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Item 15

Report on the

HUMBOLDT GOLD PROPERTY

near Ryepatch, Humboldt Co. Nevada.

by

Wilbur H. Grant

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HUMBOLDT GOLD PROPERTY

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LOCATION

The Humboldt Gold Property is situated in the west foothills of the Humboldt Range. It is located about three miles east of the main line of the Southern Pacific Railroad, ten miles by wagon road southeast of Humboldt Station and sixteen miles from Imlay, the nearest railroad station where transportation to the property can be secured.

The nearest operating mine is the Star Peak Mine which occupies the crest of the Humboldt Range about two miles to the northeast.

DESCRIPTION OF PROPERTY

The Humboldt Gold Property consists of ten, unpatented, unsurveyed, contiguous claims, owned jointly by Messers Mercer and Colbath and now under option to Mr. G. L. Sheldon of Ely, Nevada. (See sketch claim map, Sheet #1 at back of report) Nine of the claims cover the main mineralized area in the vicinity. The tenth, the Spring Claim, was intended to cover a permanent spring in the creek bottom but this claim was found to conflict with a mining claim which already covers this spring. It is understood that the owner of the claim which covers the spring is willing to give an option on his claim at a reasonable figure. Other conflicting claims were noted on the ground but the notices all seemed old and the claims have probably run out but no effort was made to

determine this point.

The property is decidedly a prospect as there are no buildings nor machinery on the claims. The only improvements consist of an old abandoned wood road which crosses the north end of the property and two new tunnels at the south end of the Mayflower Claim which have a total length of 270 feet, of drifts and cross-cuts. (See pictures and assay map sheet #2 at back of report) A few other pits were noted elsewhere on the property but it is doubtful if they are sufficient to fulfill the requirements for location work.

GEOLOGY

Rocks: The rocks found on the property are slate, inter-bedded limestone and shaly limestone and an intrusive diabase. These rocks outcrop fairly well but in places are much obscured by detritus.

The slate is a pronounced black to brown slate with distinct ## slaty cleavage throout. Cleavage is transverse to the more or less distinct bedding. Locally, however, the rock flowage has segregated out the limy portion of the original material leaving distinct limestone bands and lenses in the slate. The bedding of the slate varies considerably but for slate bedding it is remarkably regular. The prevailing strike is N.25.E. The dip is nearly vertical with a slight inclination towards the east. The cleavage also has a remarkably regular strike for slaty-cleavage. It averages N.10.E. and dips 60 degrees to the west but varies from 30 to 80 degrees.

Resting unconformably upon this slate is a shaly lime-stone which strikes N.45.E. with a dip of 25 degrees to the south-

east. This formation is distinctly a limestone but some of its lower strata have a pronounced tendency towards shale.

At various points on the property is found an intrusive diabase whose boundaries and limits are obscured by detritus. This same kind of rock is claimed to be found in various mining camps in this part of Nevada.

Mineralization:

In the slates in the gulches at the west edge of the claims and farther west, are numerous discontinuous bull-quartz veins one to ten inches wide and one to twenty five feet long which strike N.45.W. with remarkable regularity and dip nearly vertically. These veins occur in indefinate belts with less frequent quartz stringers occurring between these belts. One main belt crosses the property at the south end of the Mayflower Claim and another at the north end of the Mayflower #1 Claim.

When these quartz stringer belts reach the limestone strata, the regularity of the quartz veins is lost. The more solid limestone beds acted as strong precipitating agents which deflected the silicious solutions along the bedding, as well as depositing along the fractures, with the result that the distinct limestone beds are fractured, silicified and iron stained, especially along the junction of the main bull-quartz stringer belts and the lowest limestone bed. It was along this junction also that the principal gold silver values were precipitated. The Mayflower tunnels were driven in the mineralized junction.

The stringer belt at the north end of the Mayflower #1 Claim does not reach the favorable limestone beds but is precipitated by the segregated limestone lenses in the slate, hence the occurrance of the mineralization is not so regular as the mineralization at the

south end of the Mayflower Claim, and leaves the quartz stringers of the slate more definate.

SAMPLING

A representative sample (#33) of the bull-quartz veins in the slate ran Ag $.16, Au $1.03, Total $1.19.

