained from porphyritic belts in schist. Towards top of hill are two incline shafts with no timbers and water in bottom. On the Agua Fria River are the remains of an old smelter, a small slag pile, some of which is rich, and about a carload of coke. An old prospect worked thirty years ago with possibilities.

L. F. S. Holland



## COPPER MOUNTAIN MINES COMPANY.

Mayer , Arizona

No.	Cu.	Au.	Ag.	No.	Cu.	Au.	Ag.
186	Tr	0	0	9	.50		
87	10	0	0	10	4.09		
88	19	0	0	11	3.38		
89	12	0	0	12	2.07		
190	0	0	0	13	1.85		
91	0	0	0	14	3.54	Tr	Tr
92	0	Tr	0	15	.51	0	.18
93	0	Tr	0	16	3.25	0	.39
94		Tr	Tr	17	.63	0	.12
95		Tr	Tr	18	.57	0	.13
96		Tr	10	19	2.83	0	.20
97		Tr	Tr	20	.31	.05	.14
98		Tr	Tr	21	.40	.025	.45
99		Tr	Tr	22	2.88	Tr	.16
200		Tr	Tr	23	15	0	0
1		Tr	Tr	24	1.89	0	0
2		Tr	Tr	25	.70	.02	.31
3		Tr	Tr	26	.89	0	0
4	Tr	Tr	Tr	27	1.65	Tr	.18
5	0	0	0	28	2.52	0	0
6	0	0	0	29	3.68	0	0
7	0	0	0	41R	20	0	0
8	0	0	0	42L	35	0	0
9	Tr.	Tr	Tr	43R	10	0	0
210	Tr.	Tr	Tr	44L	44	0	0
11	Tr.	Tr	Tr	45	2.39	0	0
12	Tr.	Tr	Tr	46	49	0	0
13		Tr	Tr	47	30	0	0
14		Tr	Tr	48	32	0	0
15		Tr	Tr	49	15	0	0
216	0	0	0	50	25	0	0
17	0	0	0				0
18	0	0	0				
19	0	0	0				
20	.45	Tr	Tr				
21	6.52	.015	1.15				
22	8.35	.02	1.40				
23	6.35	.015	1.04				

START

1	6.30	.0	0
2L	3.33	0	0
2R	2.89	0	0
3L	1.67	0	0
3R	2.74	0	0
4L	2.89	0Tr	Tr.
4R	4.42	0	0
5L	2.84	0	0
5R	3.13	0	0
6L	.15	0	0
6R	.45	0	0
7L	.27	0	0
7R	.19	0	0
8L	.20	0	0
8R	.15	0	0

COPPER MOUNTAIN ASSAYS  
MAYER, ARIZONA

No.	Cu. %	Au. Oz.	Ag. oz.
51	.18	0	0
2	.08	0	0
3	.35		
4	.50		
5	1.57		
6	.05		
7	.00		
8	00		
9	00		
60	00		
1			
2	Tr.		
3	1.15		
4	.08		
5	00		
6	Tr		
7	Tr		
8	10		
9	00		
70	Tr		
1	Tr		
2	Tr		
3	Tr		
4	.08		
5	.10		
6	.08		
7			
8			
9	.10		
80	Tr		
80A	Tr		
81	Tr		
2	Tr		
3	Tr		
4	.25		
5	.41		
6	.07		
7	.08		
8	.11		
9	.17		
90	.29		
1	.12		
2	.07		
3	.19		
4	Tr		
5	Tr		
6	Tr		
7	Tr		
8	Tr		
9	Tr		
100	Tr		



