MAJUBA HILL PROSPACT

SUMMARY OF PERTIBANT DETAILS

David Lecount Evans; Apr. 1965

Foreword:

Excellent outcrops provide surface details. Tunnel 2 is open for mapping throughout its 2009 feet. Tunnel 3 is caved at 1600 feet and 1911-1912 observations must be accepted until clean-up and retimbering through the Majuba fault sens can be completed.

Concerning thedetails of crosscut, everlying stopes and Freeport's inclined raise, in the tin-plus sone, again, examining parties must accept the detailed mapping and sampling of 1941-1942 and of 1943. Greenan and Kerr completely 'gutted' the detail worked but by the Presport Sulphur Company and Myler, with 1944 shipments of tin ore to Metals Reserve.

This analysis is based on the writer's close association with the Majuba Project in 1941-1942 and in 1962. One either agrees with the school of thought that are-centers are (1) a series of pockets on an otherwise unmineralized structure or (2) areas of better grade along 1200 feet of continuous mineralized structure, complicated at the Tunnel 2 level and in section by reverse faulting. There appears to be no middle as reach.

Approach (1) is without attraction. Approach (2) opens the door to the development of commercial tin-silver-copper mineralization, an attractive enough program in 1962, but especially appealing today, in light of the supply and demand picture for tin and silver and 1965 values.

Plans and Sections:

Heference is made to the attached plans and mections, provided to facilitate an understanding of written description. These are listed as follows:

	Description
Unlettered A B	legend Sheet Index Map-Regional Index Map-District and Property Lines 200 Scale Flans
Inlettered Inlettered	100 Scale Flan Maps 100 Scale Crossections

Property and Location

with reference to Plats A and B, the Majuba Hill deposit is covered by three patented claims, and nine unpatented claims (one not shown), all in section 2, Township 32 North, Hange 31 Hast, as well as fee section 35, Township 33 North, Hange 31 Hast. The acreage lies in the Antelope Mining District, Pershing County, Nevada.

The above covers about 75% of a northeast-southwest trending rhyolite perchyry intrusive. Workings at the southwest limit of the intrusive area are 20 miles west of Implay, on the Southern Facific Pailroad, via good gravel, road.

History of Property:

The property has experienced several periods of development and production. Mason Valley Kines (1915-1919) mined copper-silver ores (hood tens averaging 12% copper and 5 cunces silver) and accidentally found the tin-plus area, while drifting on the Majuba fault, then considered a vein. Freeport Sulphur, dismond drilling in 1941-1942, failed to prove a theory and dropped its option. Greenan and Merr(1942-1945) mined 22,000 tens of 3.9% copper-1.4 cunces silver from the copper-plus area and 350 tens of 3.4% tin ore from the tin-plus area. Mansas City Emploration Inc. Quapleted 303 feet of critical crosscut in 1962, defintely establishing the optimity of mineralized structure, back of the fault, but ran out of funds andreturned the properties to their owners.

Physical Descriptions

Tunnels 2 and 3 cover the bulk of exploration and development. Tunnel 1, very short, 200 feet above Tunnel 2, is not shown. Total horizontal development is 5,60h feet, divided into 195, 2,809 and 2,600 feet for Tunnels 1, 2, and 3, respectively.

Inclined and vertical workings approach 1100 feet; approximately 3800 feet of diamonddrilling have probed the property.

Tunnel 2, with elevation of 6250 feet, has a maximum back of 550 feet in the area of particular interest. Tunnel 3, with elevation of 577h feet at portal, lies 176 feet below Tunnel 2 and has 1000 feet of back, in the area of projection.

Tunnel 2 is directly beneath outcrops of mineralized brecciation and has cut the dewnward extension in values, approaching 3% (aberage) tin, on the hanging wall side of the Najuba fault system.

Tunnel 3 with face at 2000 feet from portal is close to, but not at, the downward extension of structure, as projected through Tunnel 2 from surface outgraps. An horizontal hole, from the face to the north-east, cuts the downward extension of structure, principally with ganue mineralization, at its easterly extreme.

Geology:

Fin-silver-copper mineralization is associated with a large area of intrusive rhyolite perphyry in a region where intrusives are, for the most part, granddistite. The rhyolite perphyry has been heavily tournalinised. The south half of the rhyolite trend is featured by several areas of iron stained and cemented brecciation, only one of which has been attensively explored.

Mineralization, non-pegmatitic and similar in many respects to Belivian ores, is associated with a precriated structure which can be mapped for 1200 feet one trike, with widths of from 12 to,25 feet. It has been partially developed to 500 feet of depth by Tunnel 2 workings, and there are good reasons to believe that mineralization and structure can be extended, at least another 500 feet, to the Tunnel 3 Level.

The trend is "5" shaped at the surface, a comingly its natural character.