A four inch stringer at the north end of the Mayflower #1 Claim ran Ag $.47, Au $7.33, Total $7.80. This was the best value obtained anywhere on the property, while the whole 34 inch vein in which the four inch portion occurs ran Ag $.25, Au $.21, Total $.46.

The results of the sampling of the Mayflower tunnels are shown on the assay plan at the back of this report. It will be seen on the assay plan that the best block of ore averaged only $3.55 for the last 40 feet of the lower tunnel and this value was raised by the one sample which ran $6.81. The other groups of samples ran $2.08 or less.

CONCLUSIONS

Mr. Sheldon's conclusions, that this property would form a cheap steam shovel proposition, that there would be plenty of water for milling purposes and cheap freighting are correct but the quantity and grade of material are not born out by my examination.

The above interpretation of conditions controlling ore deposition show that the best material will be found at the jundtion of the quartz stringer zone with the lower limestone bed and not destributed uniformily over the property. The sampling of the Mayflower tunnels which develop this junction at its most favorable point show average values between $1.00 and $3.50. The quartz

stringers below this favorable junction run $1.20.

Consequently I conclude that there are no opportunities to develop ore in depth. The best grade material, found at the junction of the quartz stringer zones with the lowest limestone bed, averages only $2.10. The grade and probable quantity of mineralized material are not sufficiently great to warrant the expenditure of the money necessary to determine its possibilities as a low grade milling proposition.

Original Signed, Wilbur H. Grant

San Francisco, Cal.

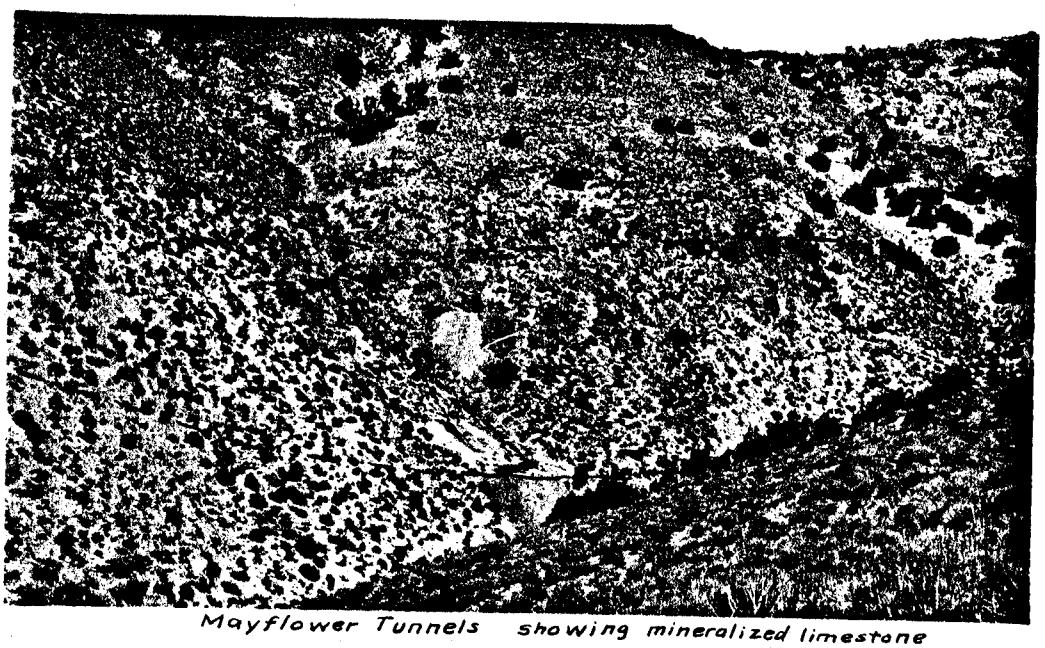
June 5th. 1915.