## Copper Mountain Mines Co.

No.	Cu.	Au.	Ag.	No.	Cu.	Au.	Ag.
101	.07	.0	0	155	.67	Tr	.20
2	.03	0	0	156	2.13	.01	.56
3	Tr	0	0	157	1.99	Tr	.16
4	Tr	0	0	158	.30	Tr	.32
5	Tr	0	0	159	.66	Tr	.48
6	Tr	0	0	160	.72	Tr	.44
7	Tr	0	0	161	10.80	.01	1.68
8	.23	0	0	162	.10	Tr	.20
9	Tr	0	0	163	.17	Tr	.10
110	Tr	0	0	164	.05	Tr	Tr
11	.35	0	0	165	.00	Tr	.12
12	.63	0	0	166	.32	.015	.56
13	.84	0	0	167	.30	Tr	.01
14	.30	0	0	168	1.05	Tr	.12
15	1.36	0	0	169	.12	Tr	Tr
16	2.63	0	0	179	.27	0	0
17	1.76	0	Tr	171	1.20	0	0
18	4.79	Tr	.45	172	0	Trace	.32
19	5.21	.02	1.19	173	.30	0	0
120	1.52	0	0	174	.12	0	0
21	2.35	0	Tr	175	.15	0	0
22	.35	0	Tr	176	0	0	0
23	3.87	Tr	1.24	177	0	0	0
24	0	0	0	178	0	0	0
25	.07	0	Tr	179	0	0	0
26	Tr	0	0	180	0	0	0
27	Tr	0	0	181	2.10	.025	1.95
28	Tr	0	0	182	0	0	0
29	Tr	0	0	184	.10	0	0
30	Tr	0	0	184	.12	0	0
131	0	0	0	185	.12	0	0
32	0	0	0				
33	00	0	0				
34	0	0	0				
134A	0	0	0				
134B	.40	Tr	.67				
135	0	0	0				
135B	0	0	.12				
136	0	0	0				
136B	0	0	.15				
137	0	0	0				
138	0	0	0				
138B	0	0	.24				
139	.08	0	0				
139B	Tr	Tr	10				
140B	Tr	Tr	.25				
140B	1.05	.02	1.08				
141	Tr	.02	.44				
142	1.68	.02	1.10				
143	Tr	Tr	Tr				
144	.22	Tr	.10				
145	2.08	.01	.38				
146	4.41	.01	.76				
147	.55	.015	.44				
148	1.99	.02	.85				
149	.35	Tr	.20				
150	.32	Tr	.24				
151	.51	Tr	.12				
152	.27	Tr	.12				
153	3.00	.02	.92				
154	.12	Tr	Tr				



## REPORT ON COPPER MOUNTAIN MINES COMPANY

### MAYER- ARIZONA

#### Location

The Copper Mountain Mine is situated on the northern end of Copper Mountain, about two miles south of the town of Stoddard, in Yavapai County, Arizona. It is connected with the railroad at Mayer by a fair wagon road.

This property is owned by the Copper Mountain Mines Company and is being operated at present in conjunction with the Arizona Binghamton Copper Company, of Stoddard, Arizona, under the management of Mr. Geo. W. Johnson.

#### Geology

The rocks in the vicinity consist of Yavapai schist formation and rhyolite which has been intruded into it. The outcrop consists of a highly silicified schist of quartzite which forms the apex of the mountain. This quartzite strikes north and south and dips steeply to the west.

The rhyolite lies east of and under the quartzite and is very much decomposed in the upper workings.

#### Orebodies

The orebodies outcrop along small fissures in the quartzite and rhyolite near the top of the ridge. The fissures in the quartzite strike about North 25° West magnetic and dip about 70° West and are approximately parallel to the laminations of the schists. In the rhyolite and normal schist, the fissures run parallel to the above and at approximately right angles to them.

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#### Workings

The workings are quite extensive and consist of open cuts and pits along the outcrop at an elevation of 4740 feet;



No. 1 tunnel workings at 4690 feet elevation; No. 2 tunnel workings at 4610 feet elevation; No. 3 tunnel workings at 4470 feet elevation, and the workings on the 300 foot level of the winze below No. 3 tunnel. All elevations were taken with aneroid.

No. 1 tunnel was driven along a narrow vein in rhyolite, showing rich oxidized copper minerals. This is connected with No. 2 tunnel by raises and all the widest portions stoped to the surface and below the level. There is practically nothing left that can be extracted at a profit.

No. 2 tunnel is also driven on a narrow vein and is connected, as stated, to No. 1 tunnel. It is cut by a number of north and south fissures carrying a few inches of quartz and gouge with some oxidized copper ores, the larger portions of which have been stoped a few feet above the level. Beyond the point where this tunnel branches it penetrates very hard quartzite, which shows practically no mineralization. It is connected with No. 3 tunnel by open stopes which could not be examined.

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About 600 feet northwest of the portal of No. 3 tunnel three shallow shafts have been sunk along an altered



zone in the schist, close to a rhyolite intrusion which has a northwesterly direction. The southeasterly shaft is about 20 feet deep. It is in altered schist and shows no mineralization. The other two shafts cut several small lenses of very finely disseminated pyrite and schist. The northerly shaft is 150 feet deep with a small lense of pyrite at the 100 foot level, which assays 0.20 oz. gold, 2.90 oz. silver, and 2.06% copper. It is being sunk at present and the present bottom is in very hard dense gray rock, probably rhyolite.

