

|  |   |
|--|---|
| DISTRICT   | Rosebud   |
| DIST_NO  | 4010  |
| COUNTY<br><small>If different from written on document</small> | Pershing  |
| TITLE<br><small>If not obvious</small>                         | Drill Proposal fo the Rose bud Property,<br>Pershing and Humboldt County, Nevada,<br>for Heda Mining Co, January 15, 1996   |
| AUTHOR   | Brady M. Mueller J  |
| DATE OF DOC(S)   | 1996  |
| MULTI_DIST Y / N?  |   |
| Additional Dist. Nos:  |   |
| QUAD_NAME  | Sulphur 7½'   |
| P_M_C_NAME<br><small>(mine, claim &amp; company names)</small> | Rosebud Mine; Rosebud property; Heda Mining Co;<br>Short Shot; North Equinox; North Rosebud Peak; Chance;<br>Target II; Valley; Degerstrom; Dreamland; White Alps;<br>East Dreamland; West Degerstrom; North Dozer Hill; Gator;<br>Target IV; Oscar; Wilrose South, Wildrose West;<br>Wildrose East; School Bus Canyon; North Kamma; South Kamma. |
| COMMODITY<br><small>If not obvious</small>                     | gold; silver<br>Chalcedony<br>Lac Minerals (USA) Inc  |
| NOTES  | Property report; property map; handwritten notes;<br>geologic map; geology; cross sections; essays;<br>drill hole location maps; production<br><br>NOTE: See on dividers<br>224p  |

DRILL PROPOSAL FOR THE

ROSEBUD PROPERTY

Pershing and Humboldt County, Nevada

by MICHAEL W. BRADY, Consulting Geologist

for HECLA MINING CO.

January 15, 1996

Mike Brady  
100 Lemming Dr.  
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\* = Priority Target

## CONCLUSIONS/RECOMMENDATIONS

A review of all available exploration data for the Rosebud Property indicates that 21 specific target areas have been identified either by myself or by others within the presently defined claim boundary. Most of the target areas have now been subjected to some exploration drilling and it appears that 7 should now be eliminated for further consideration based on negative results. Also, 4 areas (School Bus Canyon, North Kamma, South Kamma and Chalcedony) probably should be eliminated for consideration due to the lack of any available supporting exploration data. Therefore 10 targets remain with some untested exploration potential.

It should be emphasized that this study did not include a detailed review of the drill results at the Rosebud Mine except along the northern and western margin of Dozer Hill. The exploration potential within the actual Rosebud Mine area remains the responsibility of the mine geologic staff.

For those 10 exploration areas that reside outside of the main Rosebud Mine, 18 separate drill holes aggregating 15,200 feet of drill advance are now recommended. Ideally all of the proposed holes should be core but for cost considerations 10 of the holes could be drilled using reverse circulation techniques. Total expenditures for this proposed program are estimated at \$323,600 as outlined below using the two drill rigs.

### Estimated Costs

|                                 |                 |
|---------------------------------|-----------------|
| a. reverse circulation drilling |                 |
| 9,000 feet x \$8.00/foot        | = \$ 72,000     |
| b. core drilling                |                 |
| 6,200 feet x \$30.00/foot       | = 186,000       |
| c. road and site construction   | = 10,000        |
| d. assays (Au, As, Hg)          |                 |
| 15,200 feet x \$3.00/foot       | = 45,600        |
| e. reclamation + miscellaneous  | = <u>10,000</u> |
|                                 | \$323,600       |



# Target Area Status

| <u>Area</u>           | <u>Recommendation</u>     | <u>Drill Footage</u>             |
|-----------------------|---------------------------|----------------------------------|
| 1. Short Shot         | tested                    | 0                                |
| 2. North Equinox      | 1 core hole               | 1,000 ft - core                  |
| 3. North Rosebud Peak | tested                    | 0                                |
| 4. Target II          | 1 core hole               | 1,000 ft - core                  |
| 5. Valley             | 1 core hole               | 1,000 ft - core                  |
| 6. Degerstrom         | tested                    | 0                                |
| 7. Dreamland          | 3 RC holes<br>1 core hole | 3,000 ft - RC<br>1,000 ft - core |
| 8. White Alps         | 2 RC holes                | 1,800 ft - RC                    |
| 9. Chance             | 3 RC holes                | 2,000 ft - RC                    |
| 10. East Dreamland    | tested                    | 0                                |
| 11. West Degerstrom   | tested                    | 0                                |
| 12. North Dozer Hill  | 1 core hole               | 1,200 ft - core                  |
| 13. Target IV         | tested                    | 0                                |
| 14. Oscar             | tested                    | 0                                |
| 15. Gator             | 1 RC hole                 | 800 ft - RC                      |
| 16. Wildrose South    | 1 core hole               | 1,000 ft - core                  |
| 17. Wildrose West     | 1 RC hole                 | 1,000 ft - RC                    |
| 18. School Bus Canyon | ?                         | 0                                |
| 19. North Kamma       | ?                         | 0                                |

|                 |              |                 |
|-----------------|--------------|-----------------|
| 20. Chalcedony  | ?            | 0               |
| 21. South Kamma | ?            | 0               |
|                 | <hr/>        | <hr/>           |
|                 | 6 core holes | 6,200 ft - core |
|                 | 10 RC holes  | 9,000 ft - RC   |

The Wildrose East area of interest as well as the northern portion of the Rosebud Property north of the Wildrose area has been examined only in reconnaissance fashion. Although not specifically outlined in this report, this area should be considered for comprehensive rock chip, soil sampling and IP/resistivity surveys similar to those completed over the rest of the property. The result of this work could then be used to plan either additional drilling or a possible decision to drop the claims. The cost estimate for this work was not included in this report.

## INTRODUCTION

Reconnaissance geologic mapping and sampling of the Rosebud Property was completed by myself on December 1, 1995. Subsequent discussions with Charles Muerhoff, Chief Mine Geologist at the Rosebud Project on December 10 yielded a request that I generate a drill proposal to test those exploration targets presently known on the property outside of the main Rosebud orebody. The proposal was to be submitted no later than January 20, 1996. This report is therefore a summary of the results obtained but specifically the following was completed:

1) Past exploration has included rock chip and soil sampling as well as IP/resistivity on a rough 100 ft x 200 ft, NW-SE oriented grid covering the central half of the property from Rosebud Canyon north to Wildrose Canyon. Local exploration on a similar tight grid was also conducted in the Oscar area in the southwestern portion of the property and at the Gator and Wildrose areas north of Wildrose Canyon. Based primarily on this information set, previous investigators identified at least 20 separate target areas. All of this information was examined and then compiled at 1"=200' scale for each of the separate identified target areas into a binder format that is included with this report.

2) to date +300 exploration holes have been completed on the Rosebud Property by Asarco, Homestake Mining (late 70's and early 80's), Freeport Exploration (1985-86), St. Joe (1981-82), USMX (1988-89), Lac (1988-94) and Hecla Mining Co. (1994-present). Possibly 200 of the holes have been completed in the Dozer Hill-Rosebud Mine general vicinity and only 10-30 of these were examined on an as needed basis for this study. The remaining holes were all plotted, the geologic/assay logs examined and the information then organized into the above target areas. At times the old geologic logs had to be re-interpreted in light of the now more complete understanding for the surface geology. Several times the logs were so vague that any geologic re-interpretation was impossible, but at no time was a complete re-logging of the hole attempted.

3) the surface exploration data and the drill hole data were then examined together in detail for each target area to determine what, if any exploration potential remained. Due to time limitations, none of the target areas that now appear valid were then re-examined or sampled in the field.

The results of this investigation were that 7 of the previously proposed target areas were found to have been tested with drilling that returned negative assay results and no further exploration interest now appears warranted (Short Shot, North Rosebud Peak, Degerstrom, East Dreamland, West Degerstrom,



Target IV and Oscar). It also appears that 4 of the originally proposed target areas were poorly based and therefore they were dropped from discussion by predecessor companies in later reports and/or memos (School Bus Canyon, North Kamma, South Kamma and Chalcedony). The remaining 10 areas are thought to contain some remaining exploration potential and they are the focus of this report.

One limitation to this review is that the volcanic stratigraphy has been subdivided at times along different stratigraphic horizons by past investigators and then each subdivision has been called a wide variety of formation names. The exploration drill holes outside of the main Dozer Hill-Rosebud Mine area were also poorly logged with little or no attempt to implement surface geologic terminology into the logs. This is an understandable problem with volcanic units that have subtle differences and reverse circulation drill cuttings that are difficult to log, but at Rosebud the confusion appears to have been exaggerated as a result of +6 separate companies working in the area over a short 10-15 year period.

Since this study was conducted in a very brief time, great liberty was taken in the re-interpretation of the drill logs using the formation breakdown as defined in the reconnaissance geologic mapping effort (Brady, 1995). One future project for the mine staff would be to formalize a re-logging effort going back to the original cuttings/core if still available.

Based on old reports and field sketch maps found in Hecla's files, the following appears to be a rough stratigraphic correlation chart for the various formation names presently in use.

|                   | Lac, 1990          | Lac, 1991       | Lac, 1992 at mine   | Brady, 1995       |                   |
|-------------------|--------------------|-----------------|---------------------|-------------------|-------------------|
|                   | Badger             | Badger          | Badger              | Badger            |                   |
|                   | Gator              | "               | "                   | "                 |                   |
| Chocolate<br>Tuff | welded tuff(Tct)   | upper chocolate | chocolate volcanics | welded tuff (Tcw) | Chocolate<br>Tuff |
|                   | pyroclastics(Tcp)  | lower chocolate | " "                 | nonwelded (Tc)    |                   |
|                   | upper bedded(Tcb2) | genuine Bud     | upper Bud           | Tbs2              |                   |
|                   | felsite sill(Ts)   | Wildrose        | marker bed(TMB)     | Ta                |                   |
|                   | lower bedded(Tcb2) | Bud light       | lower Bud(LBT)      | Tbs1              |                   |
|                   | Dozer(Td)          | Dozer(Td)       | Dozer(Td)           | Dozer(Td)         |                   |

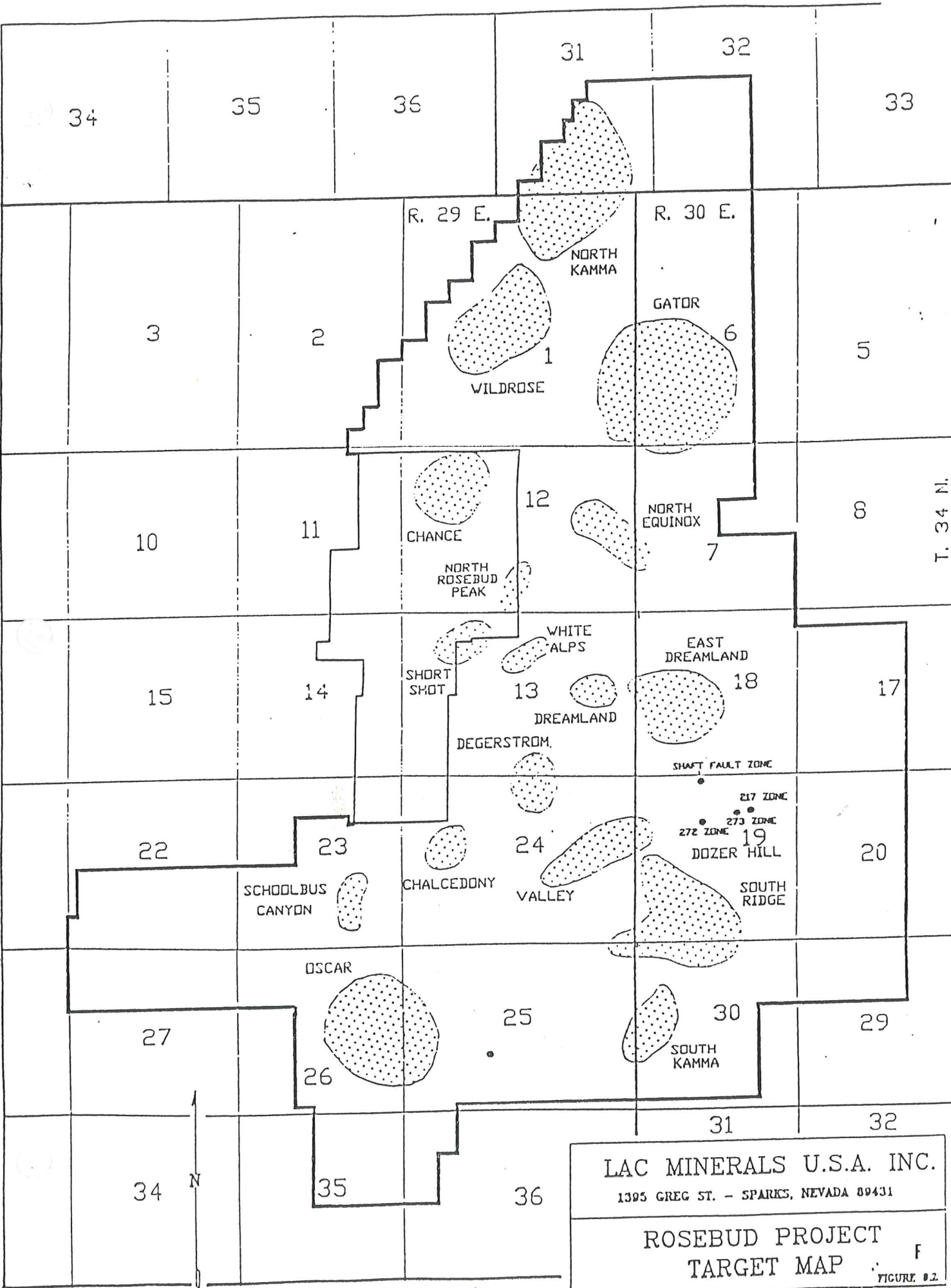
Notes: some of the logs refer to FGT (fine grained tuff), RBU (red brown ugly), tuff or just describe the unit by color. I could not place these descriptions into any stratigraphic connotation. When I briefly re-interpreted the drill logs based on surface mapping, I guessed in general the units intersected in the drill hole based on:

Ta = phenocrysts noted

Tbs1 or Tbs2 = no phenocrysts noted but usually breccia textures, graded bedding or other sediments textures noted in conjunction with a tint of green coloration (clay).

Tc = none of the above noted and too shallow to be Td

Td = none of the above noted and too deep to be Tc



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ROSEBUD PROJECT  
TARGET MAP

FIGURE 8.2  
SHEET 1 OF 1  
DATE 5/93  
BY J.A. MULLER



## ROSEBUD PROJECT

PERSHING AND HUMBOLDT CO., NV.

TARGET AREAS

ROSEBUD

O

WILD ROSE

CHANCE

NORTH  
ROSEBUD  
PEAK

NORTH EQUINOX

SHORT SHOT

DREAMLAND

EAST DREAMLAND

WHITE ALPS

DEGERSTROM

DOZER HILL

VALLEY

OSCAR

SOUTH RIDGE

T.  
34  
N.

FIGURE 3.7

HECLA MINING CO TARGETS

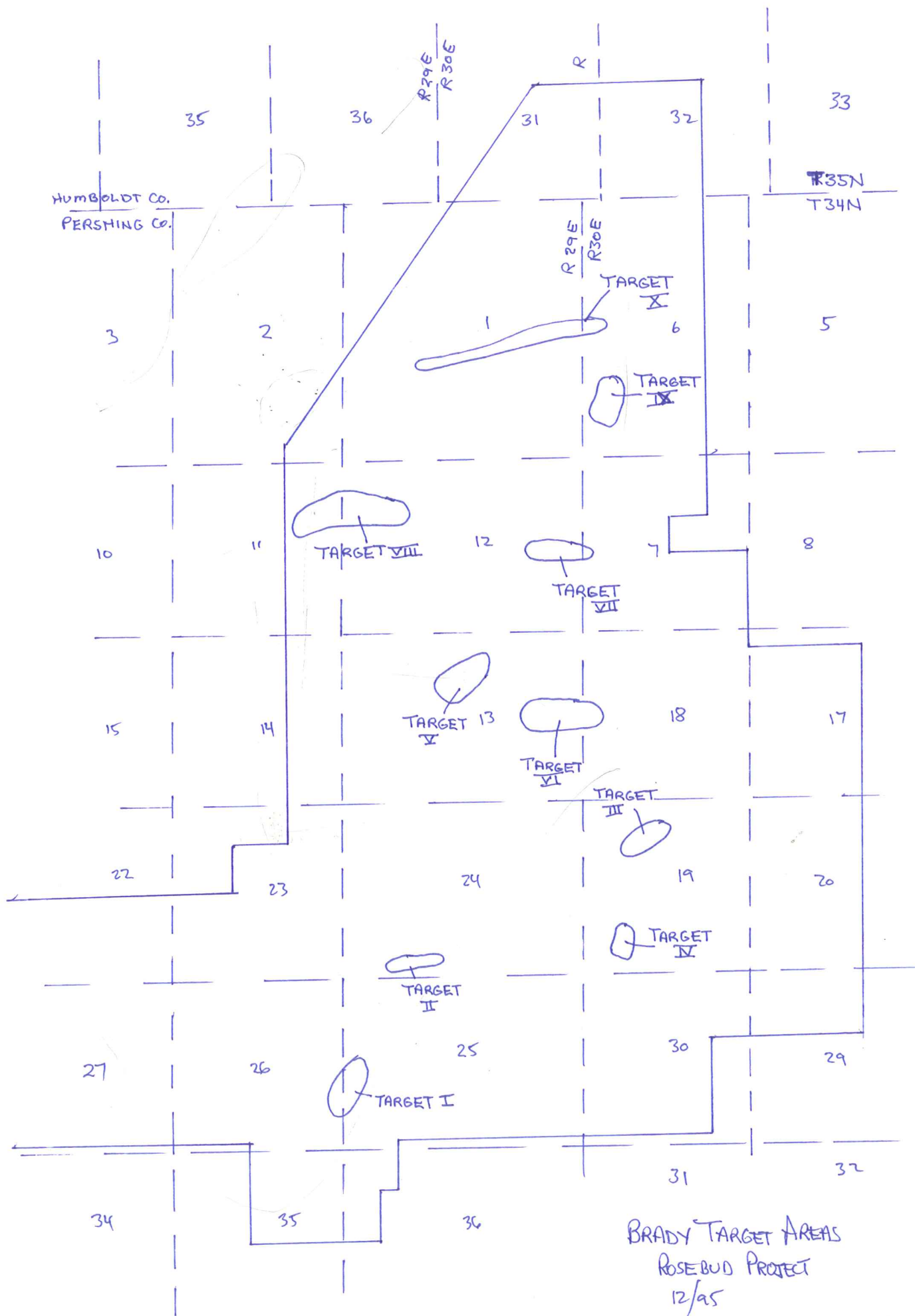
— MAJOR FAULT ZONES

— TARGET AREAS, CURRENT  
DRILLING

— LAND BOUNDARY

SCALE 1" = 4000'





## TARGET DESCRIPTIONS

### General

Exploration targets have been proposed by all of the companies that have worked at the Rosebud Property. Some of the targets have now been completely drill tested, others partially tested and yet some remain unexplored. Usually the target name persists from company to company but its location and boundaries may shift somewhat.

In this study I have attempted a complete compilation of all of the targets in their broadest aerial definition. The following discussion therefore pertains to areas of exploration interest that may have been recognized by one or all previous companies but not necessarily was the company's interest based on a similar set of criteria. It does appear to be correct that based on surface observations, no areas outside of those that follow appear to contain any exploration interest.

#### 1. Short Shot

A large bleached area that is located 2,000 feet west of Rosebud Peak. Soil sampling revealed +50 ppb Au, +15 ppm As, low Sb and Se while the geophysics returned no IP/resistivity anomaly. The surface host for mineralization/alteration is the Tbf unit with the Tc unit suspected to underlie at shallow depth. Lac completed 4 vertical reverse circulation holes in 1991 on the southwestern perimeter of the geochemical anomaly and intersected no anomalous values (no logs available, only mention in a year end report summary). The only area left to test would be up-slope within the soil anomaly but it is not recommended except on a very low priority basis. The target is considered to have been essentially tested with no further exploration interest justified at this time.



~~SHORTSHOT~~  
~~1" = 200'~~

474,000

2,210,000 N

Av/As  
Soil anomaly

14

ORRAL

## 2. North Equinox

A large, east-west trending chalcedonic breccia zone hosted in the Tc unit that strikes across USMM 212 hill over a distance of 2,000 feet. A second N25-30W trending silicified fault zone appears to terminate the silicified breccia zone on its western extent. The main zone trends under Tb cover to the east. Surface rock chip sampling in the silicification records erratic 50-100 ppb Au, 20-60 ppm As and 20-40 ppm Sb with increasing values topographically lower on the hill. The non-silicified wall rocks appear to be essentially barren.

Lac drilled 4 angle reverse circulation holes in 1990 primarily to test the east-west trending silicified zone but only low grade erratic 0.01-0.03 opt Au values were intersected in the immediate hangingwall. The zone itself was found to be barren. Hole RL-87 was drilled on the western strike extent of the main zone and no silicification 650 feet below the present-day erosion surface was logged. This might imply that either the silicification is a surface feature or that it was faulted out at depth.

A well defined, north-trending IP anomaly is present on the hangingwall to the east-west silicified zone just north of hole RL-85. Interestingly the bottom portion of RL-85 also records strong silicification with erratic 0.01 opt Au. Outcrops are poor but a north-northeast trending, steeply west dipping silicified fault was mapped and rock chip samples returned consistent 80-120 ppb Au values from the area.

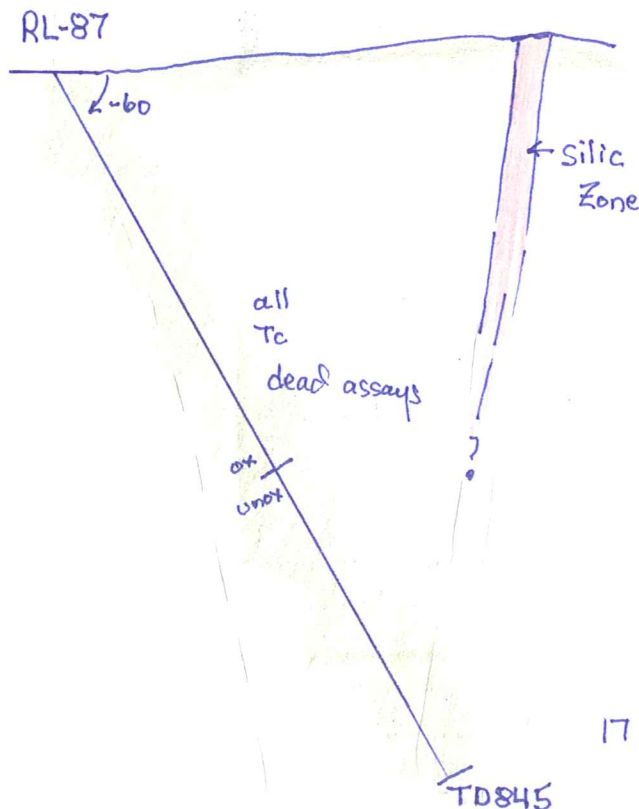
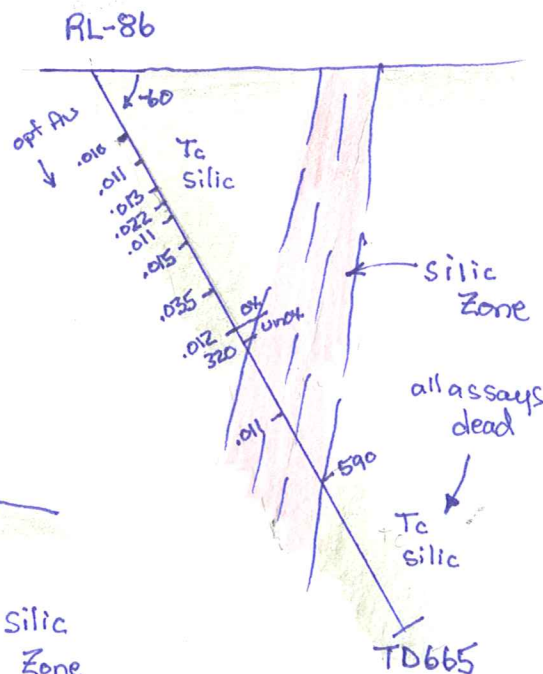
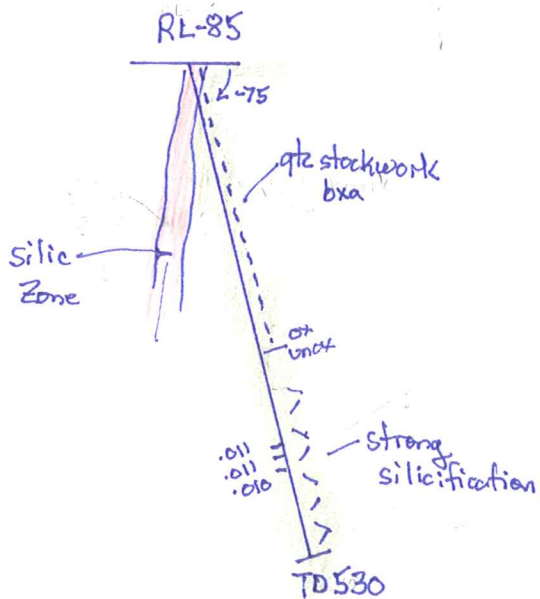
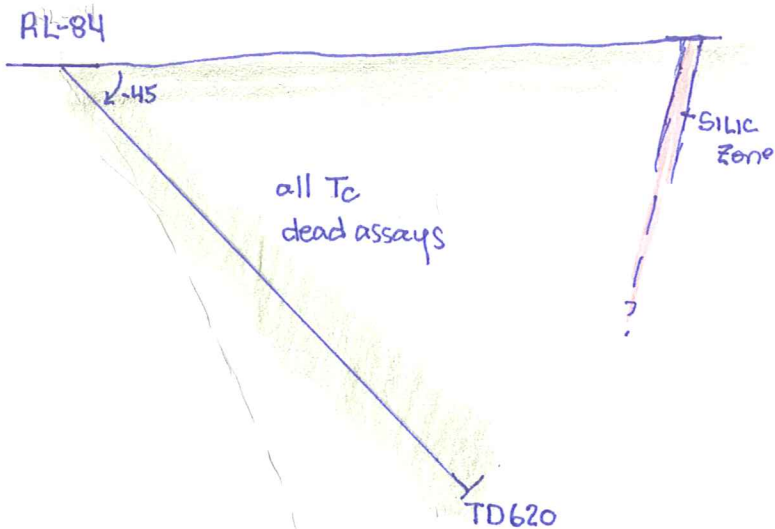
One core hole is proposed to test the IP/geochem anomaly. Coring rather than reverse circulation drilling is suggested to better understand the nature of the anomaly as well as to prospect for a favorable host that might be extrapolated south to intersect the main zone of silicification.

A second hole could be attempted where the east-west zone of silicification intersects the N25-30W silicified fault but it is not recommended due to the negative results obtained in RL-87. The area may justify additional interest in the future once the nature of the IP anomaly is established.









NORTH EQUINOX  
 1" = 200'  
 DRILLING CROSSSECTIONS

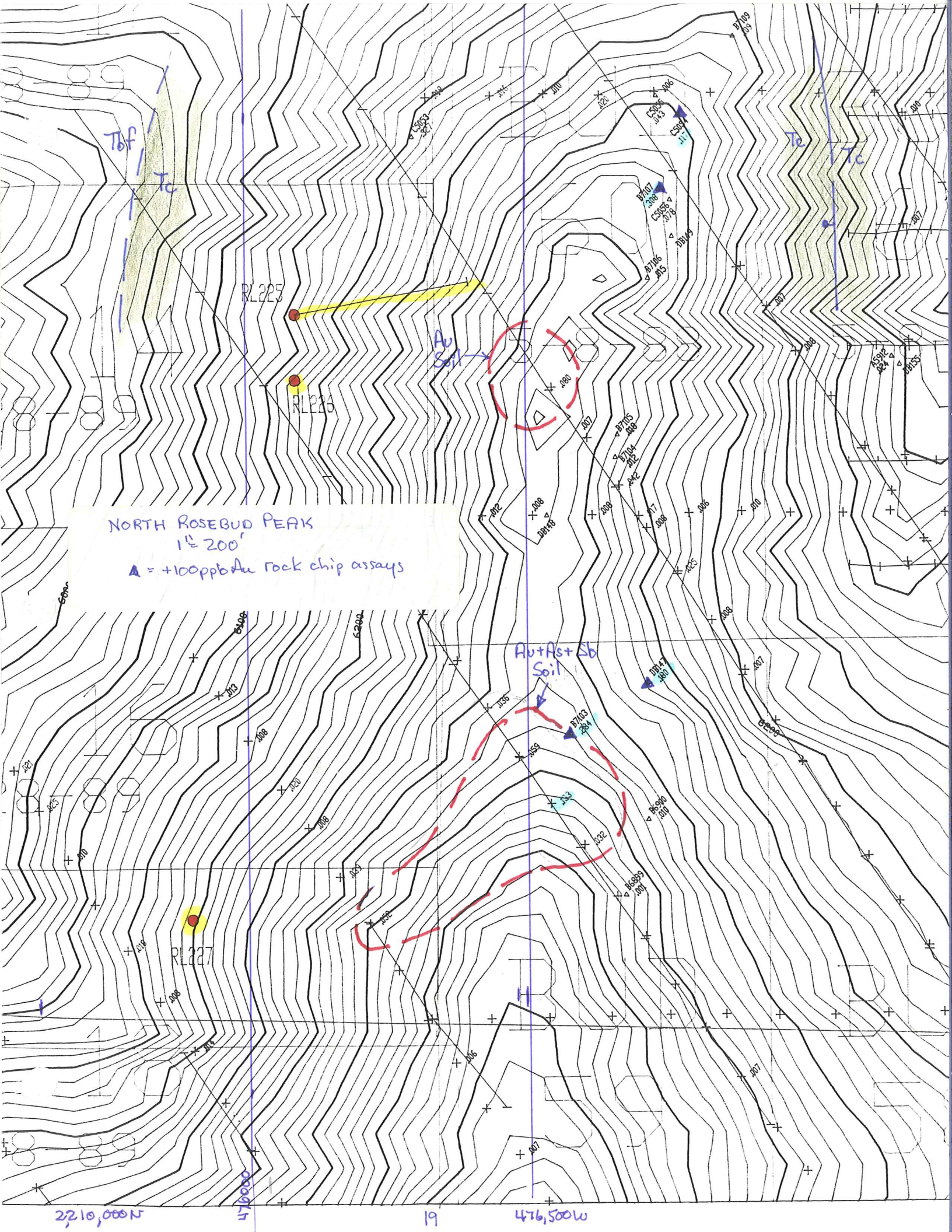


### 3. North Rosebud Peak

Mapping revealed scattered silicified breccias along the north trending ridge that extends north from Rosebud Peak. The breccias are hosted in the Tc unit with Tbs suspected at relatively shallow depth. The geochemistry for the area is generally low and the IP/resistivity work revealed no anomaly. Lac completed 3 reverse circulation holes along the west side of the ridge in 1991 and none intersected anomalous mineralization. Based on my compilation, it appears that all of the holes were poorly located and that they failed to test even the weak surface geochemistry.

Just east of hole RL-227 a Au+As+Sb soil anomaly persists across two separate sample lines that remains untested. A base surge horizon (Tbs3) may trend into the area from the south, possibly sub-cropping under soil and talus cover between the anomaly and RL-227 (dipping to the east). Drilling on the geochemical anomaly looking for the Tbs unit at depth might be interesting but, since the three holes are dead and the IP/resistivity results flat, this area is suggested on a low priority basis for the future.