List of Assays

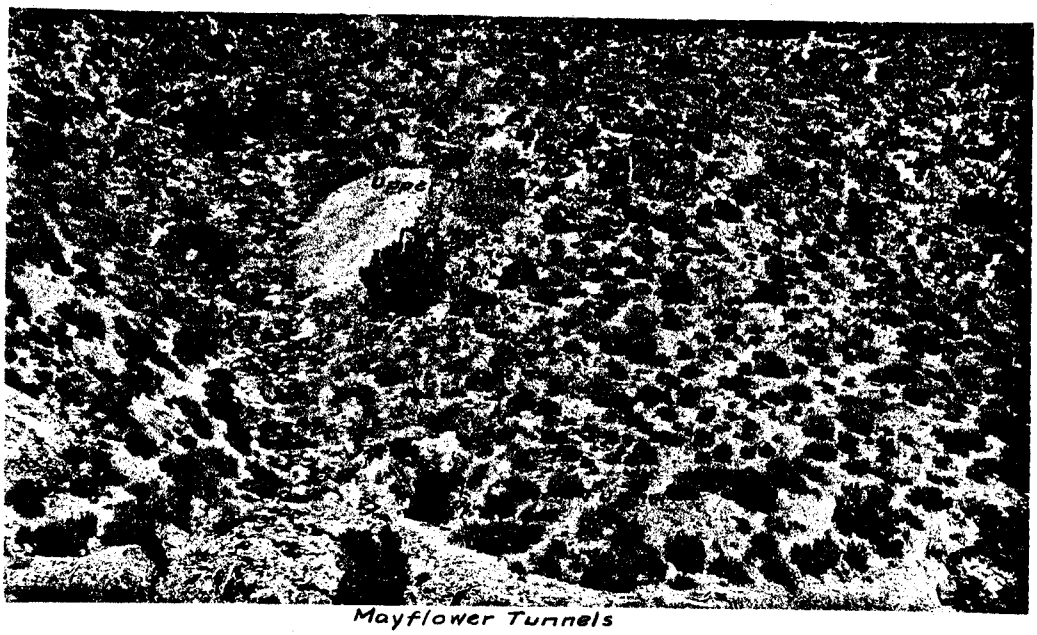
HUMBOLDT GOLD PROPERTY

by Merrill Metallurgical Company.

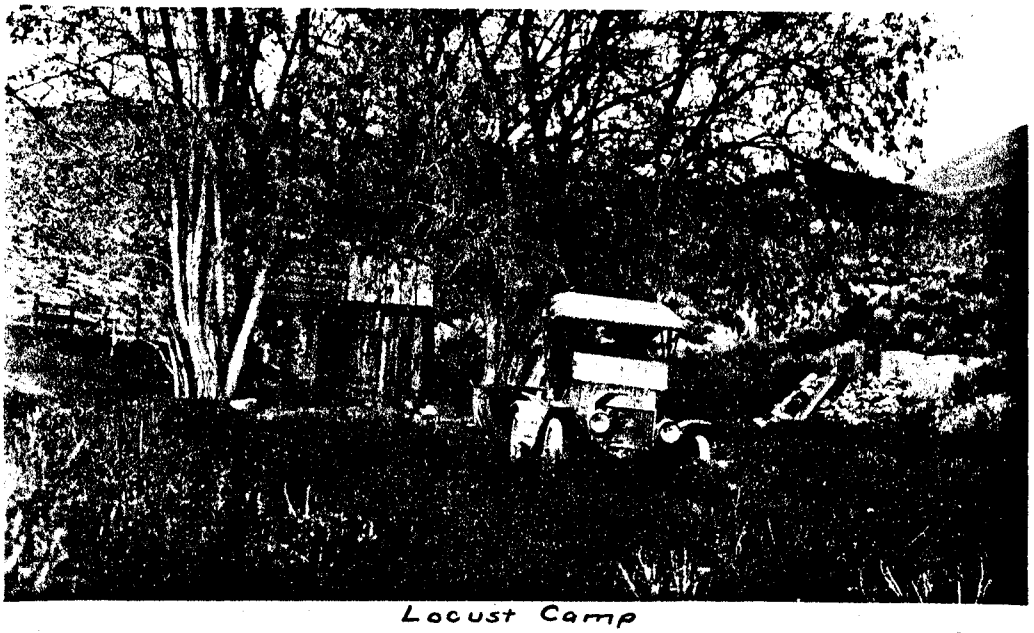
Sample No.	Oz. Silver	$ Silver	Oz. Gold	$ Gold	Total Value
1	.50	.25	.10	0.21	0.46
2	.94	.47	.335	¥7.33	7.80
3	.25	.125	tr.	- --	0.12
4	.19	.095	.01	0.21	0.30
5	.10	.05	tr.	- --	0.05
6	.46	.23	.05	1.03	1.26
7	.30	.15	.09	1.86	2.01
8	.47	.235	.15	3.10	3.33
9	.56	.28	.09	1.86	2.14
10	.61	.305	.08	1.65	1.95
11	.60	.30	.03	0.62	0.92
12	.30	.15	.05	1.03	1.18
13	.66	.33	.05	1.03	1.36
14	1.01	.505	.20	4.13	4.63
15	.88	.44	.09	1.86	2.30
16	.73	.365	.09	1.86	2.22
17	.73	.365	.04	0.83	1.19
18	.60	.30	.03	0.62	0.92
19	.64	.32	.08	1.65	1.97
20	.85	.425	.07	1.45	1.87
21	.80	.40	.31	6.41	6.81
22	.57	.285	.16	3.31	3.59
23	.55	.275	.13	2.69	2.96
24	.45	.225	.11	2.27	2.49
25	.33	.165	.06	1.24	1.40
26	.35	.175	.06	1.24	1.41
27	.45	.225	.05	1.03	1.25
28	.84	.42	.05	1.03	1.45
29	.35	.175	.04	.83	1.00
30	.37	.185	.06	1.24	1.42
31	—	—	—	- --	- --
32	.11	.055	tr.	- --	0.05
33	.32	.16	.05	1.03	1.19



