PRELIMINARY EXAMINATION

MOUNT HOPE MINE

EUREKA COUNTY, NEVADA

J. McLaren Forbes
September 12, 1969

The Mt. Hope mine in Eureka County, Nevada, is located 25 miles north of Eureka, Nevada. The Mount Hope Mines Company is owned by Mr. Harold Drimmer of 654 Madison Avenue, New York, N. Y. 10021. The property was presented by Mr. Paul Gemmill of Reno, Nevada, for Mr. Hal Jensen of 2215 Lincoln Avenue, Ely, Nevada. Mr. Jensen accompanied me on my visit to the property on September 2nd and 3rd, 1969.

The Mount Hope mine is a property that should receive further study, provided it appears that a reasonable deal can be made.

Before visiting the Mount Hope mine, I had written to Mr. Drimmer. He replied saying I should get in touch with Mr. Jensen, who was handling the details with respect to the sale of the property. Mr. Jensen, in turn, said that Mr. Drimmer or his business manager would handle the details of a sale. Mr. Jensen said Mr. Drimmer was favoring an out and out sale with the down payment followed by regular payments. The payments were not to be based on royalties. Mr. Jensen assured me that a reasonable amount of time, three to six months, would be given for a complete examination.

It appears to me that the best way to ascertain whether there is any possibility of making some sort of deal is for Mr. Hart or Mr. Straus to contact Mr. Drimmer in New York.

The Mount Hope mine was last worked by the Callaghan Zinc-Lead Company during the middle 1940's and was shut down after a fire destroyed part of their surface plant in 1947. According to Mr. Jensen, Callaghan had mined some 185,000 tons of ore with a grade of approximately 8.5% Zn, 1.00% Pb, 0.15% Cd, and 0.90 oz. Ag per ton. A recent report, dated January, 1968, by the Heinrichs Exploration Company says, "material considered as ore in the past is: 6% Zn, 0.1% Cd, 1 oz./ton Ag, 1% Pb."

It appears that most of this ore came from one of three beds, and that the same mineralization continues down dip below the stoped areas. Assays, submitted by Mr. Jensen, of long-hole drilling up from the 140 level indicate that the zinc bearing bed he was drilling for exists just

above that level. Assays from these holes show relatively strong zinc mineralization.

No firm ore reserve figures for the zinc mineralization were seen. Before Callaghan Zinc-Lead Company mined its 185,000 tons of zinc ore, indicated ore reserves were given in various reports as varying from 500,000 to 1,000,000 tons of plus 8% or 9% zinc. These figures were based on sampling the mine workings and mineralized intercepts obtained from various drill holes.

The development which prompted this preliminary examination of the Mount Hope mine was the results obtained from diamond drilling below the 140 level by the present operators for the Mount Hope Mines Company. Six holes were drilled and five of them cut copper-silver mineralization. This mineralization is strong enough to warrant further exploration. The drilling was reportedly undertaken to find the extension of copper mineralization shown in diamond drill hole No. 1, drilled before 1939 by the Universal Exploration Company.

The attached Plan of Drill Holes and accompanying D.D.H. sections show the location of the Universal Drill Hole No. 1 intercept with respect to the copper-silver mineralization, cut by the six Mount Hope Mines diamond drill holes.

The mineralized beds that have been worked, mainly for zinc, at the Mount Hope mine are nearly vertical near the Mount Hope intrusive, on the west, and rapidly decrease in dip eastward where they form a portion of a syncline. These beds are strongly altered to pyroxenes, such as hedenbergite. There are smaller amounts of quartz, garnet, and calcite or siderite.

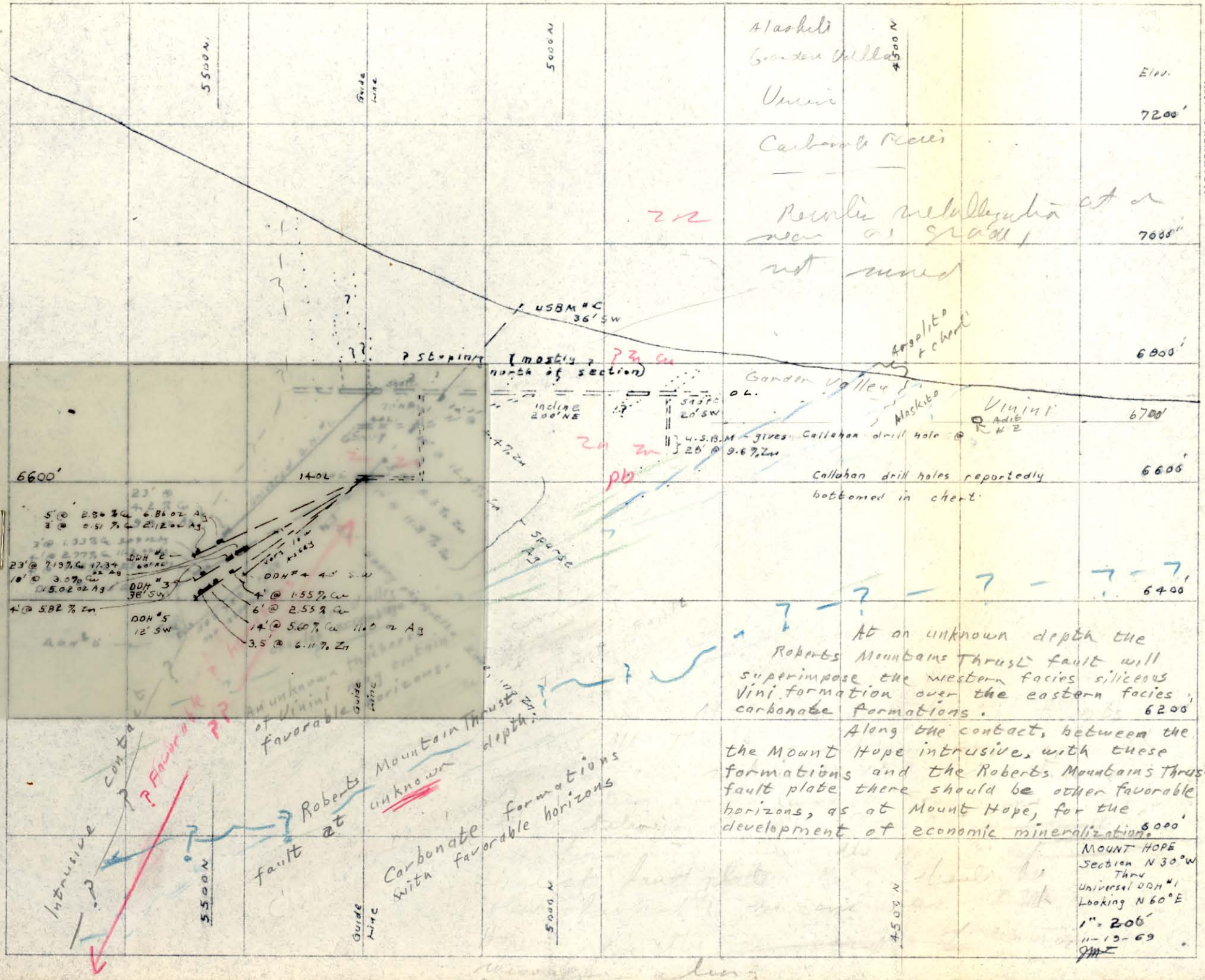
The mineralized copper-silver intercepts, cut by the Mount Hope Mines diamond drilling, have the same type of alteration as the zinc mineralized beds worked in the past. These copper-silver intercepts are close to the intrusive and could represent the steep dipping portion of a bed, or beds, lying below the zinc beds and flattening out as they enter the syncline to the east.

There are two possibilities at the Mount Hope Mine.