NORTH ROSEBUD PEAK

1" = 200'

▲ = +100ppb Au rock chip assays

Au+As+Sb  
Soil

RL227

RL225

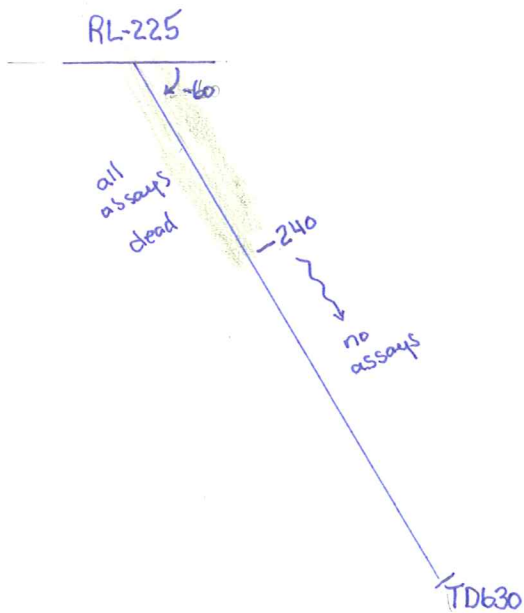
RL226

Au  
Soil

2210,000N

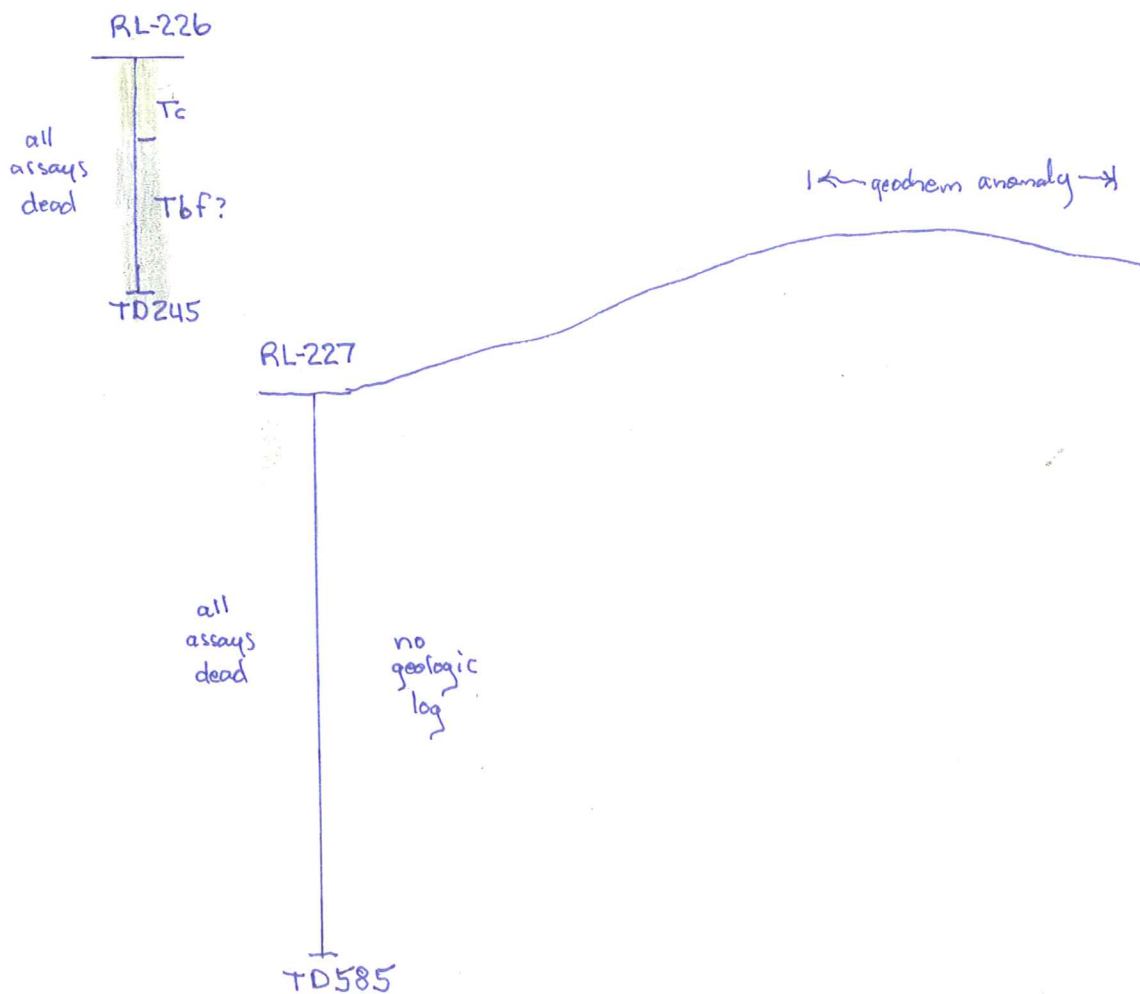
19

476,500W



NORTH ROSEBUD PEAK  
1"=200'

DRILLING CROSSECTIONS





#### 4. Target II

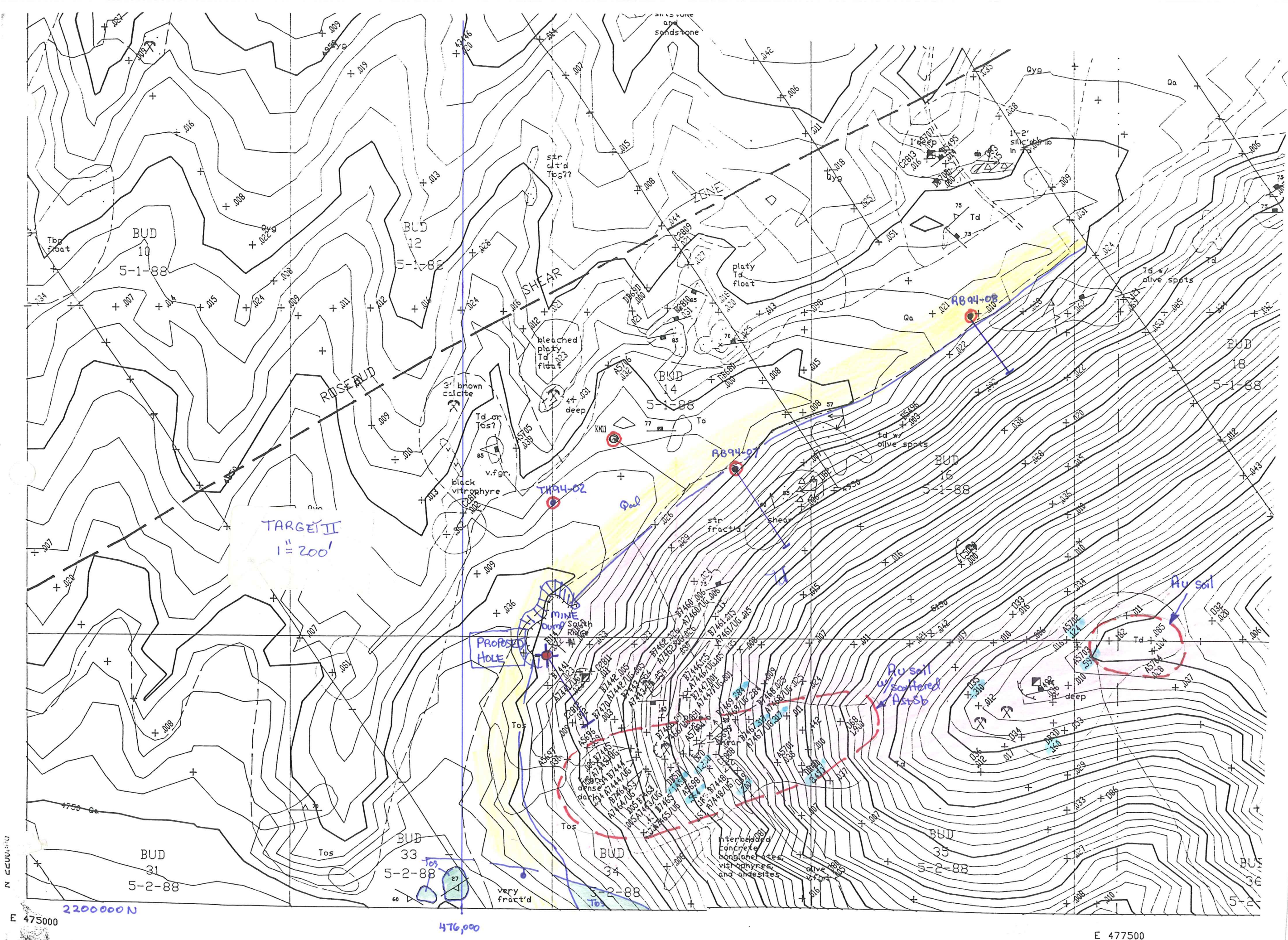
Located on the extreme western end of the prominent topographic ridge south of the Rosebud Mine. Numerous shallow surface pits and adits as well as one underground mine with +500 feet of workings explore a N70-75E oriented zone of fracturing hosted in the Td unit. Individual fractures vary from 0.25 up to 1.5 inches wide and they appear to persist over strike distances of only 10-50 feet but overall they are present within a laterally continuous zone that strikes roughly 1,600 feet. Strong gold (+1.0 ppm), arsenic (+100 ppm) and antimony (+10-20 ppm) are present in rock chip samples. Unfortunately this location is at the edge of the geophysical survey so reliable IP/resistivity information is not available.

The stockwork/fracture zone averages only 50-100 feet in width and it therefore is not considered interesting for open-pit consideration. It is possible that the fractures coalesce with depth into a more discrete shear/vein that may have potential for underground mining. Such a character change would most likely occur below the Td unit at a formation change into the Tos or the JTra basement.

Past drilling in the area consists of hole KM-11 drilled by Freeport Exploration in 1985-86 and various condemnation holes drilled by Hecla in 1994-95. Although all were dead of any mineralization, none were positioned to test the downward projection of the zone of present interest.

At this time only one core hole is proposed to explore the downward continuation of the stockwork/fracture zone. The hole is positioned to hopefully penetrate below the Td unit but this is a difficult target since the elevation of the contact is unknown. Coring is the preferred drilling option since this hole also will be penetrating a poorly understood stratigraphic section below the Td unit and the information gathered might be of some interest elsewhere on the property.







RB94-08

L-60

Td?

no  
assays  
available

TD405

RB94-07

L-60

Td?

no  
assays  
available

TD405

KM-11

L-60

rest  
assays  
dead

.046

Td?

TD405

TH94-02

Td?

all  
assays  
dead

TD251

TARGET II

1:200'

DRILLING CROSSECTIONS

## 5. Valley

This area is located in the alluvial filled valley that parallels the Rosebud Shear approximately 2,500 feet west of Dozer Hill. Outcrops north of the Rosebud Shear are of the post-mineral Badger unit while outcrops to the south are exclusively of the Td unit. The target is blind, being defined by a persistent IP high that trends north-south under Badger cover but terminates at the Rosebud Shear projection. the Tc unit appears to underlie the area based on the drill logs..

Past drilling has been extensive but apparently the holes were directed to test postulated east-west trending features due to the hole locations and inclinations. Although oriented incorrectly to test the IP anomaly, the previous drilling was successful in the following anomalous intersections:

RL-56, 65-90 ft @ 0.015 opt Au/1.5 opt Ag and 285-295 ft @ 0.05 opt Au

RL-74, 320-325 ft @ 0.095 opt Au, 415-420 ft @ 0.053 opt Au and 525-530 ft @ 0.079 opt Au

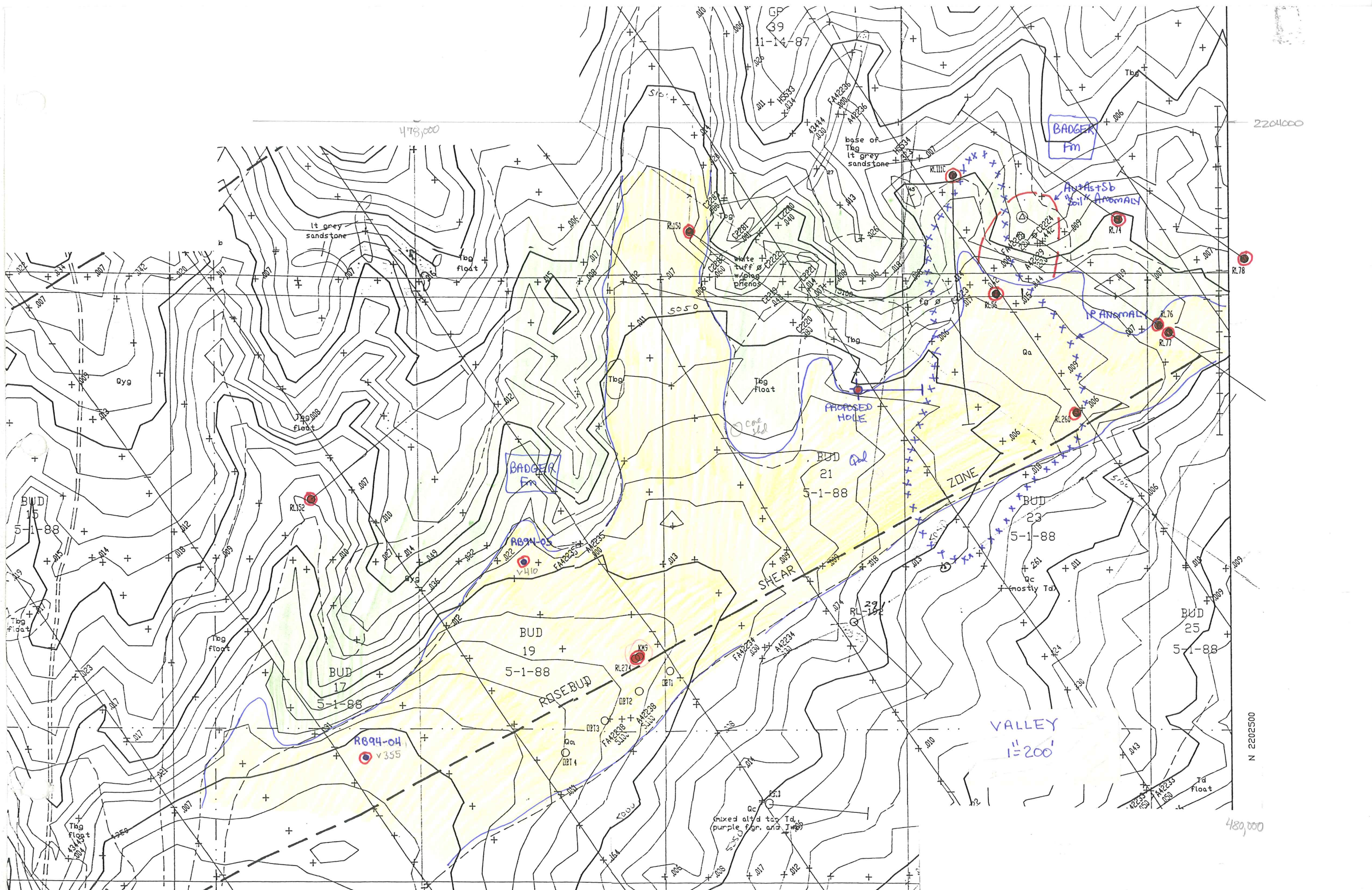
RL-77, 235-240 ft @ 0.045 opt Au

RL-111, 252-257 ft @ 0.039 opt Au

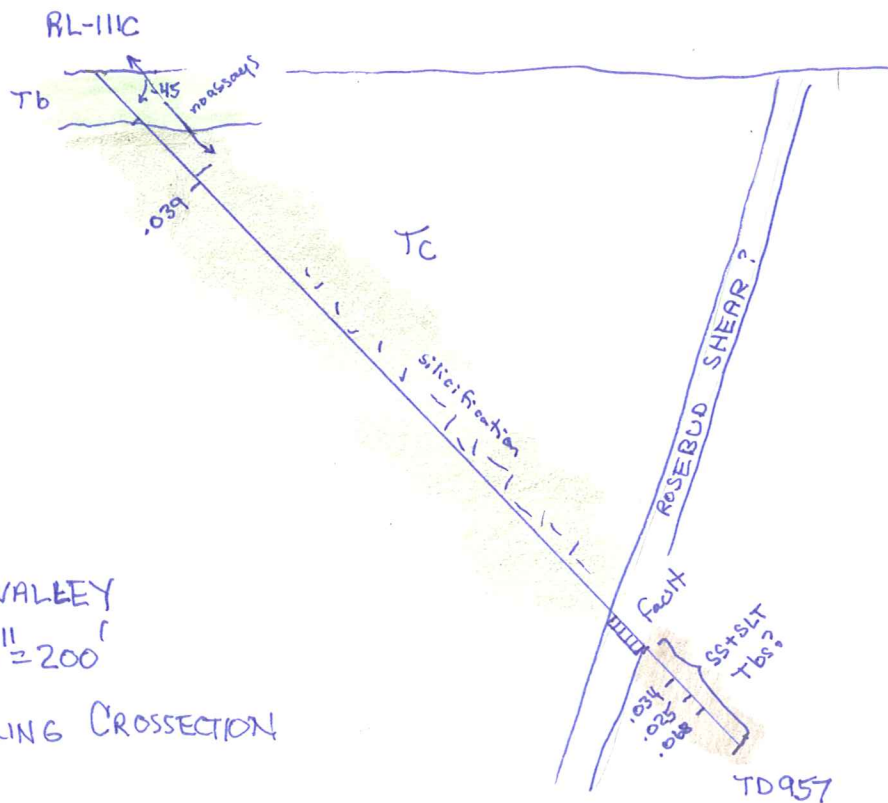
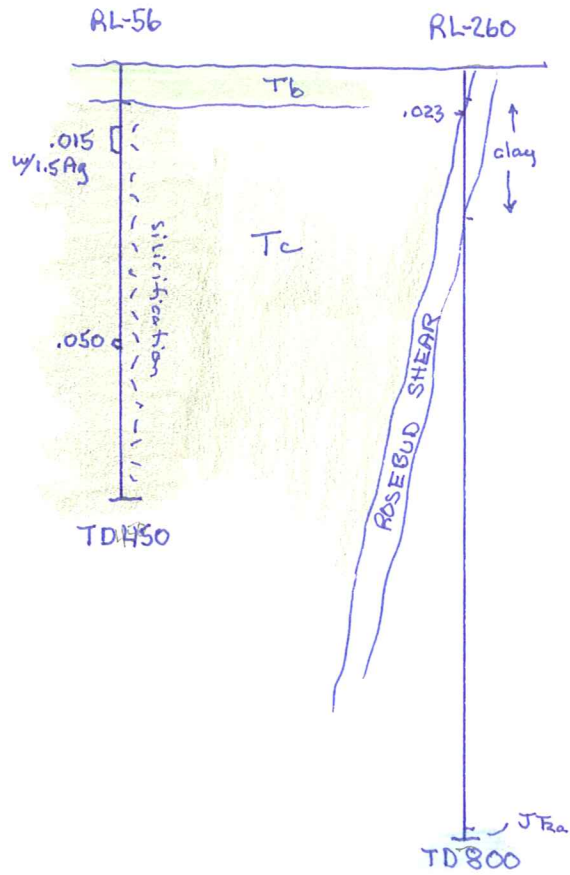
Drilling perpendicular to the anomaly axis from west to east as is proposed is thought to be a more reliable test for the area. Again coring is preferred since the target is blind and any stratigraphic information at this location would be of interest.

Another curious feature based on the drilling results is that hole RL-111 appears to have penetrated the Rosebud Shear at 785-831 feet and then the hole penetrated volcanic sandstone and siltstone descriptively similar to the Tbs unit in the footwall. This intersection was also mineralized as follows: 879-884 ft @ 0.034 opt Au, 907-912 ft @ 0.025 ft and 922-927 ft @ 0.068 opt Au. Hole RL-260 300 feet to the northeast also penetrated the Rosebud Shear but the footwall was dead while hole RL-274, 1,000 feet to the southwest penetrated the Rosebud Shear and found considerable low grade 0.01-0.02 opt Au in the footwall interval 495-560 feet at the Td contact (possibly a Tbs unit). Based on this information several interpretations are possible but the Rosebud Shear may branch and form 2 parallel segments at this location. The interesting drill intersections might therefore be located between the two parallel branches within which some exploration may be justified at a future date on a lower priority basis.

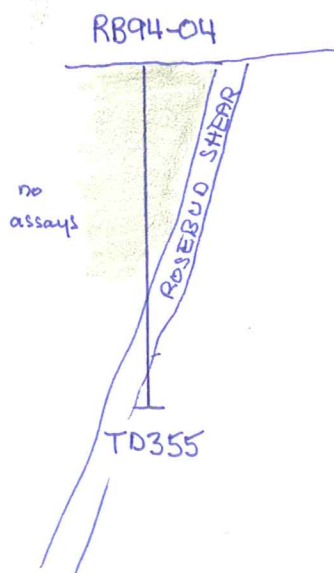
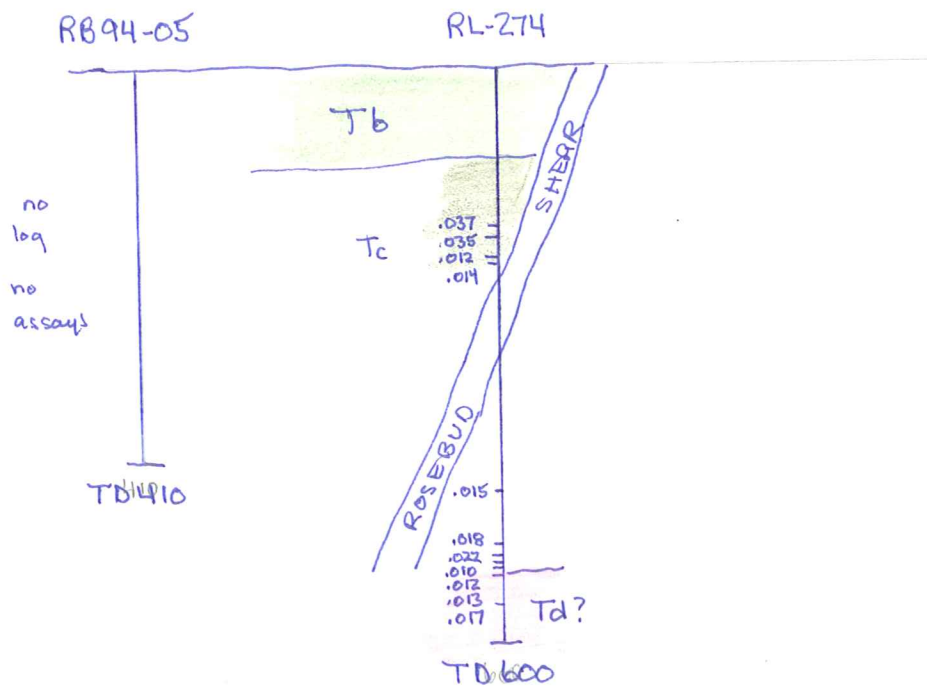




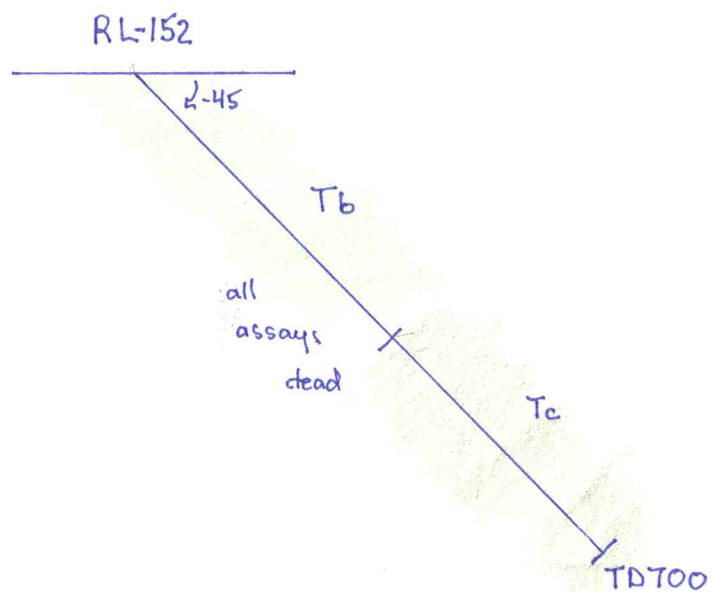
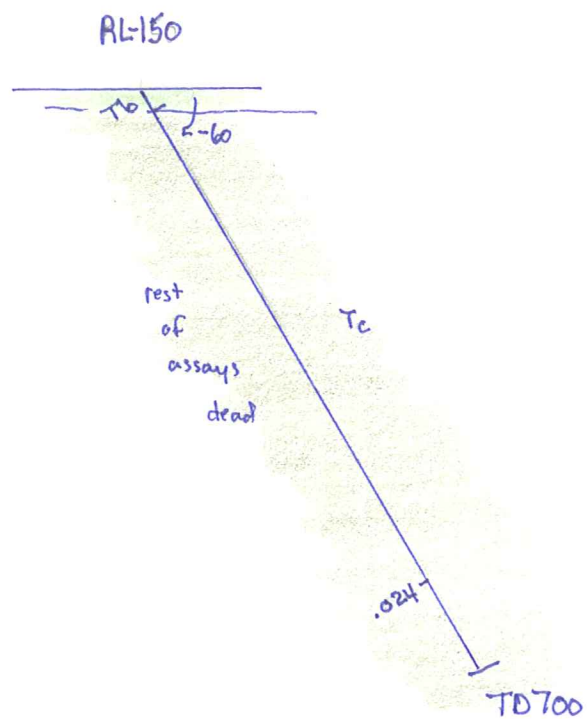




VALLEY  
 $1'' = 200'$   
 DRILLING CROSSSECTION



VALLEY  
 1" = 200'  
 DRILLING CROSSSECTION

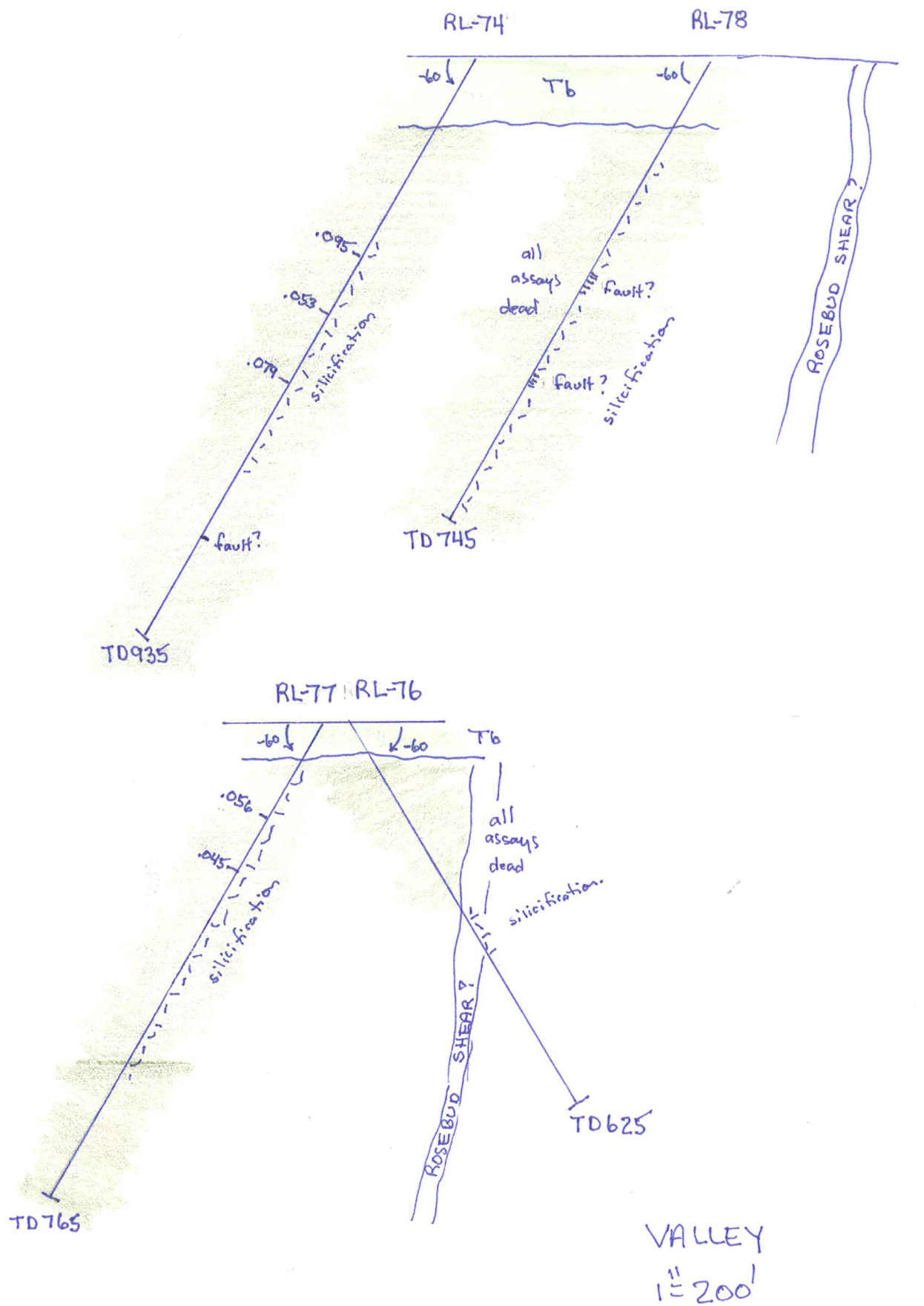


VALLEY

1" = 200'

DRILLING CROSSSECTION





VALLEY  
1" = 200'

DRILLING CROSSSECTION

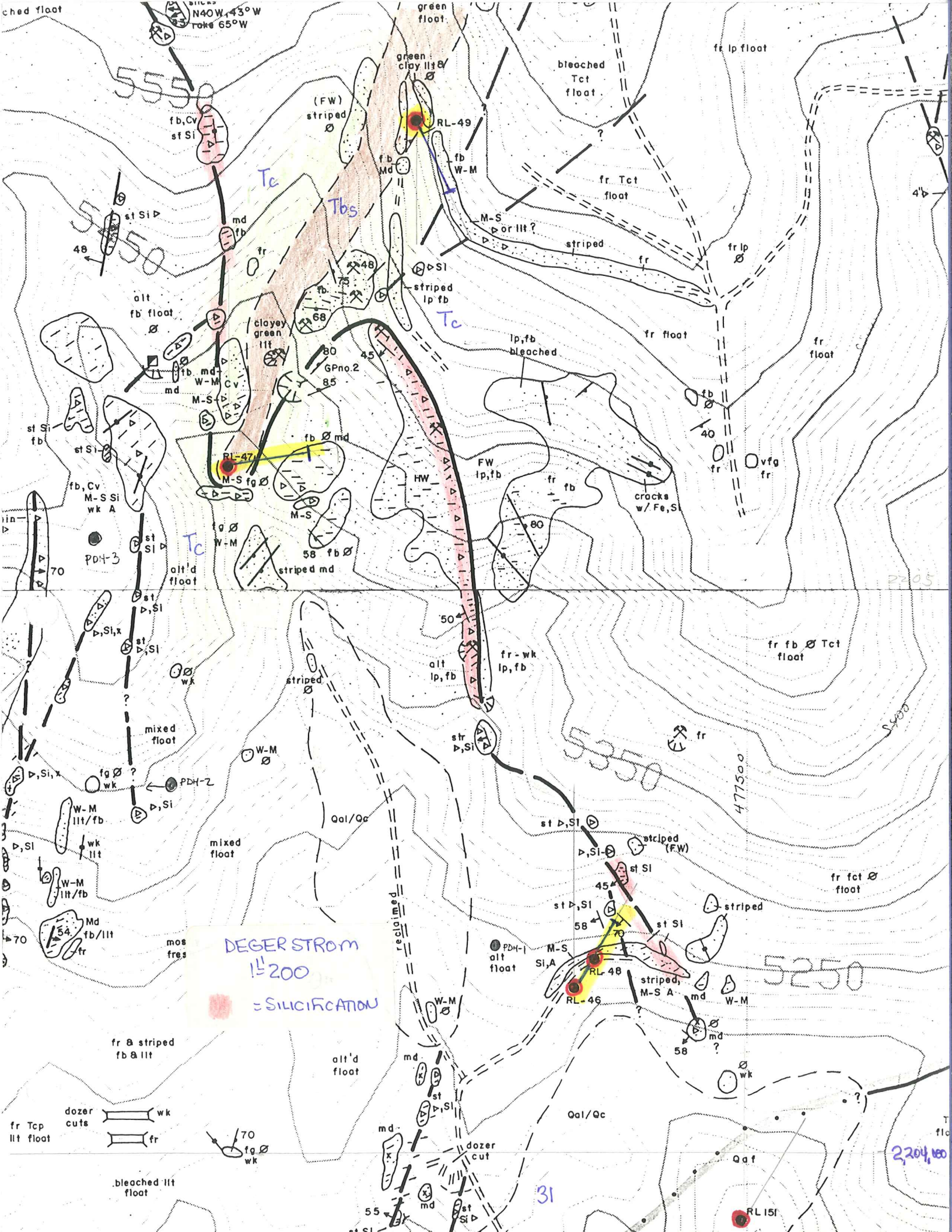
## 6. Degerstrom

Located approximately 5,000 feet west of Dozer Hill, a silicified north-northwest trending low angle fault zone hosted in bleached Tc dips west at 50-55 degrees. The footwall units are both Tc and Tbs4. The zone of silicification varies from 5 up to 20 feet thick within which gold is uniformly low at 20-40 ppb Au.

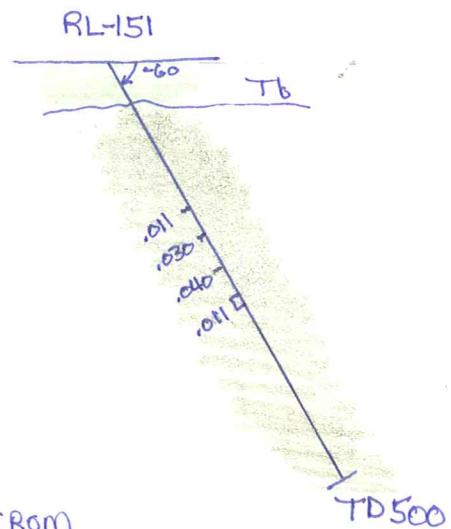
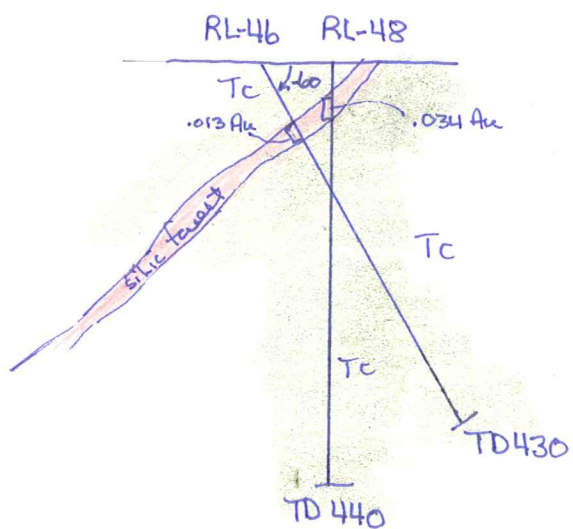
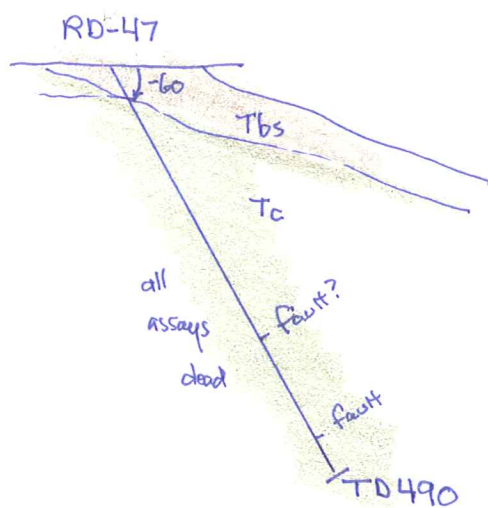
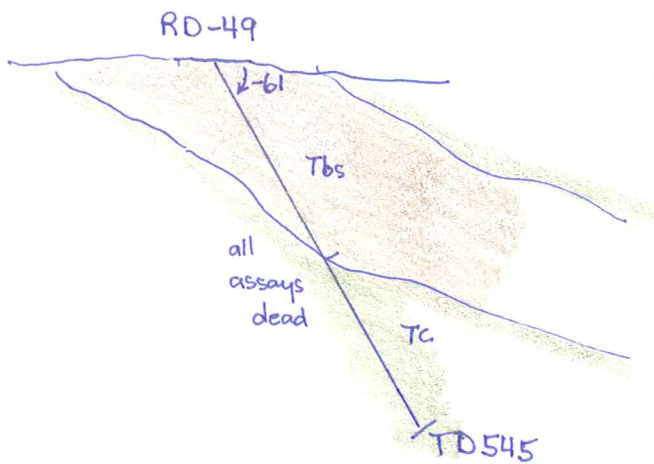
Soil geochemistry is essentially dead as was the IP/resistivity response. Lac drilled 4 reverse circulation holes in 1989 to test the fault plane and received only 15-20 feet @ 0.01-0.03 opt Au (RL-46 and 48). Two of the holes also penetrated into the footwall Tbs4 units with no anomalous mineralization detected.

The area looks fully tested and no additional exploration interest appears warranted.









DEGERSTROM

1" = 200'

DRILLING CROSSECTIONS

## 7. Dreamland

The Dreamland area is located northwest of Dozer Hill approximately 3,500 feet. It was the site of most of the past production from the Rosebud District with recorded production of roughly 3,700 ounces of gold and 116,000 ounces of silver (tons?) from several east-west trending clay rich shears. All mining was conducted underground with the deepest mine workings estimated at less than 500 feet.

Geologic mapping implies that all of the past production was from shears hosted in a rhyolite intrusive plug with overall surface dimensions of 2,000 feet east-west by 800 feet north-south. The north contact is mostly covered by post-mineral Badger Formation. The plug has intruded the Tc unit generating a tightly focused but intense zone of argillic alteration obscuring contact relationships. The west-central portion of the plug is also silica flooded in surface exposures.

Soil sampling reveals a strong Au+As+Sb+Se anomaly focused on the projected north intrusive margin over a strike distance of 1,000 feet north of hole RL-15 and west of hole RB-5. Since the anomaly is on the steep, south facing slope, some soil creep could be anticipated and an upslope source probably along the projected north intrusive margin is implied.

Rock chip samples from the intrusive returned consistent +100 ppb Au, 20-50 ppm As and 10-30 ppm Sb. The Tc outcrops contained erratic, only low anomalous values locally. Initially, it was felt that the intrusive itself was the primary target but Lac drill holes RL-223 and RL-224 were completed directly into some of the more attractive surface alteration and mineralization and both holes intersected only a few narrow low grade gold values. Also no increase in gold/silver was found at the sulfide interface so supergene enrichment is not a factor.