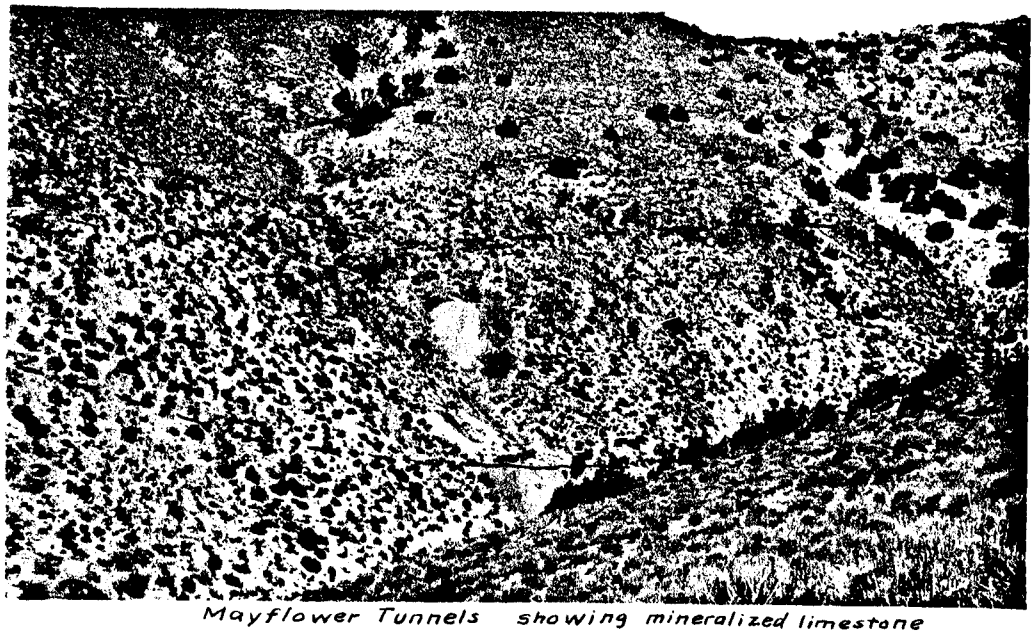
Mayflower Tunnels showing mineralized limestone