Tin mineralization is limited to tin oxide, cassiterite, chocolate brown in color and of such medium crystallinity that recovery difficulties from excessive fineness are not anticipated. No stannite, the complex tin bi-sulphide, has ever been reported.

The outcrop occurs as a leached mass which, in part, is hard and dense from vitrification through weathering. Casalterite observed along the outcrop in 19kl provided several his time amples, cut across the full width. Outs, taken in 1962, at random, carried only low tim values. Surface times or prences must, therefore, be considered spotty.

with reference to 100 scale 'Stopes' and 'Tun. No. 2', in the palegreen, interrupted-circular area, (also referred to as the Copper-plus
area), copper mineralisation consists of malachite, esurite, cuprite
and secondary chalcocite; some chalcopyrite has been observed in isolated centers. Tin, in minor amounts, with cassierite observed in some
hand specimens(values from zero thru 0.15% to 0.91%) is a nassociate.

Copier mineralisation in the tin-plus area (shown in red, north of the copier-plus area, and at the hanging well side of the Majuba fault) consists, not only, of malachite and asurite, but also, the copper aremates, plivenite and chalcophyllite, and is associated with lean to high grade tin, with a more or less 3% tin average.

Cangue minerals consist of pyrite, arsempyrite, quarts, tournaline, fluorspar and sericite on the hanging wall side and the same, as well as a very promisent tan, soft mineralization, believed to be an impure calcite on the footwall side of the rajuba fault.

Terbernite, the green uranium mice, has, locally, been observed in the tin structure; above and at Tunnel 2 level in the copper-plus sector and in the gouge of the Majuba fault at Tunnel 3. With reference to the Tunnel 3 plat, note the molybdenite observation, also with low tin values, in the drift foliosing the Majuba fault, along the right rib, at the left margin of the map. Molybdenite was also observed at depth in DDH No. 8, the minus 15 degree hole drilled to the north east, just back of the face of Tunnel 2.

post mineral movement on the Majuba fault is reverse; on the other hand, movement on subsidiary slips, dipping towards the Majuba structure, is normal. Cross sections with good control provide the interpretations. Up-dip displacement amounts to between 300 and hoo feet, and horizontal offsetting, in a series of steps, approaches 75 feet.

Fineral soming is a suggestion. A reverse movement of about 350 feet might account for the abrupt change in mineralization and values from the footwall to the hangingwall side of the Hajuba fault. It is conceivable that hangingwall, tin-plus characteristics could well represent pre-faulting, more deeply emplaced mineralization. Such a possibility could auger well for Tunnel 3 exploration.

with reference to Tunnel 3 plans in 100 and 200 scale sets, the projection of mineralized etructure to the Tunnel 3 horizon is tied to the following reasoning and proceedures:

I- mineralized structure, precisely mapped by planetable at surface, all on the hanging wall side of the Majuba fault, except for lesser differting by subsidiary structure, reflects the true structural patterns

2- this pattern repeats itself, for the footwall side of the Hajuba fault, at the Tunnel 2 level, and after the complexities encountered in association with the fault, should proceed with a normal pattern on the hanging wall side, once leaving thefault area;

3- with the area of possibility at the Tunnel 3 level, all well within the footwall area, at some distance from the Majuba fault, the pattern should again be true and not disturbed and disrupted by fault movement;

L- with reference to Section I-I' (100 scale) diamond drill holes 5, 3, and 6, and with reference to Tunnel 3, diamond drill hole 1, with its band of mineralization, establish a north to slightly northwest trend of mineralized structure, comparable to a similar trend at surface. Accepting these as a common trend, the pattern has been developed on Tunnel 3, by repeating the surface trend from that part of the pattern.

Ramples:

Plan maps and a ections present individuals amples, or averages of many samples, a s in the case of the tin area.

No detailed list of samples is included. In the event of interest, additional sampled stail is at hand for further study.

Ore Reserves and Objectives:

Except for a continuation of the copper-plus area to the north and northwest, no reserves are even suggested. For this possible blocks 30,000 tons of 3% or less copper, 2 cunces silver and 0.18% tin might be expected. Such would not be considered economic.

Concerning the proposed pregram, both levels provide access for continued exploration and evelopment. It is believed that exploration should be continued on Tunnel 2, from the face of 222 crosscut, before expending an estimated \$16,000 to reopen and equip Tunnel 3.

The proposed program consists of three stages. With reference to Tunnel 2 plan map, Stage A, from the face of 222 crossout, consists of borisontal drill holes I and h, as well as inclined holes on section N-B' (h5 degrees plus and h5 degrees minus) 2 and 3. These total 1000 feet. In the event Stage A confirms the pattern, then drilling would be followed by proposed drifts 1 and 2, totalling 500 feet. These 500 feet represent Stage B. Included in Stage A would be 1000 feet of drilling requirement, (see Gilmet lesse) on the open elipse on Gilmet property, shown on the surface map of the 200 scales et.