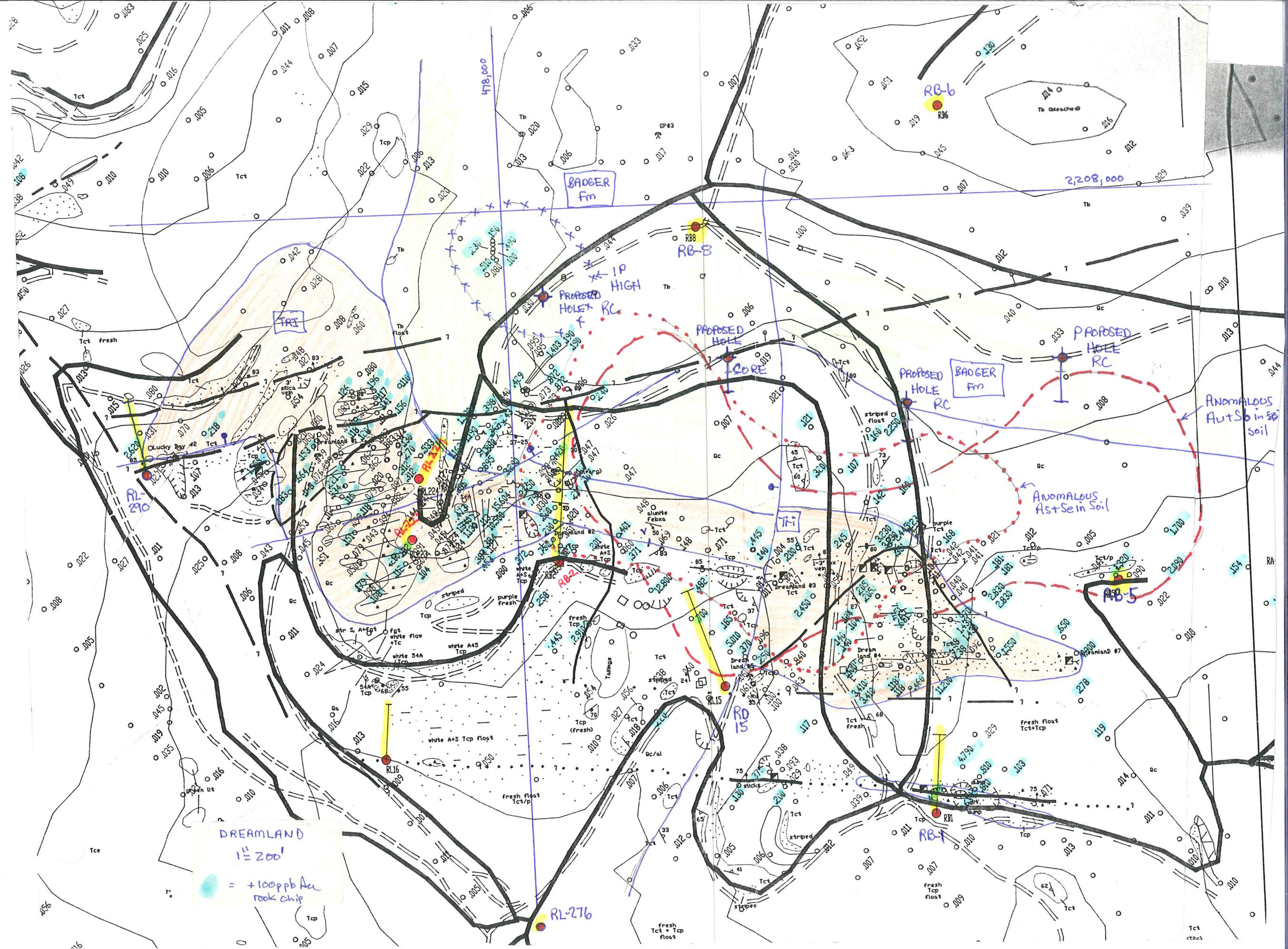
Drilling by Asarco, Freeport and Lac along the south intrusive margin appears to have been the major focus of past work in spite of the lack of any anomalous surface geochem or geophysical response. As might be suspected, all of the holes returned essentially barren assay results. One interesting feature was that the geologic logs for holes RB-2 and RD-16 both noted intervals of volcanic sediments at shallow depth which probably correlate to a Tbs horizon within the Tc sequence (probably Tbs4).

The remaining exploration target therefore appears to be along the north intrusive margin essentially blind under Badger cover. The soil geochem is focused on the area and there is a subtle IP high just to the north near hole RB-

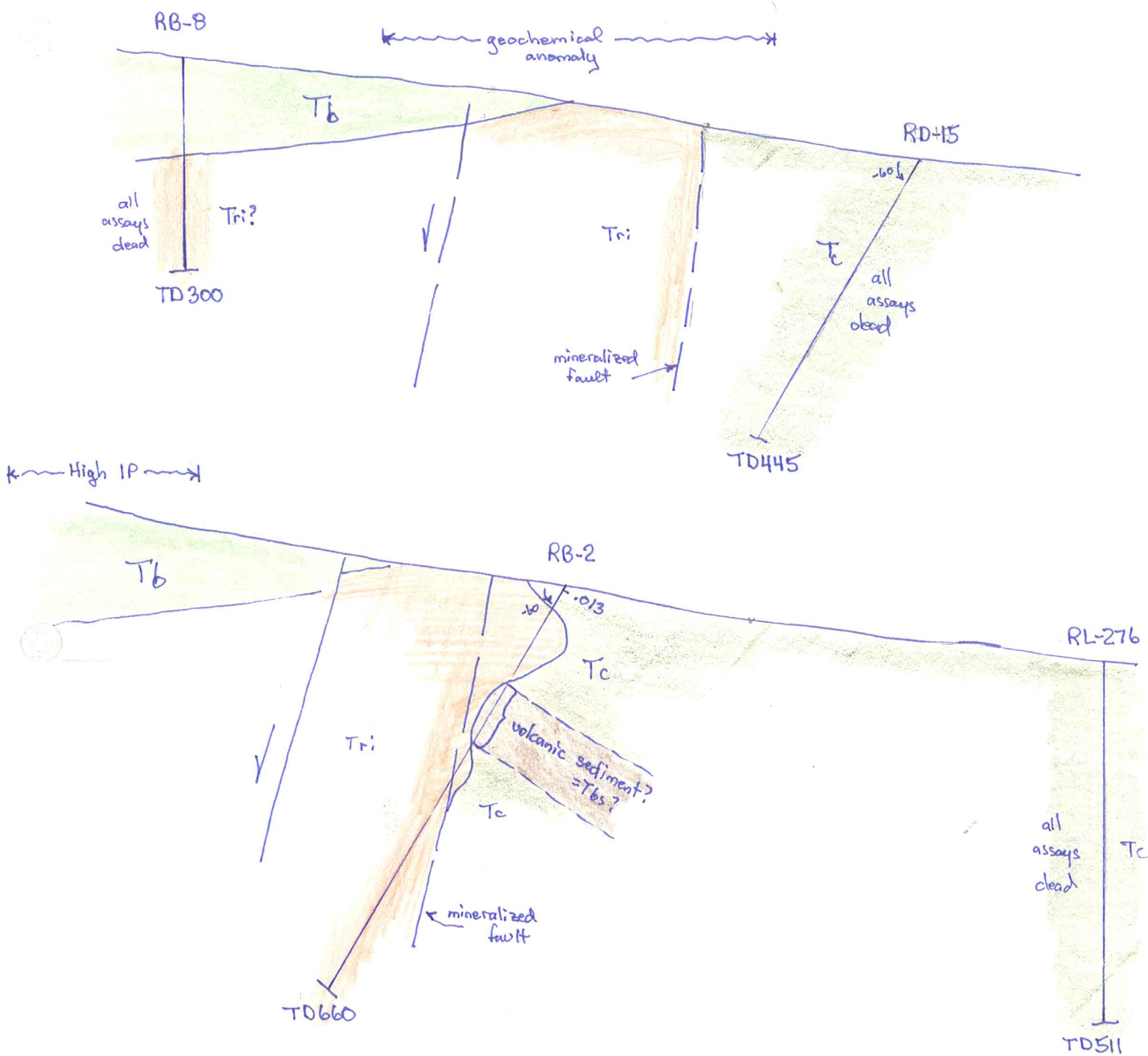
8. Also, the only anomalous drill hole to date at Dreamland is RB-5 and it returned values of 5-10 ft @ 0.042 opt Au, 35-40 ft @ 0.010 opt Au, 110-130 ft @ 0.027 opt Au, 180-190 ft @ 0.014 opt Au and 205-270 ft @ 0.015 opt Au. RB-5 was drilled on the extreme eastern limit of the soil anomaly.

In the drill proposal, I have suggested that the anomaly be tested with 4 holes, one of which should be core. The core hole is recommended to be drilled first since the suspected Tbs unit on the north intrusive margin is of primary exploration interest. Based on the property data reviewed to date, the Dreamland Target appears to be one of the more attractive that remains untested. I would therefore suggest that if budget considerations become a limitation, at least this area should be drilled on a priority basis.



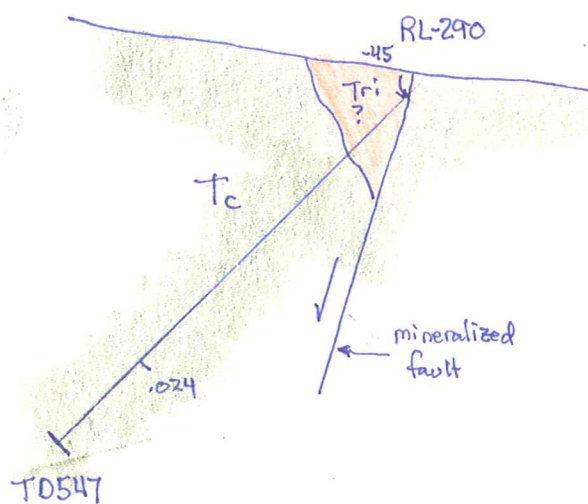
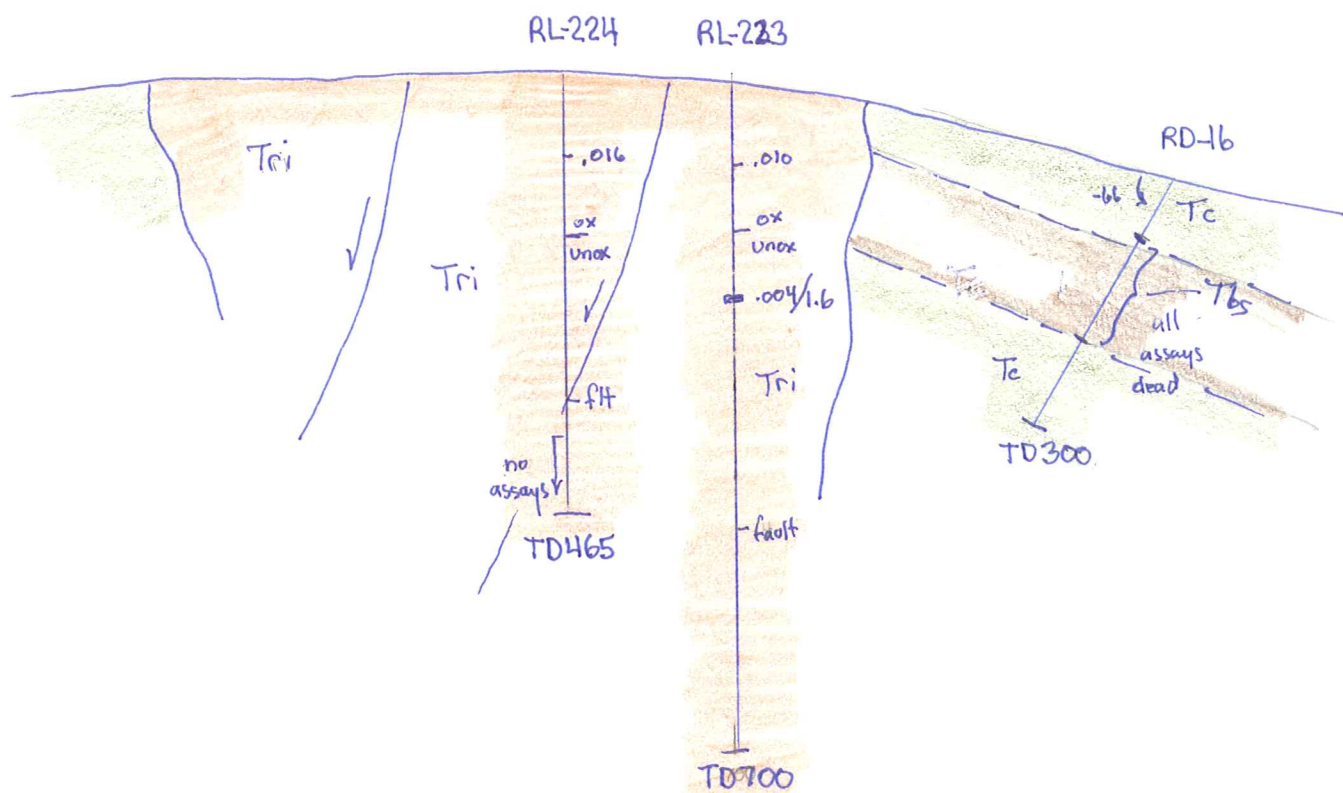






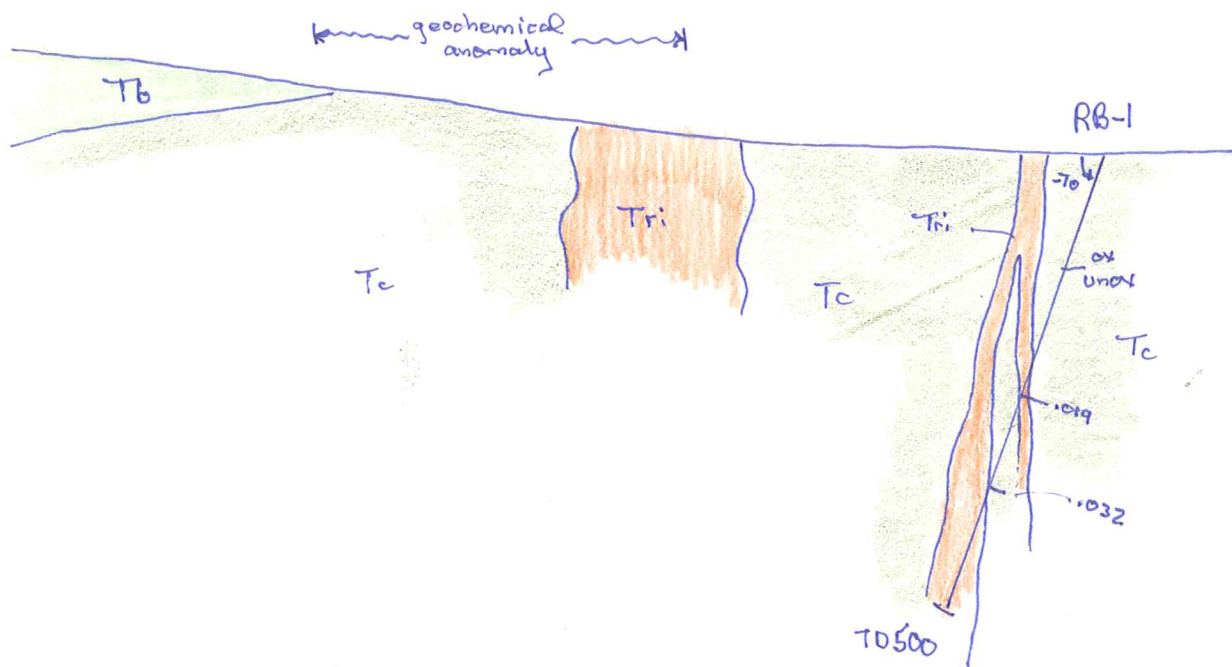
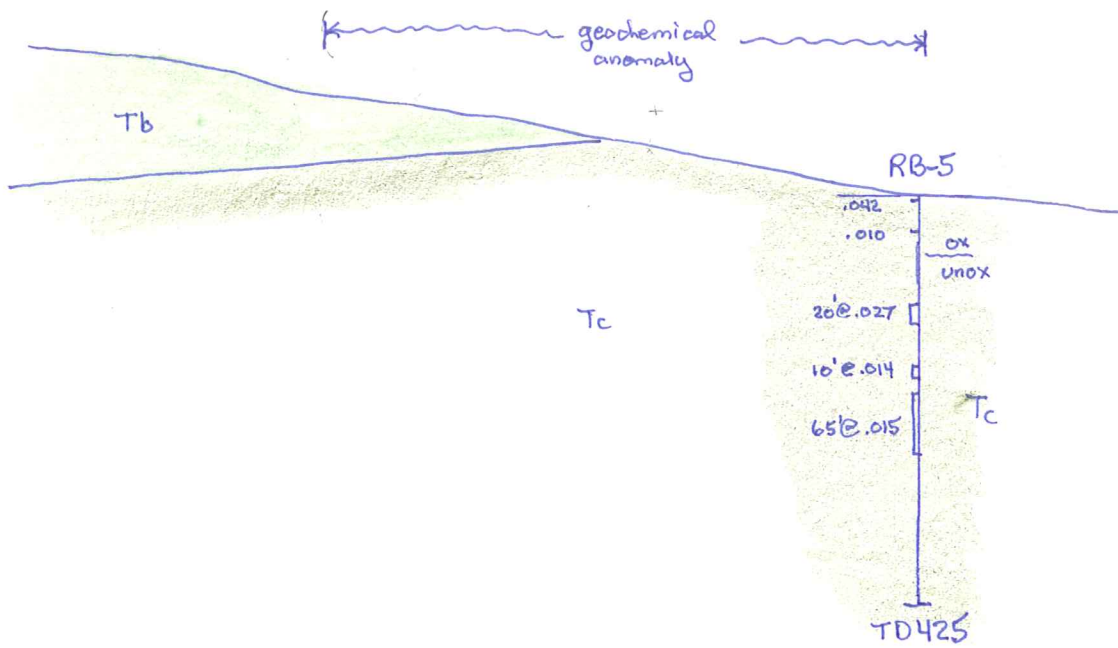
DREAMLAND  
 $1" = 200'$   
 DRILLING CROSSECTIONS





DREAMLAND  
1" = 200'

DRILLING CROSSSECTIONS



DREAMLAND  
1" = 200'  
DRILLING CROSSSECTIONS



## 8. White Alps

The White Alps area is located immediately northwest of the Dreamland Target. Along a south trending ridge south of Rosebud Peak, several irregular silicified breccia zones outcrop that have a visual similarity to silicification along the South Ridge Fault at the Rosebud Mine. Outcrop samples along the White Alps zone of silicification are essentially dead though.

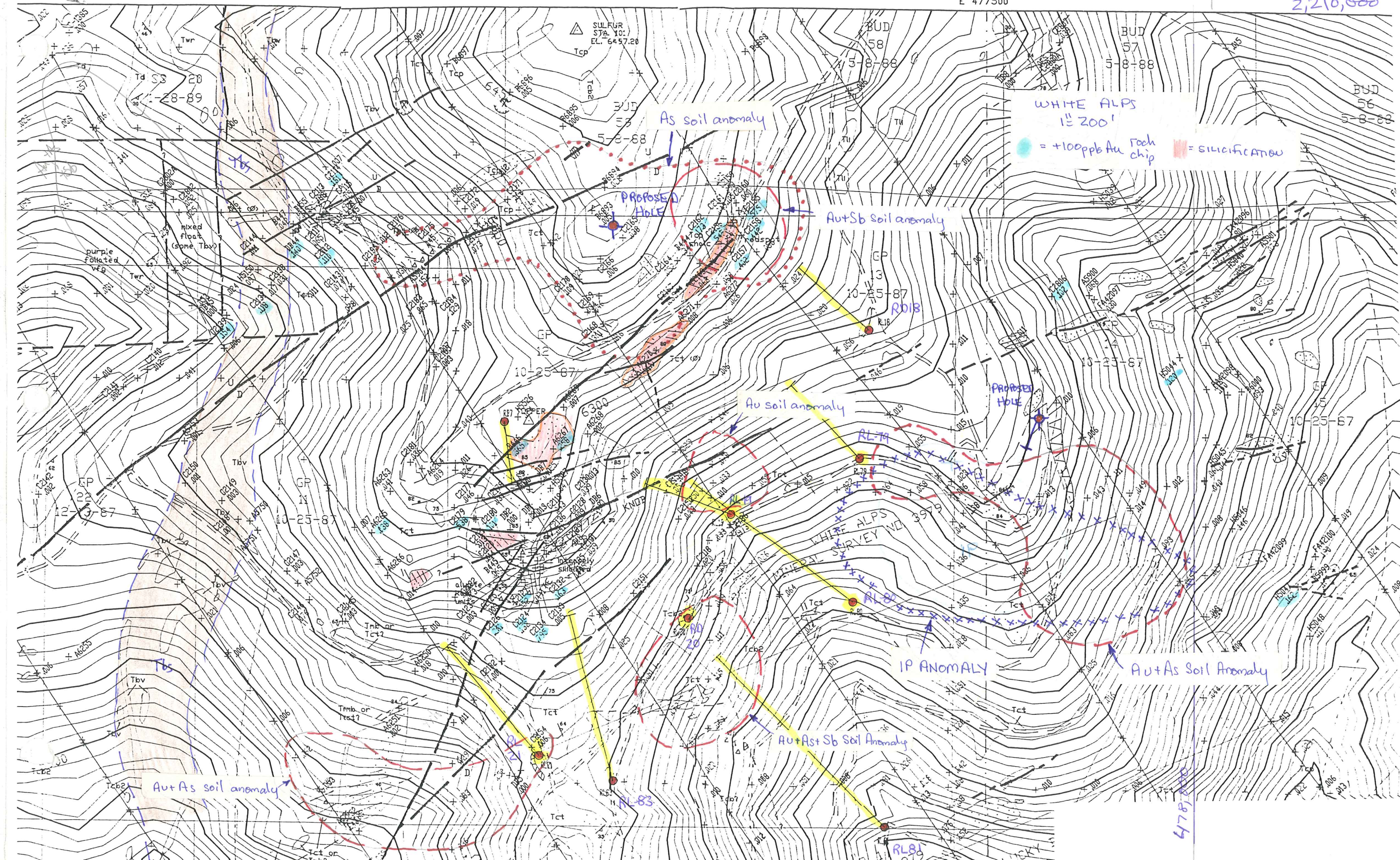
Lac completed extensive reverse circulation drilling along the east facing slope down from the White Alps in 1989-90. Almost all of this drilling was a disappointment since only a few narrow low grade mineralized fractures were intersected. Presumably Lac thought that the White Alps zone dipped to the east but it now appears that a near vertical or slightly west dip is implied, or that the silicification is only a shallow surface feature.

Soil sampling throughout the area revealed several relatively small Au+As anomalies. Most have now been drill tested with negative results and in hindsight, the anomalies now appear to be due at least in part to soil creep down the steep slope from the White Alps. Only two areas may deserve additional interest as described below:

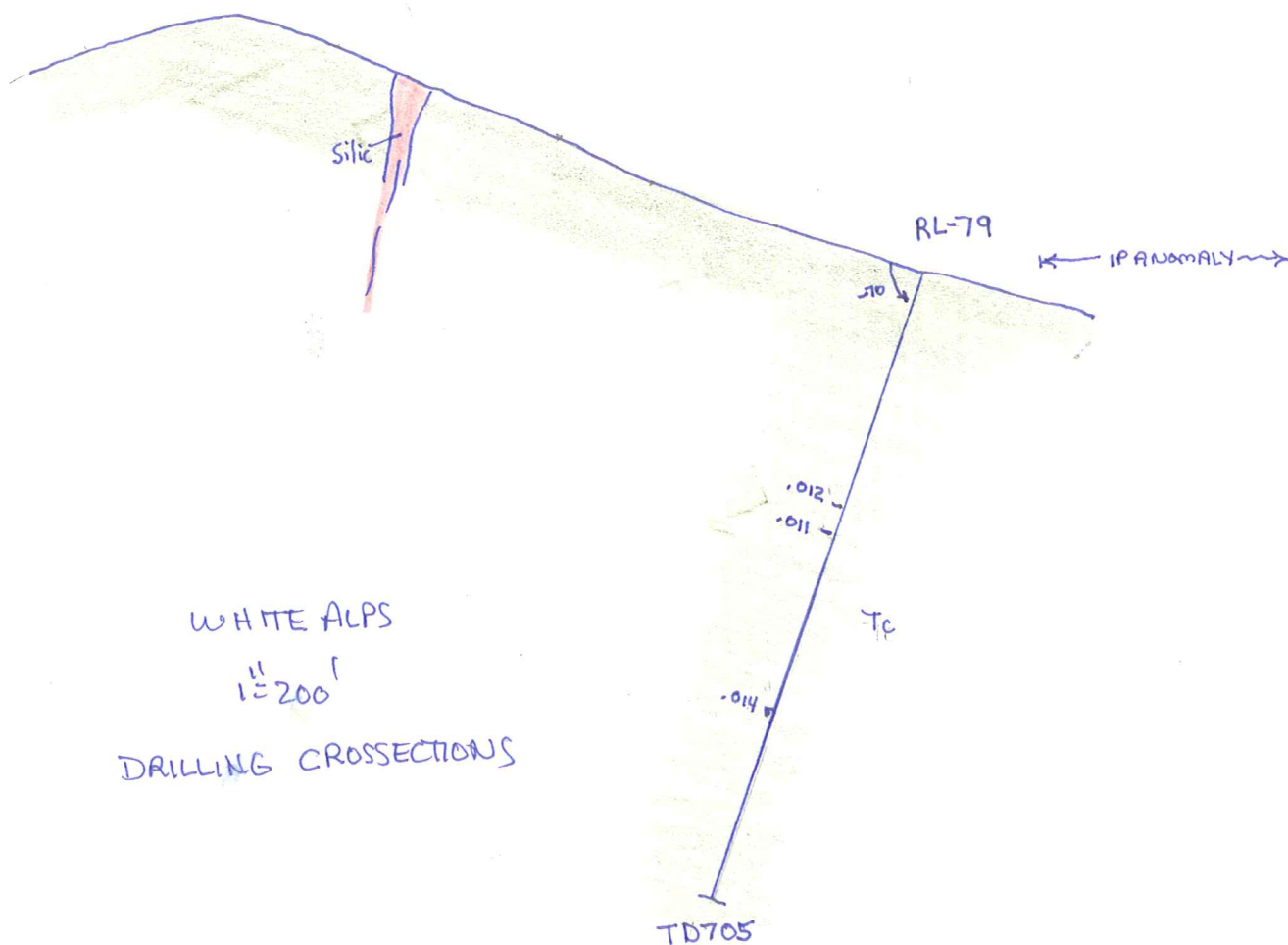
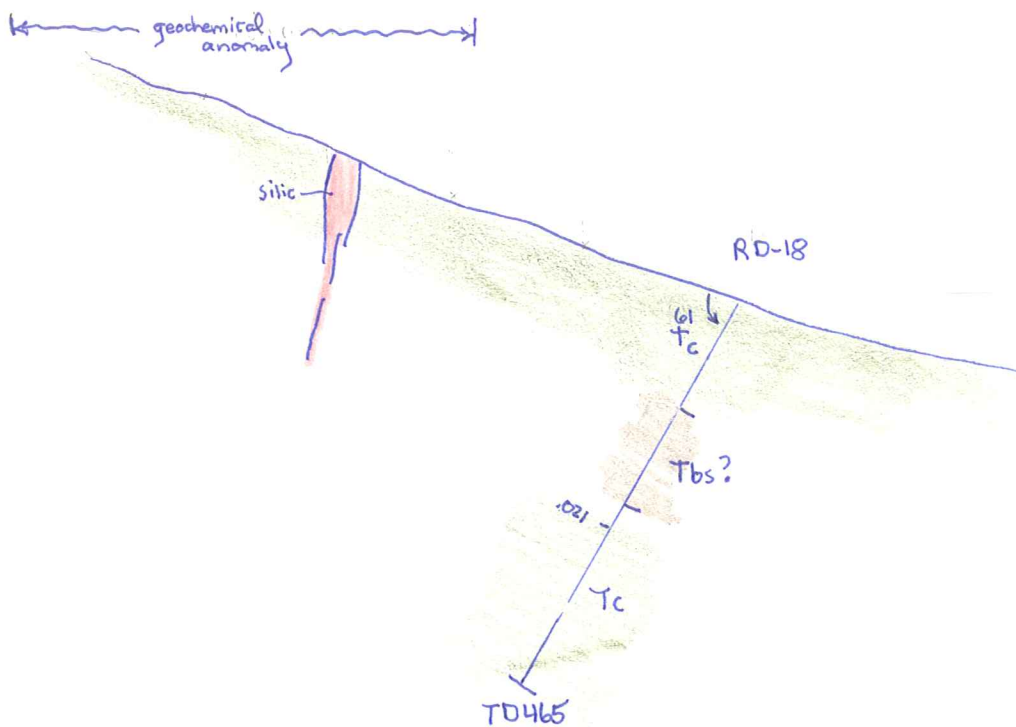
a. on the west (hangingwall?) side of the White Alps up slope from hole RD-18, a small but persistent +50 ppb Au and +10 ppm Sb soil anomaly is present that is haloed by a larger +10 ppm As soil anomaly. Mapping previously revealed extensive northeast trending fractures and several shallow pits that appeared to have exposed a Tbs horizon. One reverse circulation hole is proposed to test the silicification/Tbs unit intersection under the geochem anomaly.

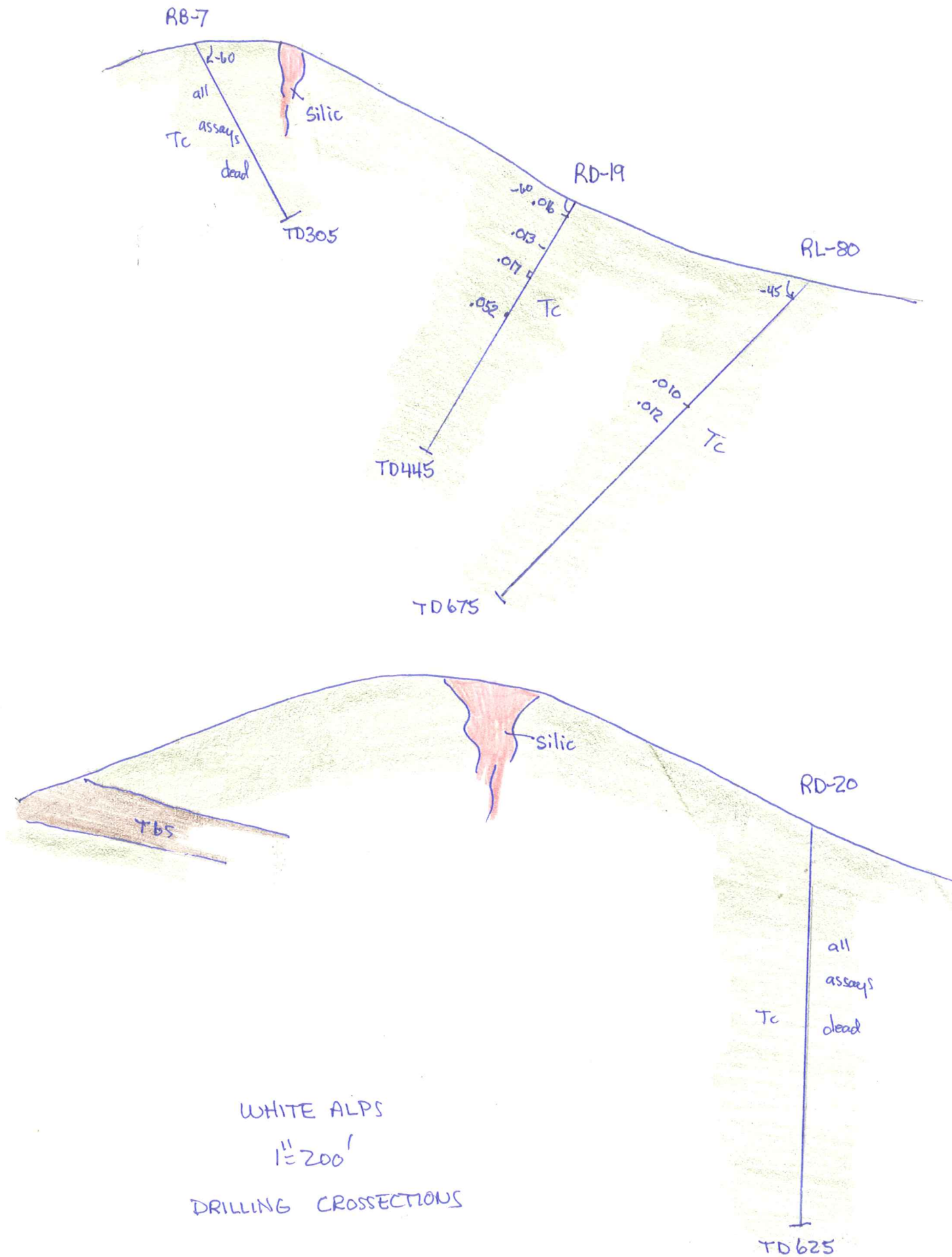
b. east of holes RL-79 and RL-80, a low level Au+As soil anomaly is present that overlies a prominent IP high and corresponding resistivity high. One reverse circulation hole is proposed to test this multiple anomaly even though the surface geochem could possibly be due to soil creep down from the White Alps.