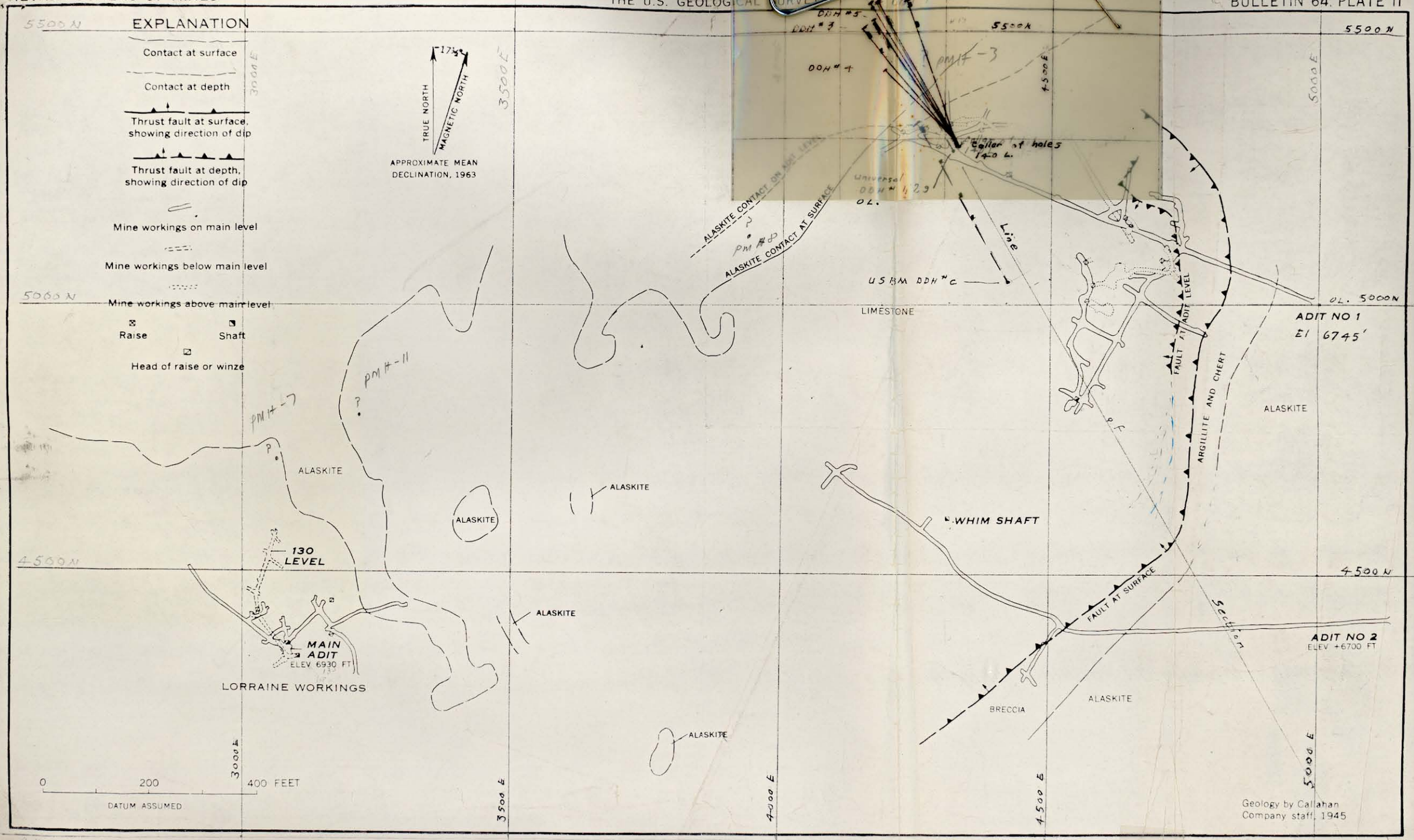
1. Development of zinc ore, with minor amounts of cadmium, along the three mineralized beds explored and mined in the past.

2. Exploring for a continuation of the copper-silver mineralization, cut by the Mount Hope Mines diamond drilling, which, if it proves to be a bedded deposit, could be extensive.

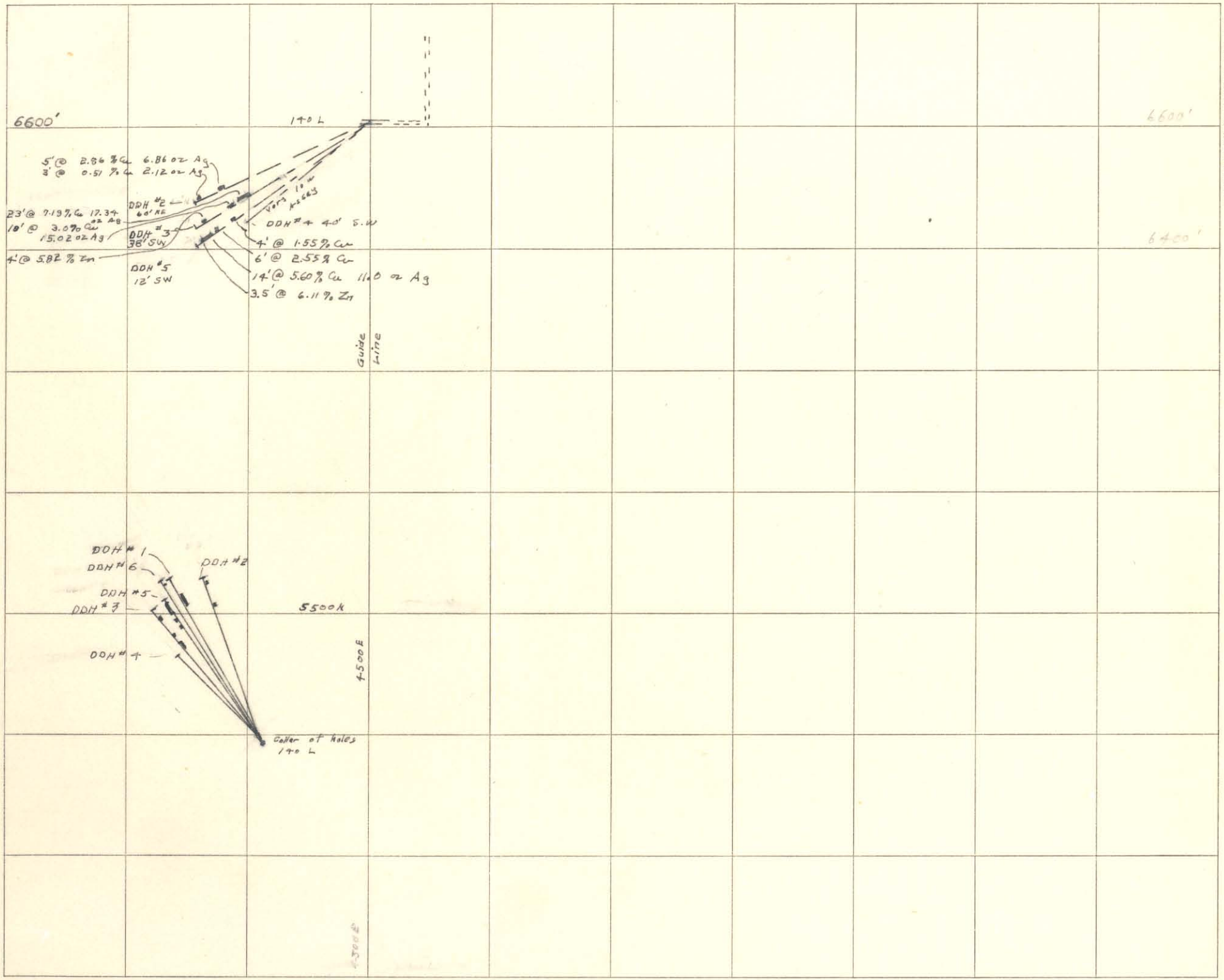
The bedded deposits of the Mount Hope mine would undoubtedly be mined underground. These beds could be worked by mechanized trackless mining methods.