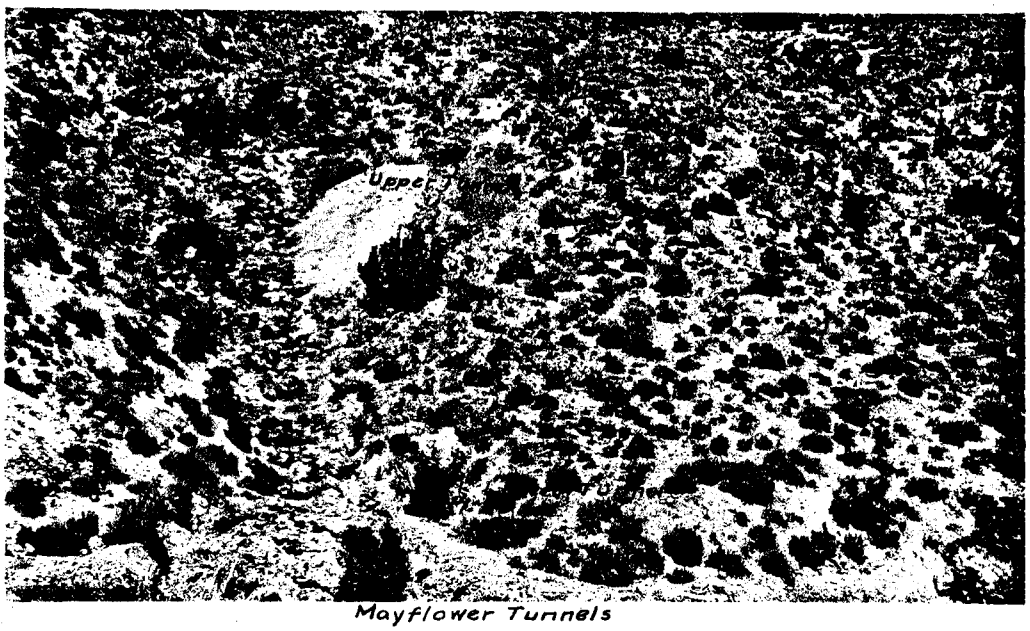
Mayflower Tunnels



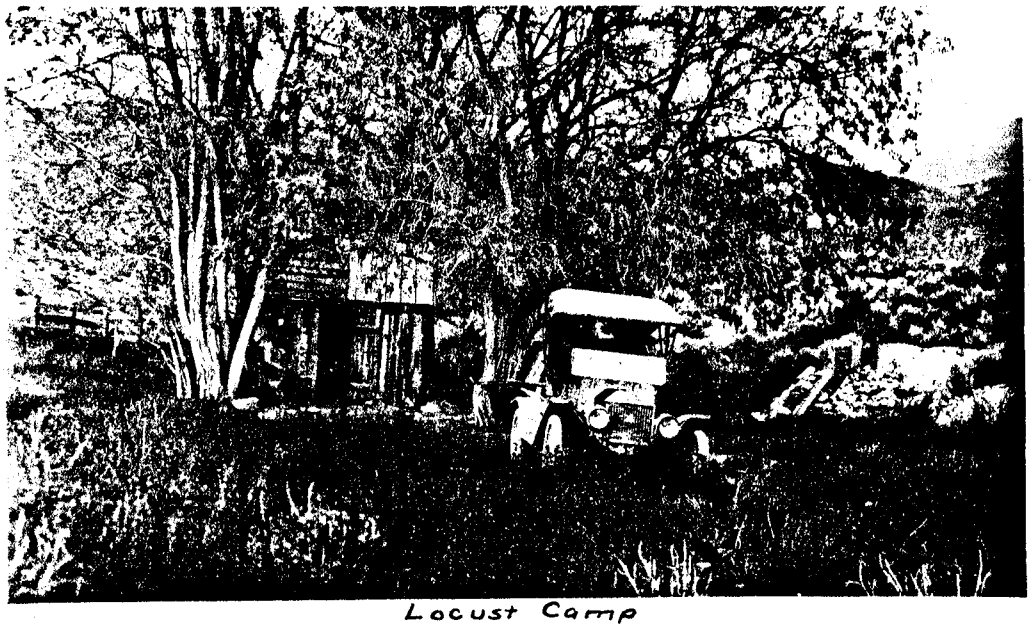