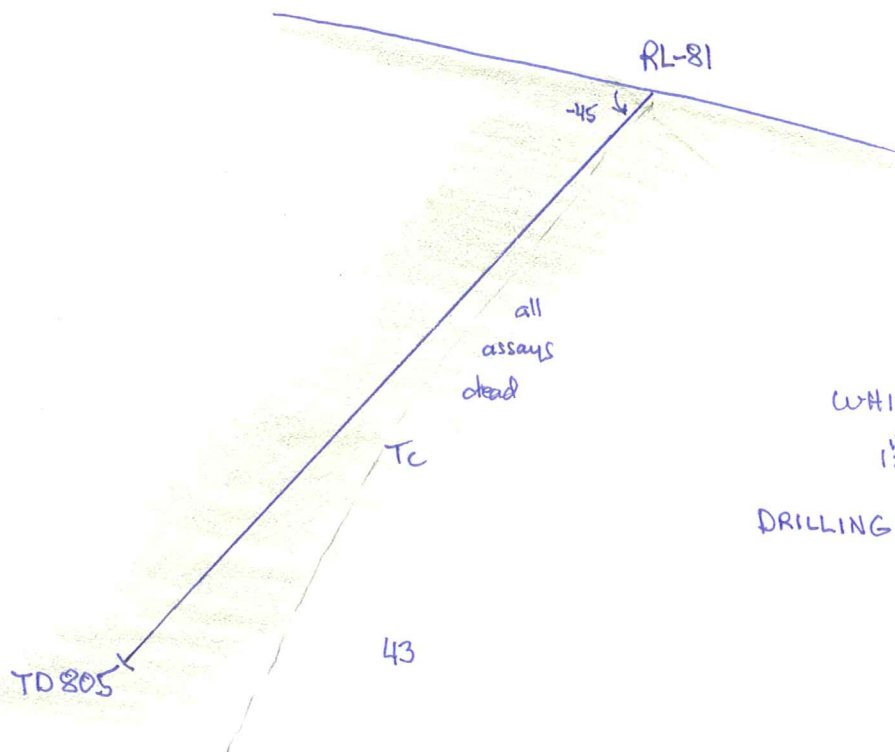
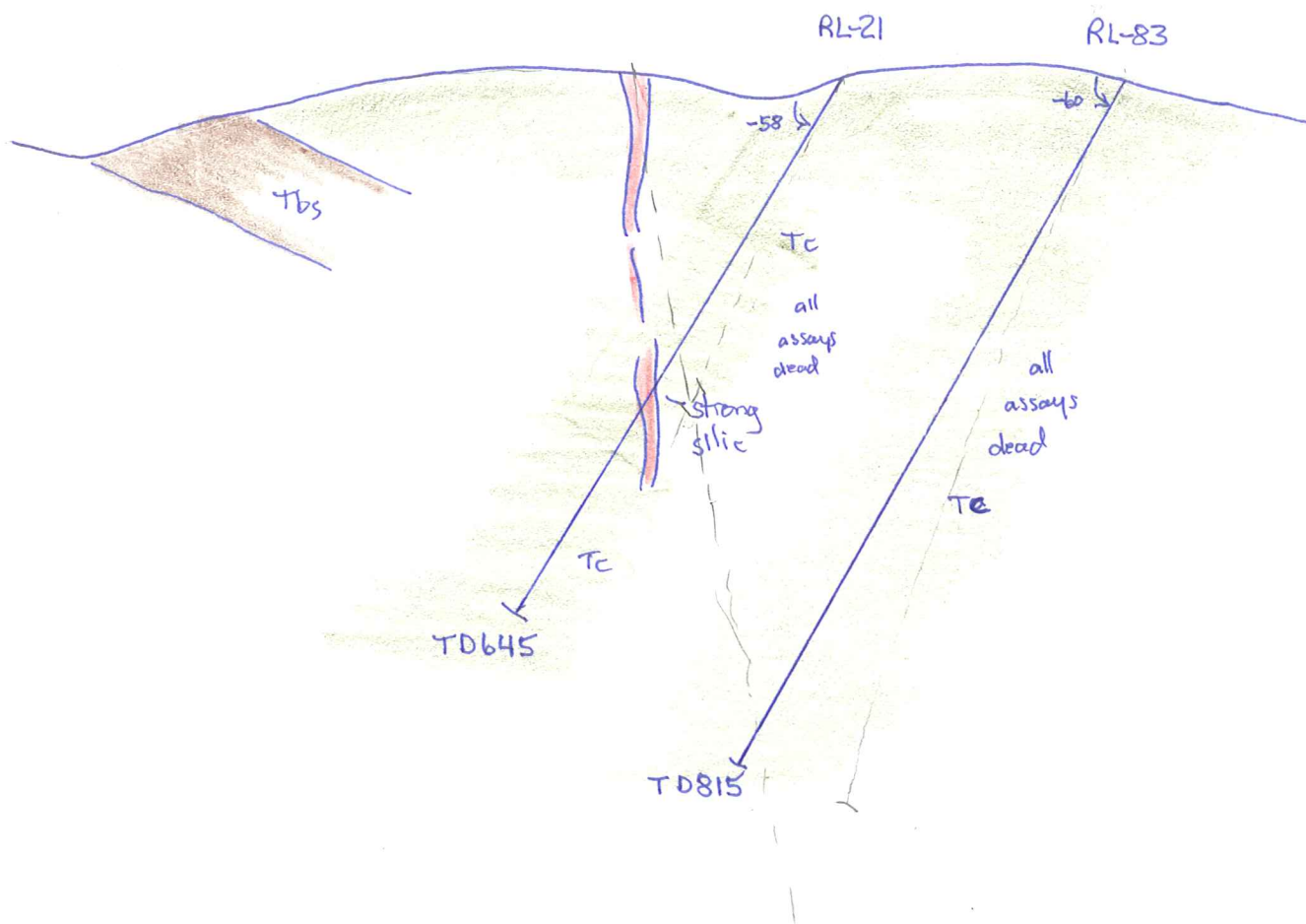












WHITE ALPS  
1" = 200'  
DRILLING CROSSSECTIONS

## 9. Chance

This area is located along the western margin of the Rosebud Property approximately 2,500 feet south of Wildrose Canyon. A large east-west trending bleached and argillically altered area in the Tbf unit is exposed over strike distance of 3,500 feet and a width of roughly 1,000 feet. Within the zone of alteration is a 20-30 foot wide silicified fault(?) that dips 35-45 degrees south and that can be traced in outcrop and float discontinuously +2,000 feet. Surface rock chip sampling reveals 0.01-0.02 opt Au within the silicification and local +100 ppb Au values in the immediate hangingwall. Soil sampling reveals erratic values for gold in roughly the same areas (As, Sb and Se values for the soil sample points not found). The IP/resistivity survey does not extend this far north into the target area.

Past drilling has been extensive with 9 reverse circulation holes completed by Lac in 1990 and an additional 5 reverse circulation holes also completed by Lac in 1991. The first hole, RL-113 was the best with 305 feet @ 0.029 opt Au intersected from 395-700 feet. Follow-up offsets were successful only in RL-153 with 100 feet @ 0.036 opt Au from 410-510 feet. Present interpretations are that the wide drill intersection obtained in RL-113 was due to the hole being drilled nearly parallel to the south dipping silicified fault(?) zone. The true thickness of the mineralized interval as measured on the crosssections is closer to 40-60 feet.

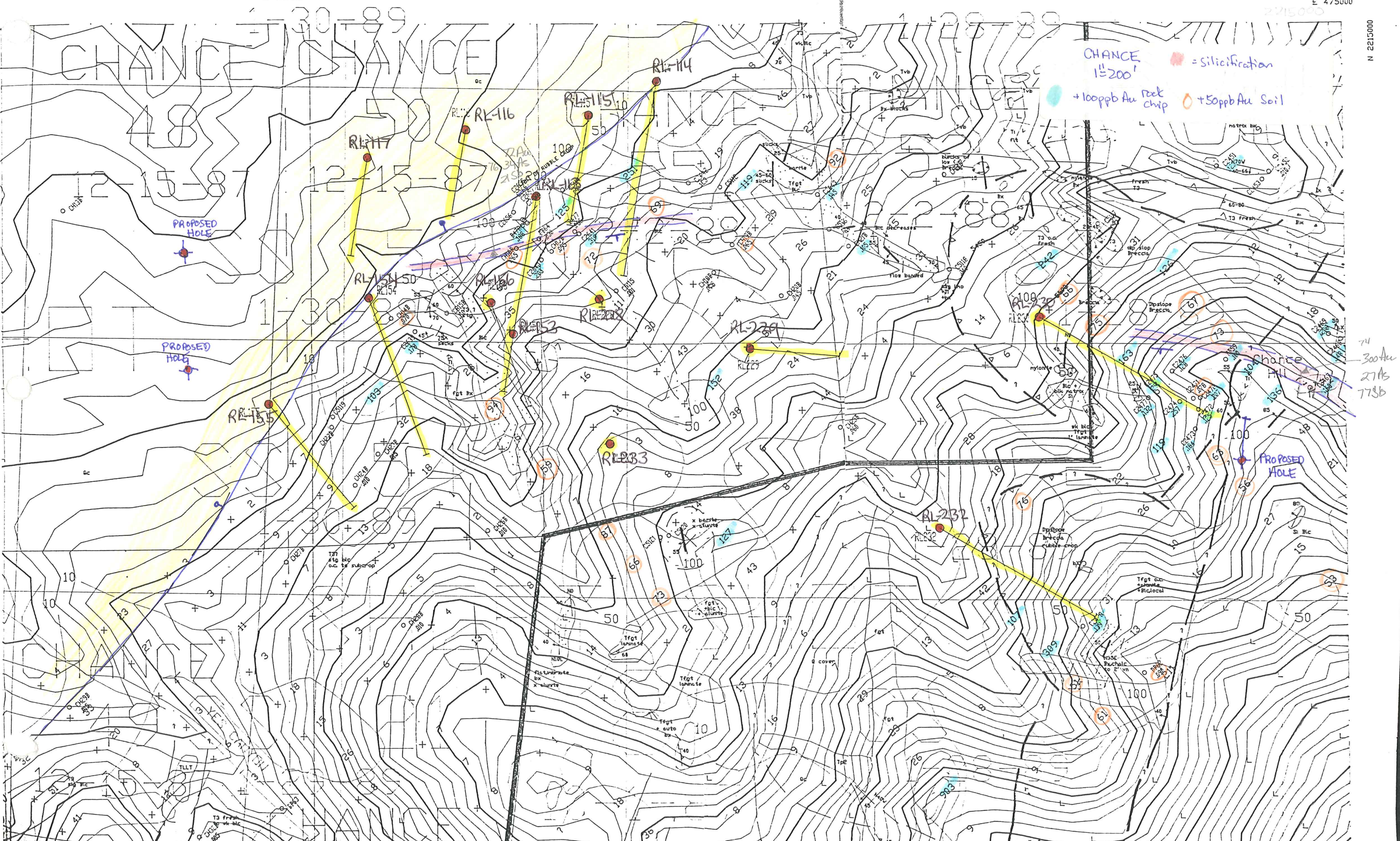
The silicified fault(?) zone has not been tested over its entire strike length reliably due to the previous holes' incorrect inclination, but the results of holes RL-113 and RL-153 do imply that only subeconomic grades are present at that above a depth of 500 feet. Therefore better areas need to be found either along strike or at greater depths.

East of the main drill pattern, the silicification continues across a small ridge that Lac named Chance Hill. Lac and my rock chip samples increase slightly in gold values (up to 300 ppb) and gold appears to persist further into the hangingwall. One reverse circulation hole is therefore proposed to test the area.

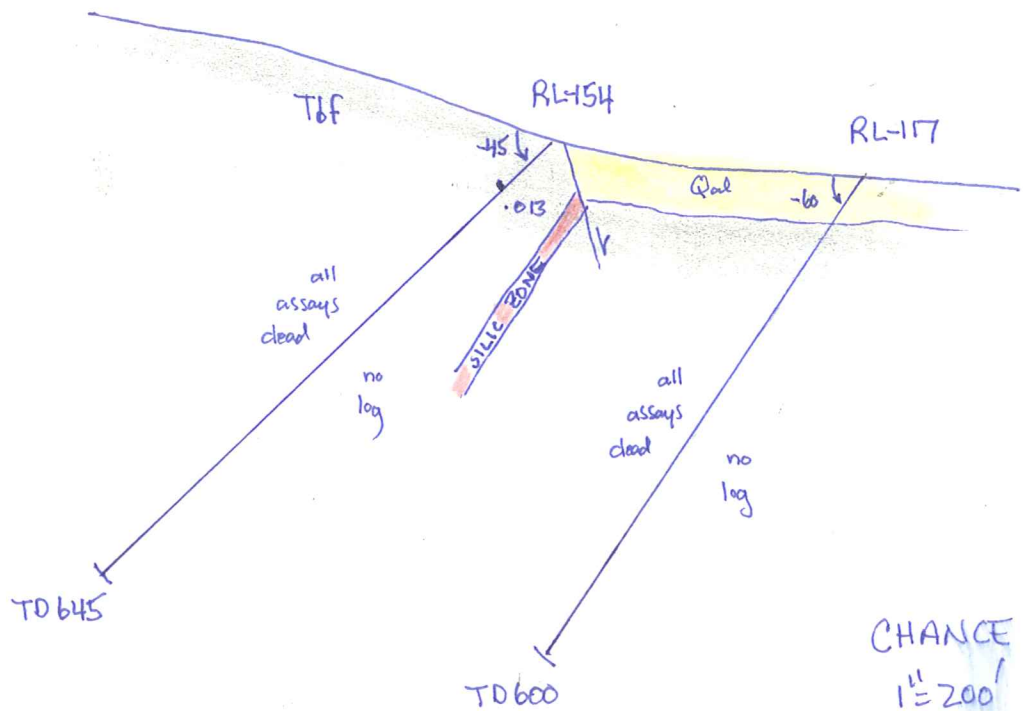
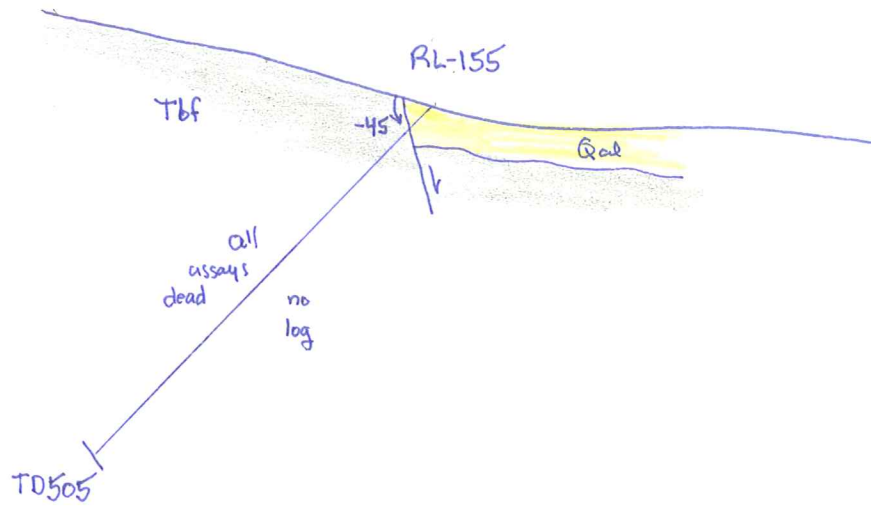
West of the main drill pattern, the zone of silicification is offset into the valley by a range bounding fault that I presently assume to be normal with no lateral displacement. Two reverse circulation holes are proposed to test the higher level projection of the silicification where it possibly forms a wide stockwork of suitable widths for open-pit consideration.

The remaining drill option is to test the down dip projection of the silicified zone below a depth of 500 feet. I believe this option to be valid but of a lower priority and therefore not recommended at this time.



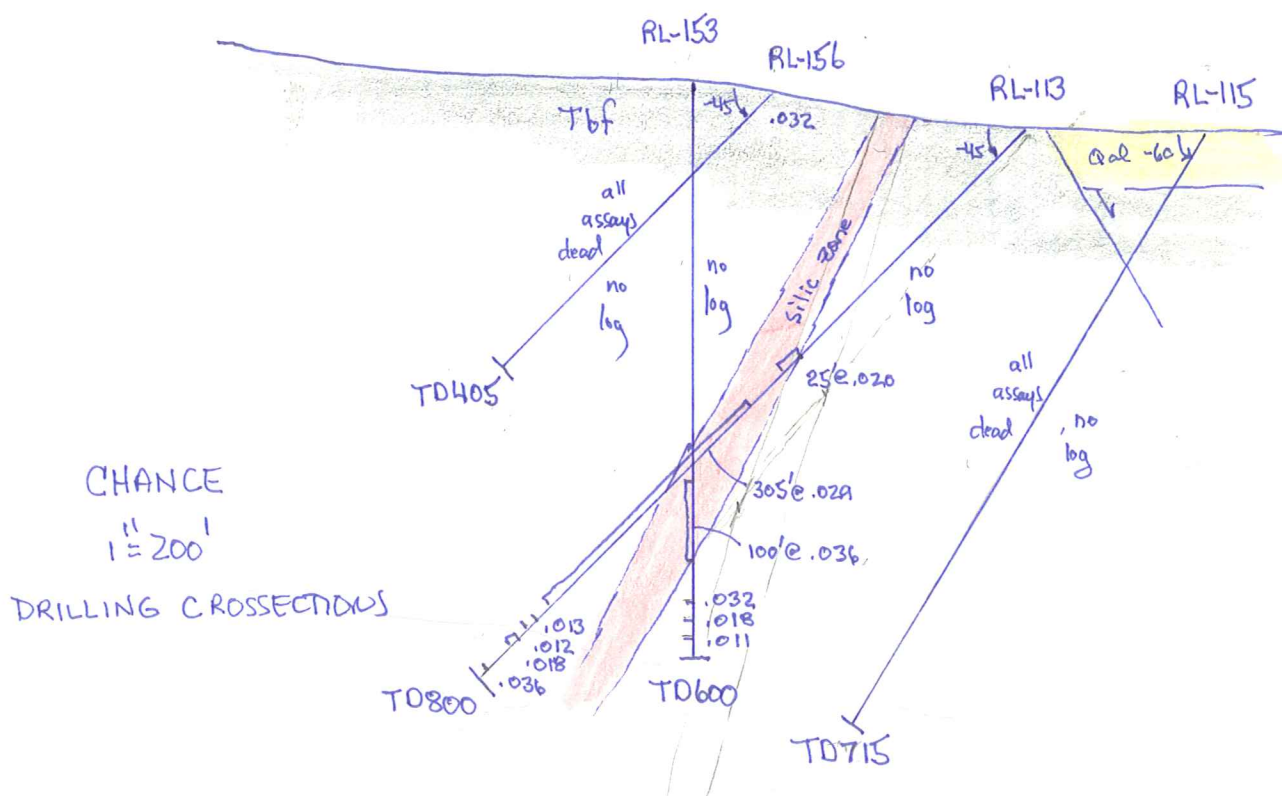
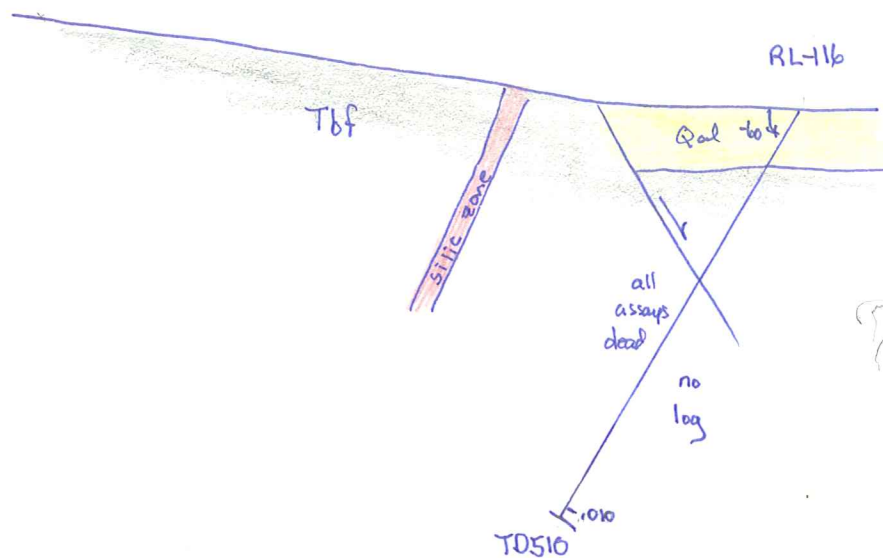


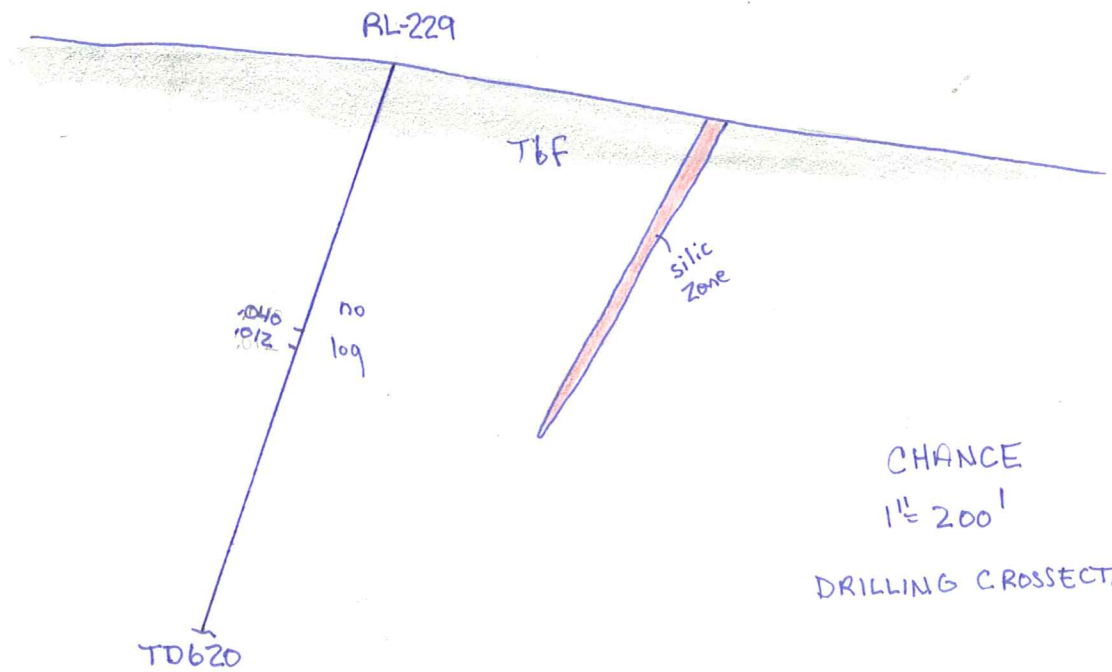
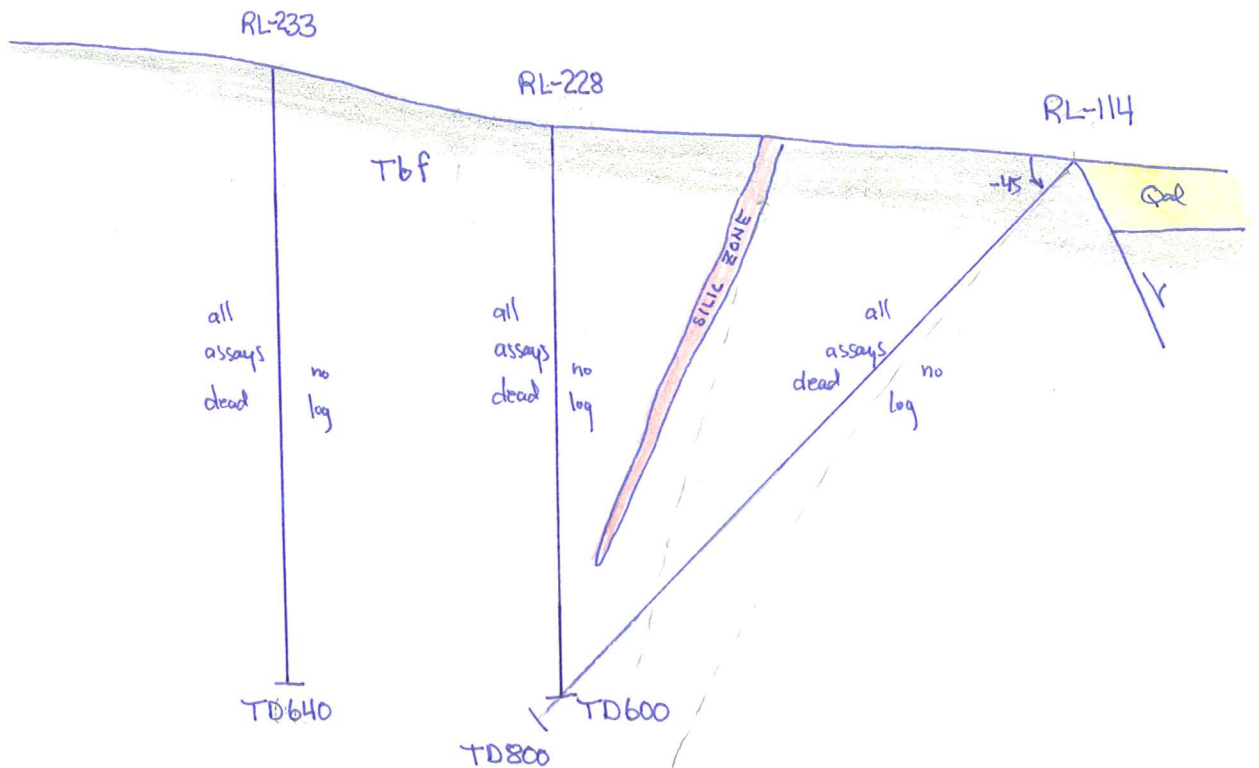




CHANCE  
1" = 200'  
DRILLING CROSSSECTIONS

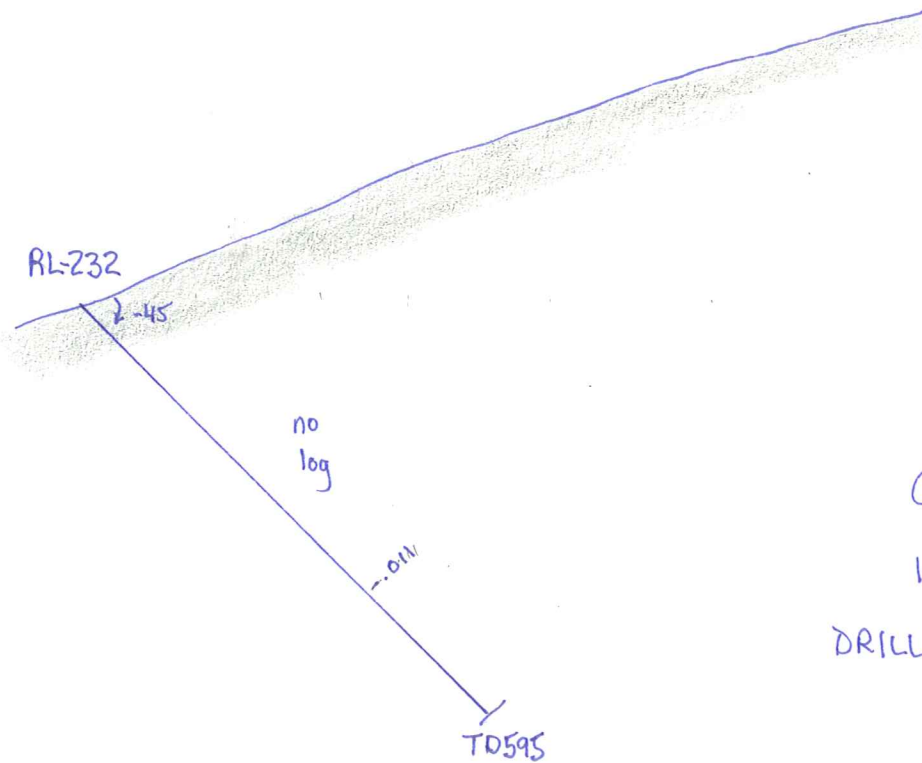
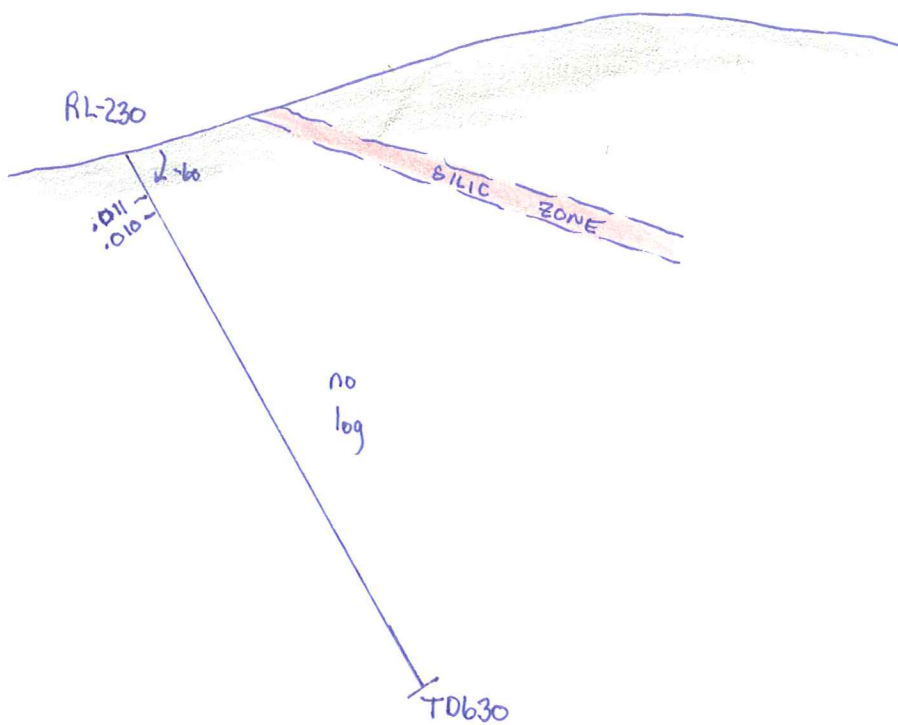






CHANCE  
 1" = 200'  
 DRILLING CROSSSECTIONS





CHANCE  
 $1'' = 200'$   
 DRILLING CROSSSECTIONS

## 10. East Dreamland

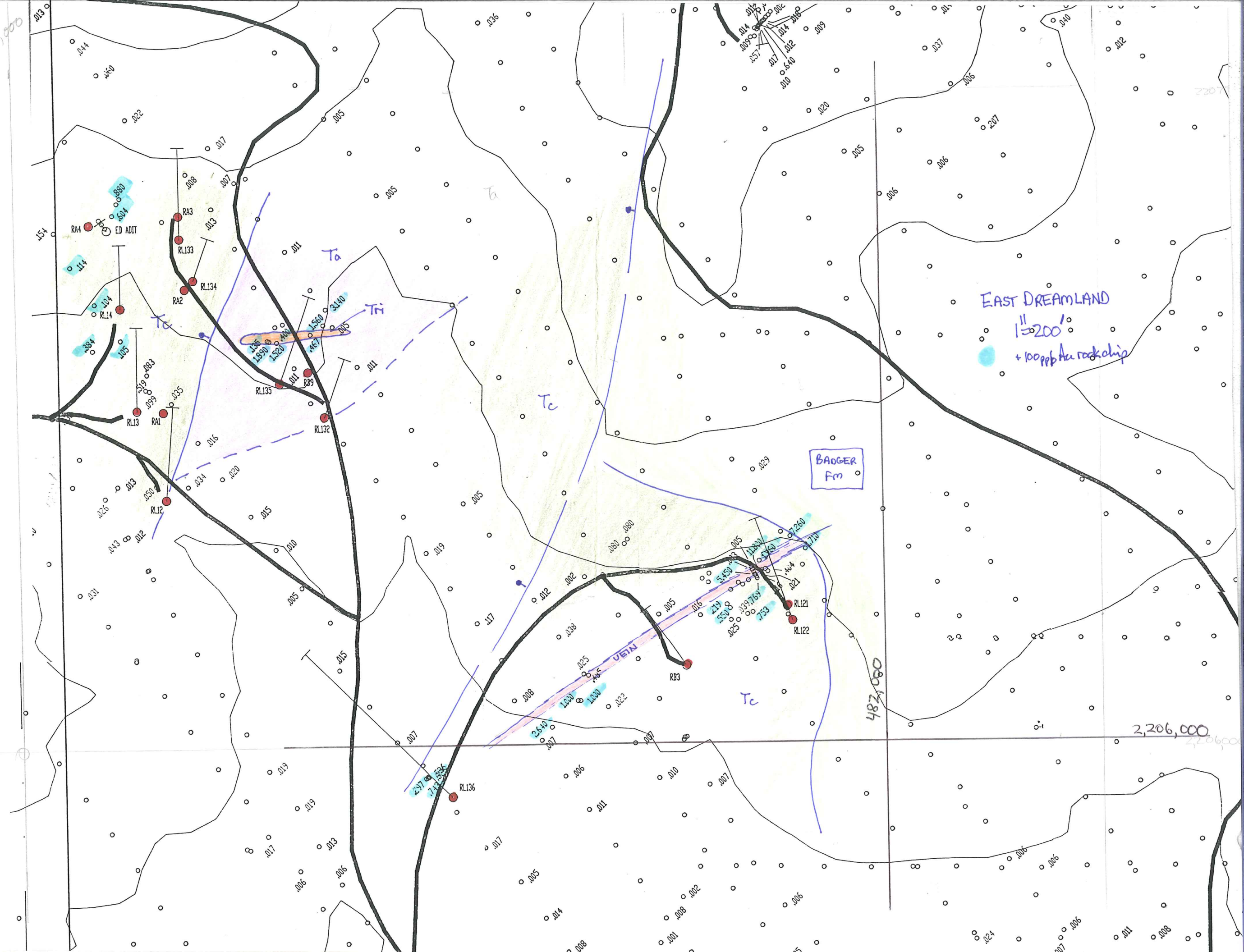
This area is located contiguous to the Dreamland area on the east. Soil sample results and IP/resistivity results were all essentially flat throughout the area. Interest in East Dreamland was focused on two features - Asarco drilling in the late 1970's is reported to have intersected 25 ft @ 0.099 opt Au in hole RB-9 (Hecla does not have copies of the log) and past mining was conducted 1,000 feet to the southeast along a 1-3 foot wide vein. All of the completed drilling (a total of 15 known holes) was directed at an evaluation of these two areas.

Asarco hole RB-9 was drilled near a small, steeply dipping, east-west trending rhyolite dike and the intersected gold appears to be at the intrusive/volcanic contact which at this location is the Ta unit. Offset drilling both to the west (RL-135) and to the east (RL-132) was essentially dead. Drilling elsewhere in the general area returned similar negative results.

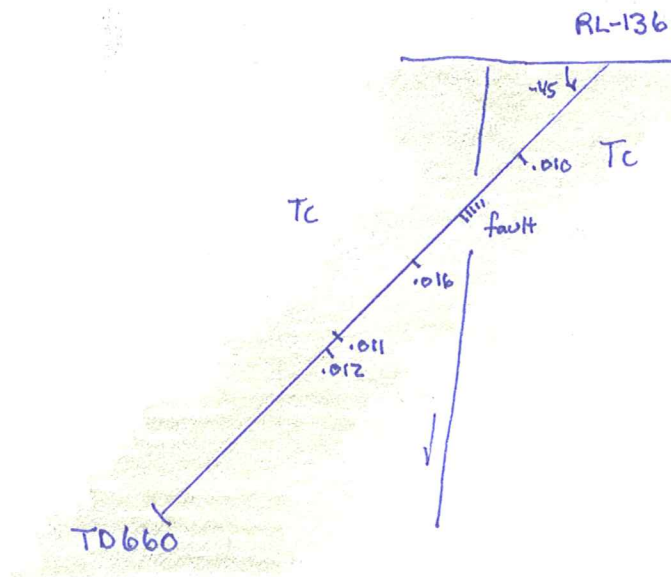
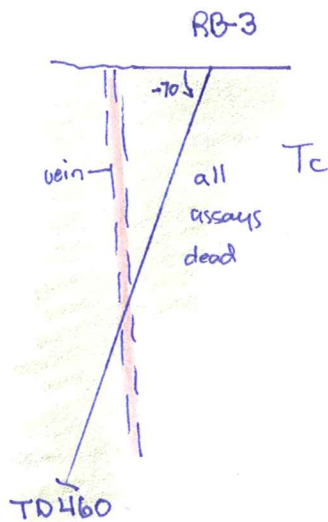
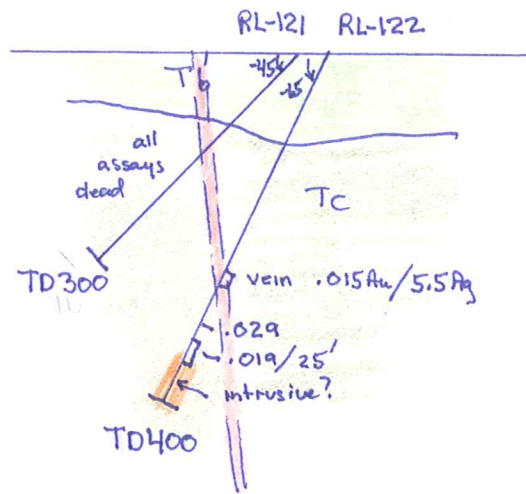
Four drill holes were also completed in the vicinity of the vein outcrop. The best (and essentially only) intersection returned 15 ft @ 0.015 opt Au/5.5 opt Ag in RL-122. The other three holes recorded no mineralization and/or quartz veining at the projected vein intersection. In the bottom of RL-122, the log stated an intrusive was penetrated and that 25 ft @ 0.019 opt Au was assayed at the intrusive/volcanic contact. This might be of some future interest but for now, the area looks fully tested and no exploration interest is recommended.