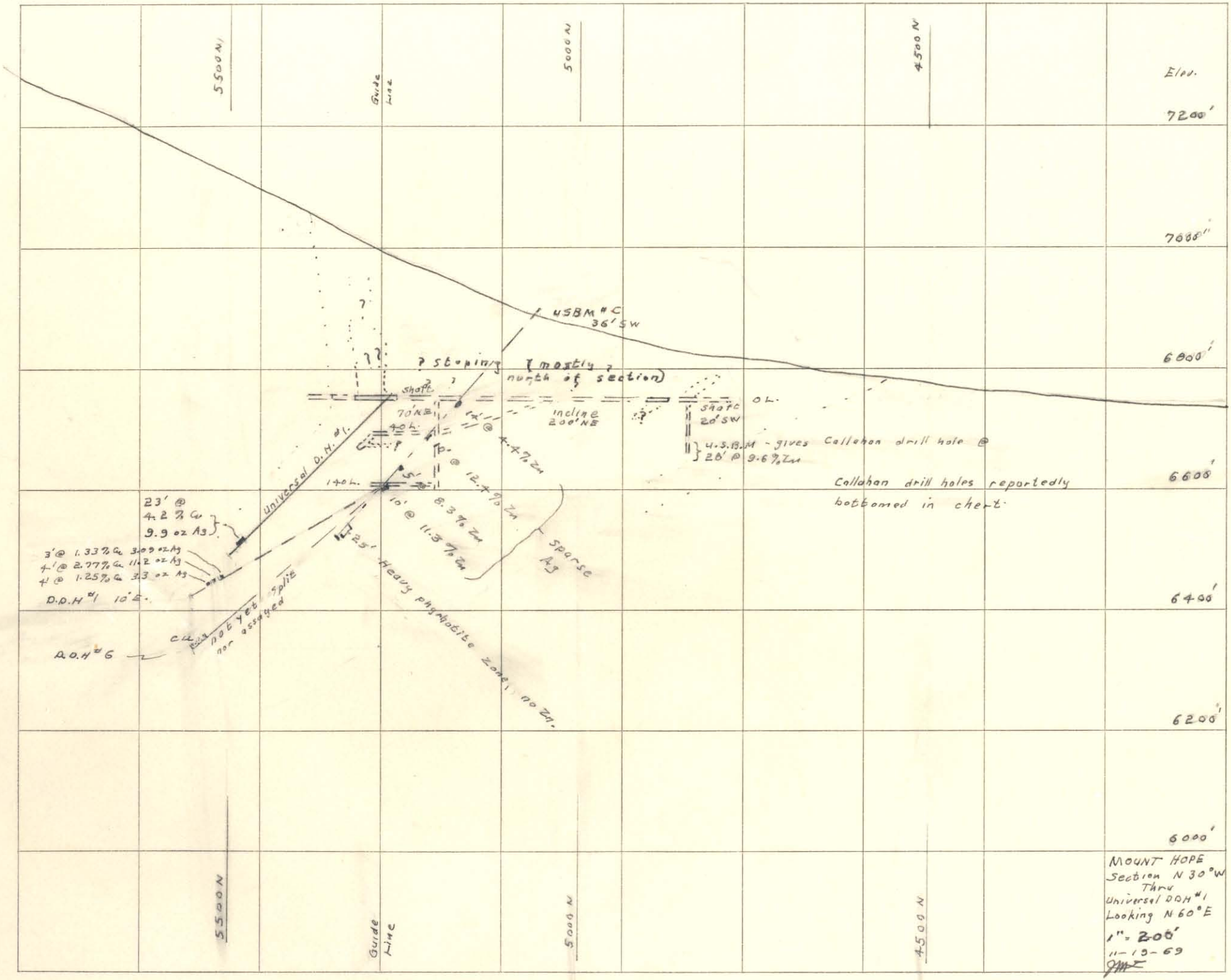

Elev.
7200'
7000'
6800'
6700'
6600'
6400'
6200'
6000'
5500 N
5000 N
4500 N
Guide line
Alaskite
Garden Valley
Vinini
Carbonate Facies
Rewlin mineralization at or near or small, not mined
USBM #C 36' SW
? stoping (mostly north of section)
incline 200' NE
shaft 20' SW
O.L.
Argillite & chert
Alaskite
Vinini
Adit #2
U.S.B.M. gives Callahan drill hole @ 2.6' @ 9.6% Zn
Callahan drill holes reportedly bottomed in chert.
14 OL
5' @ 2.30% Cu 6.86 oz Ag
3' @ 0.51% Cu 2.12 oz Ag
23' @ 7.19% Cu 17.34 oz Ag
DDH #2 60' NE
10' @ 3.07% Cu 15.02 oz Ag
DDH #3 36' SW
4' @ 5.82% Zn
DDH #5 12' SW
DDH #4 40' SW
4' @ 1.55% Cu
6' @ 2.55% Cu
14' @ 5.60% Cu 11.0 oz Ag
3.5' @ 6.11% Zn
Sparse Ag
Zn
Cu
Pb
? Favorable
Intrusive contact
Roberts Mountain Thrust fault at unknown depth
Carbonate formations with favorable horizons
An unknown thickness of Vinini favorable horizons.
At an unknown depth the Roberts Mountains Thrust fault will superimpose the western facies siliceous Vini formation over the eastern facies carbonate formations.
Along the contact, between the the Mount Hope intrusive, with these formations and the Roberts Mountains Thrust fault plate there should be other favorable horizons, as at Mount Hope, for the development of economic mineralization.
MOUNT HOPE
Section N 30°W
Thru
Universal DDH #1
Looking N 60°E
1" = 200'
11-13-69