With Stages A and B affirmative, Stage C, consisting of opening up Tunnel 3, retimbering the Majuba fault zone in Tunnel 3, putting in 2000 feet of new track and 2000 feet of air and water lines, and driving 200 feet of crossout and 600 feet of drift, would be recommeded.

Additional drilling on Cilmet ground would be required during the progress of this program. Mineralisation and structure on Cilmet ground assures the operator that this work would be for the exploration of reserves, not included in estimates on Myler property; Gilmet ground has good possibilities and one would not be drilling scenery.

Properties and Leases:

Hyles patented ground in red outline on Plat B has been leased for a total asking price of \$175,000. Terms include a \$5000 payment when a final lease is signed, 10% royalty payments on gross recovered values or minimum royalty payments of \$500 in lieu of production. Payments of \$12,000 per year start at the end of 36 months; all of the above applies on the final purchase price of \$175,000.

Cilmet has no asking price since be requests a perpetual royalty on ore mined from his property. Terms include the payment of \$2000 at the start, \$2000 at the end of six conths, and annual payments of \$10000, starting at the end of the first year; \$200 monthly payments in lieu of production or 10% royalty payments on the grees production are sweified. Then all of the above totals \$50,000, the royalty on gross production is to be reduced to 5%, and no other payments are to be made except this royalty.

Concerning D.L. Evans and his ass clate Mr. Benj. C. Charles (lessees from Myler and Gilmet) a return of their investment in the property as well as some reasonable royalty arrangement is asked. This, of course, is a matter for mutual discussion.

Reserve Fossibilities:

Stages A and B are designed to partially block out a unit with 600 feet of trend, 13 feet of average width and a minimum of 250 feet of vertical extent. Ath reference to Section 0-0', the 250' is based on the vertical interval from the base of the 'trough' to the highest development of values, above Tunnel 2. Dimensions, as listed, represent an objective of 150,000 tons.

Assuming a similar vertical extent of mineralization for the unit on the underside of the fault, and with 600 feet of trend and 13 feet of thickness, the objective for Stage C would be another 150,000 tens, for a total of 300,000 tens for the three stages.

The average values for the tin-plus area, based on abundant samples, carefully weighted, amount to 2.93% tin, 2.72 ounces silver and 1.4% copper.

on the basis of current markets, these average values produce a gross of \$100.60 per ton. Naturally, the continued development of such mineralization would be hoped for. But preliminary rough estimates, assuming \$10 per ton for mining and milling (including the remayment of the capital investment) indicates that with copper and silver values unchanged, a \$10 per ton operating profit, before taxes, might be anticipated with a tip average as lowesl. 37%.

The objectives on Minet gro und ares everal. The elipse shown on the 200 scale surface plan, an area of crackling, sheeting, brecciaft ion and oxide mineralization covering 33,000 square feet, presents the possibility of developing 250,000 tons per vertical 100 feet. A sample at the face of Tunnel 7, still in leached material, assayed 0.55% copper. 0.03% tin and 4.9 ounces in silver.

Fetimated Cost of Programs

\$38,600 is estimated for Stag e A. This includes \$10,000 for diamond drilling from Tunnel 2 (1000 feet at \$10 per feet)\$10,000 for drilling on Gilmet property, \$2,000 for supervision, sampling and assaying, \$7,000 in initial payments to owners, \$1,600 in monthly payments to owners and \$8,000 to Charles and Evans, if cost of program is repaid immediately; or onsiderably less is such is spread across the three stages. Eight weeks is the stimated time increment for Stage A.

#23,050 is estimated for Stage B; this represents 500 feet of drifting at \$10 per foot or \$20,000; \$1,050 in monthly payments to owners and \$2,000 for supervision, sampling and assaying. Seven weeks are estimated for Stage B, based on two shifts drilling and one shift mucking.

#57,600 is estimated for Stage C. This takes in \$2,800 monthly payments to owners, a \$2,000 cash payment to Gilmet, \$11,000 for the rehabilitation and equipping of Tunnel 3, \$5,000 crosscutting and \$24,000 drifting, as well as \$5,000 drilling on Gilmet go und, and \$3,600 for supervision, sampling and assaying. It is believed that a minimum of 11 weeks will be required.

Estimates of \$10 per foot drilling and \$50 per foot for tunneling are high enough, it is believed, to make the above estimates, Maxima. These allow for improvement and lower totals.

Recapitulation

1. It must be emphasized that this is a matter of exploration and the word 'objective' signifies what can bee spected ifgeological reasoning is correct, projections substantiated and mineralization, sampled to date, continuous.