480,000

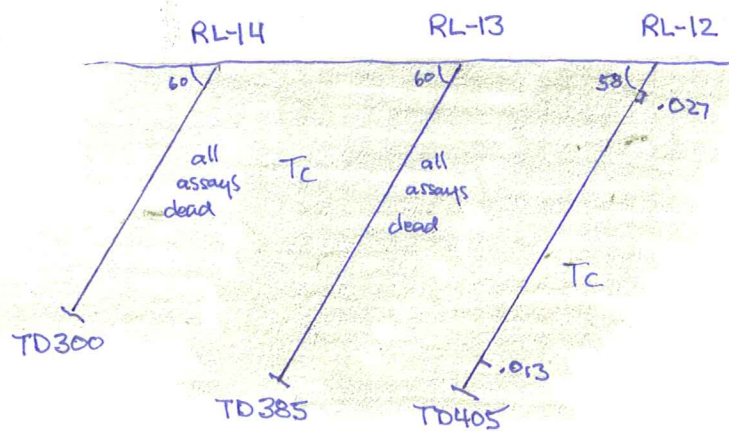
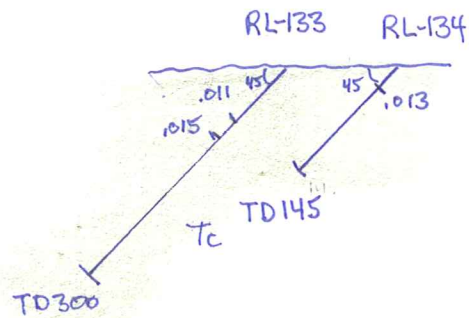
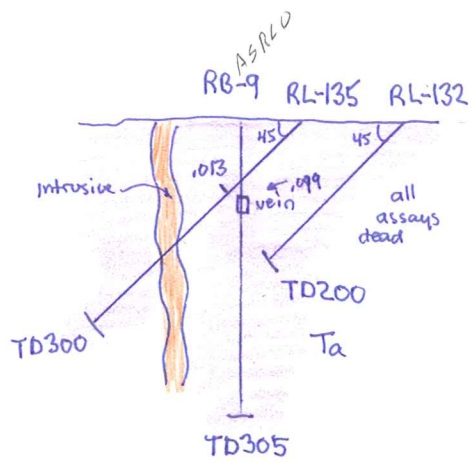


2,206,000



EAST DREAMLAND  
 1"=200'  
 DRILLING CROSSSECTIONS





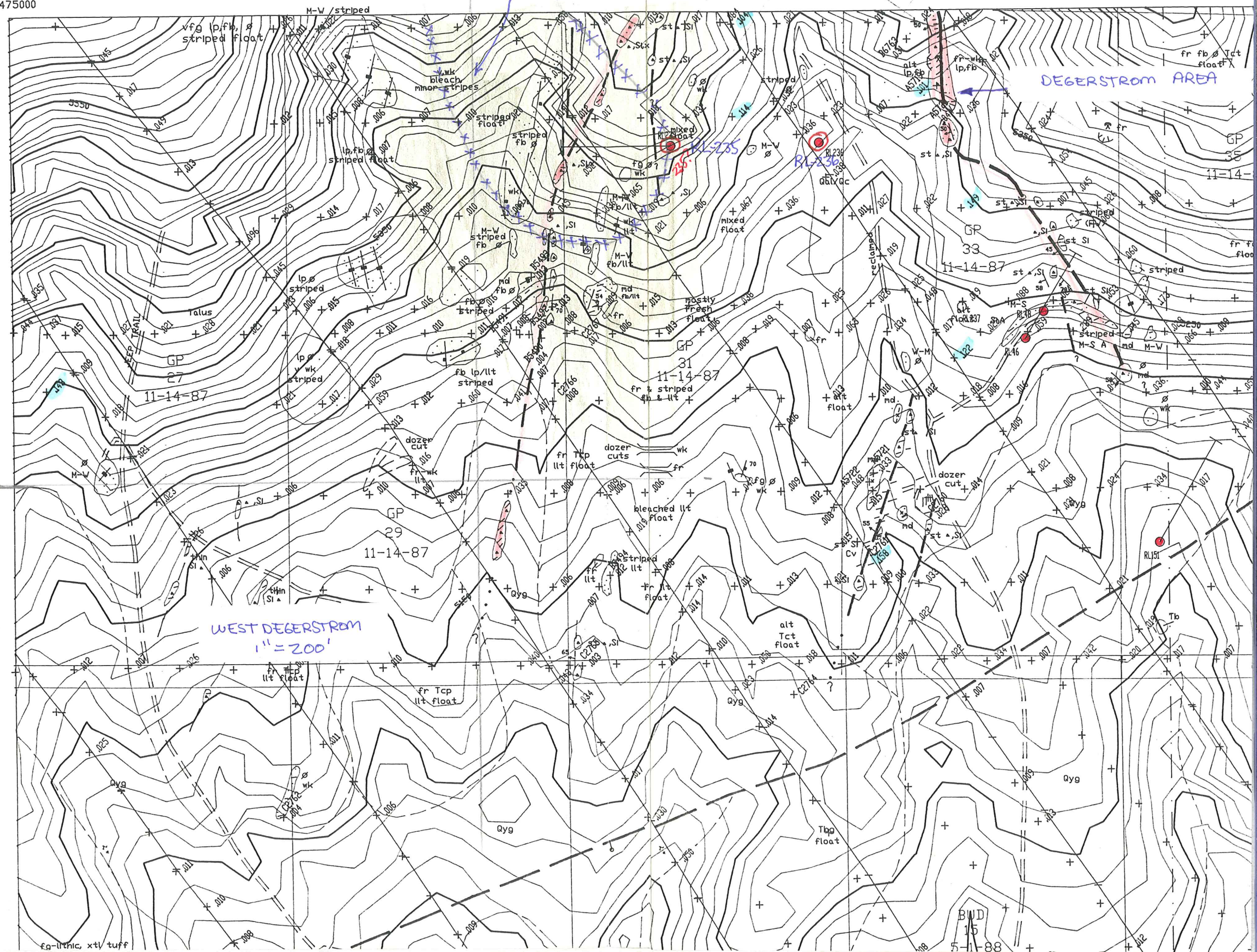
EAST DREAMLAND  
 $1'' = 200'$   
 DRILLING CROSS SECTION

## 11. West Degerstrom

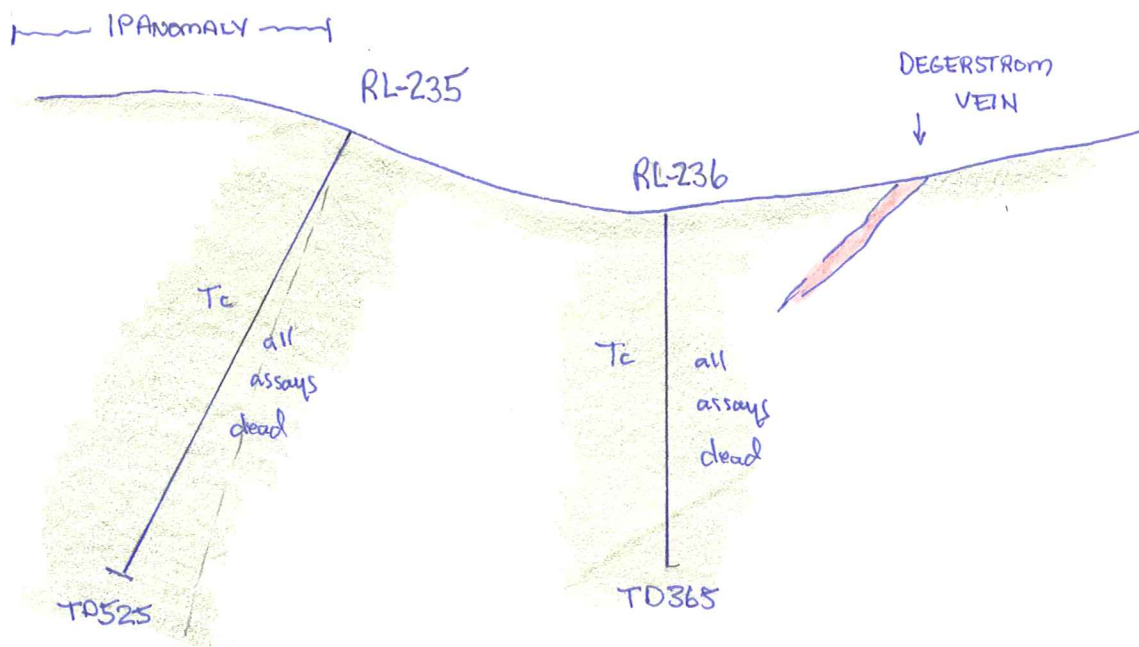
This area is contiguous to the west from the Degerstrom target area. Surface rock chip and soil geochemistry is all essentially dead as is the resistivity response. The IP survey outlined a focused, north-trending anomaly with no apparent structural control.

In 1992, Lac drilled two holes to test the IP anomaly (RL-235 and RL-236). The holes were well located yet both returned completely dead assays. No further exploration interest now appears to be justified in the area.









WEST DEGERSTROM

1" = 200'

DRILLING CROSSSECTION



## 12. North Dozer Hill

This target includes the broad area immediately north of Dozer Hill including the talus covered valley north of the Rosebud Shear as well as the peripheral areas just south of the Rosebud Shear. Past drilling by Lac (1989-93) and Hecla (1994 - present) has been extensive primarily attempting to extend the higher grade mineralization on the hangingwall of the South Ridge Fault north from the main Rosebud Orebody.

The main focus of is based on speculation that the Tbs1 unit below the Ta flow (called TMB by mine staff) may not have been sufficiently explored up to the footwall of the Rosebud Shear. The area north of the Rosebud Shear is covered by surface talus and soil as well as post-mineral Badger yet due to its close proximity to Dozer Hill its exploration potential appeared intriguing. This review therefore required a re-logging of 33 of the previously completed drill holes attempting to develop a revised geologic interpretation for the area.

The re-logging effort successfully identified the Tbs1, Ta and overlying Tbs2 units in the mine area although local generalizations were required for ease of visual interpretations. Based on the crossections, the following observations appear correct:

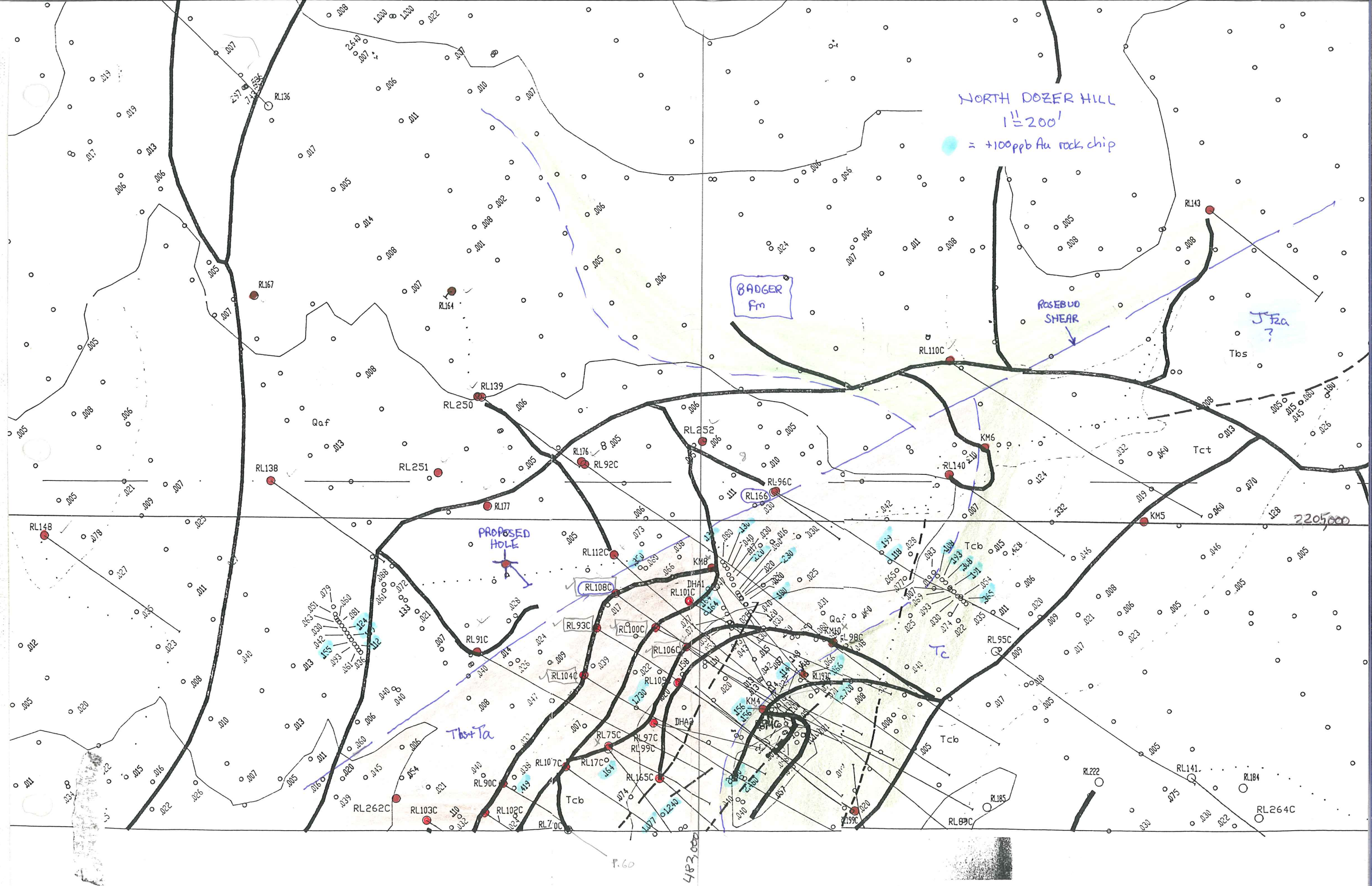
- 1) the higher grade mineralization is hosted in the Tbs1 unit at or just above the South Ridge Fault. Mineralization within the Ta and overlying Tbs2 units is consistently low grade or absent implying a telescoping of gold+silver into the first available favorable host (either the fault zone or the Tbs1 unit).

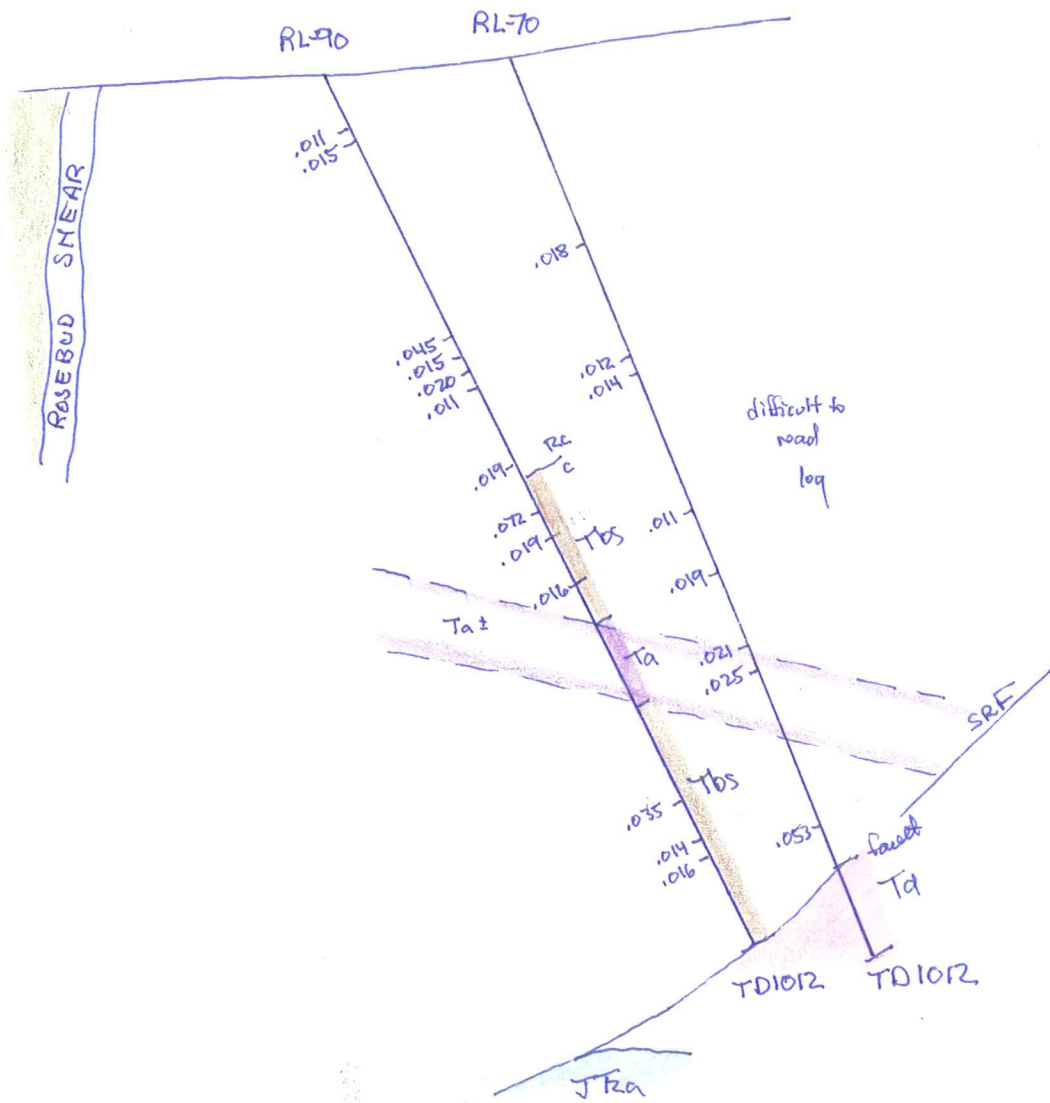
- 2) high grade mineralization was intersected in holes RL-104, RL-93, RL-108, RL-100 and RL-106. Drill offsets to the east are extensive and the east boundary of the higher grade zone is well established. Drill offsets to the west essentially include only hole RL-91 and the west boundary appears poorly established.

- 3) drilling north of the Rosebud Shear found narrow 0.01-0.03 opt Au fracture controlled mineralization in the Tc unit. Holes RL-139, RL-176 and RL-92 did intersect one continuous vein(?) of a narrow 5-10 feet width that averaged 0.086 opt Au but additional drilling to establish its total extent does not appear warranted due to its sub-economic grade. A future target may be to prospect the vein's down dip projection for higher grade values.

In summary the west boundary of the higher grade mineralization needs additional drilling. Only one core hole is recommended now but additional drilling would be justified to explore the entire area between the Rosebud Shear and the Dozer Hill drill hole cluster - an area 500 feet x 1,000 feet in extent. I believe that this is an excellent location to expand the orebody reserves. As previously stated for the Dreamland Target, if budget limitations regarding this drill proposal become a consideration, this area should be drilled on a priority basis.

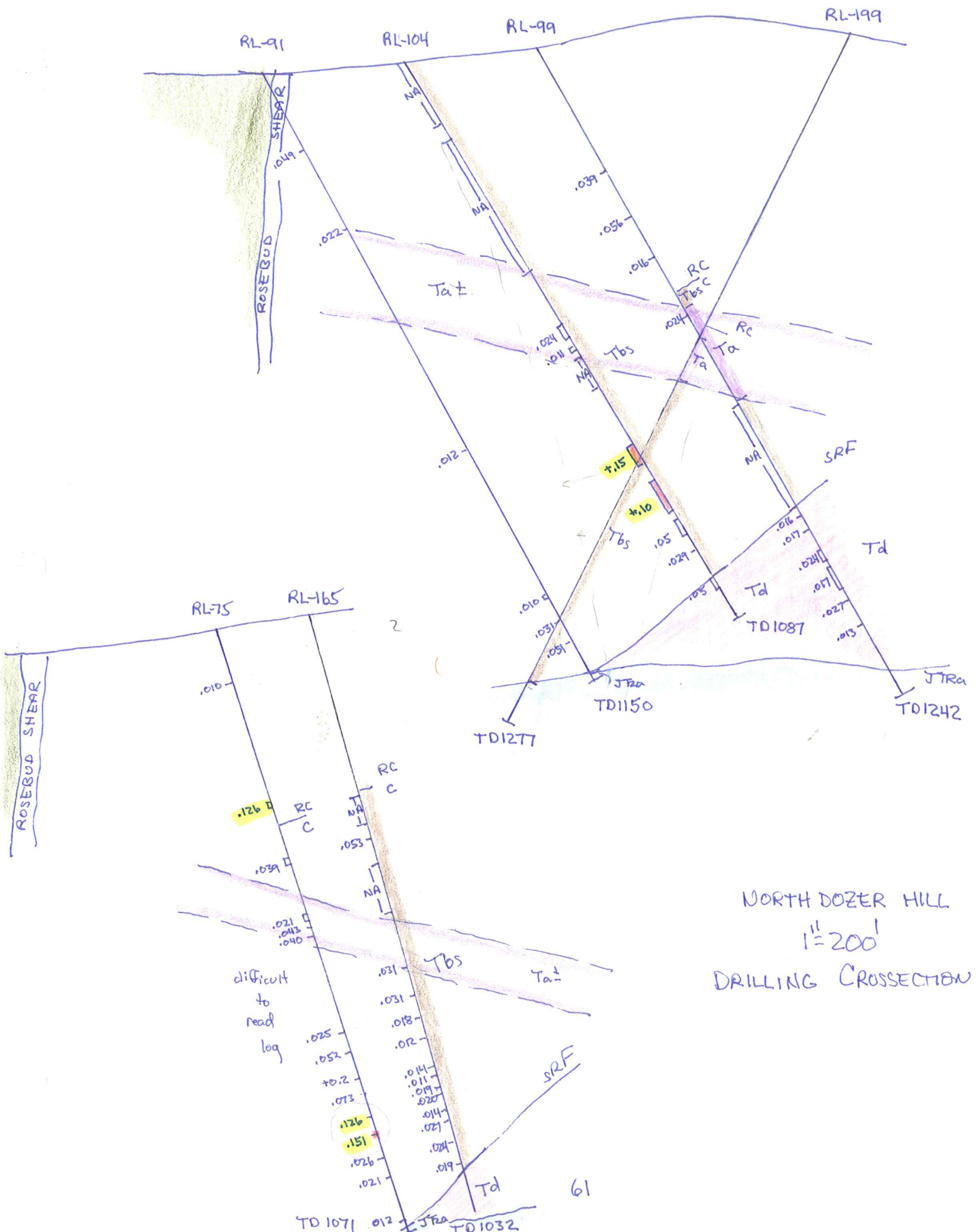




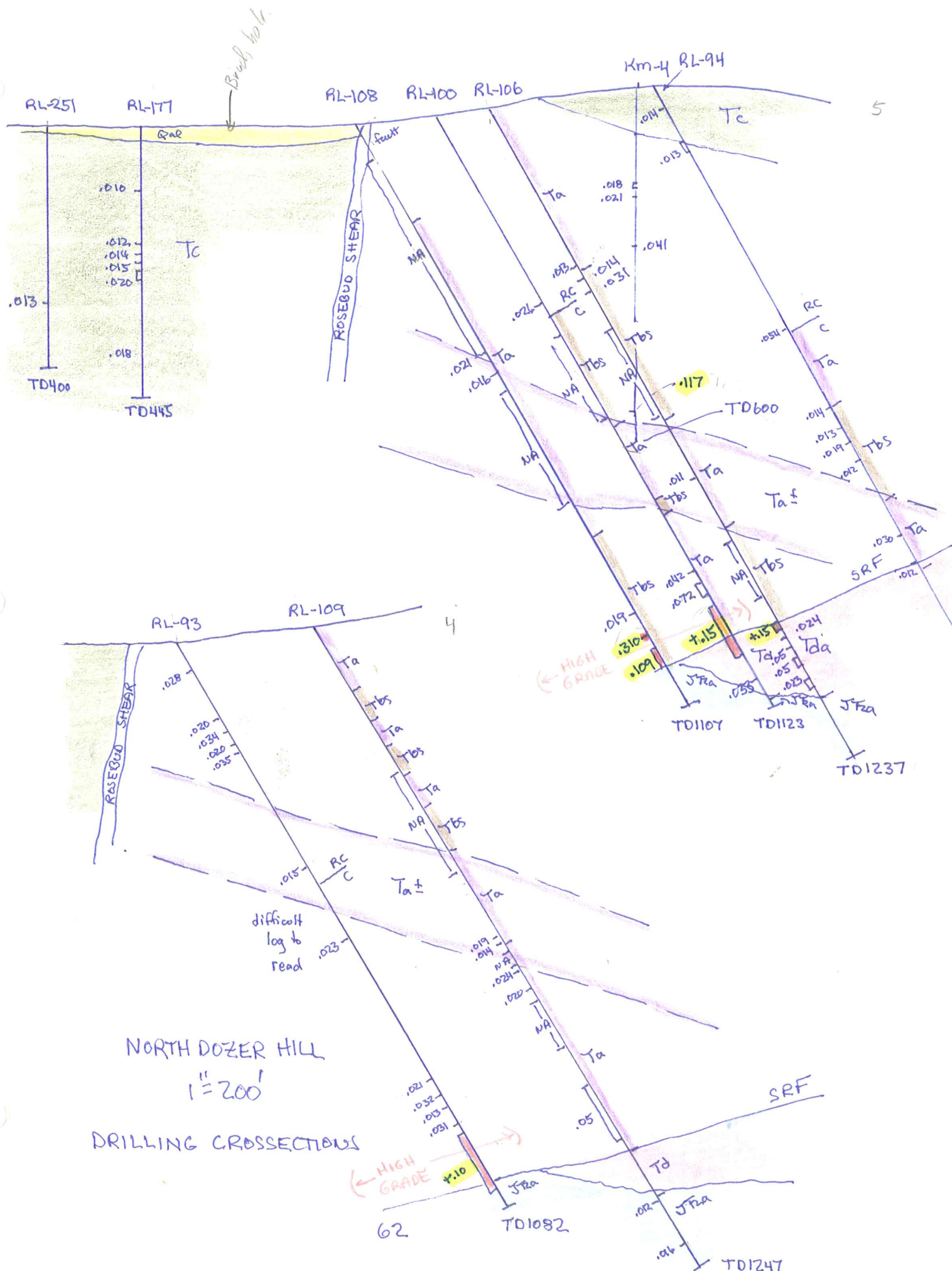


NORTH DOZER HILL  
 1"=200'  
 DRILLING CROSSSECTION

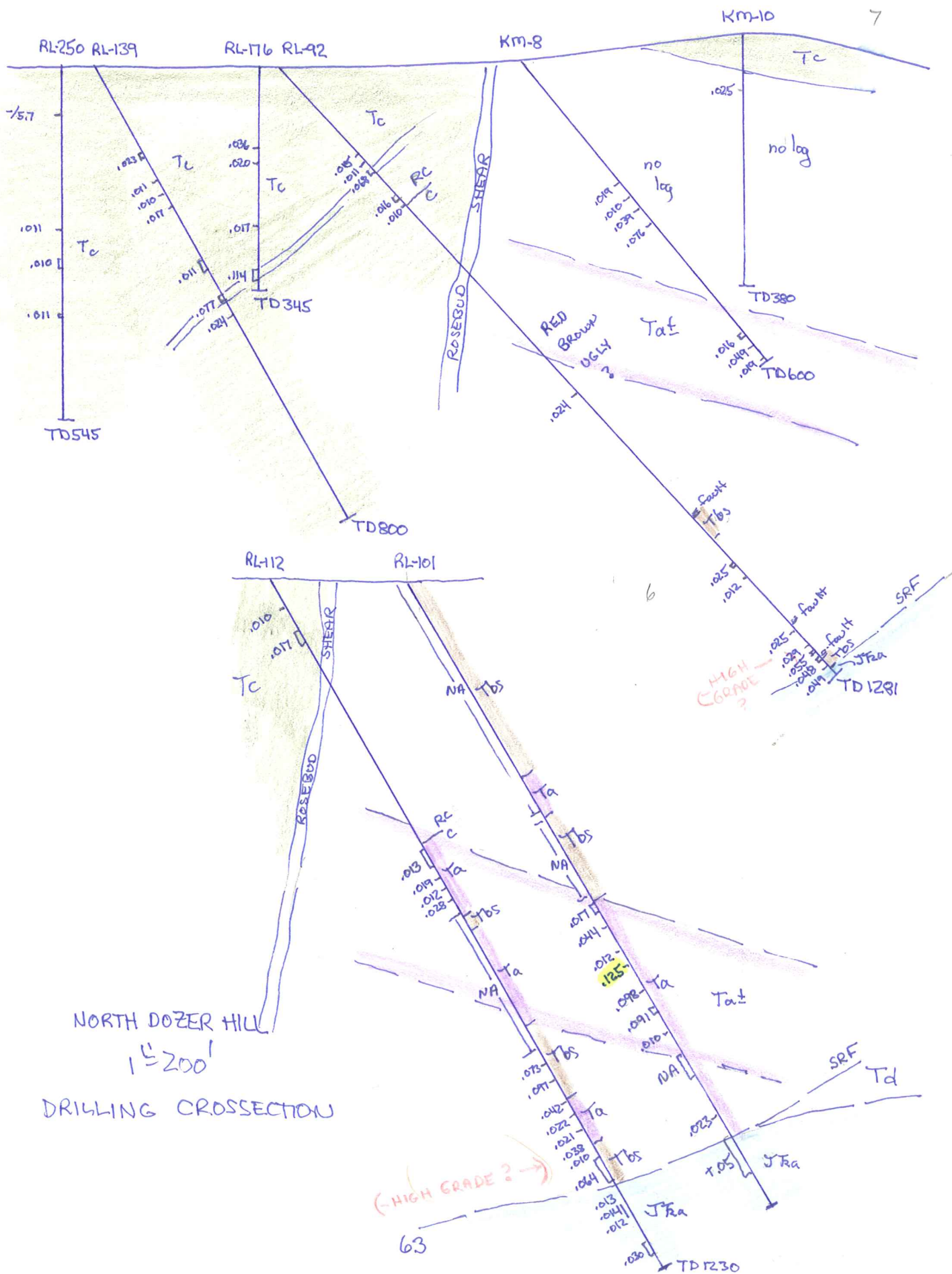




NORTH DOZER HILL  
1"=200'  
DRILLING CROSSSECTION

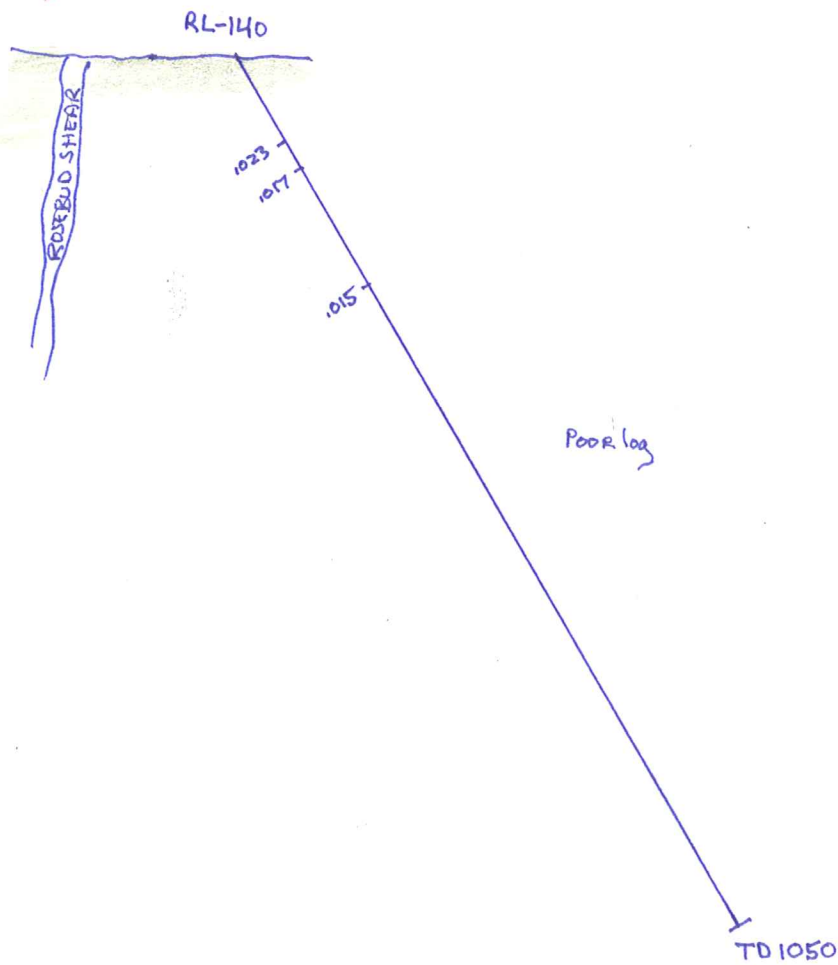
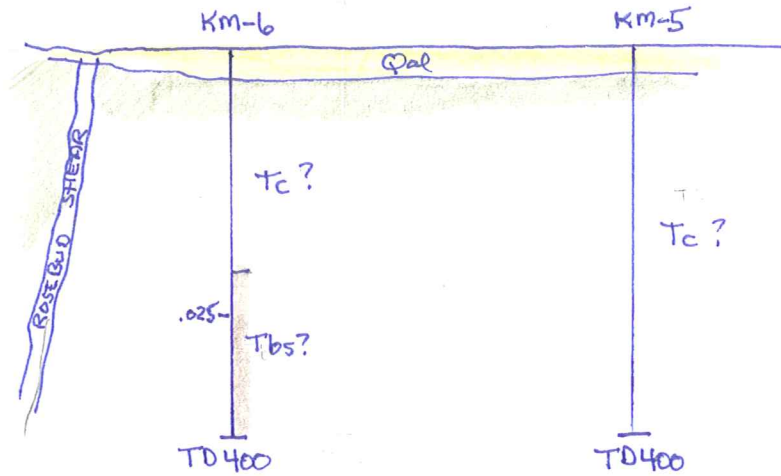






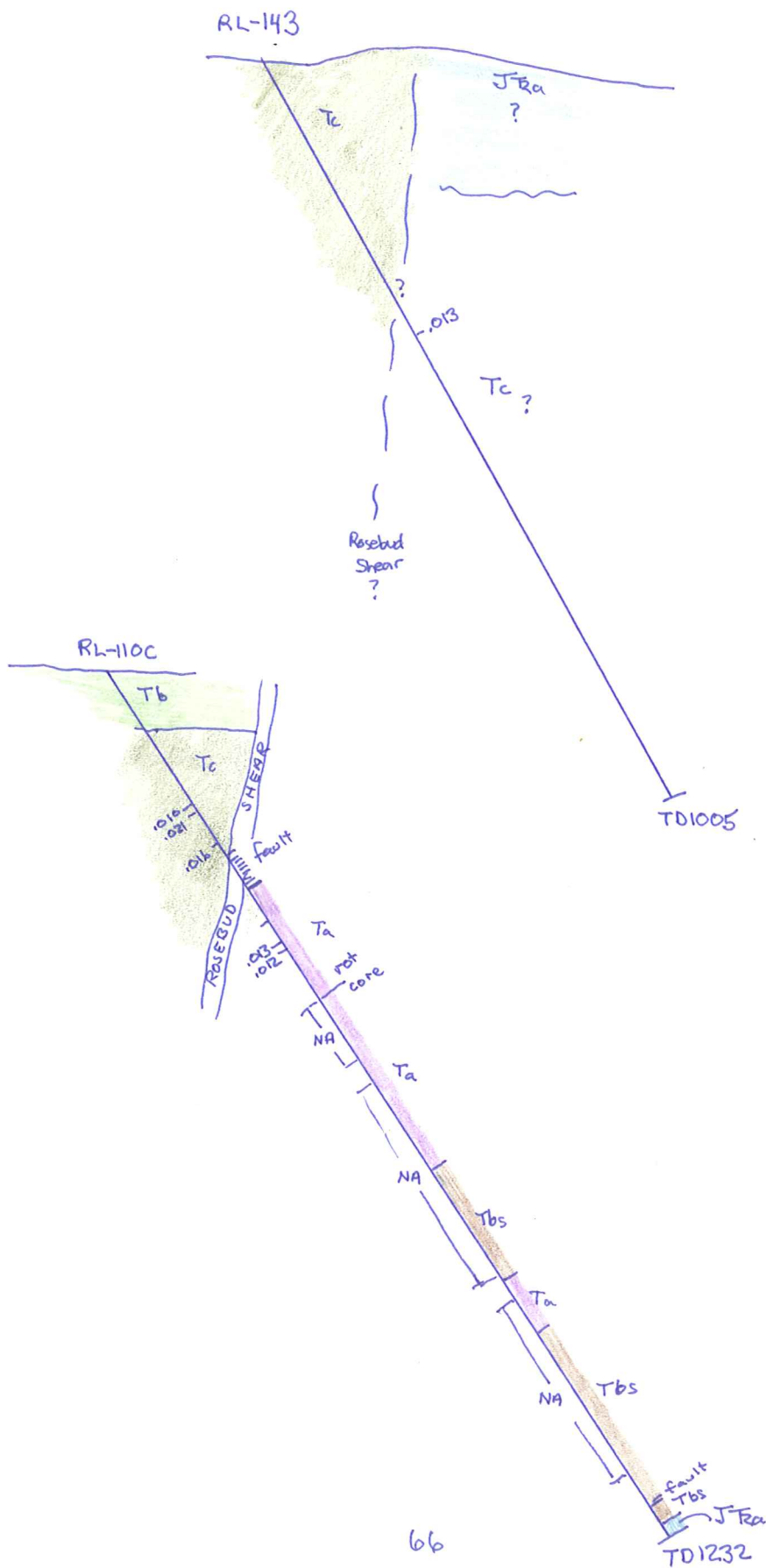






NORTH DOZER HILL  
 1" = 200'  
 DRILLING CROSSSECTIONS

ASSN 110?