PREPARED COOPERATIVELY BY THE U.S. GEOLOGICAL SURVEY



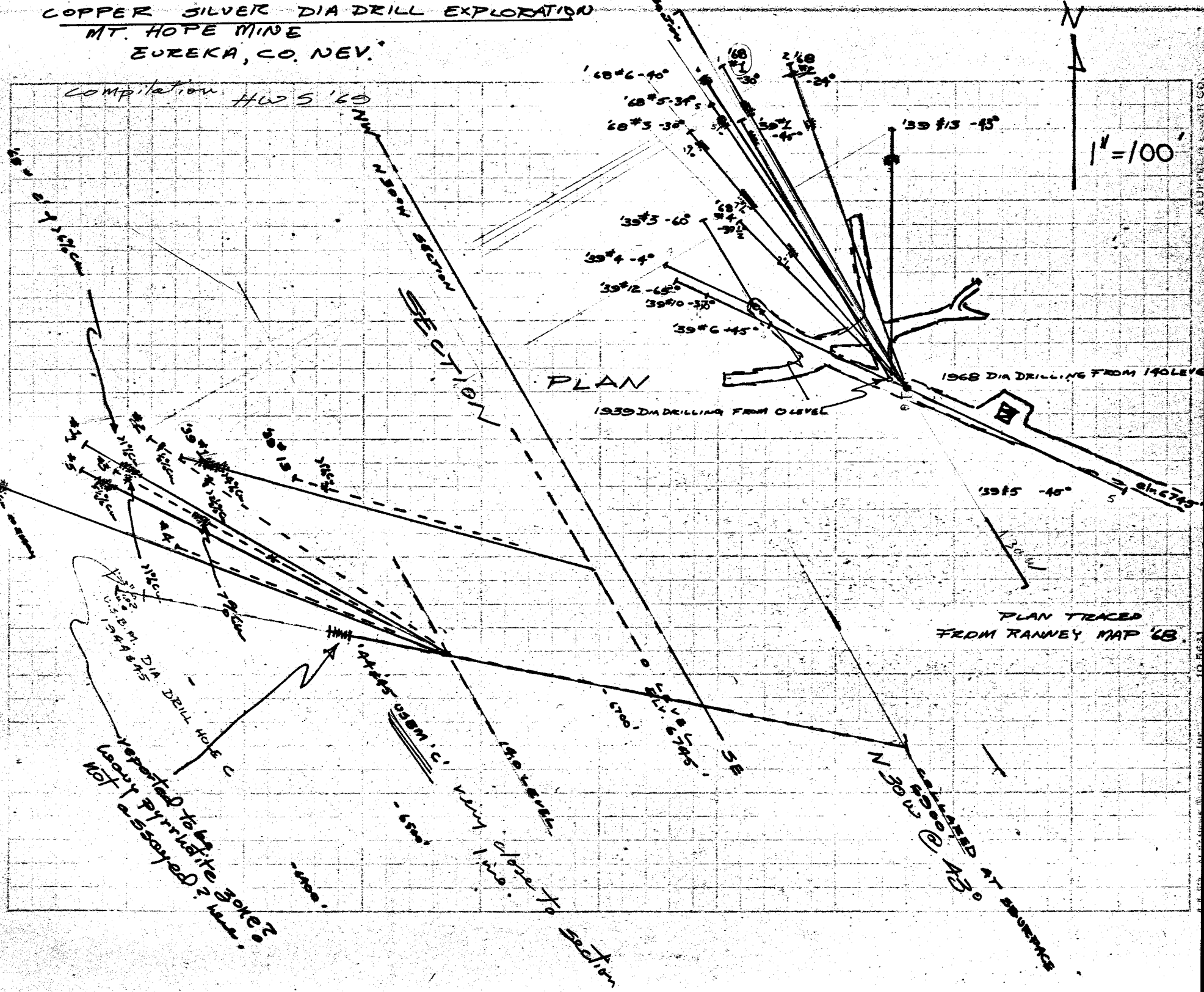
MAP OF THE MOUNT HOPE MINE, MOUNT HOPE DISTRICT, EUREKA COUNTY, NEVADA

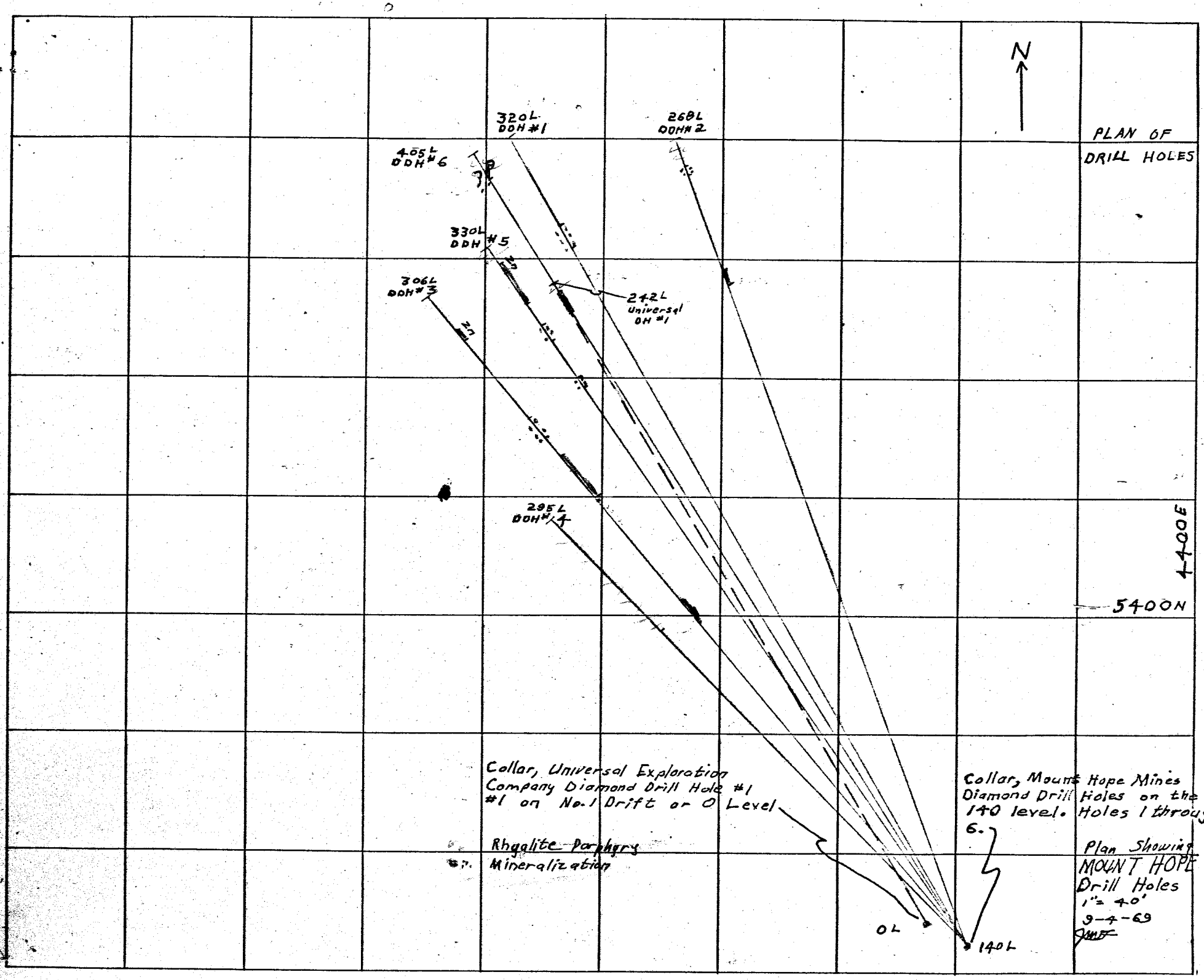