It appears equally fair to point out that with increases in Hyler dimmensions, as well as favorable results from untested properties on Gilmet ground, objectives andreserves can be increased tramendously.

2. There have always been two approaches to the Majuba picture. Government efforts through the USGS and USBM have persistently discredited the property and its possibilities. Frivate initiative has, each time, provided new detail, always pointing to the property's dormant but ultimate potential.

3. Efforts by the Freeport Sulphur Company, Greenan and Kerr, and Kamas City Exploration Inc. have all served to question, if not disprove the 'pocket on a vein' premise. It is our contention that these three programs, over the years, have, at long last, opened the deer to successful exploration and evelopment.

h. Today's prices for copper, tin and silver and the indicated future supply and demand picture for in and silver improve the outleok.

The opportunity of pertially blosking out the reserve suggested, ic: 300,000 tens @ \$100 per ten, for less than \$100,000 is an attractaion.

Recommendations and proposals appear justified.

1700 Royal Brive Repo, Nevada David LeCount Evans

MAJUDA HILL PERSHING COUNTY

LEGEND 100 SCALE

CAMID L EVANS RENO, NEVADA FEBRUARY 1965

SYMBOLS AND COLORS













DESCRIPTION

Major Faulting

Subsidiary Faulting

Dominant Copper Values Carbonates Oxides and Secondary Sulphides.

Minor TinValues in Traces of Cassiterite. Bi-values in Silver.

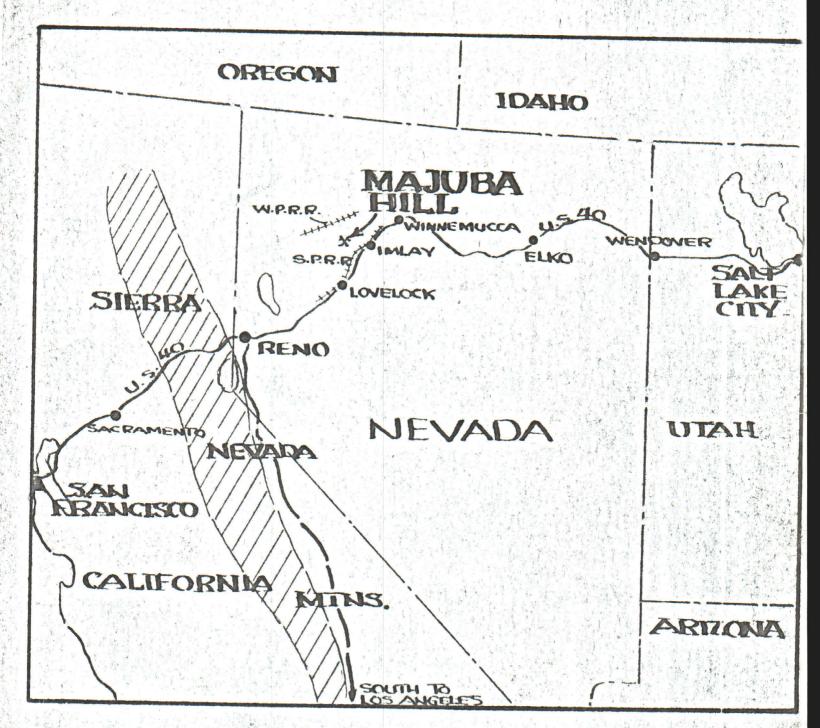
Tourmaline, Calcite, Fluorite & Quartz Gangue

Outstanding Tin Values in Streaks & Disseminations of Cassiterite.

Persistent but Lesser Copper Values as Carbonates & Arsenates. Bi-values in Silver.

Gangue. Especially Black Tourmaline & Lesser Quartz

Heavy Limonite & Some Tourmaline With Brecciated Material in Vitrified Surface Outcrops. Considered Leached.



MAJUBA HILL TIN-COPPER-SILVER EXPLORATION PERSHING CO. NEVADA

KANSAS CITY EXPLORATION, INC.