NORTH DOZER HILL  
1" = 200'  
DRILLING CROSSECTIONS

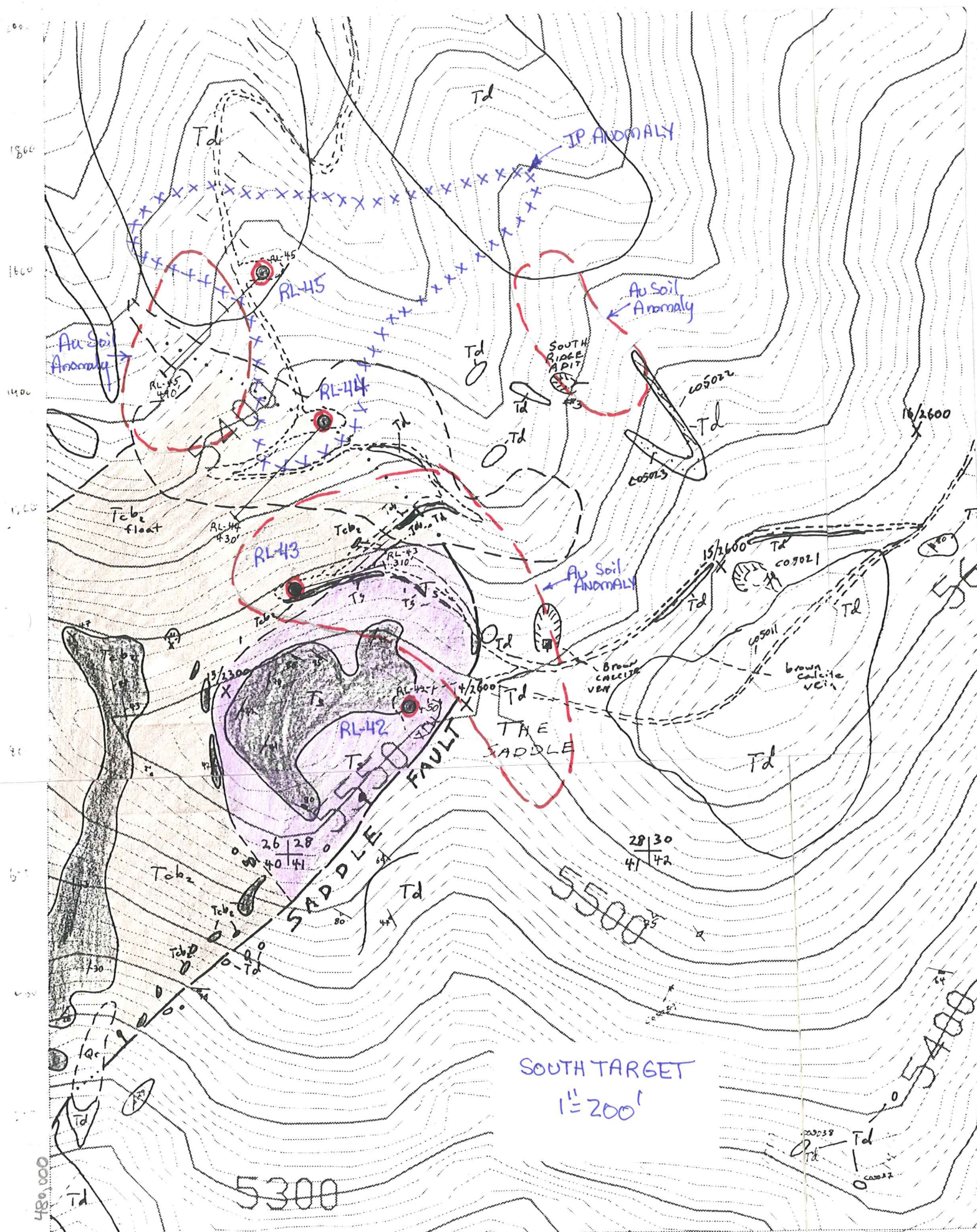


### 13. Target IV

This area is located on the topographic ridge just south of the Rosebud Mine. A major north-trending normal fault dipping to the west at 45-50 degrees juxtaposes the mine volcanic sequence (Tbs1+Ta+Tbs2) against Td on the footwall.

Soil geochemistry reveals several strong but relatively small +100 ppb Au anomalies with associated +10 ppm As focused primarily on the west dipping fault. An IP anomaly of moderate intensity is present in the footwall Td unit just north of the ridge top.

Lac drilled 4 reverse circulation holes in 1989 to test the best soil anomalies. The holes were well located yet the only anomalous gold values were intersected in RL-44, 20-80 feet @ 0.01 opt Au within the Ta unit. The underlying Tbs1 unit was found to be dead. I can envision no interesting areas to further test so no additional exploration interest appears warranted at this time.

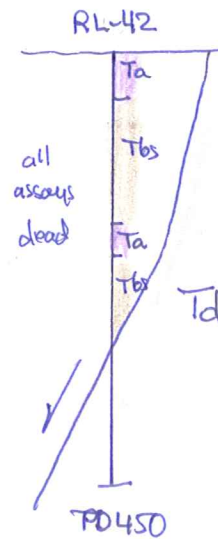
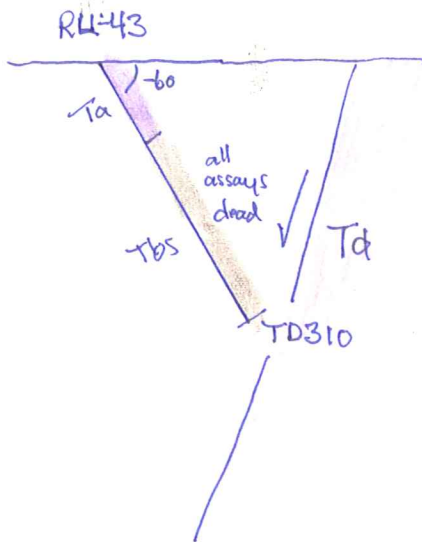
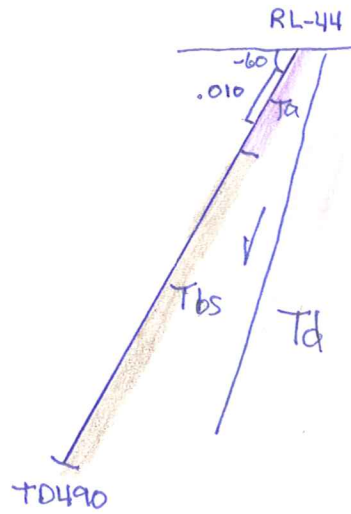
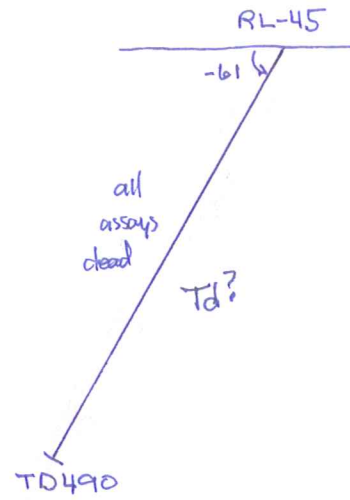


SOUTH TARGET  
1"=200'

2,200,000



SOUTH TARGET  
 $1\frac{1}{2}'' = 200'$   
 DRILLING CROSSECTIONS



#### 14. Oscar

The Oscar area is located in the extreme southwestern portion of the Rosebud Property. Past exploration has been extensive consisting of rock and soil sampling, geophysics and drilling by St. Joe Minerals (1981-82), USMX (1988-90) and Lac (1989-91). All of the claims but 4 presently held by USMX were subsequently dropped by the previous owners but then re-staked by Hecla recently.

Silicified talus overlying argillized and silica leached young lacustrine sediments (Ts) are exposed. A range bounding normal fault limits the system on the east and southeast. Interpretations imply a young hot springs system presently exposed at the paleo-surface. Sinter and passive silicified talus with anomalous Au+Hg is similar to the geologic setting postulated for the Sulphur District 8 miles to the north.

A review of all the past exploration data reveals the following:

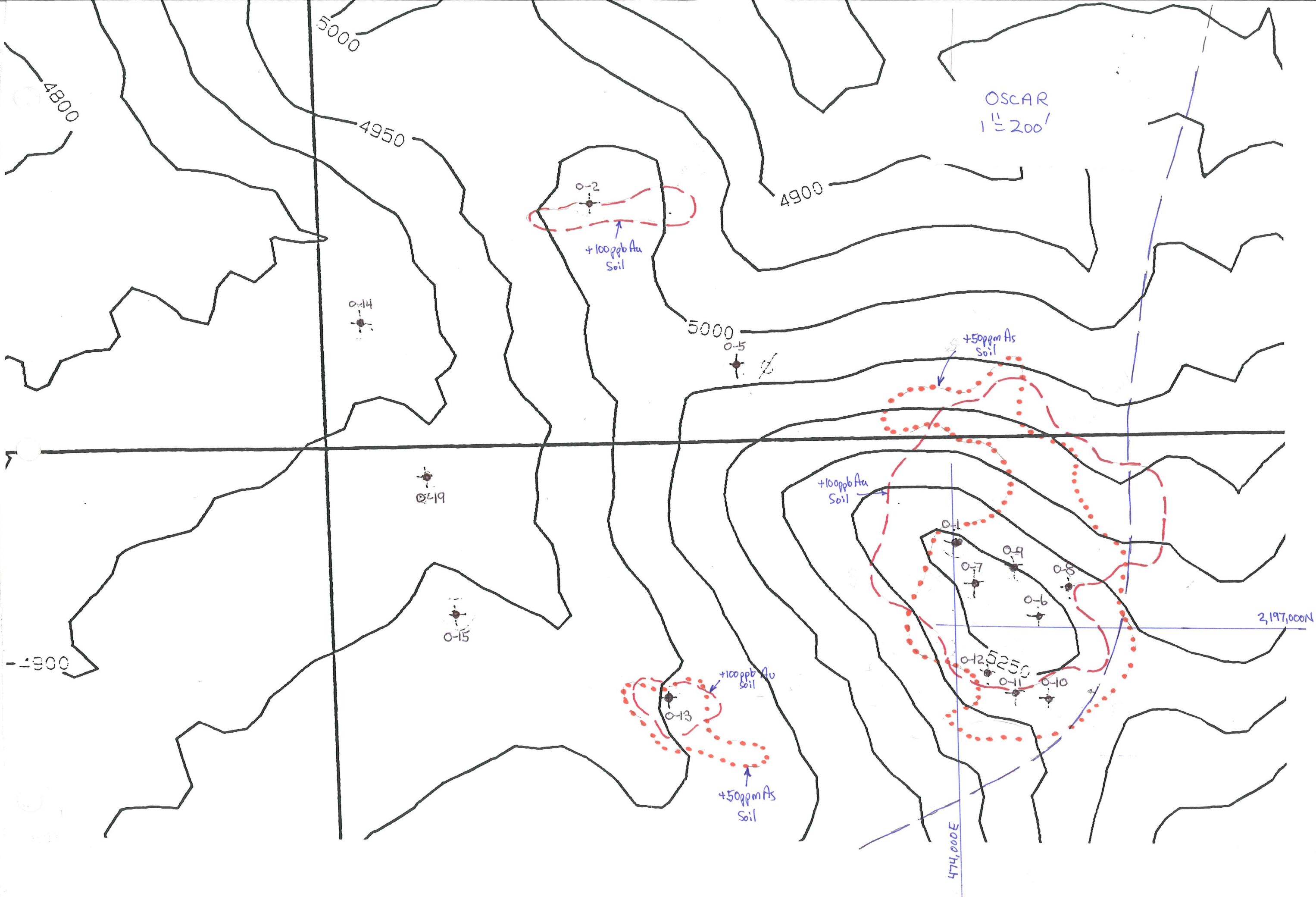
1) a coincident Au+As+Sb soil anomaly approximately 700 feet in diameter is present that drapes over the top of the prominent hill. The soil anomaly is terminated to the east and southeast by the range bounding fault while it appears breached by erosion along its north and west margin.

2) a total of 8 reverse circulation holes have now been completed within the limits of the geochem anomaly and multiple intervals of 20-60 feet @ 0.01-0.02 opt Au have been intersected at shallow depth. A rough geologic estimate for mineralization on Oscar Hill now aggregates approximately 1,000,000 tons @ 0.015 opt Au. (this is my own general estimate and not a formal calculation)

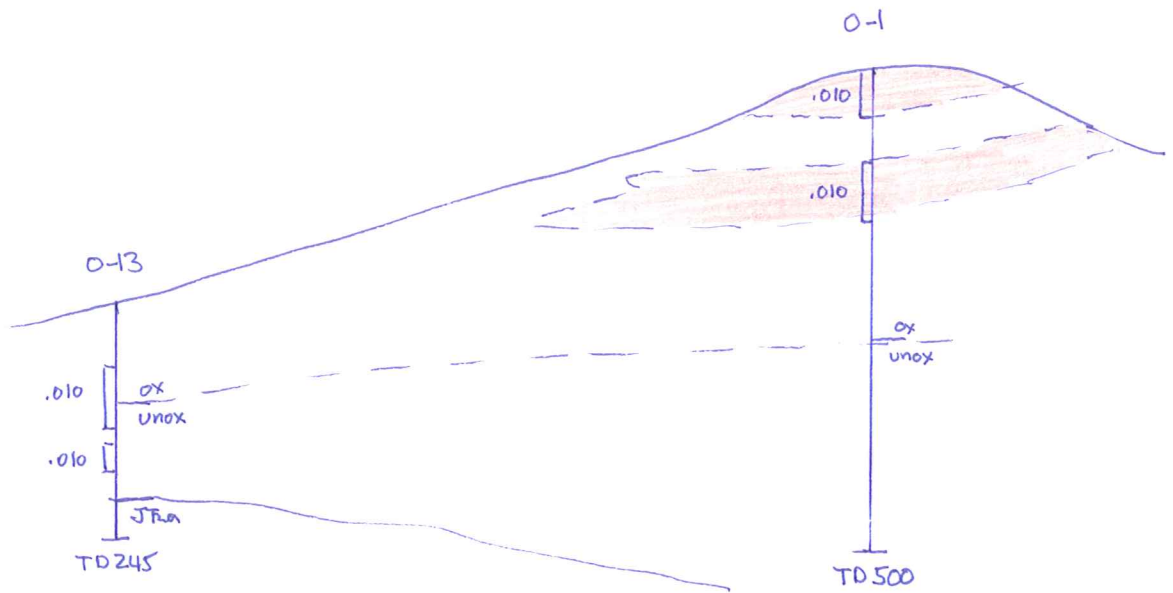
3) isolated areas away from Oscar Hill also returned 0.01 opt Au intervals (example O-13, 65-130 ft @ 0.01 opt Au and 145-175 ft @ 0.01 opt Au; O-15, 405-445 ft @ 0.01 opt Au; O-14, 430-500 ft @ 0.02 opt Au and O-2, 125-150 ft @ 0.01 opt Au and 190-225 ft @ 0.01 opt Au) The tonnage potential for the area may be considerably larger than 1,000,000 tons but no increase in the average grade should be expected.

The only potential that I see is to conduct a general economic analysis of heap leaching the 1,000,000 tons @ 0.015 opt Au at Oscar with the pregnant solutions to be processed at the planned Rosebud Mill. If some encouragement is obtained in the analysis, Hecla should then first obtain the 4 USMX claims royalty free and then conduct a grid drilling program on Oscar Hill. With this report though, no drilling is proposed.

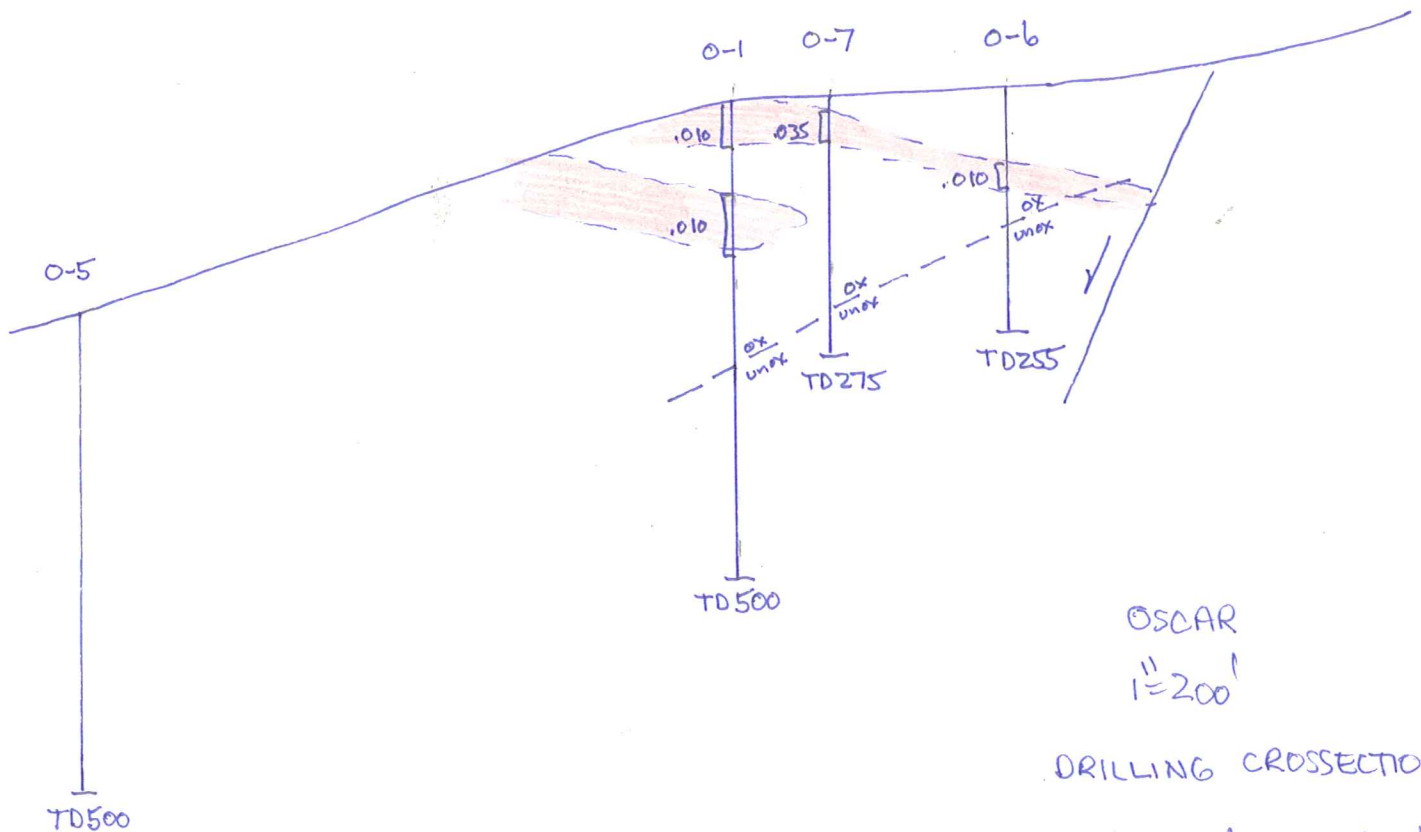




# Oscar Hill



# Oscar Hill

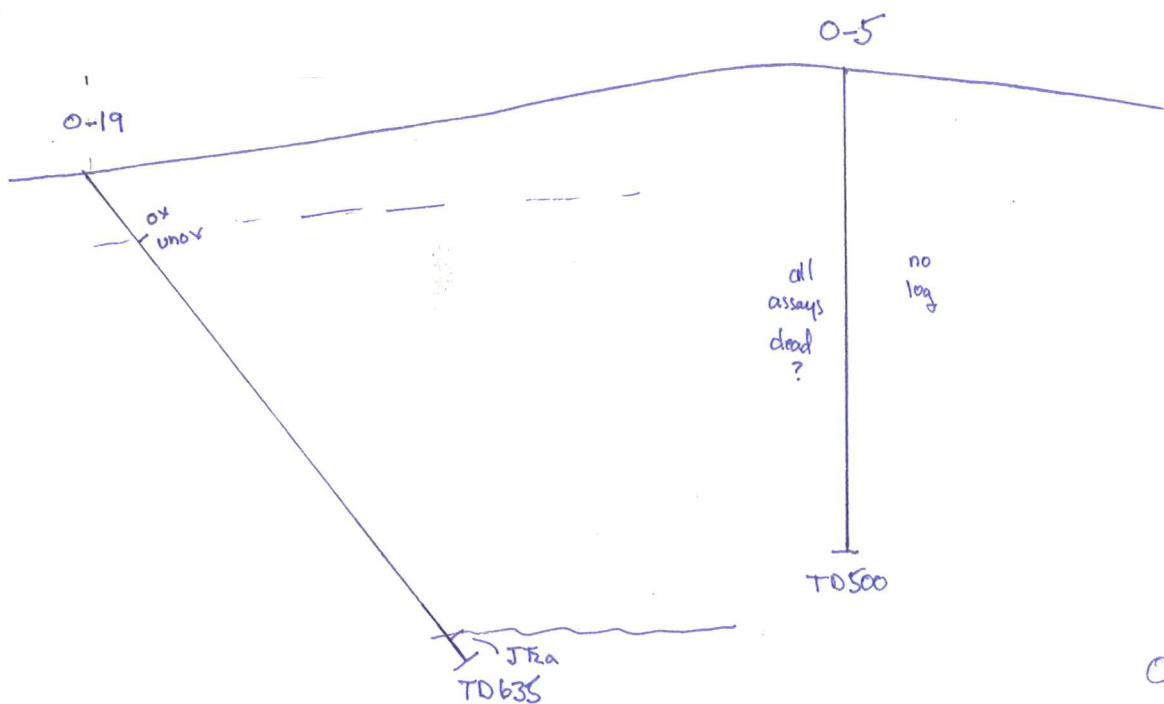
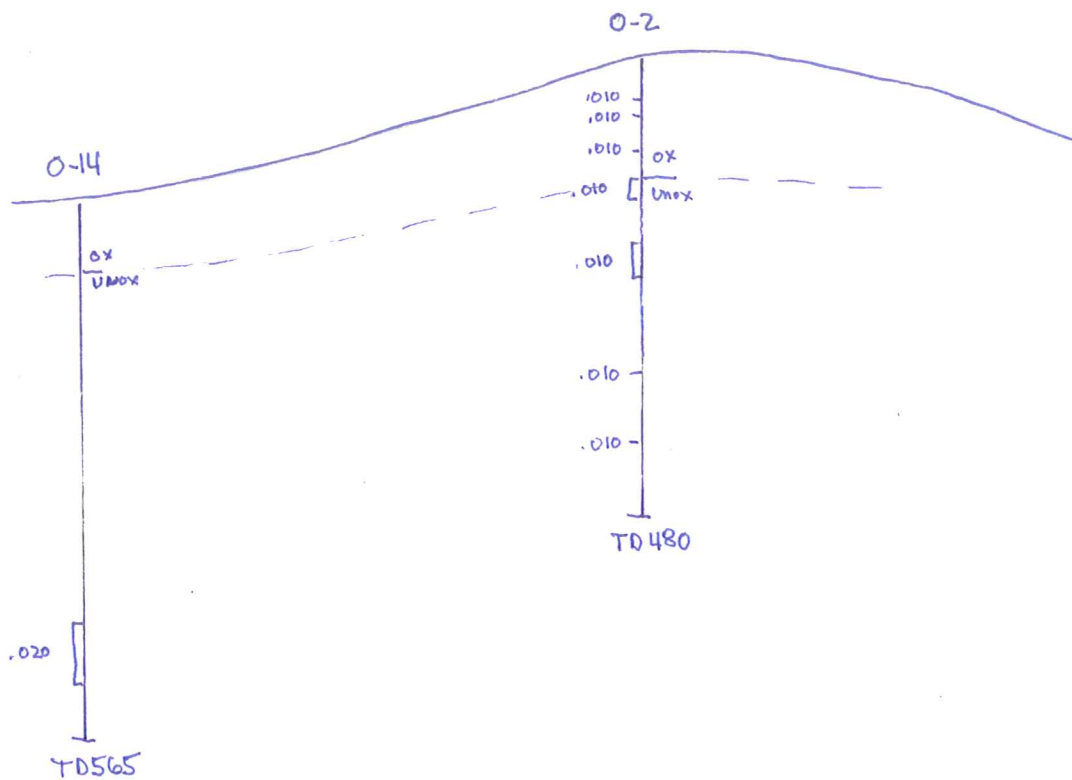


OSCAR  
1" = 200'

DRILLING CROSSSECTIONS

/// = +0.01 Au mineralization





OSCAR  
 1" = 200'  
 DRILLING CROSSSECTIONS

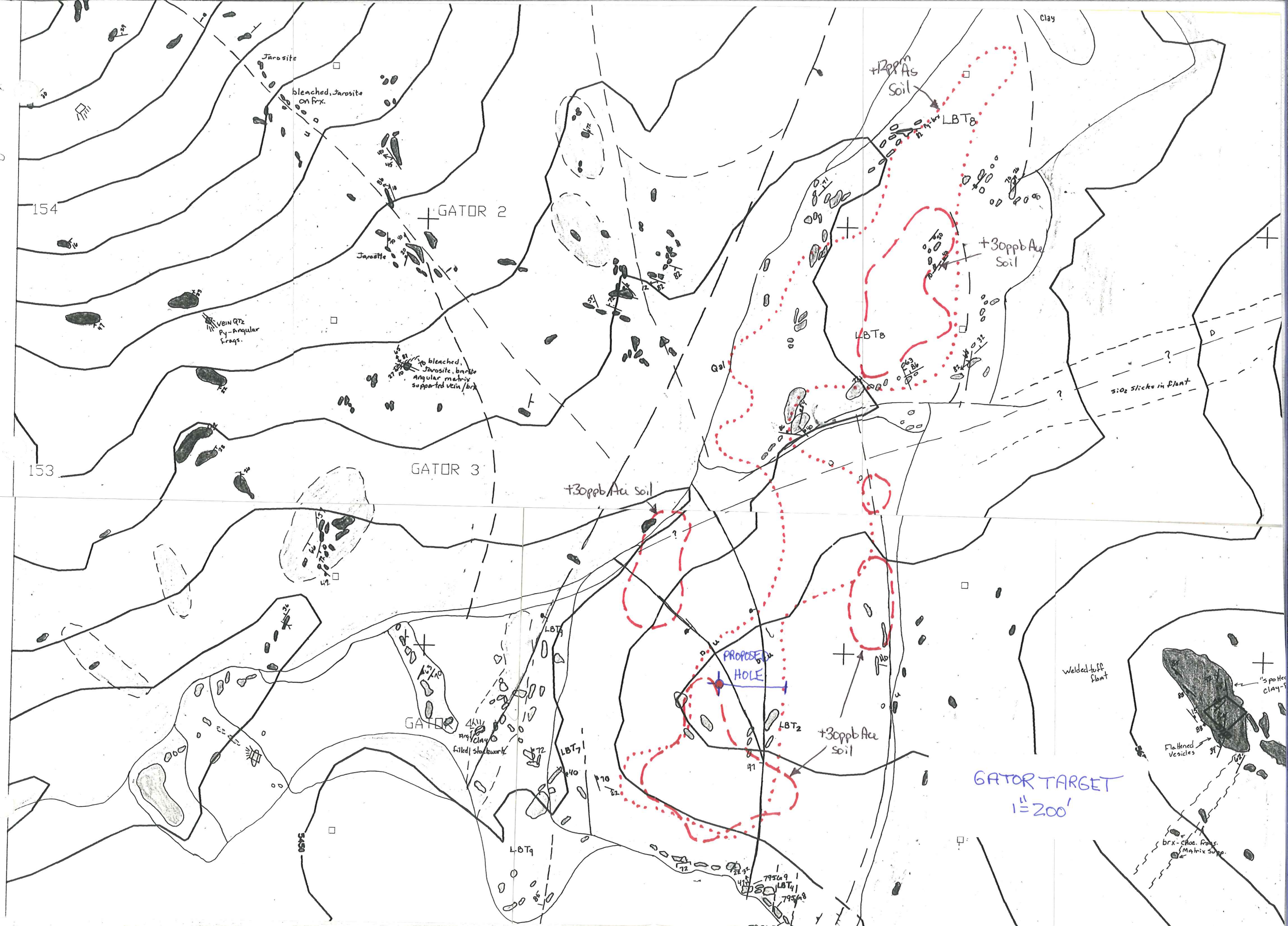
## 15. Gator

The Gator area is located in the north-central portion of the property just north of Wildrose Canyon. Past work by Hecla has included mapping at 1"=200' scale and soil sampling on a rough 100 ft x 200 ft grid. No drilling has been attempted as of this writing.

Result of the soil sampling has revealed a narrow, north-northeast trending +12 ppm As anomaly that persists over a strike distance of 2,000 feet. Clustered along the arsenic anomaly are several smaller +30 ppb Au anomalies that reinforce the north-northeast control for mineralization.

The envisioned target is for a sub-cropping structure that hosts higher grade gold mineralization. Only one reverse circulation hole is proposed now to test the target due to the lack of an obvious favorable host at the site. This one hole should be sufficient to determine if additional holes might then be justified.





## 16. Wildrose South

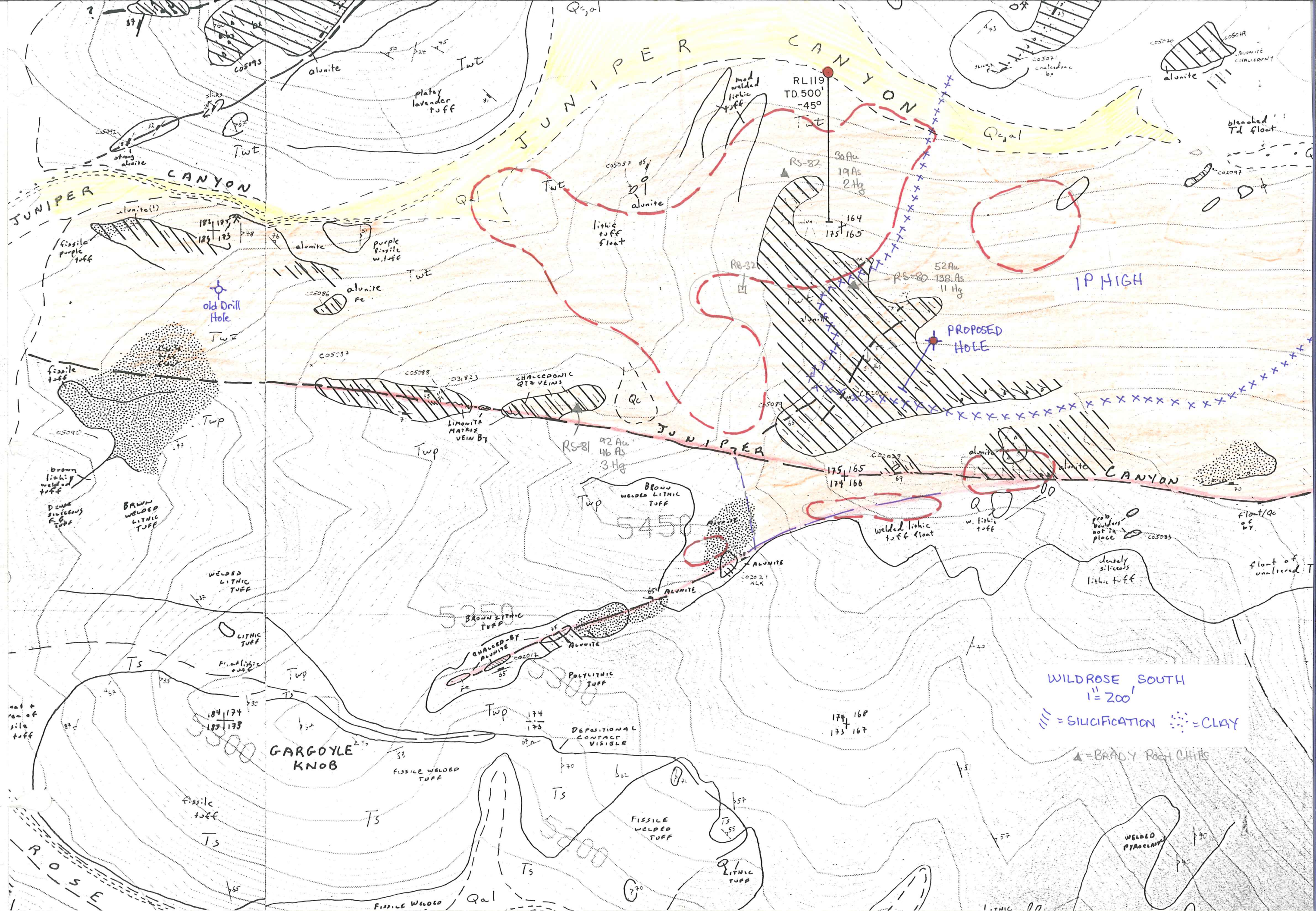
This target is located in the northwestern portion of the property just north of Wildrose Canyon. Past work in the area has included soil sampling, IP/resistivity, rock chip sampling and one drill hole by Lac in 1990 and another hole by an unknown group but possibly Homestake in the early 1980's.

The target as presently envisioned is along an east-west striking fault that forms the contact between the Tbf unit and the Wildrose rhyolite intrusive. The fault branches into two sub-parallel segments on the ridge south of hole RL-119. At the intersection both fault segments are intensely silicified while the surrounding hangingwall and footwall units are altered argillically. Rock chip sampling reveals increasing Au, As and Hg values up the hill towards the branch area while multiple +50 ppb Au soil anomalies cluster throughout (no As, Sb, or Se assay results for the soil samples are available). The IP results also returned a broad high within the rhyolite intrusive reflecting probable disseminated pyrite at depth.

Hole RL-119 was drilled by Lac from the canyon bottom to the south presumably to test the branch area, but the terrain is very steep and Lac was apparently unwilling to construct the necessary access road to properly test the target. Therefore, even though the assay results for RL-119 were dead the results are also considered meaningless due to the improper hole location.