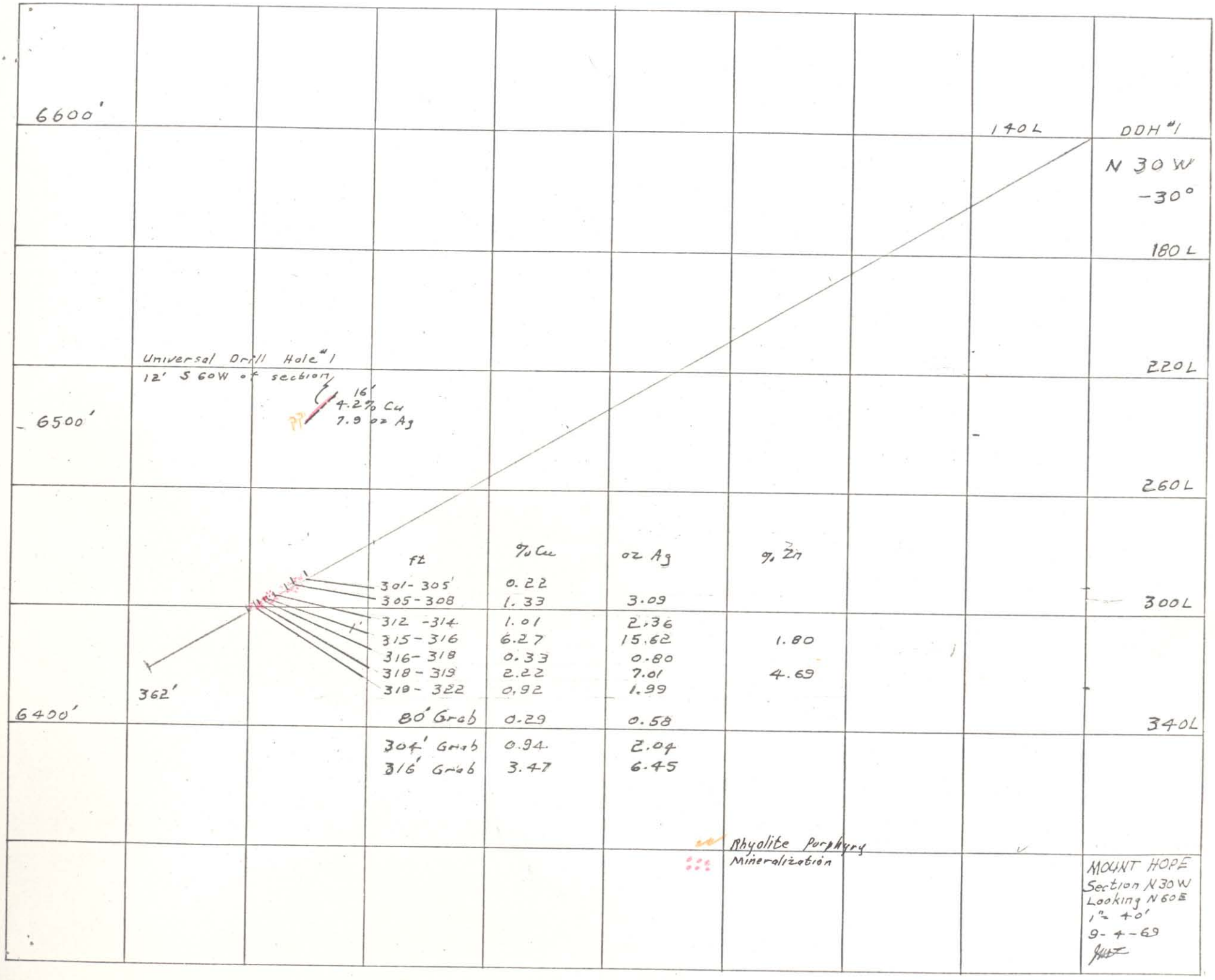


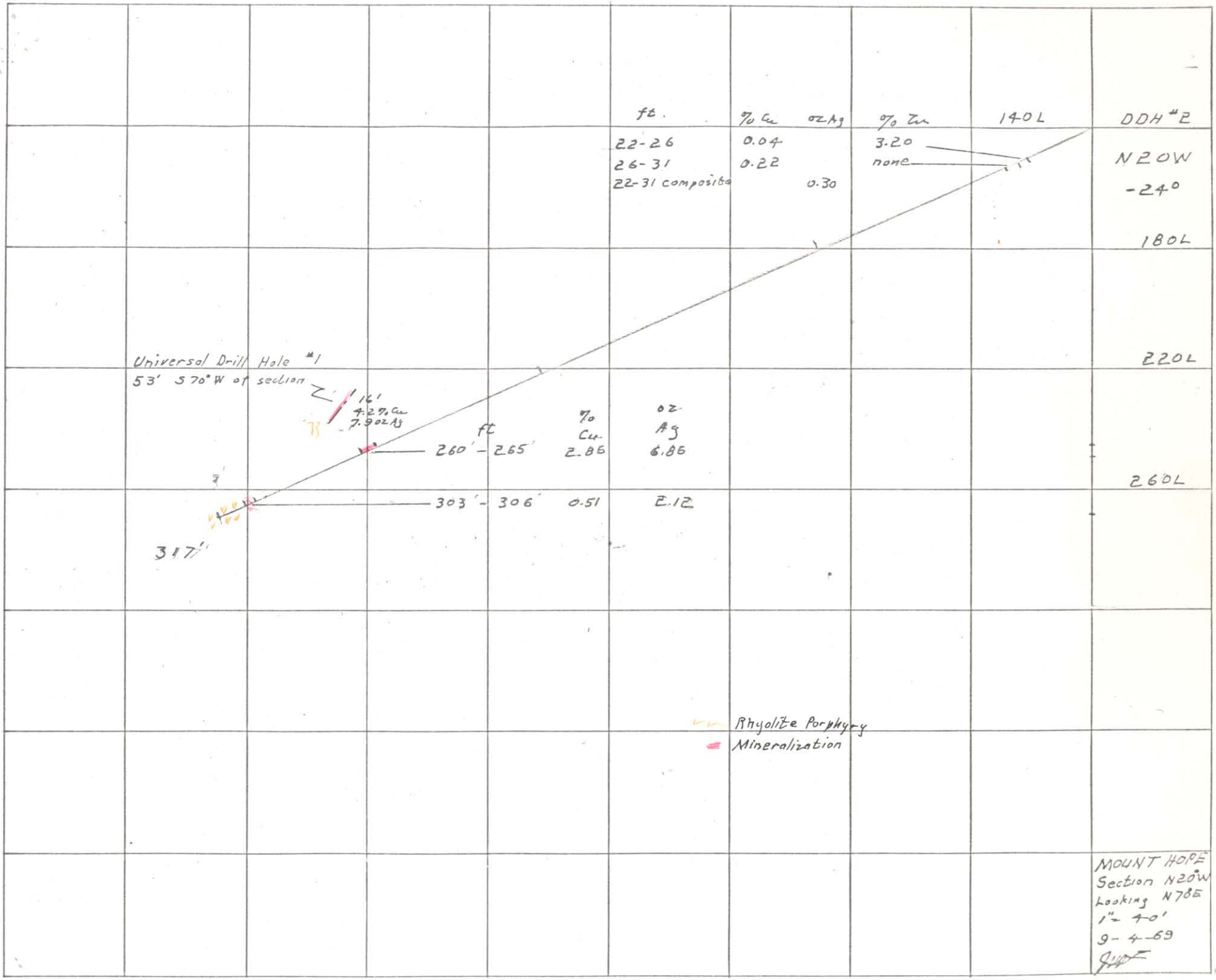
Drum

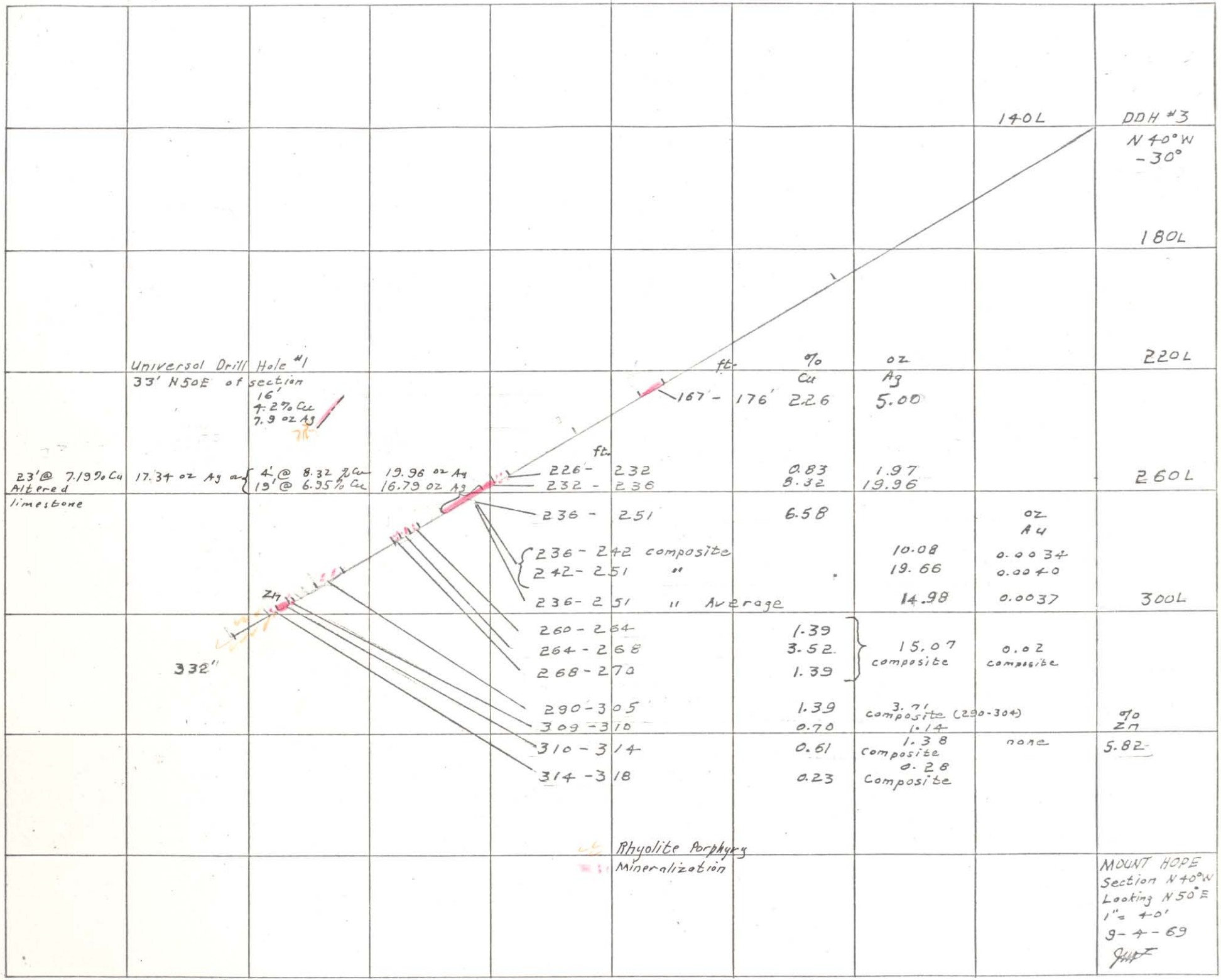
COPPER SILVER DIA DRILL EXPLORATION
MT. HOPE MINE
EUREKA, CO. NEV.