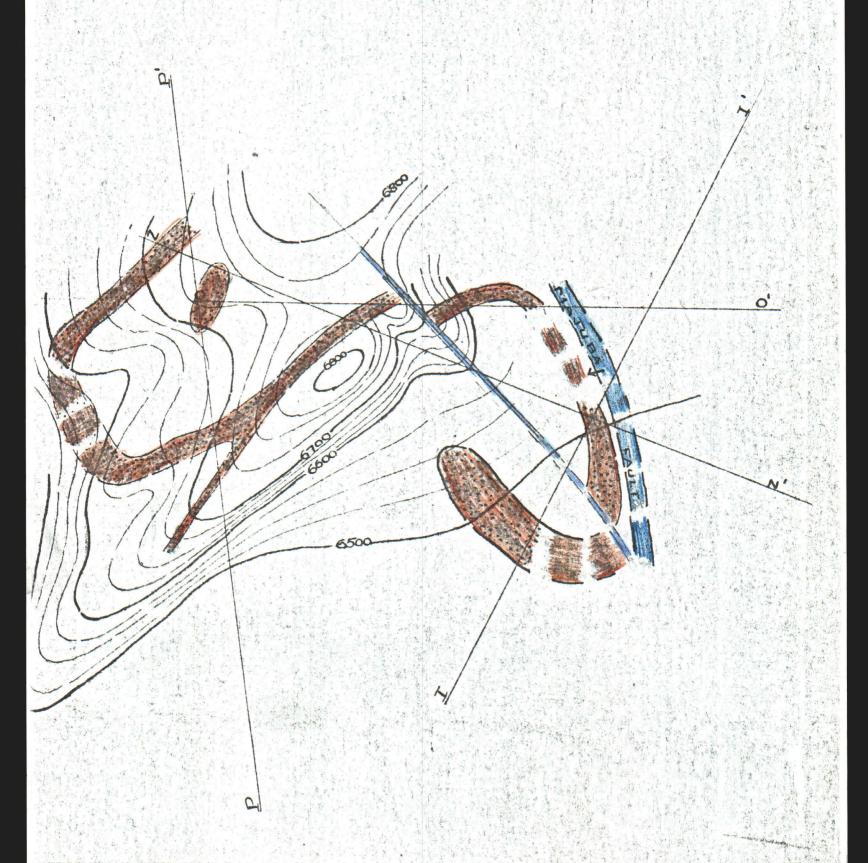
INDEX MAP

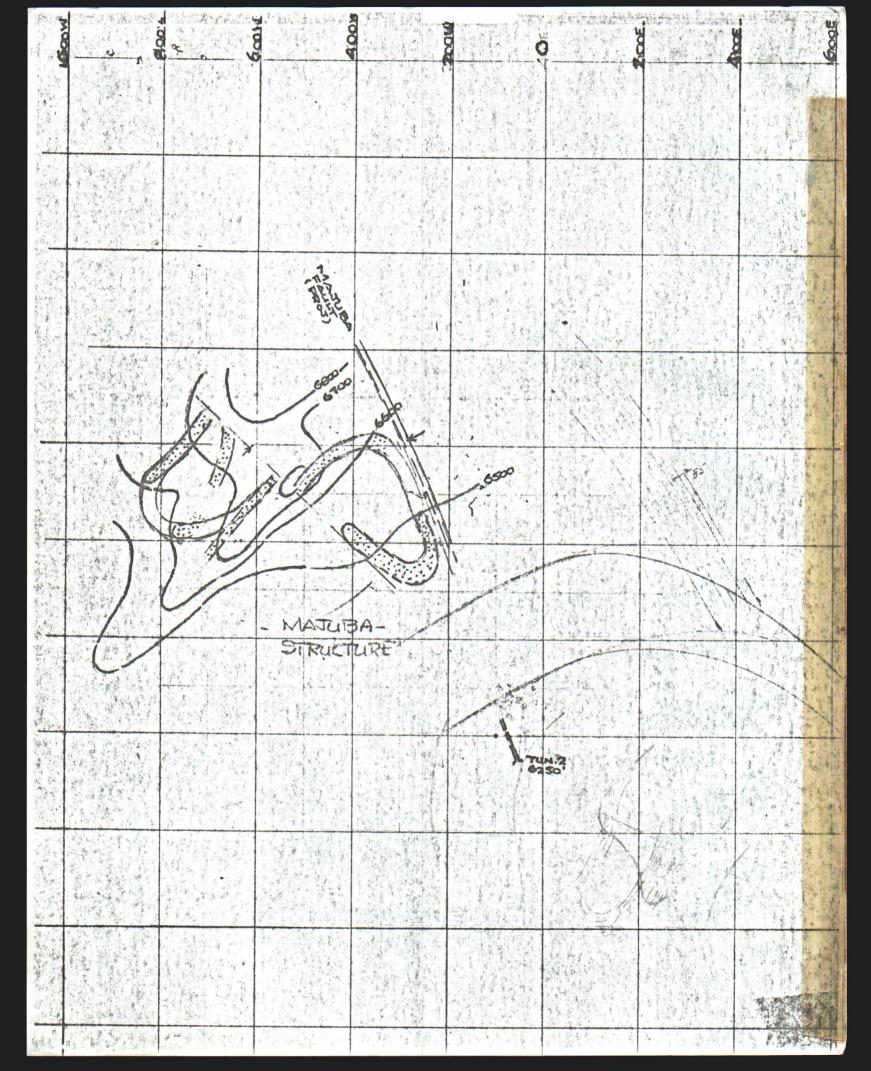
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MAJUBA HILL
PERSHING COUNTY
NEVADA