One core hole is now proposed to be drilled on the ridge top. Reverse circulation drilling could be substituted for coring but this will be a difficult and costly site and only the most reliable samples will be justified so that second hole later will not be necessary unless there is some drill encouragement.





JUNIPER CANYON

JUNIPER CANYON

IP HIGH

PROPOSED HOLE

JUNIPER

CANYON

GARGOYLE KNOB

WILDROSE SOUTH  
1" = 200'

/// = SILICIFICATION    :::: = CLAY

▲ = BRADY ROCK CHERT

WELDED  
PYROCLASTIC

ROSE



## 17. Wildrose West

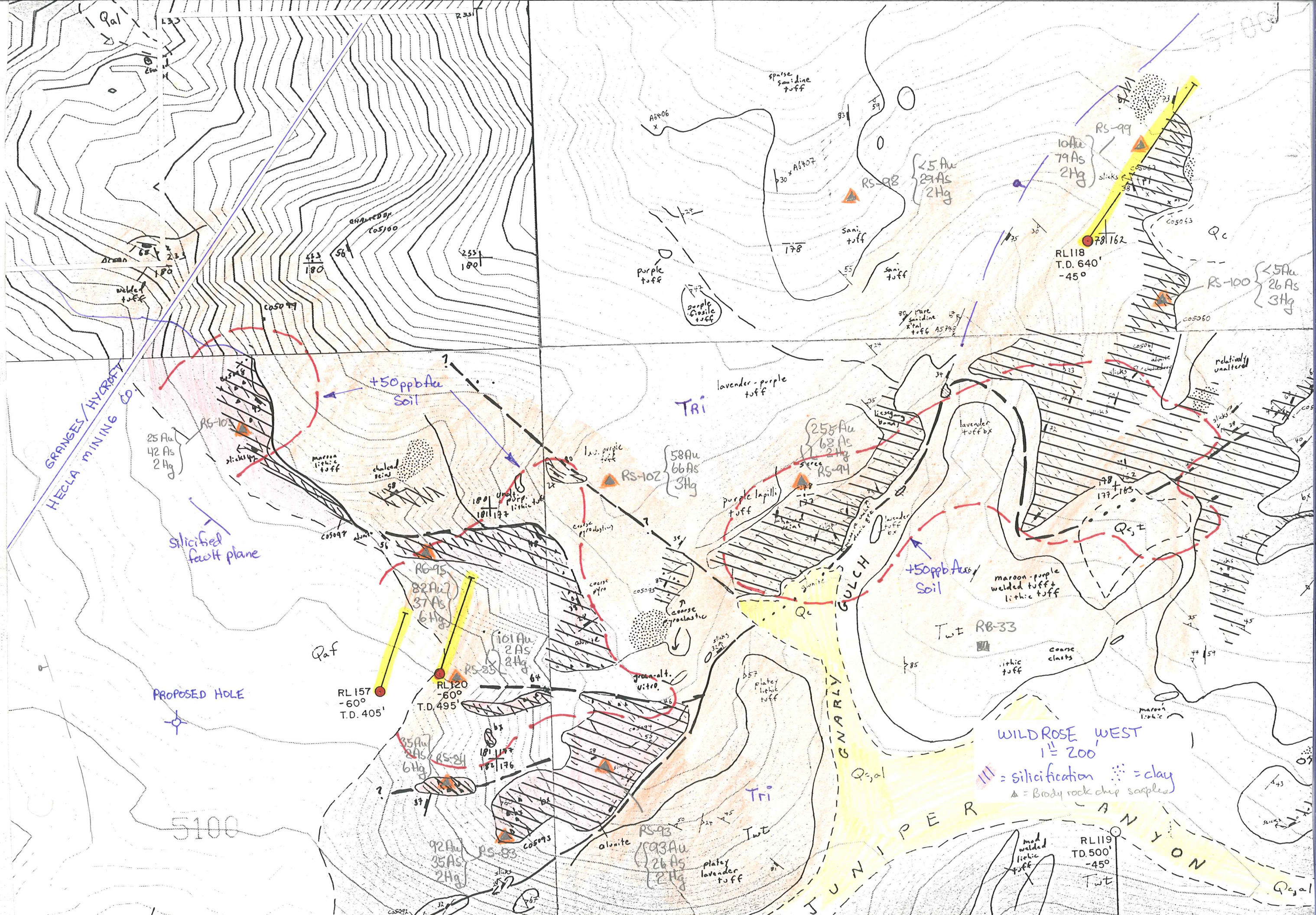
This area is contiguous towards the northwest from the Wildrose South target. Most of the exposures are of the Wildrose rhyolite intrusive but along the west periphery the dip slope of a northwest trending, west dipping silicified fault outcrops along the south to southwest facing topographic slope. This fault is offset at a northeast trending extensional fault that trends through the area of old drill hole RL-118.

Soil sampling has delineated essentially two +50 ppb Au anomalies - one along the northwest trending fault and one roughly along the northeast trending fault. The As, Sb and Se values for this sample set were not available. The IP/resistivity response throughout the area is essentially flat.

The northwest trending silicified fault plane is of primary exploration interest since Au+Hg is highly anomalous along its strike extent (As is only low to moderate). Unfortunately both holes RL-120 and RL-157 were angled into the hill properly but they were collared in an area where erosion breached the fault plane and only footwall rhyolite intrusive was tested. Both holes returned essentially barren assays.

One reverse circulation hole is now proposed in the valley 500 feet west of RL-157 attempting to drill through the fault plane. I presently envision the silicified fault to be a feeder for hangingwall low grade stockwork/disseminated mineralization analogous to the Brimstone Deposit at the Sulphur District approximately 0.5 miles to the north. Higher grade mineralization might also be present along the fault itself.







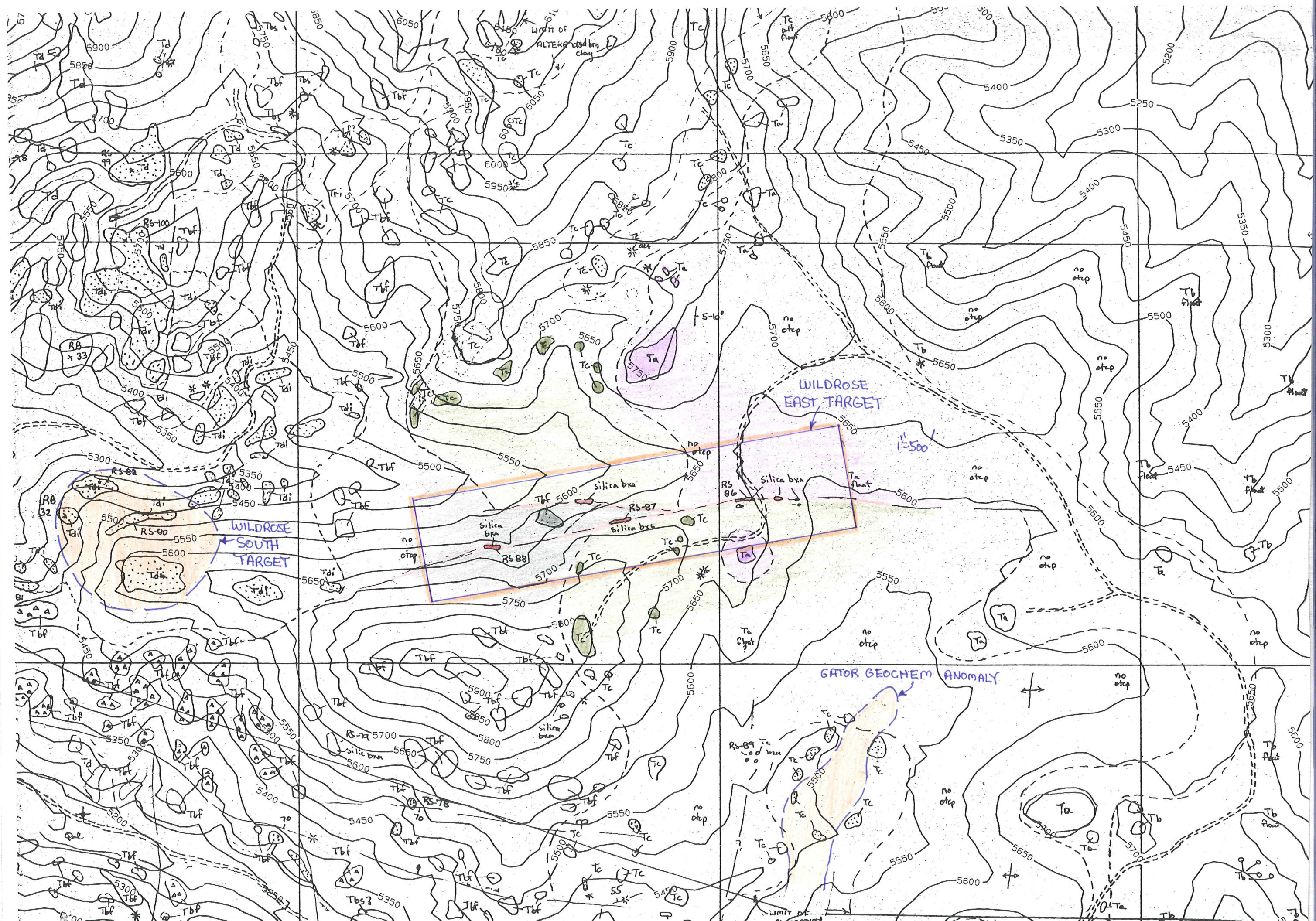
## 18. Wildrose East

This area is located just north of the Gator target and east of the Wildrose area. An east-west trending fault branches into two sub-parallel segments that is silicified along its entire strike length. Rock chip sampling from the reconnaissance mapping effort returned the following assays:

|       | Au(ppb) | As(ppm) | Sb(ppm) | Hg(ppm) |
|-------|---------|---------|---------|---------|
| RS-86 | 63      | 137     | 112     | 29.0    |
| RS-87 | 64      | 16      | 40      | 6.0     |
| RS-88 | 50      | 104     | 43      | 5.0     |

These are considered to be extremely anomalous values especially for antimony and mercury. As previously stated, additional exploration work now needs to be completed prior to any drill recommendations. It is therefore suggested that the Gator soil grid be extended north to cover the Wildrose East area and soil sampling then conducted on a rough 100 ft x 200 ft spacing. Based on these results, a decision to complete IP/resistivity work, drilling or target rejection can then be made.







SHORT SHOTS



# ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC : Short Shot  
HECLA : -  
BRADY : -

## GENERAL DESCRIPTION

bleached area west of Rosebud Peak

## GEOLOGY

bleached area in Tbf flow. Tc underlies and outcrops to the west. Only potential left is to target the structures but weak geochemistry

## GEOCHEMISTRY

soil Au upto 100 ppb - drill tested  
As 19 ppm - " " - same as gold  
Sb 10 " " " " "  
Se 1.5 " " " " "

## GEOPHYSICS

IP only partial coverage but increasing response to west of drilled area  $\pm 500'$

## DRILLING

|        |        |                  |
|--------|--------|------------------|
| RL-238 | TD 500 | vertical = dead  |
| RL-239 | TD 525 | vertical = dead  |
| RL-240 | TD 375 | vertical = dead  |
| RL-244 | TD 200 | vertical = dead. |

no geologic and assay logs.  
just mention of results in an  
end of year project summary.

## REMAINING POTENTIAL

Target tested with negative results. No remaining potential.

2,210,000 N

474,000

SURE SHOT  
Se-soil

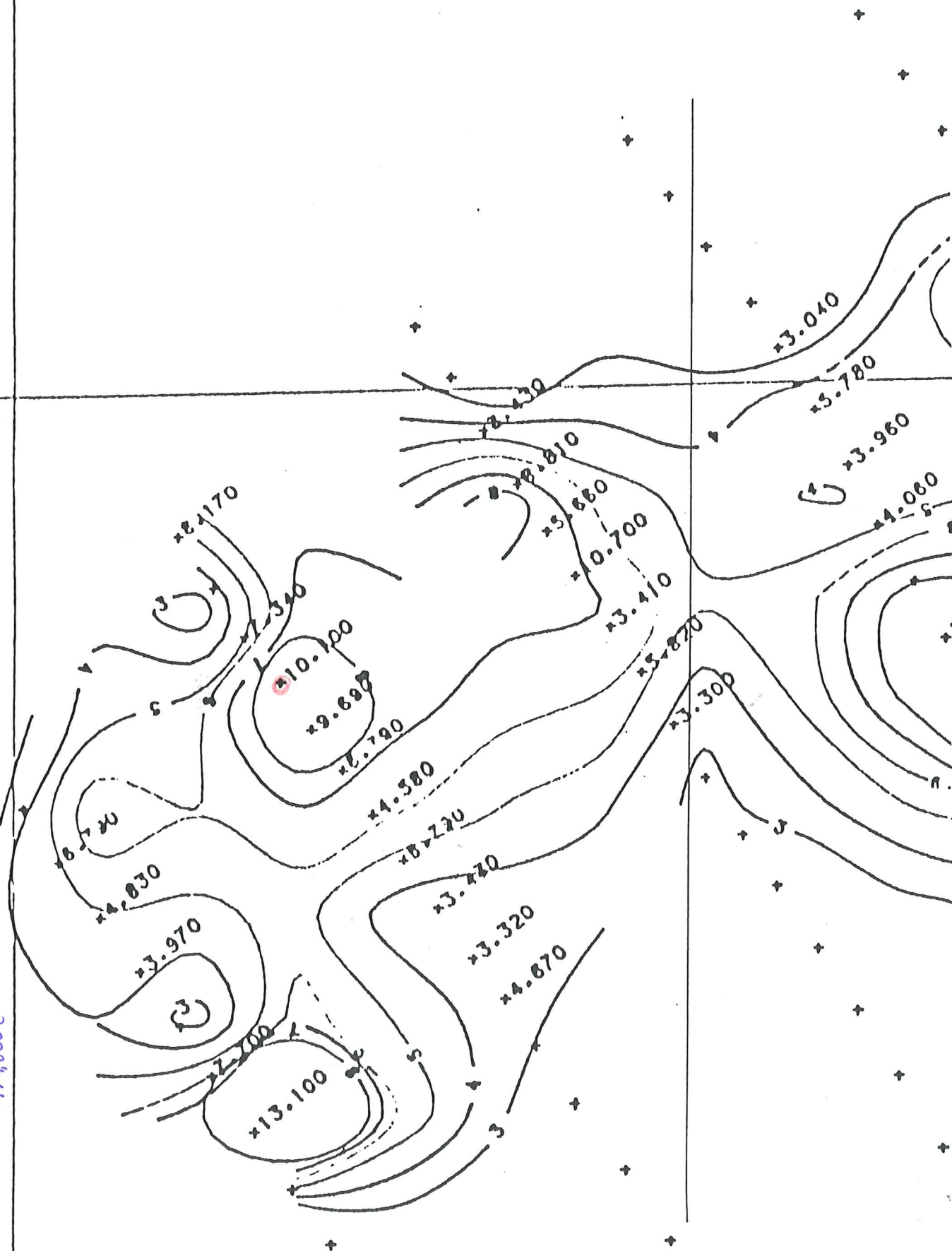


2,20,000N

474,000E

SURE SHOT

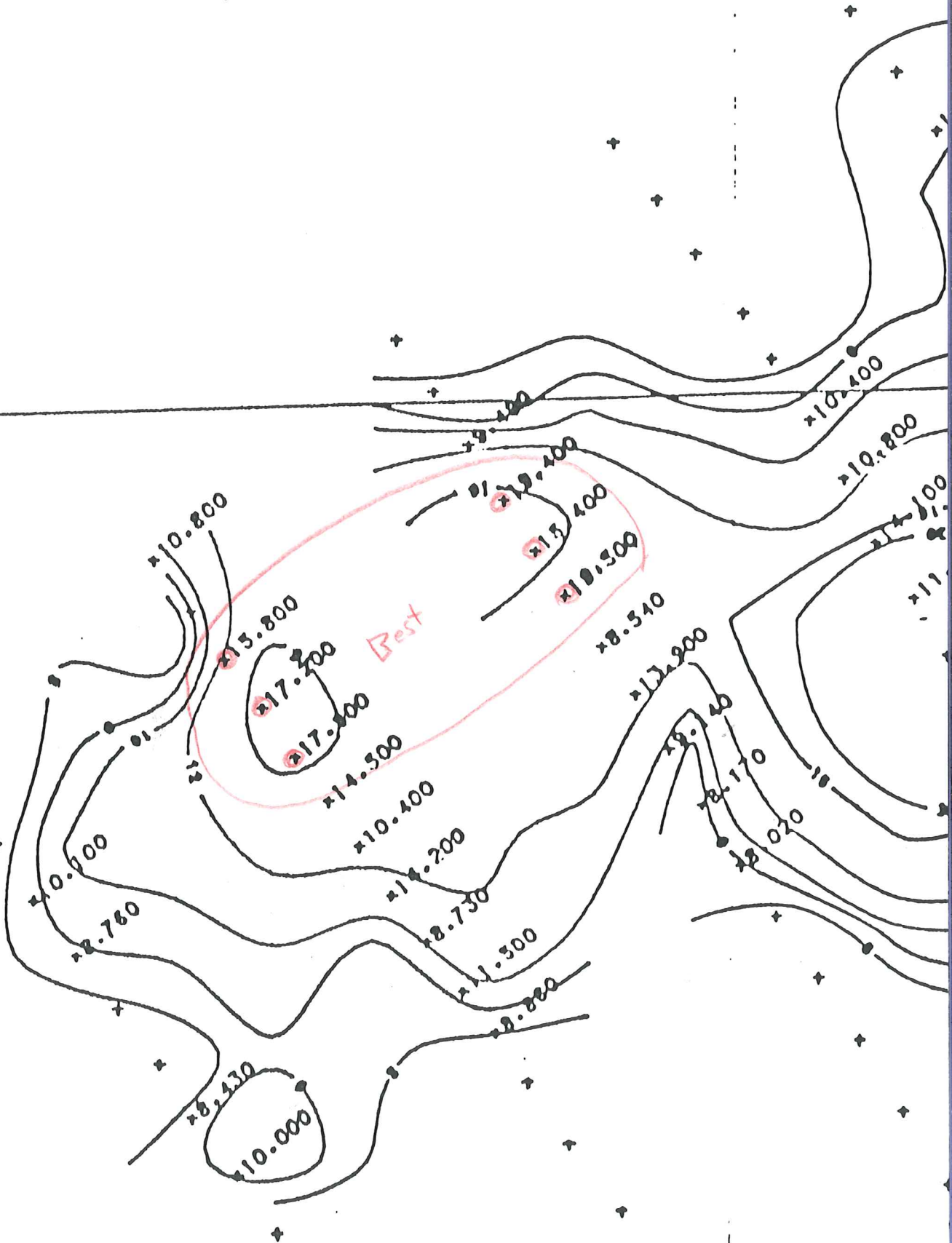
Sb - soil



2,210,000N

474,000E

SURE SHOT  
AS-SOIL





2210,000N

18.800

19.400

19.400

17.800

19.600

18.000

15.700

20.000

23.200

22.100

18.200

13.300

11.800

14.300

12.000

8.000

17.300

9.000

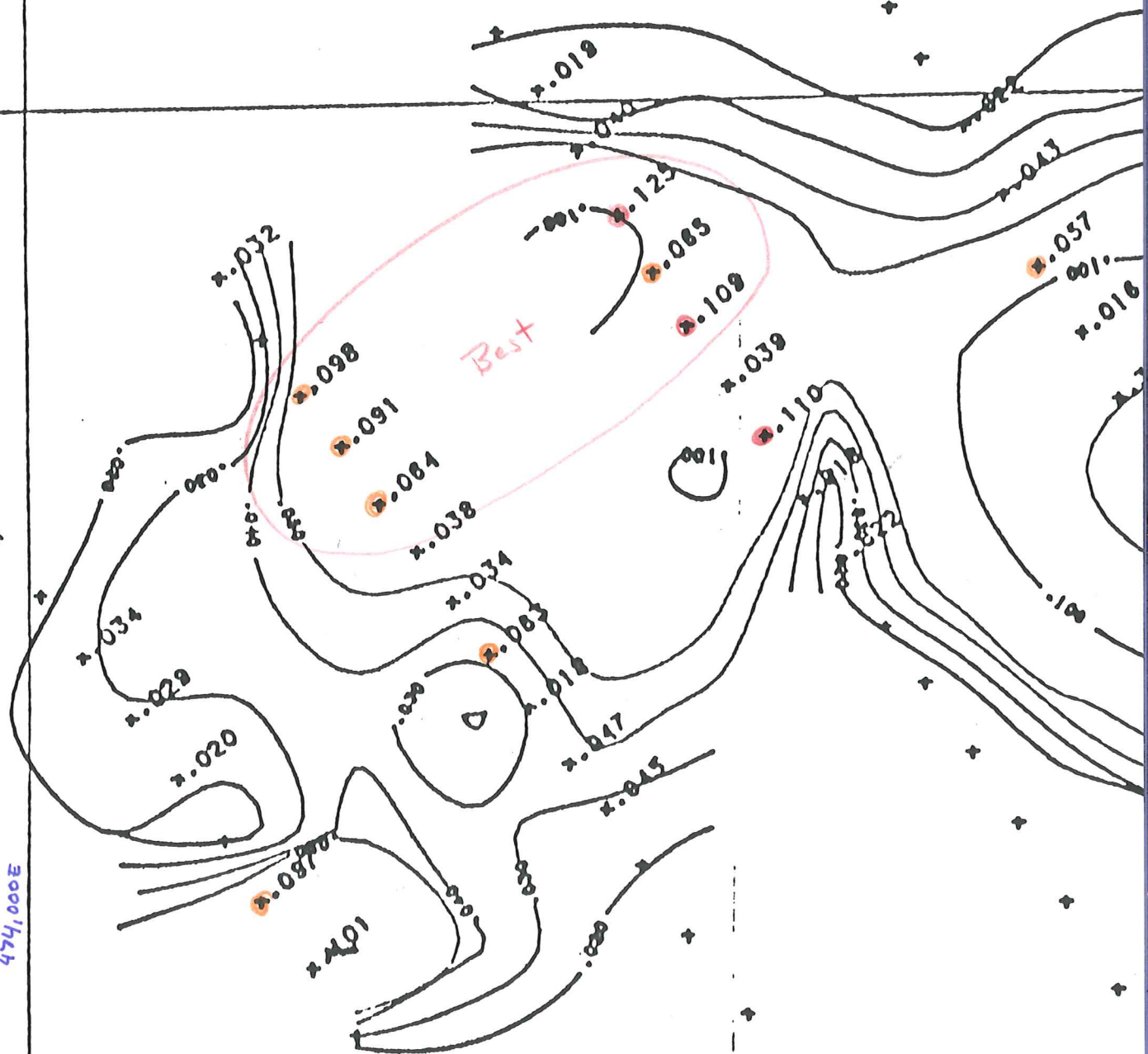
474,000 E

SURE SHOT  
1P

2,210,000N

474,000E

SURE SHOT  
AV-soil





NORTH EQUINOX

## ROSEBUD PROJECT

|             |               |               |
|-------------|---------------|---------------|
| TARGET NAME | EQUINOX/LAC : | North Equinox |
|             | HECLA :       | North Equinox |
|             | BRADY :       | Target VII    |

### GENERAL DESCRIPTION

Large E-W trending chalcedonic quartz breccia zone in Chocolate Tuff.

### GEOLOGY

all Tc

### GEOCHEMISTRY

(soil grid does not extend to intersection area)

Soil Au essentially dead.

As scattered +10 ppm over main zone at top of hill

Sb +10 ppm intervals near intersection area.

Se curious lineated anomalies down sample line - assay problem?

### GEOPHYSICS

Resistivity high under main hill

Good IP anomaly offset north of zone and dh RL-85

### DRILLING

Drilling results mostly dead but did not test intersection area and

RL-85 probably collared on zone and drilled overtop. RL-86 only hole that intersected zone and it was dead.

### REMAINING POTENTIAL

large IP anomaly north of zone. RL-85 tail hit 0.003-0.011 beyond zone in IP area. Needs more drilling to test IP



North Equinox Lac, Hecla Target + mine. 84, 85, 86, 87

RL-84 TD 620 N30E -45

0-620 TC no charge wk silic throughout.

dead throughout

didn't hit it.

RL-85 TD 530 N1W -75

0-310 qtz stockwork breccia

405-410@ .011 425-430@ .010  
415-420@ .011

310-530 TD strong silic - bottomed in it.

OX  
unox 310

0-350 .001 or less

350-530 TD .003-.011 Au.

↑  
lost hole

should have gone deeper.

RL-86 TD 665 N7W -60

0-320 silic.

0-580 .003-.008

320-590 strong silic.

590-665 footwall TC?

( 580-665 dead .001

OX  
unox 300

spikes @ 70-80 .010 Au 0.2 Ag

105-110 .011 -

140-155 .013 -

160-165 .022 -

170-175 .011 -

200-205 .015 0.2

265-270 .035 -

305-310 .012 -

410-415 .011 -

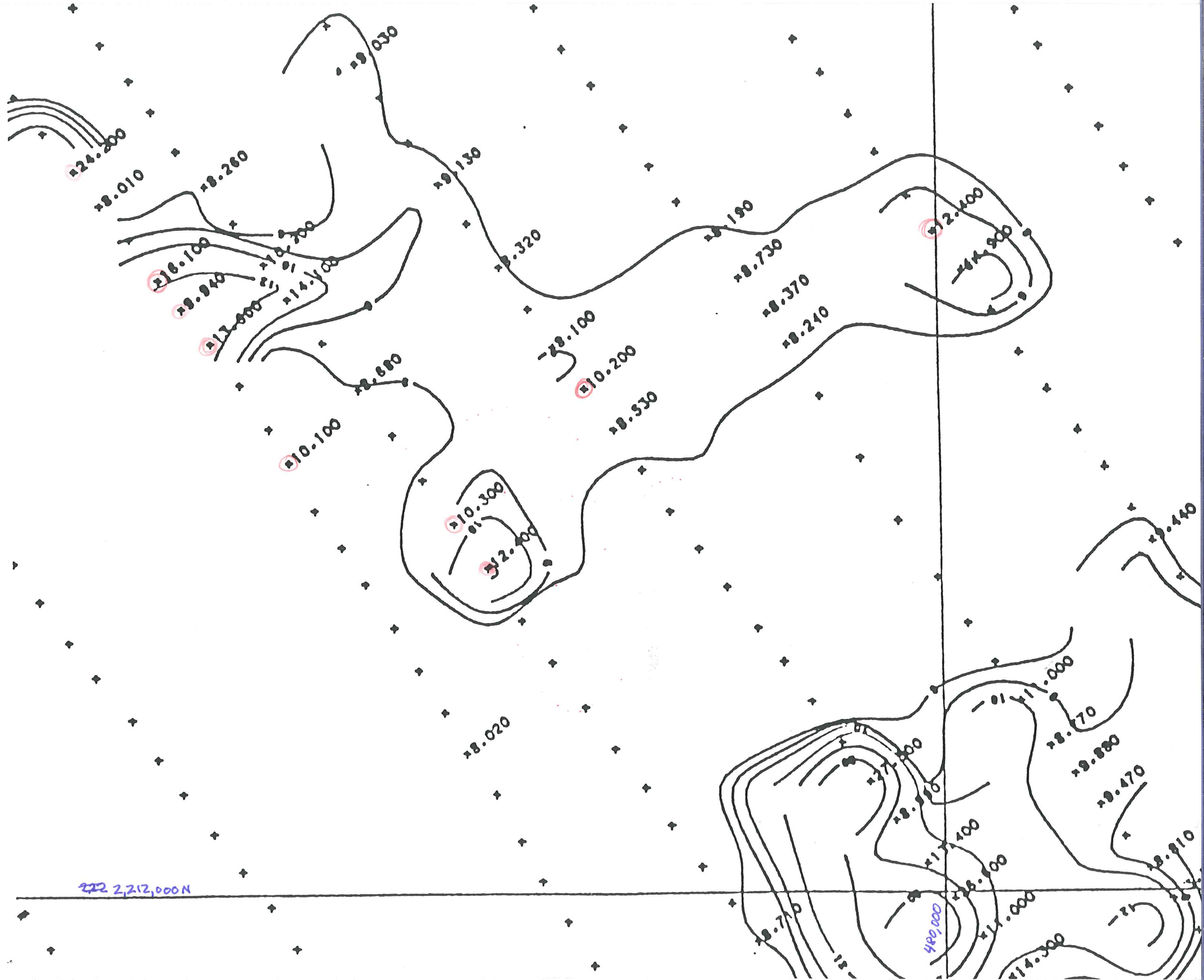
RL-87 TD 845 N30W -60

0-845 TC?

all dead.

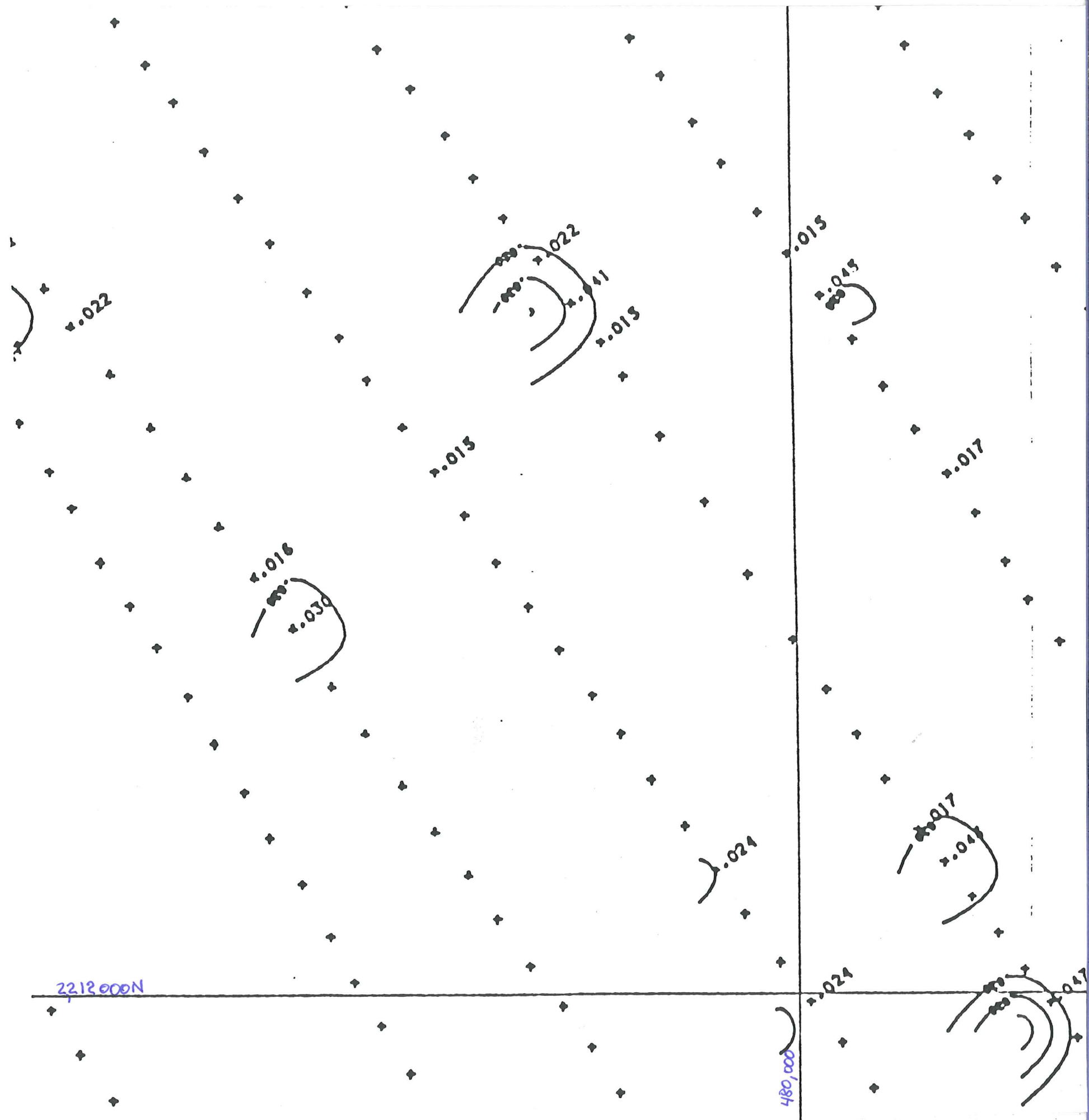
OX  
unox 470

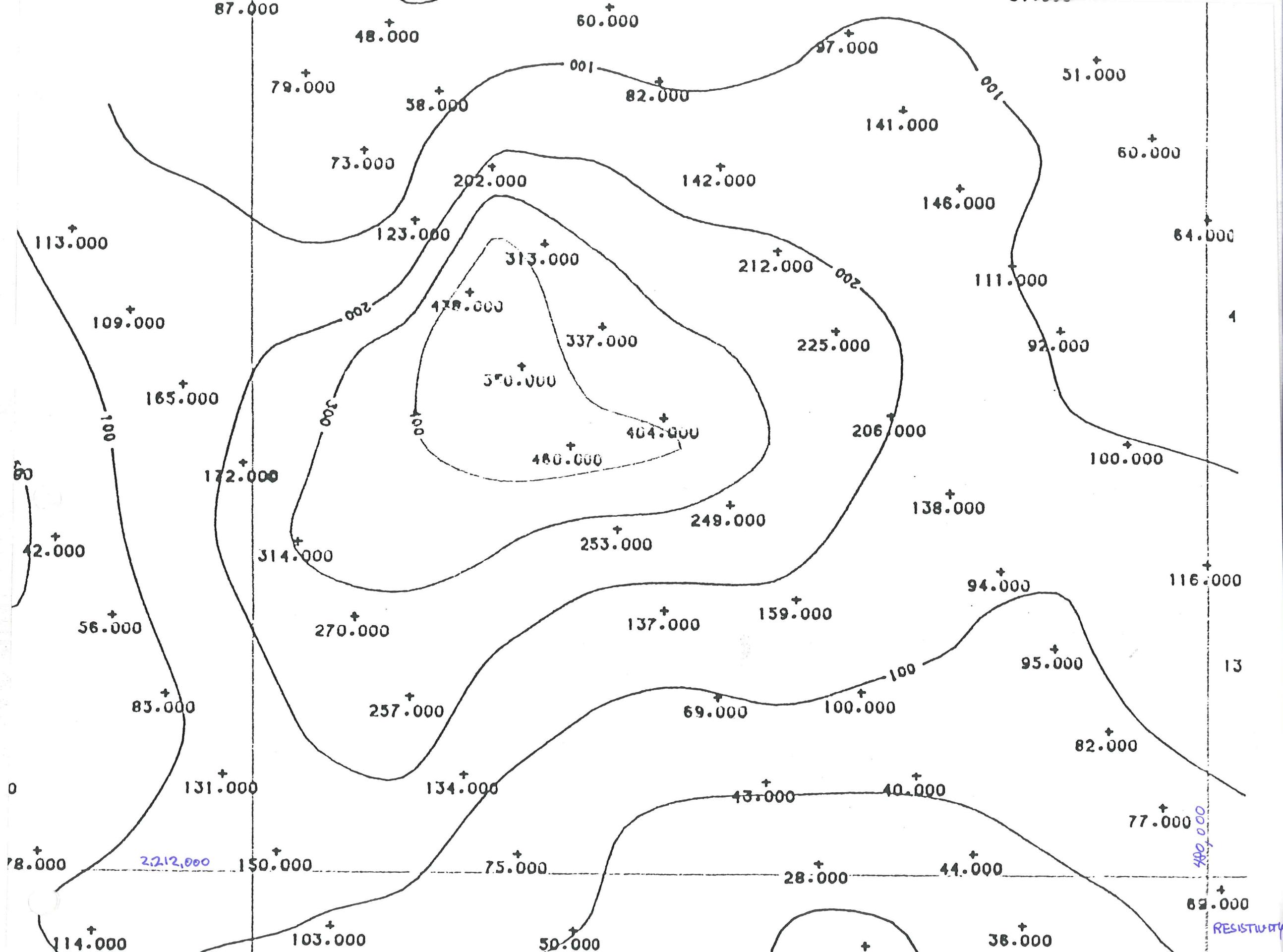
no strong silic.