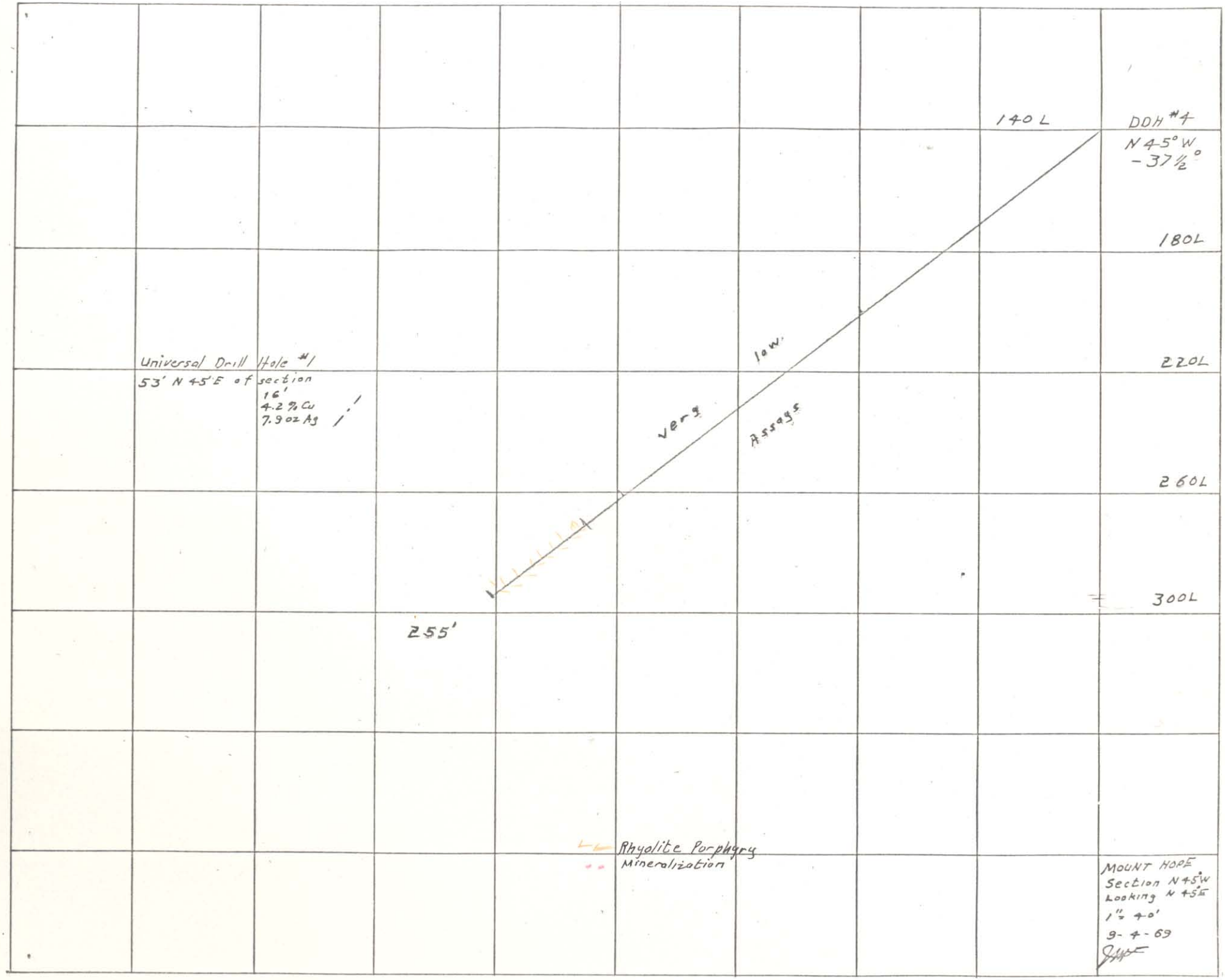


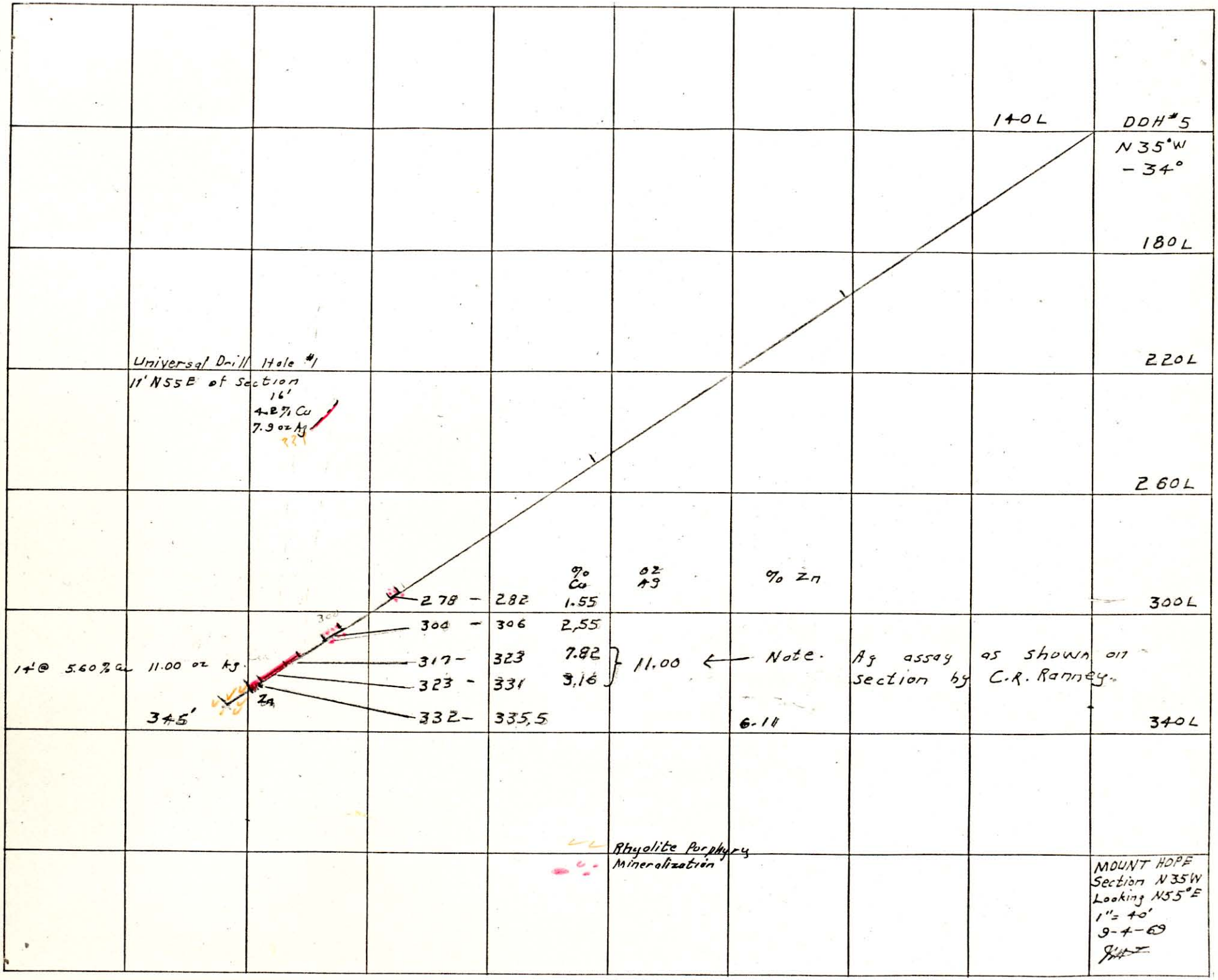


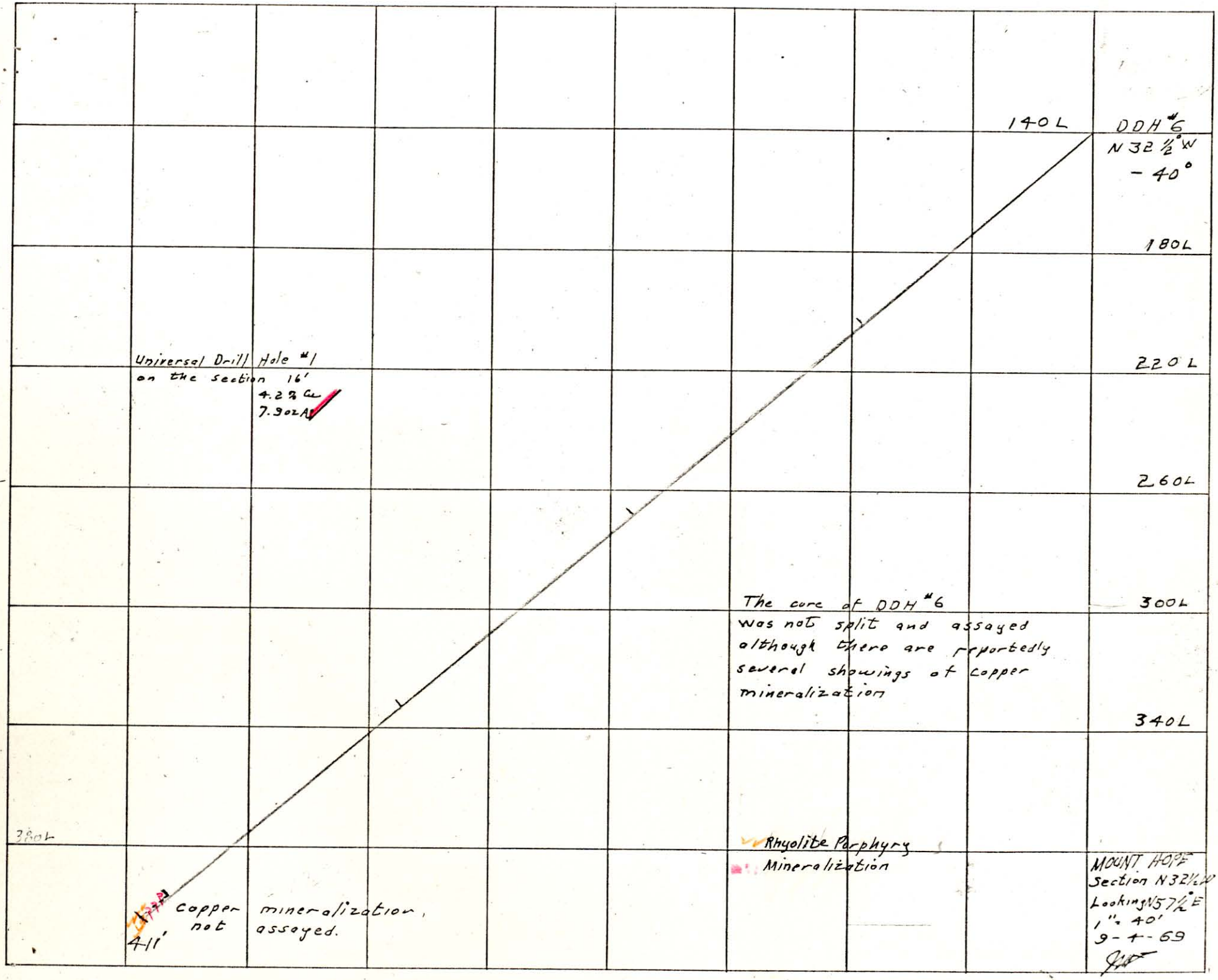


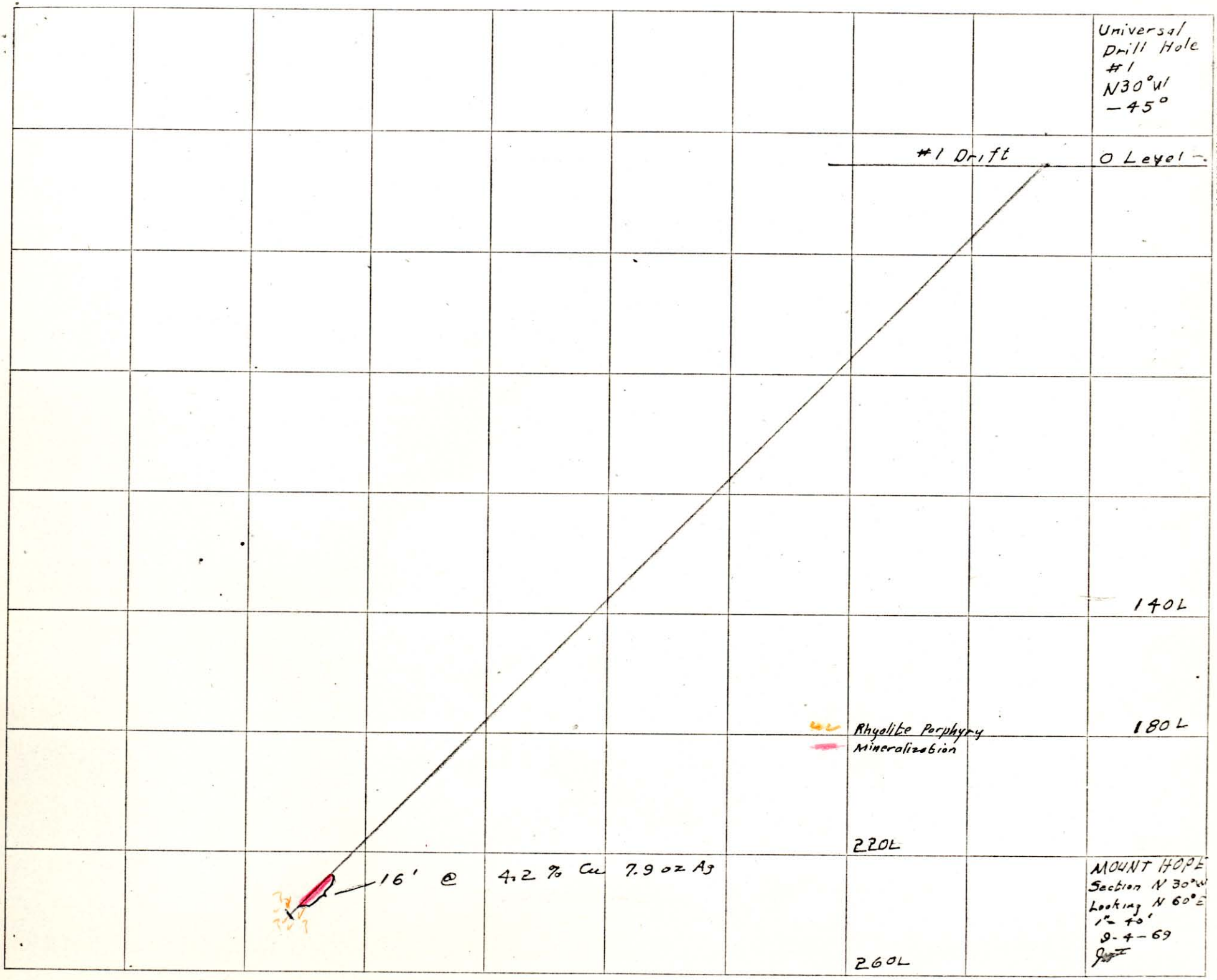


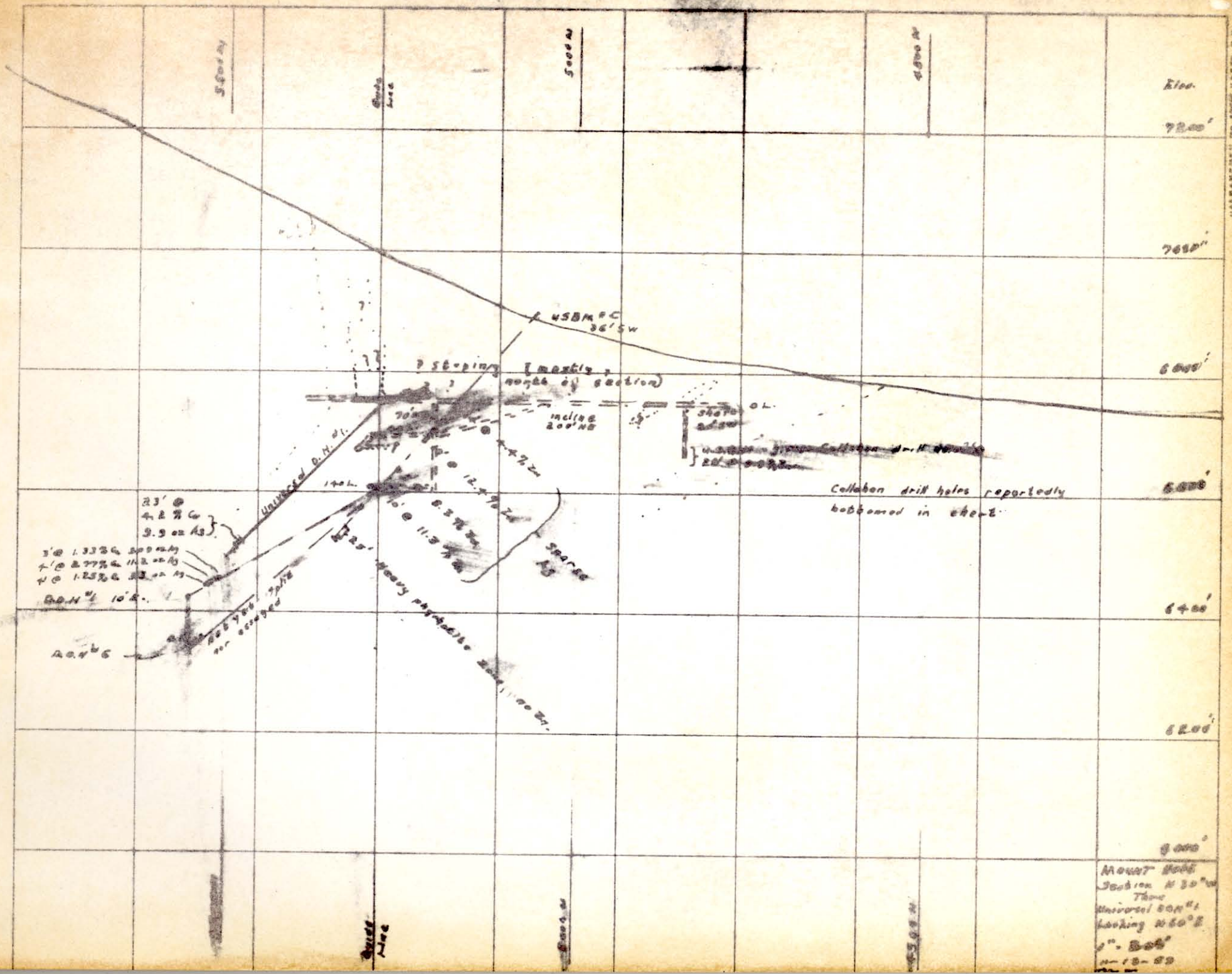


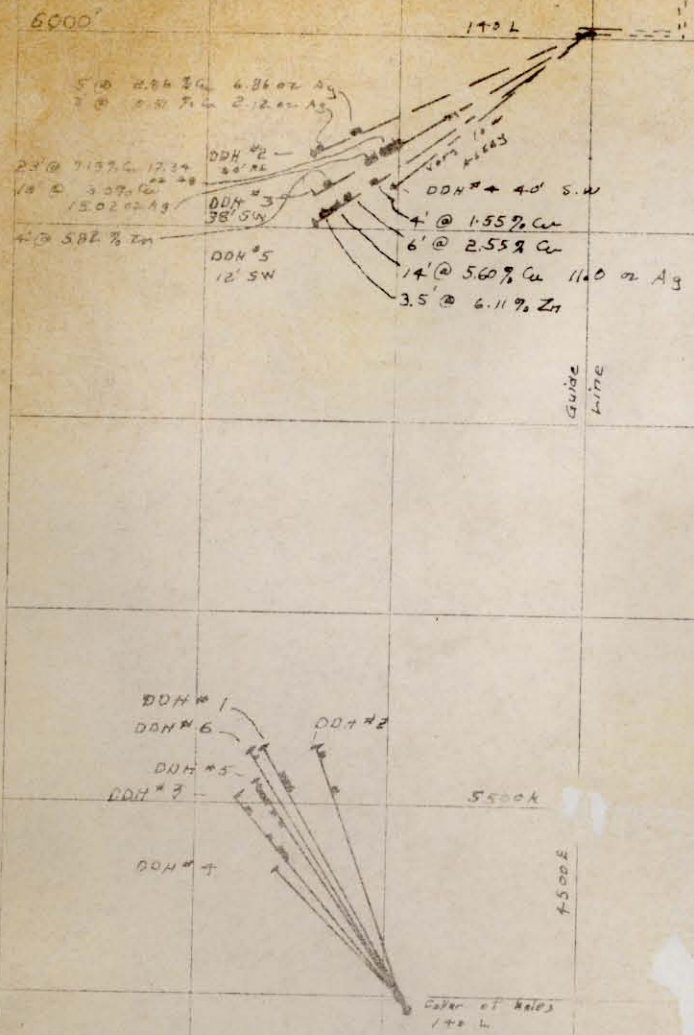







Universal
Drill Hole
#1
N30°W
-45°
#1 Drift
0 Level
140L
180L
Rhyolite Porphyry
Mineralization
220L
16' @ 4.2 % Cu 7.9 oz Ag
260L
MOUNT HOPE