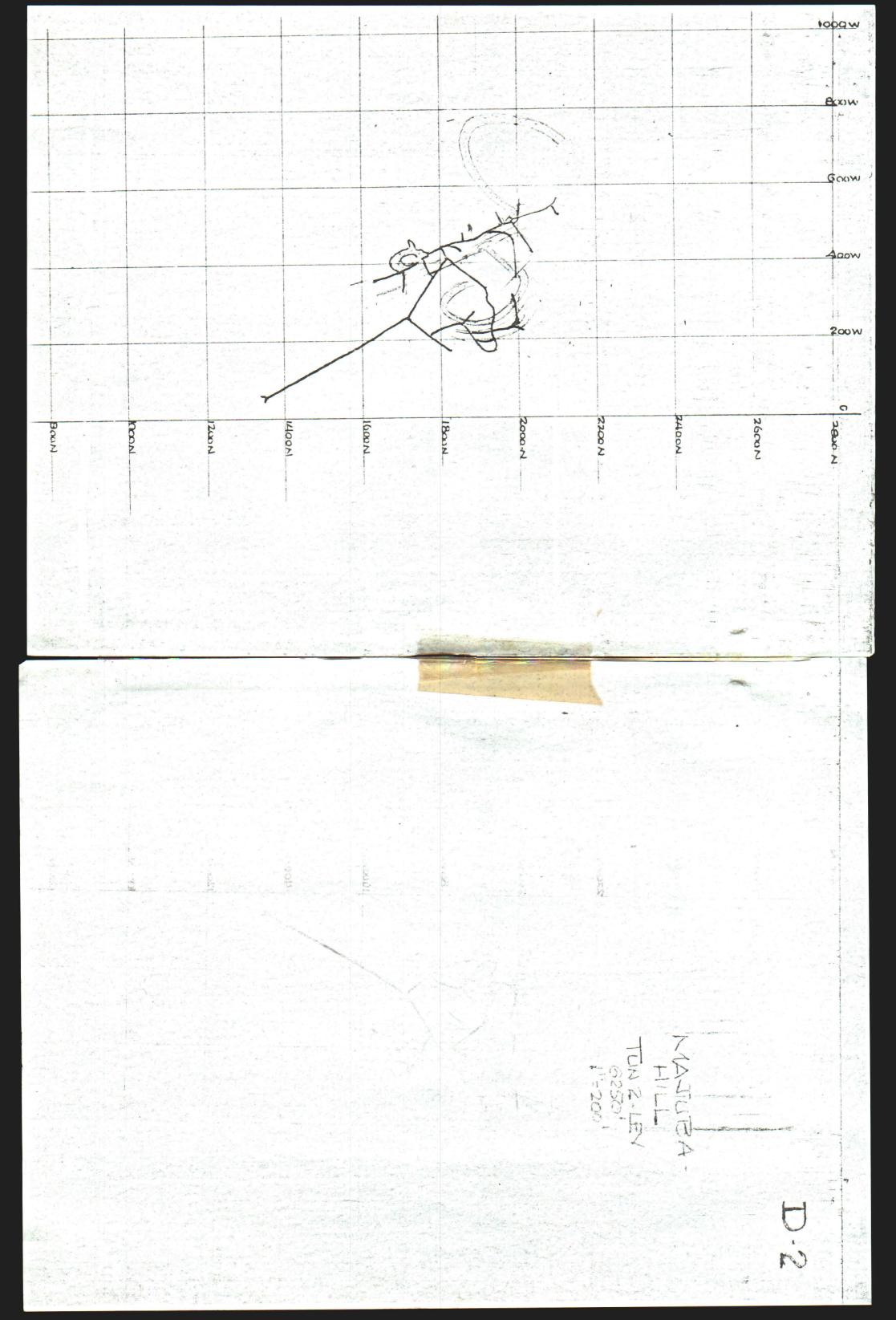
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