#### Samples & Assays

The attached map showing width and position of samples and the list of assays were made by the former management. They show that nothing of value is left in the old workings above No. 3 tunnel.

There are about 200 tons of roasted ore on the dump, from which three cars shipped to Consolidated Arizona Smelting Company assayed as follows:

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Sample 1001 was taken from a pile of fine ore that had been saved to cover a roast pile which contains about 100 tons of raw ore. It assayed Cu. 0.83%; Au. 0.18 oz.; Ag. 0.62 oz.

#### Conclusions

I believe that any ore found in deeper workings will be heavy pyritic ore containing very little copper. There are no indications anywhere of a large orebody, so that I do not believe the property will ever be profitable.

Yours respectfully,

MINING ENGINEER.

*Note by S.M.C. Oct. 37*

*This report was made about 1918 or 1919 by an engineer employed by the Arizona Binghamton Co. - whose name I do not recall. Little or no work has been done there since that date & the remaining material is probably "3" too low grade to mine & the conclusion can be accepted.*

*S.M.C.*



# COPPER MOUNTAIN ASSAYS

## MAYER - ARIZONA

No.	Cu. %	Au. Oz.	Ag Oz.
51	.18	.0	.0
2	.08	.0	.0
3	.35		
4	.50		
5	1.57		
6	.05		
7	.00		
8	.00		
9	.00		
60	.00		
1	Tr		
2	Tr		
3	1.15		
4	.08		
5	.00		
6	Tr		
7	Tr		
8	10		
9	.00		
70	Tr		
1	Tr		
2	Tr		
3	Tr		
4	.08		
5	.10		
6	.08		
7			
8			
9	10		
80	Tr		
80A	Tr		
81	Tr		
2	Tr		
3	Tr		
4	.25		
5	.41		
6	.07		
7	.08		
8	.11		
9	.17		
90	.29		
1	.12		
2	.07		
3	.19		
4	Tr		
5	Tr		
6	Tr		
7	Tr		
8	Tr		
9	Tr		
100	Tr		



## COPPER MOUNTAIN MINES COMPANY

## MAYER - ARIZONA

No.	Cu.	Au.	Ag.	No.	Cu.	Au.	Ag.
186	Tr	0	.0	9	.50		
87	10	0	0	10	4.09		
88	19	0	0	11	3.38		
89	12	0	0	12	2.07		
190	.0	0	0	13	1.85		
91	0	0	0	14	3.54	Tr	Tr
92	0	Tr	0	15	.51	.0	.18
93	0	Tr	0	16	3.25	.0	.39
94		Tr	Tr	17	.63	0	.12
95		Tr	Tr	18	.57	0	.13
96		Tr	10	19	2.83	0	.20
97		Tr	Tr	20	.31	.05	.14
98		Tr	Tr	21	.40	.025	.45
99		Tr	Tr	22	2.88	Tr	.16
200		Tr	Tr	23	15	0	0
1		Tr	Tr	24	1.89	0	0
2		Tr	Tr	25	.70	.02	.31
3		Tr	Tr	26	.89	0	0
4	Tr	Tr	Tr	27	1.65	Tr	.18
5	0	0	0	28	2.52	.0	.0
6	0	0	0	29	3.68	.0	0
7	0	0	0	41R	20	0	0
8	0	0	0	42L	35	.0	.0
9	Tr	Tr	Tr	43R	10	.0	.0
210	Tr	Tr	Tr	44L	44	0	0
11	Tr	Tr	Tr	45	2.39	0	0
12	Tr	Tr	Tr	46	49	0	0
13		Tr	Tr	47	30	0	0
14		Tr	Tr	48	32	0	0
15		Tr	Tr	49	15	0	0
216	0	0	0	50	25	0	0
17	0	0	0				
18	0	0	0				
19	0	0	0				
20	.45	Tr	Tr				
21	6.52	.015	1.15				
22	8.35	.02	1.40				
23	6.35	.015	1.04				

START

1	6.30	.0	.0
2L	3.33	.0	.0
2R	2.89	.0	.0
3L	1.67	0	0
3R	2.74	0	0
4L	2.89	0	0
4R	4.42	Tr	Tr
5L	2.64	0	0
5R	3.13	.0	.0
6L	.15	0	0
6R	.45	0	0
7L	.27	0	0
7R	.10	0	0
8L	.20	0	0
8R	.15	0	0