Locust Camp



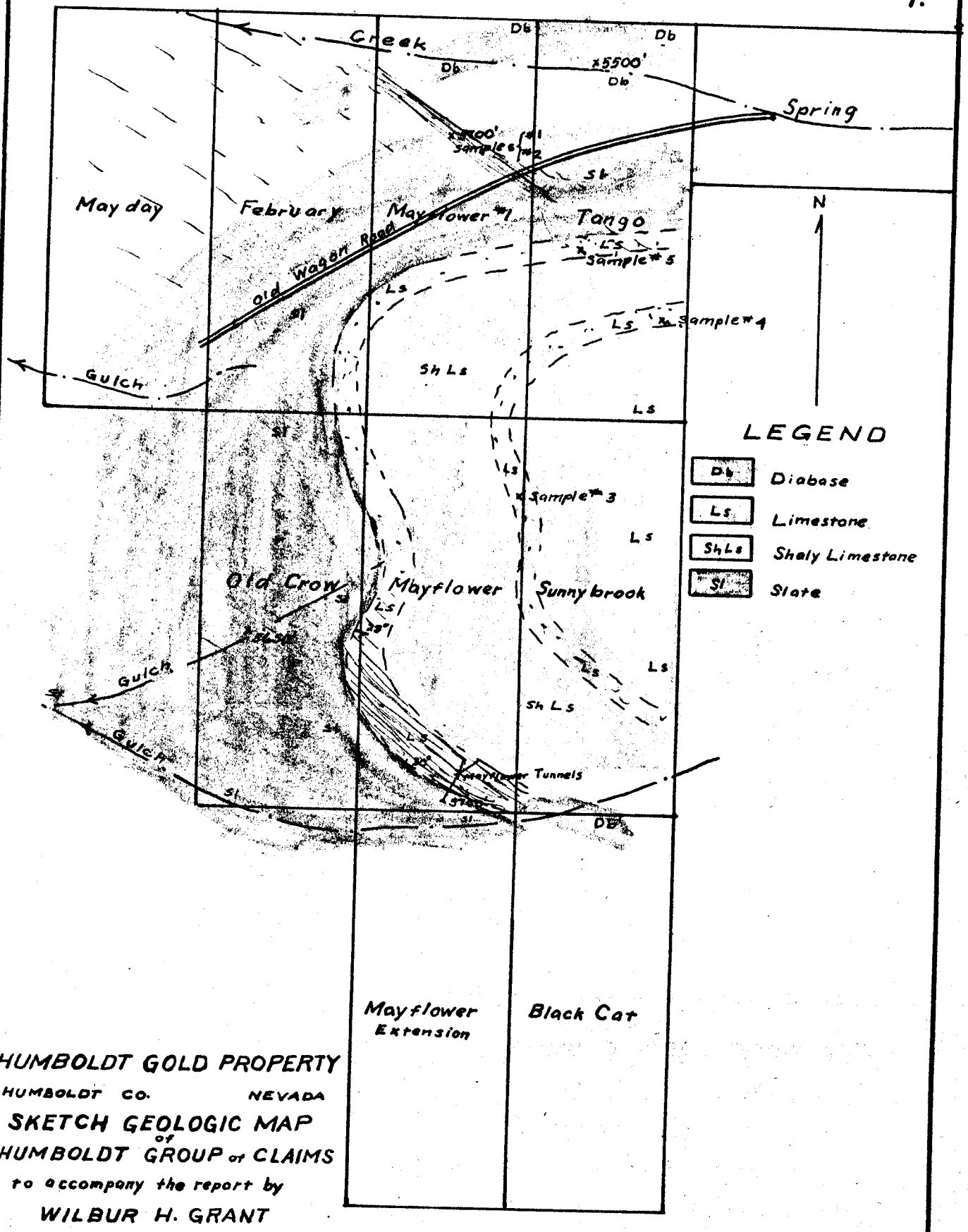
Mayflower Tunnels showing mineralized limestone