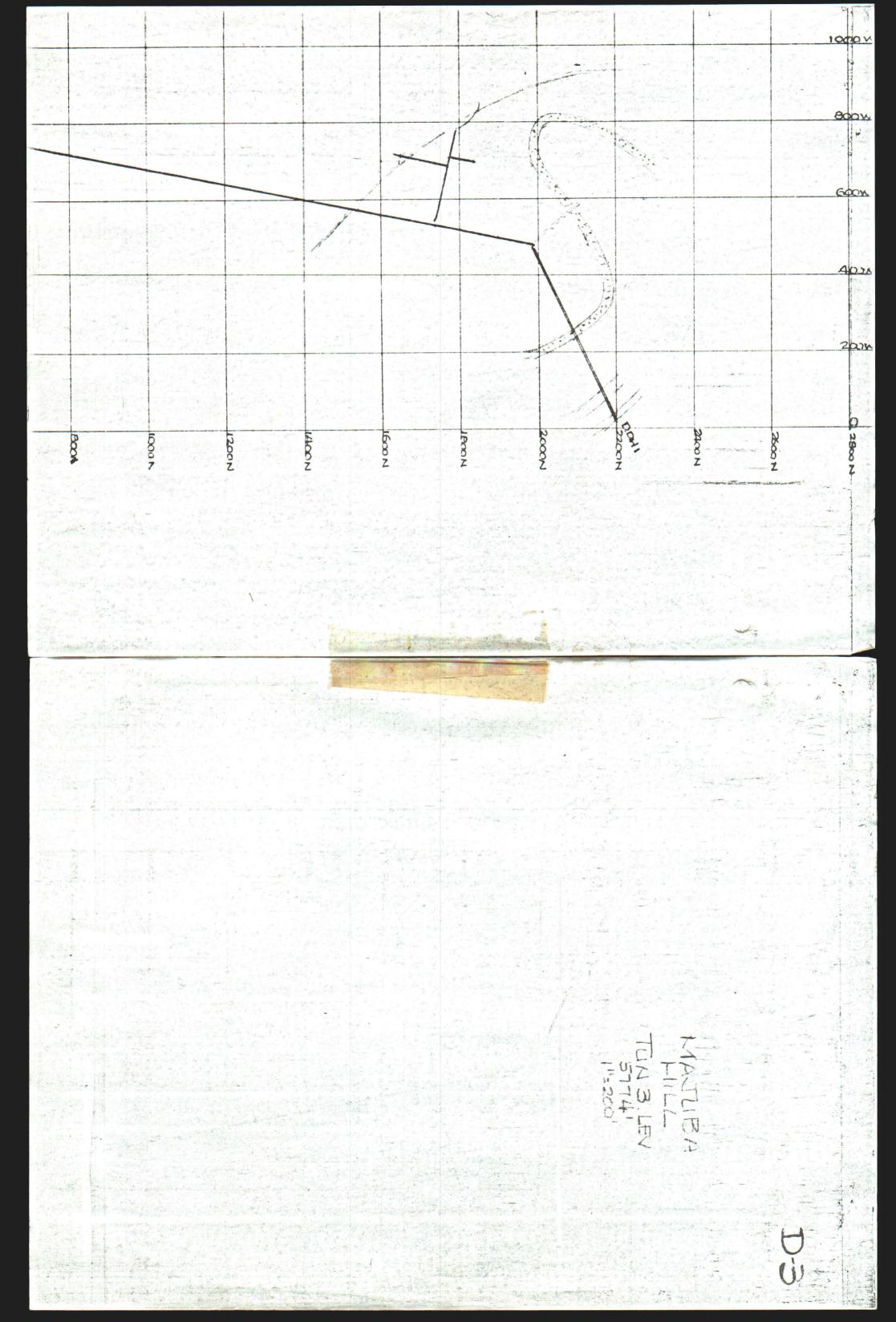
DAVID L. EVANS RENO. NEVADA FEBRUARY 1965