## COPPER MOUNTAIN MINES COMPANY

## MAYER - ARIZONA

No.	Cu.	Au.	Ag.	No.	Cu.	Au.	Ag.
101	.07	.0	.0	160	72	Tr	.44
2	.03	.0	.0	61	10.80	.01	1.68
3	Tr	.0	.0	62	10	Tr	.20
4	Tr	.0	.0	63	17	Tr	.10
5	Tr	0	0	64	.05	Tr	Tr
6	Tr	0	0	65	00	Tr	.12
7	Tr	0	0	66	.82	015	.56
8	.23	0	0	67	.30	Tr	.01
9	Tr	0	0	68	1.05	Tr	.12
110	Tr	0	0	69	.12	Tr	Tr
11	.35	0	0	70	.27	.0	.0
12	.63	0	0	171	1.20	0	0
13	.84	0	0	72	0	Tr	.32
14	.30	0	0	73	.30	0	0
15	1.36	0	0	74	.12	0	0
16	2.63	0	0	75	15	0	0
17	1.76	0	Tr	76	0	0	0
18	4.79	Tr	.45	77	0	0	0
19	5.21	.02	1.19	78	0	0	0
120	1.52	.0	.0	79	0	0	0
21	2.35	0	Tr	80	0	0	0
22	.35	0	Tr	181	2.10	.025	1.95
23	3.87	Tr	1.24	82	0	.0	.0
24	0	0	0	83	.10	0	0
25	07	0	Tr	84	.12	0	0
26	Tr	0	0	85	12	0	0
27	Tr	0	0				
28	Tr	0	0				
29	Tr	0	0				
30	Tr	0	0				
131	.0	.0	.0				
32	.0	.0	.0				
33	.0	.0	.0				
34	.0	.0	.0				
134A	.0	.0	.0				
134B	.40	Tr	.67				
135	.0	.0	.0				
135B	.0	.0	.12				
136	.0	.0	.0				
136B	.0	.0	.15				
137	.0	.0	.0				
138	.0	.0	.0				
138B	.0	.0	.24				
139	.08	0	0				
139B	Tr	Tr	10				
140B	Tr	Tr	.25				
140B	1.05	.02	1.08				
141	Tr	.02	.44				
142	1.68	.02	1.10				
143	Tr	Tr	Tr				
144	.22	Tr	.10				
145	2.08	.01	.38				
146	4.41	.01	.76				
147	.55	.015	.44				
148	1.99	.02	.85				
149	.35	Tr	.20				
150	.32	Tr	.24				
151	.51	Tr	.12				
152	.27	Tr	.12				
153	3.00	.02	.92				
154	.12	Tr	Tr				
155	.67	Tr	.20				
156	2.13	.01	.56				
157	1.99	Tr	.16				
158	.30	Tr	.32				
159	.66	Tr	.48				



District	Properties	Location	Owners & Operators	Date Visited	Notes
Copper Mountain, Yavapai County.	Copper Mountain (Old Stoddard) Mine. 18 patented claims.	2½ mi. S. Binghamton Mine. 3½ mi. Mayer. 13.7 mi. Humboldt. Agua Fria Mining Dist.	Copper Mountain Mines Co., recently incorporated by Celora M. Stoddard and D. A. Foster. Idle for ten years. Two men now working.	1917 August 2nd.	Yavapai schist and quartz diorite. Numerous tunnels, now caved, with large dumps showing small amounts of copper stained rock. One cross-cut tunnel, 400' long, in which two Mexicans now working, with caved winze, said to be 300' deep. Very little copper observed in tunnel, but outside, on dump, is a small pile of rich surface ore containing chalcocite, malachite, azurite and chalcopyrite obtained from porphyritic belts in schist. Towards top of hill are two incline shafts with no timbers, and water in bottom. On the Agua Fria River are the remains of an old smelter, a small slag pile, some of which is rich, and about a carload of coke. An old prospect worked 30 years ago with possibilities.