Mayflower Tunnels



Locust Camp



HUMBOLDT GOLD PROPERTY

HUMBOLDT CO. NEVADA

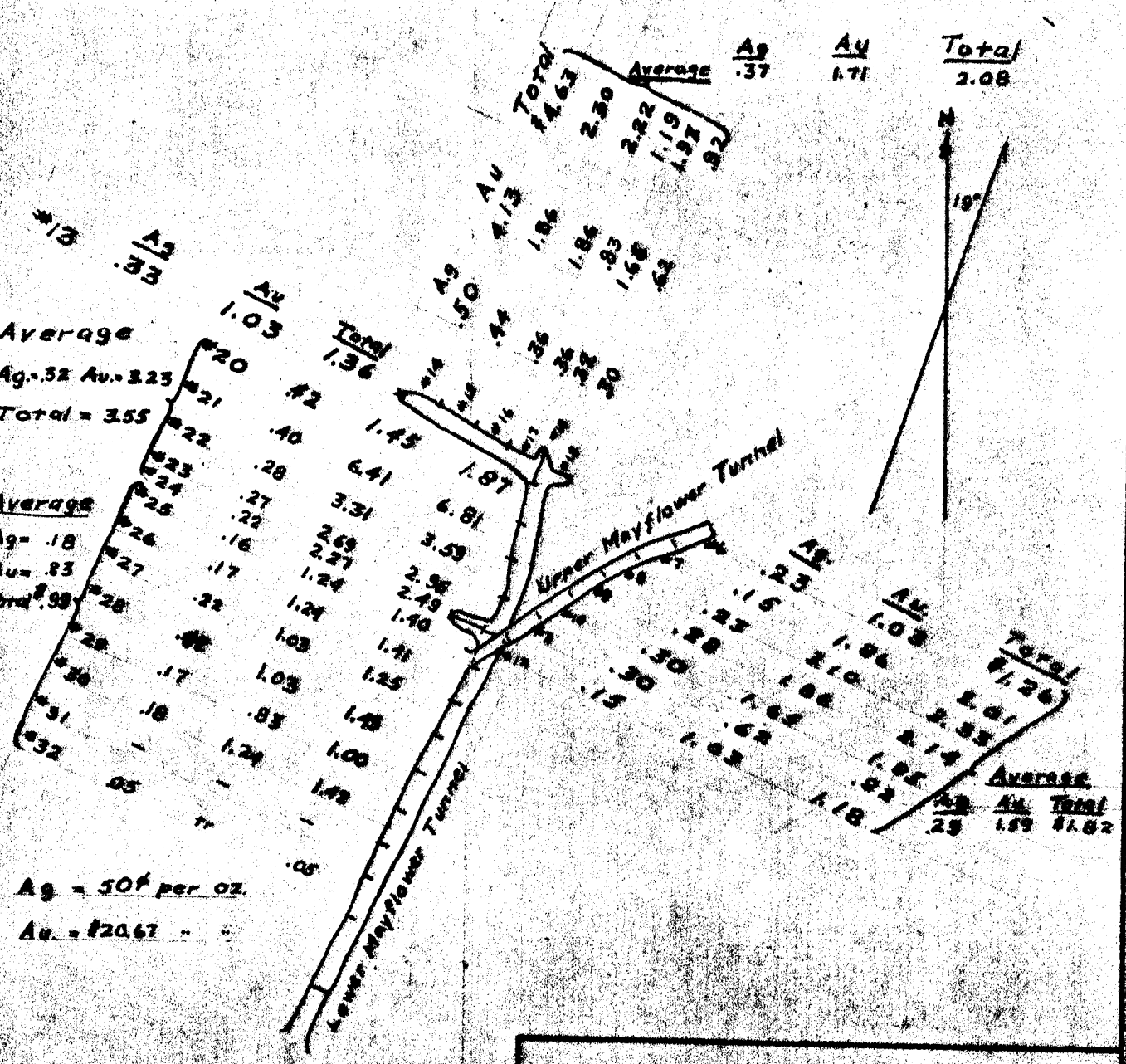
SKETCH GEOLOGIC MAP of HUMBOLDT GROUP of CLAIMS

to accompany the report by

WILBUR H. GRANT

SCALE — 1" = 500' JUNE 1915

200' 0 200' 400' 600' 800'



HUMBOLDT GOLD PROPERTY

Humboldt Co. Nevada

ASSAY PLAN OF

MAYFLOWER TUNNELS

To accompany report by

WILBUR H GRANT

Scale 1" = 40' May 1915