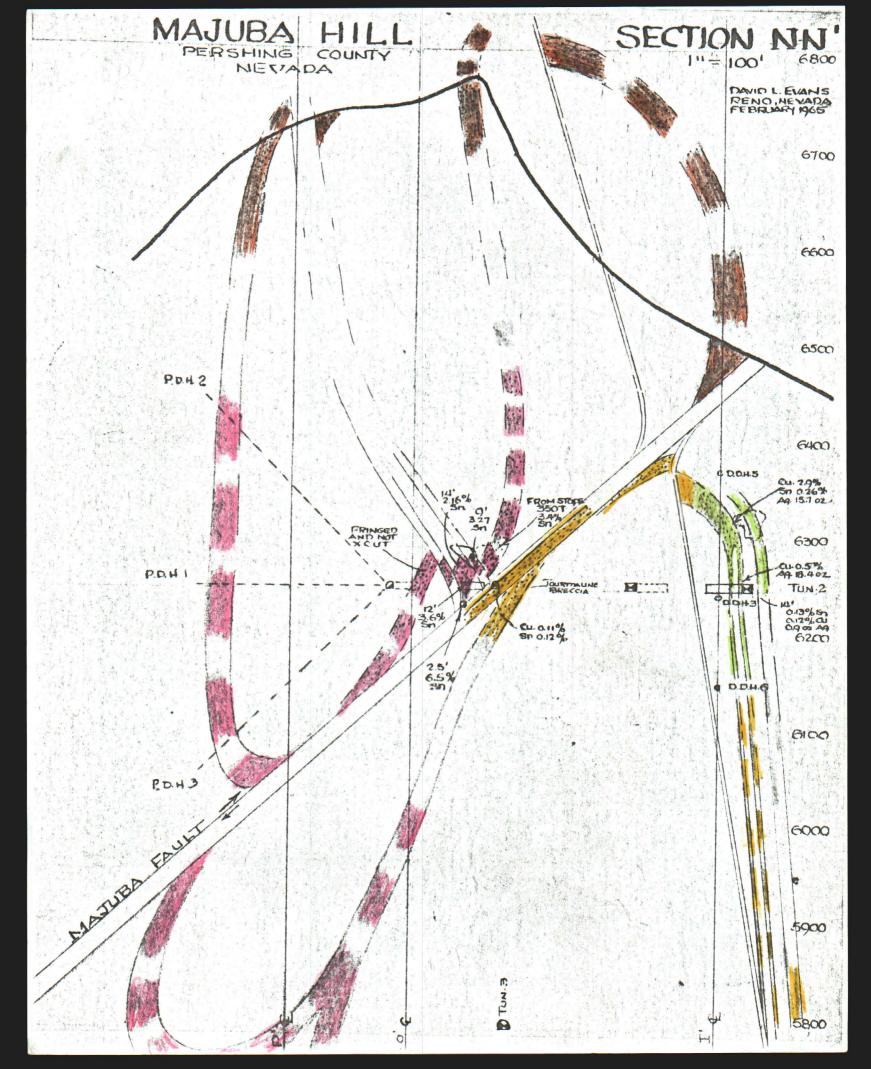


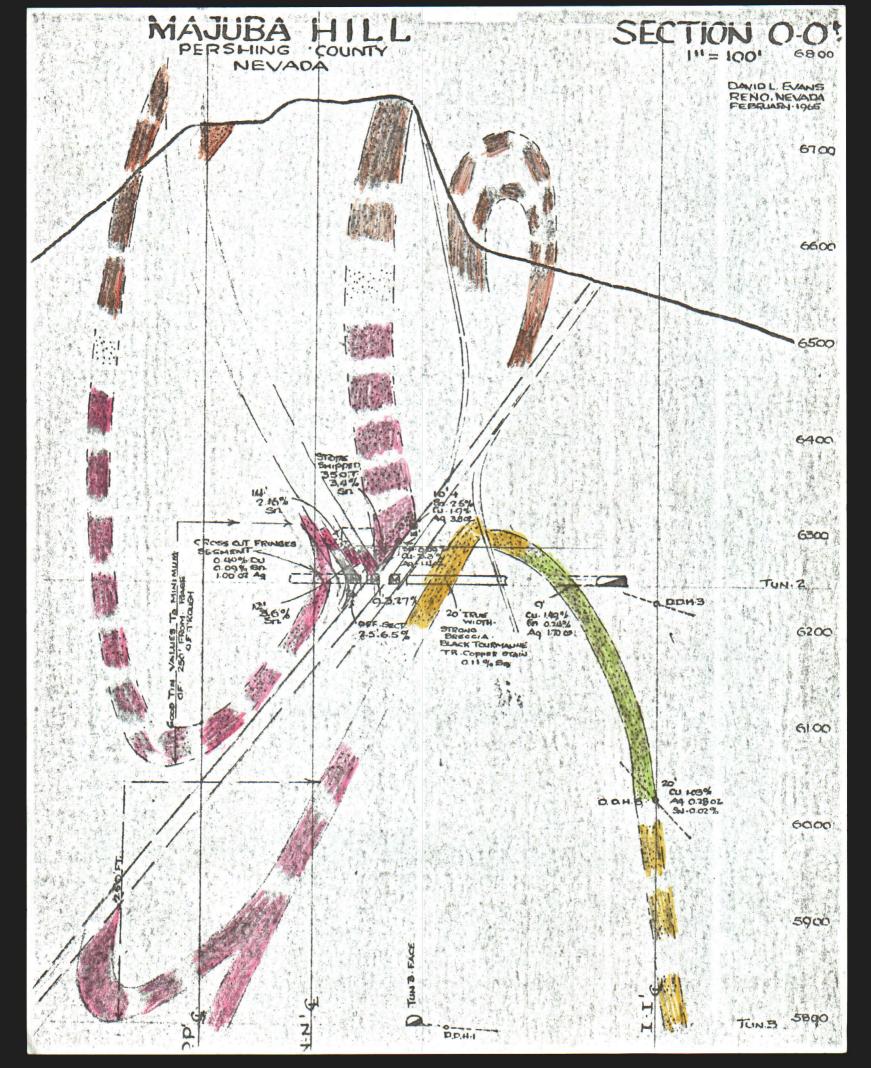
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MAJUBA HILL PERSHING COUNTY NEVADA

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