Holland



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*copied*

*Humb. Mayer*



SUR. N° 440 1<sup>ST</sup> SOUTH EXTENSION OF  
COPPER MOUNTAIN

SUR. N° 439 COPPER MOUNTAIN

SCALE 1"=40'

Elev. 4470

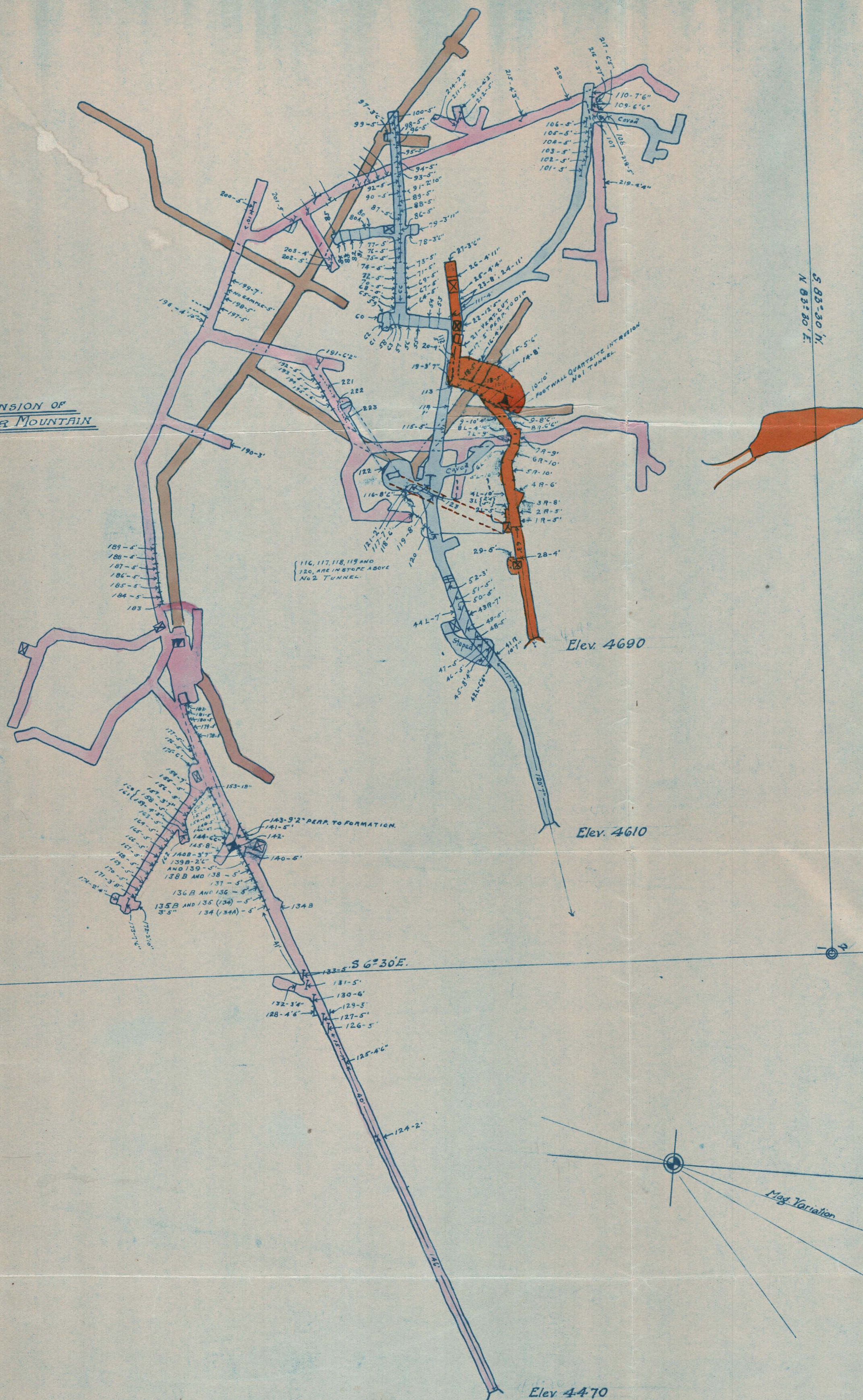
Elev. 4690

Elev. 4610

S 83° 30' N.  
N 83° 30' E.

S 6° 30' E.

Mag. Variation





28/05/00

File

24



SUR. N° 440 1<sup>ST</sup> South Extension of  
COPPER MOUNTAIN

SUR. N° 439 COPPER MOUNTAIN



SCALE 1"=40'

Elev. 4470

Elev. 4690

Elev. 4610

S 6° 30' E

S 6° 30' E

Magn. Variation