Section N 30°W
Looking N 60°E
1" = 40'
8-4-69


Elev.
7200'
7600'
6000'
5600'
6400'
6200'
6000'
USBM #C
36' SW
? stoping (mostly north of section)
incline
200' NE
Universal D.H. dl.
140' L.
23' @
4.2 % Cu
9.9 oz Ag
3' @ 1.33% Cu
4' @ 2.77% Cu
4' @ 1.25% Cu
D.D.H. #1 10' R.
Bobyns Spur not accessed
25' Heavy pyrrhotite
Sparse Ag
Collahan drill holes reportedly bottomed in chert
MOHAT ROAD
Section N 30° W
Thru
Universal DDH #1
Looking N 60° E
1" = 50'
11-18-59


6000'
14+0 L
5 @ 2.86 % Cu 4.86 oz Ag
3 @ 0.51 % Cu 2.12 oz Ag
23' @ 7.13 % Cu 17.34
18' @ 3.07 % Cu
15.02 oz Ag
DDH #2
DDH #3
38' SW
4' @ 5.82 % Zn
DDH #5
12' SW
Veins 12' apart
DDH #4 4.0' S.W
4' @ 1.55 % Cu
6' @ 2.55 % Cu
14' @ 5.60 % Cu 11.0 oz Ag
3.5' @ 6.11 % Zn
Guide Line
DDH #1
DDH #6
DDH #5
DDH #7
DDH #4
DDH #2
5500 N
4500 E
Center of holes
14+0 L