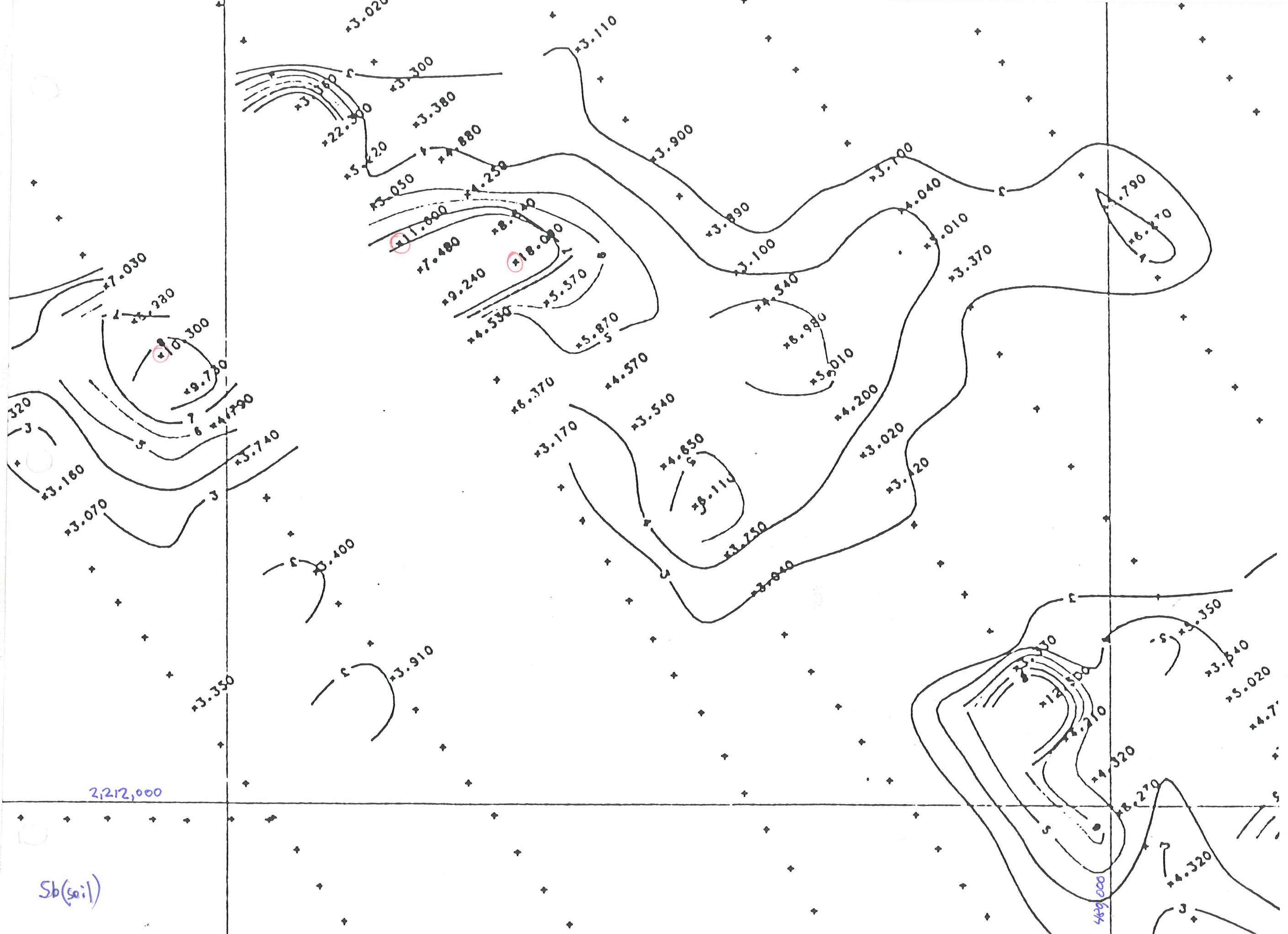


Ag(soil)



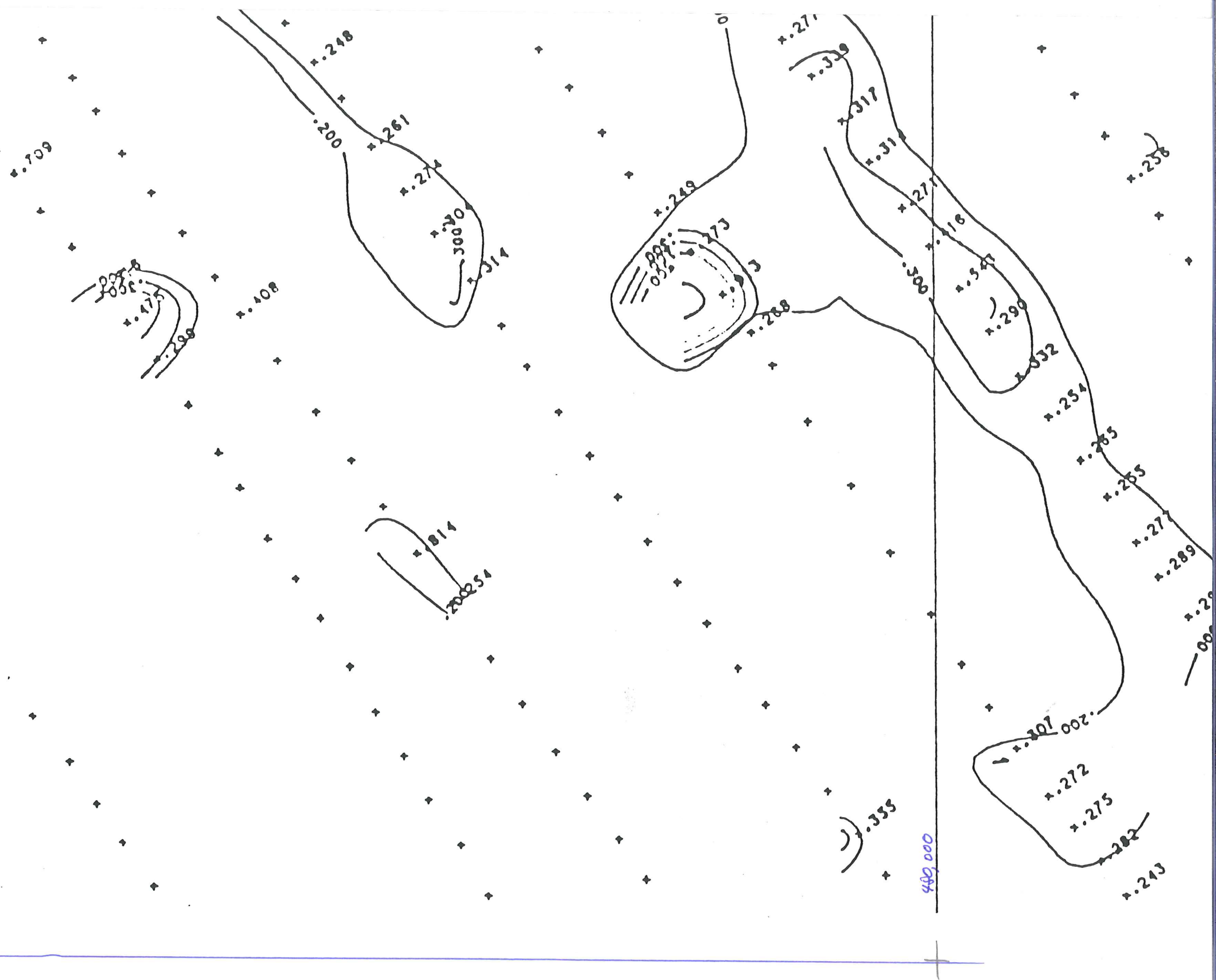




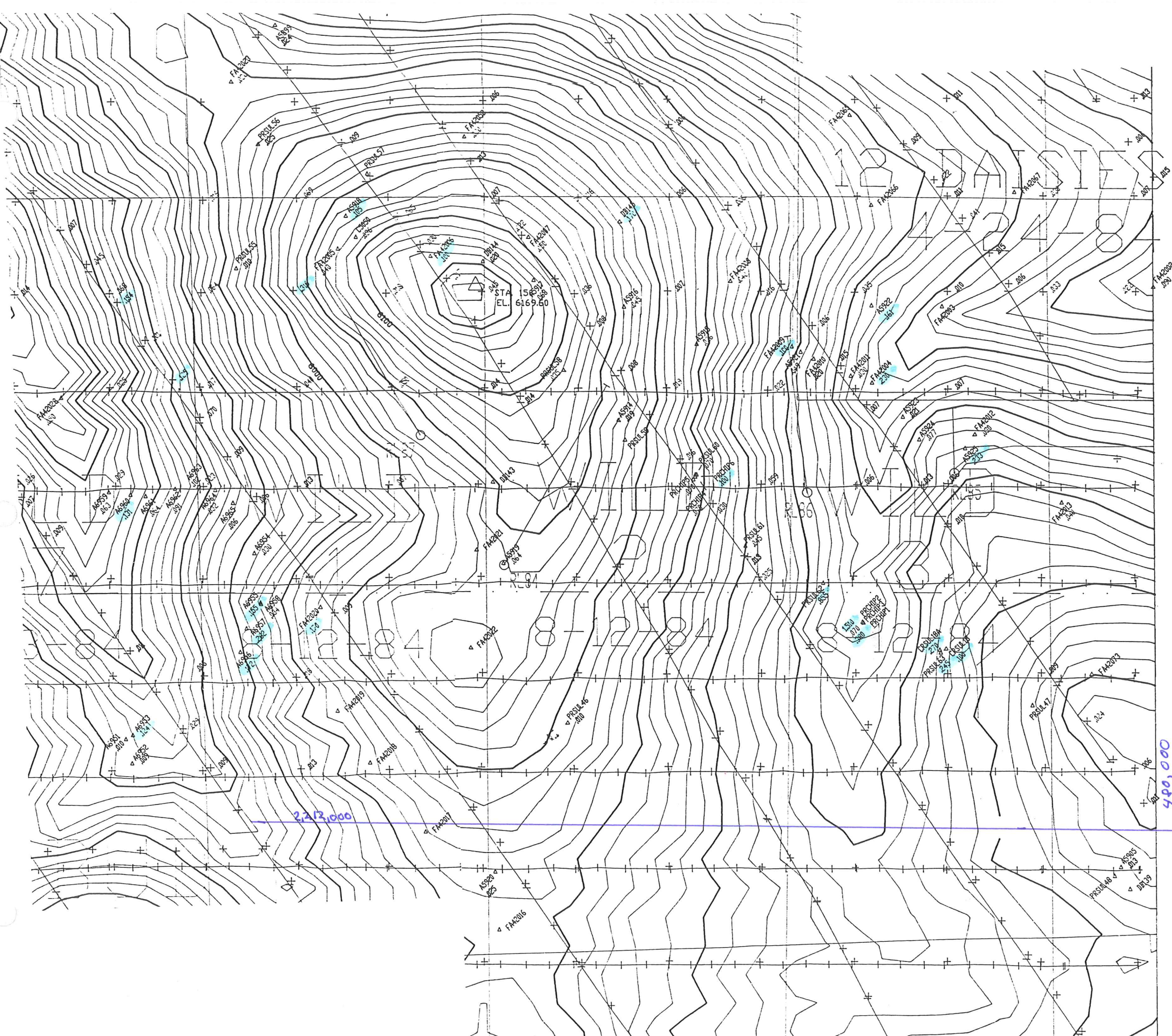


Se(soil)

2,212,000



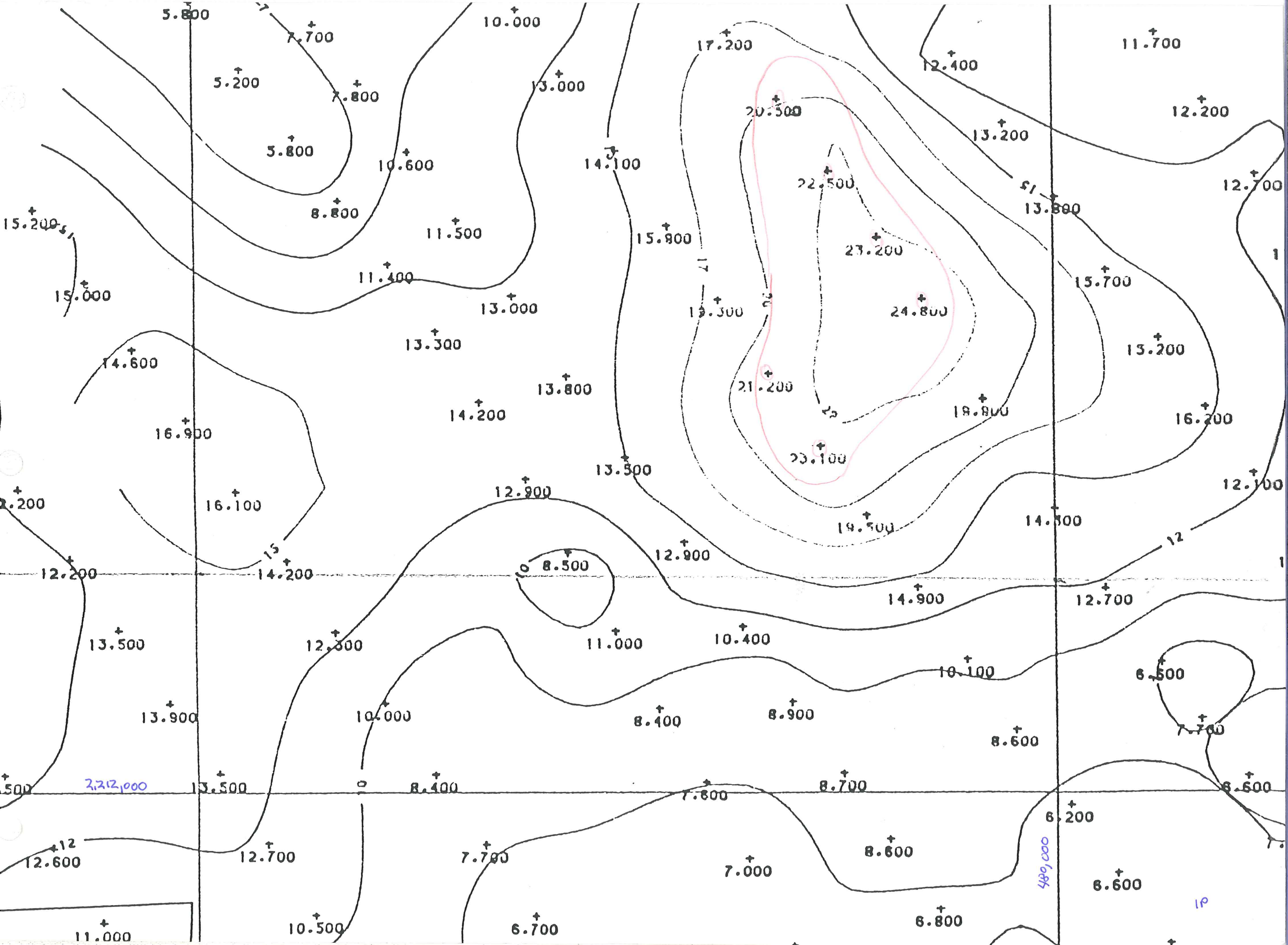




N 2212500

RockChip assays  
ppmAu  
=+100 ppb







NORTH REDWOOD P.

## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC: North Rosebud Peak  
HECLA: Rosebud  
BRADY: -

### GENERAL DESCRIPTION

N-S trending silicified breccias along ridge extending north from Rosebud Peak. West dipping low-angle structures in canyon on east side of ridge.

### GEOLOGY

all Tc

### GEOCHEMISTRY

Au - 1 +100ppb sample on south end of ridge near anom rock chip samples  
As - +20ppm in same area.  
Sb = +20 ppm " " "  
Se = 0.5 ppm " " "

### GEOPHYSICS

no IP anomaly  
minor resistivity high on nose of ridge just east of RL-225

### DRILLING

drill holes RL-225, 226 and 227 all dead. but did not really test anything anomalous. The ridgetop just north of Rosebud Peak remains untested (soil Au, As, Sb) possible extension of Tbs unit(?) future target but not priority

### REMAINING POTENTIAL

Some remaining potential but not priority.



Rosebud - Hecla  
North Rosebud Peak-Lac.

RL-225 TD 630 N80E ~60  
D-630 TC?

0-240 assays dead.  
then no assays.

RL226 TD 245 vert.  
0-85 TC

85-245 fine grained tuff porphyry (poss Tbf)  
all assayed / all dead.

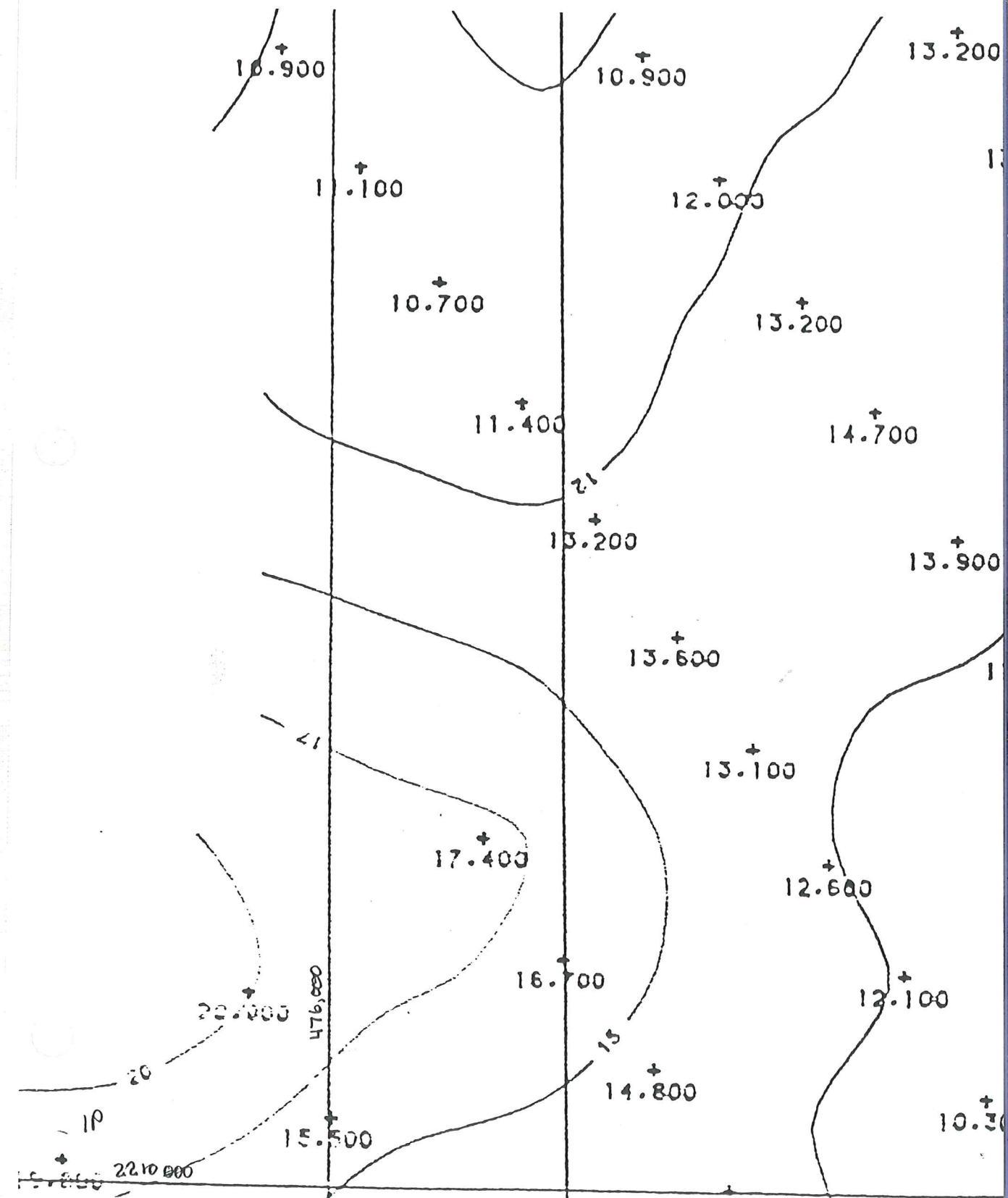
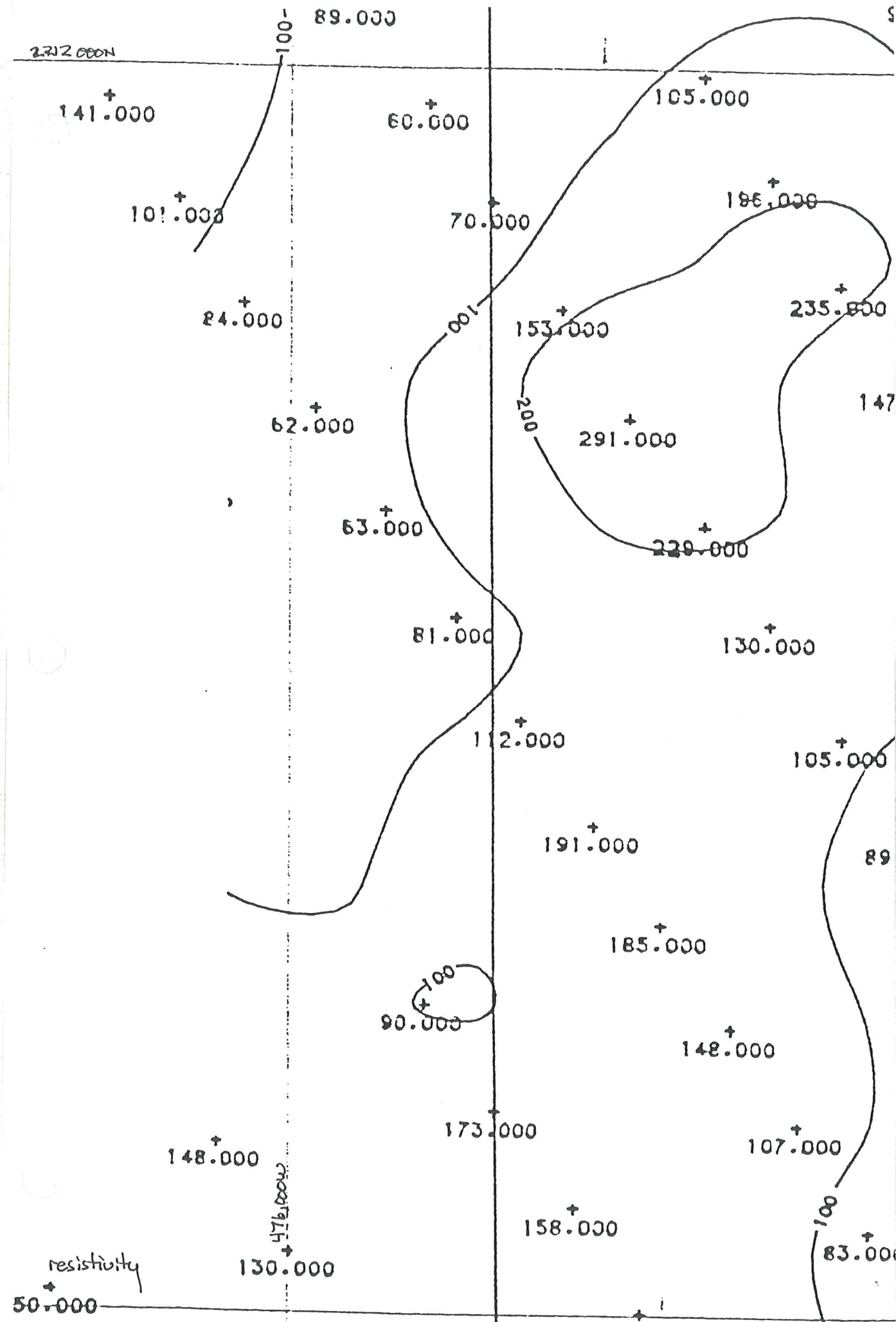
no log for RL-227

scattered anomalous rock <sup>+ soil</sup> chip numbers for gold

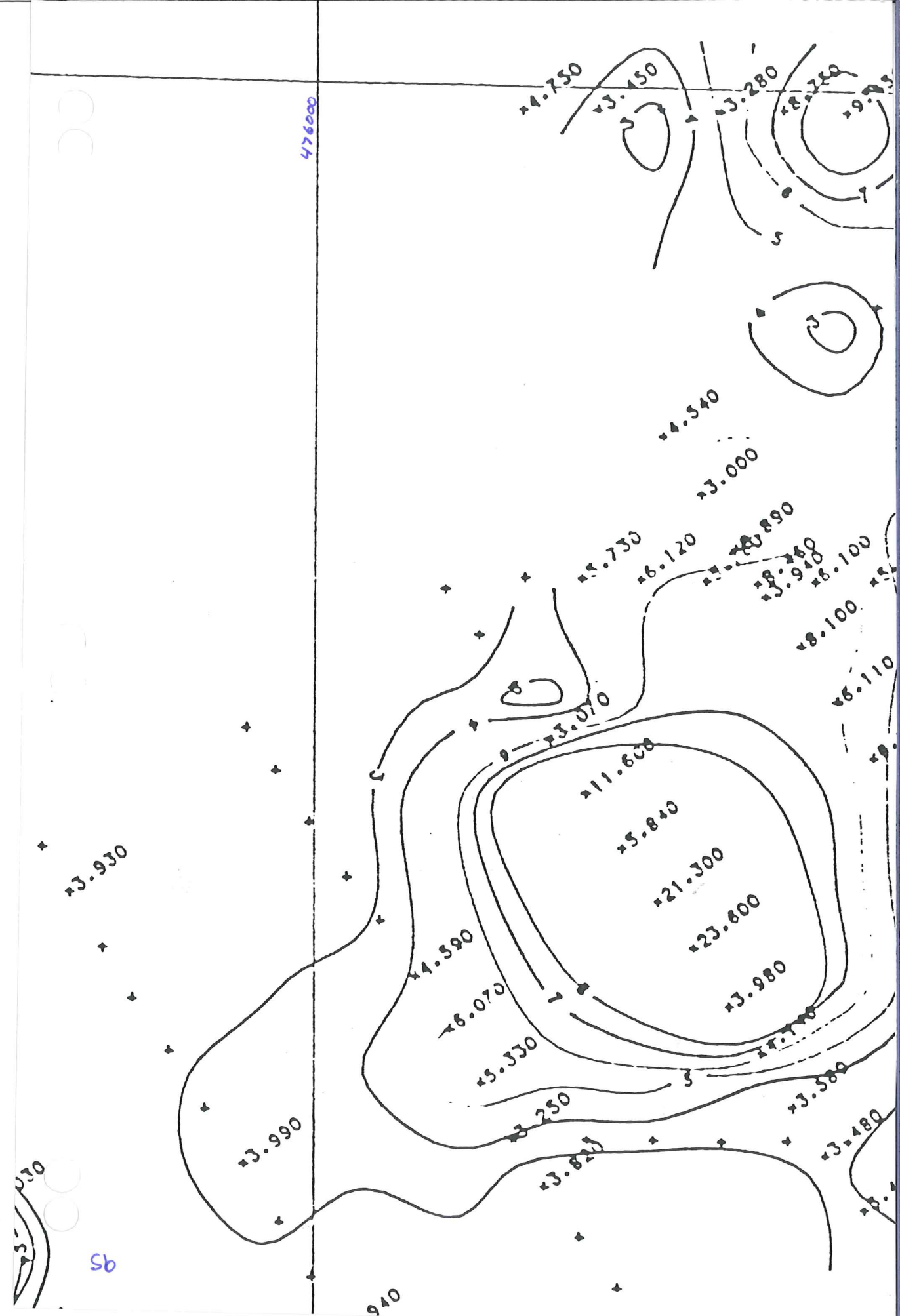
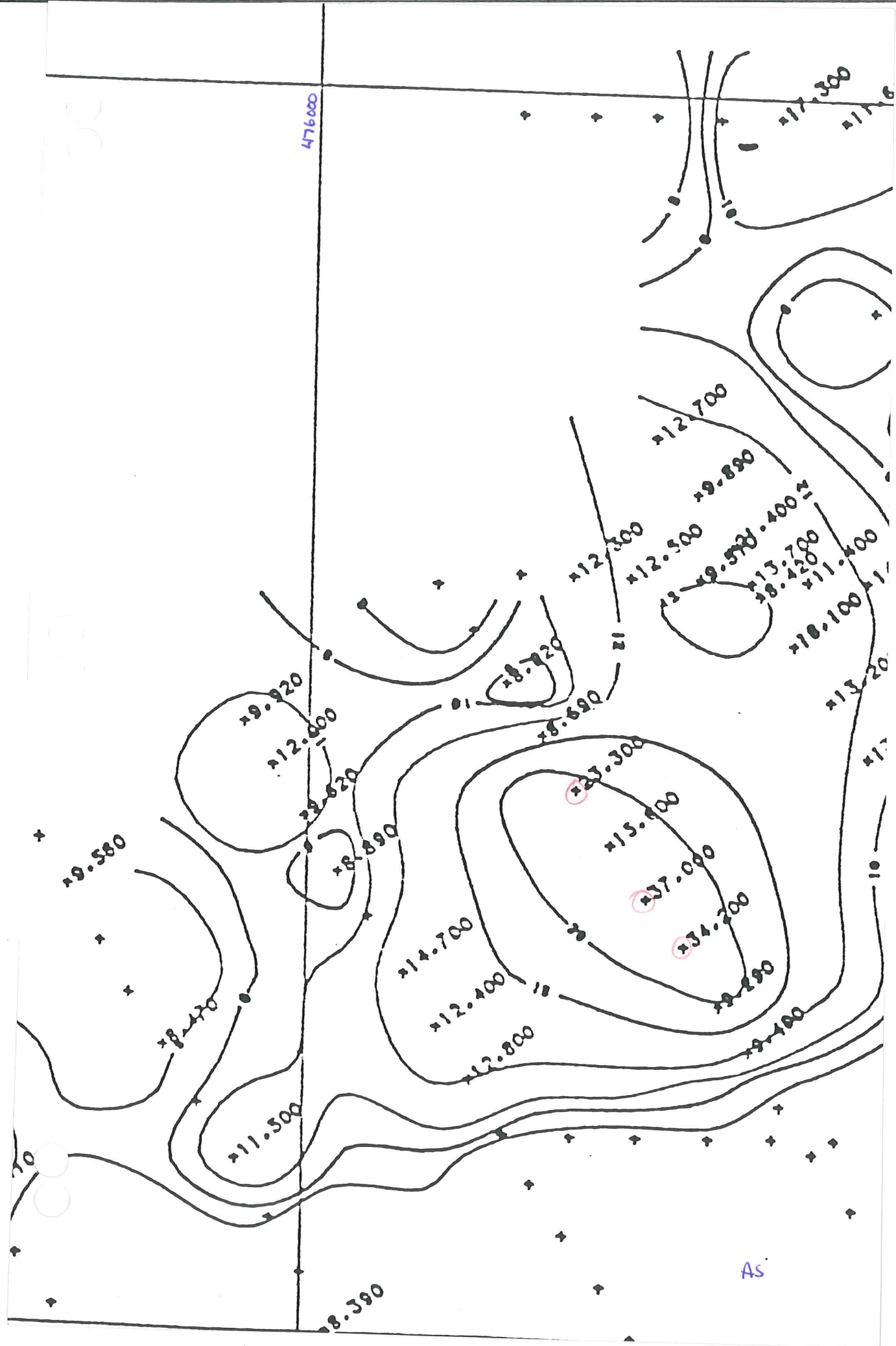
no IP response in area.

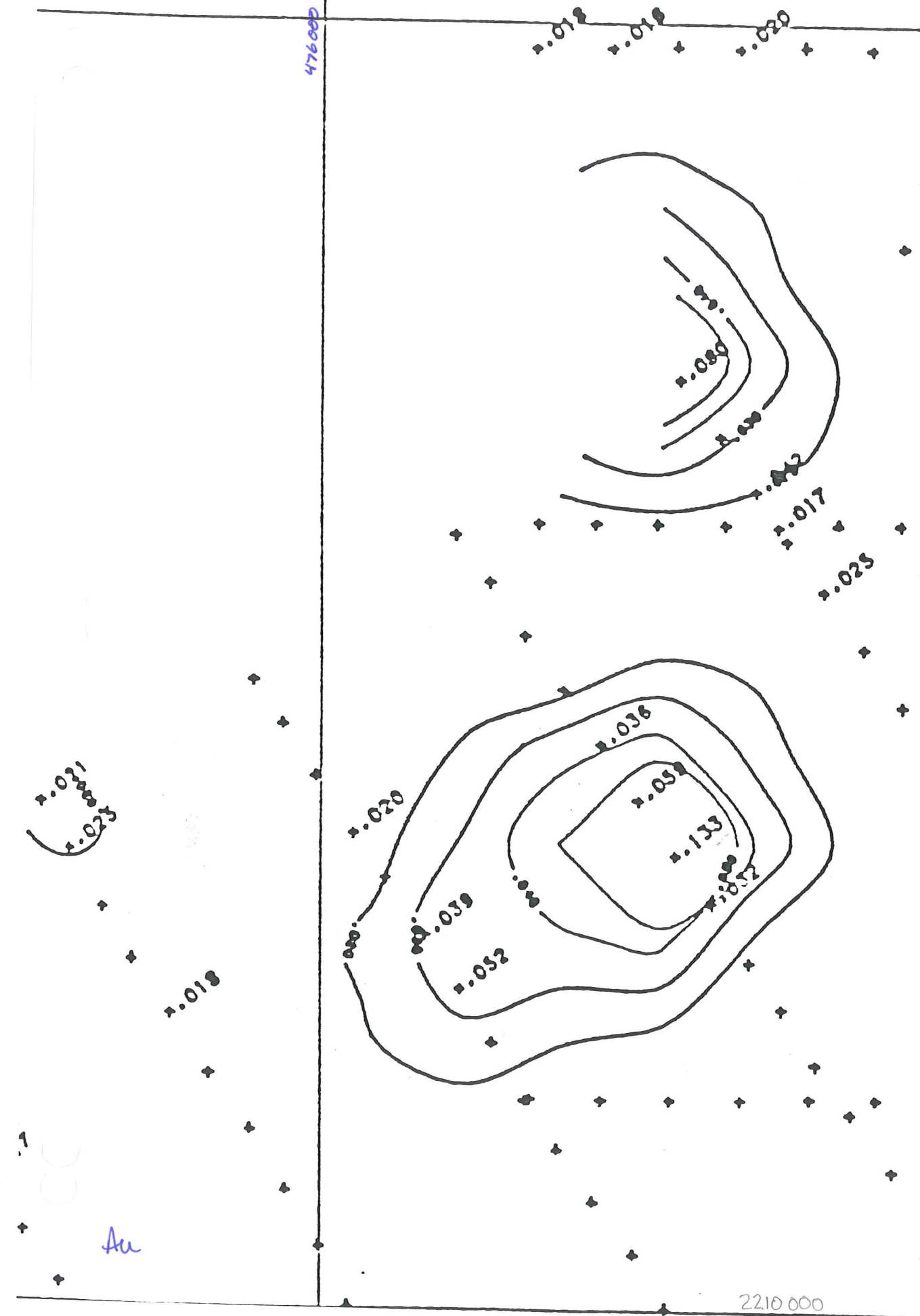
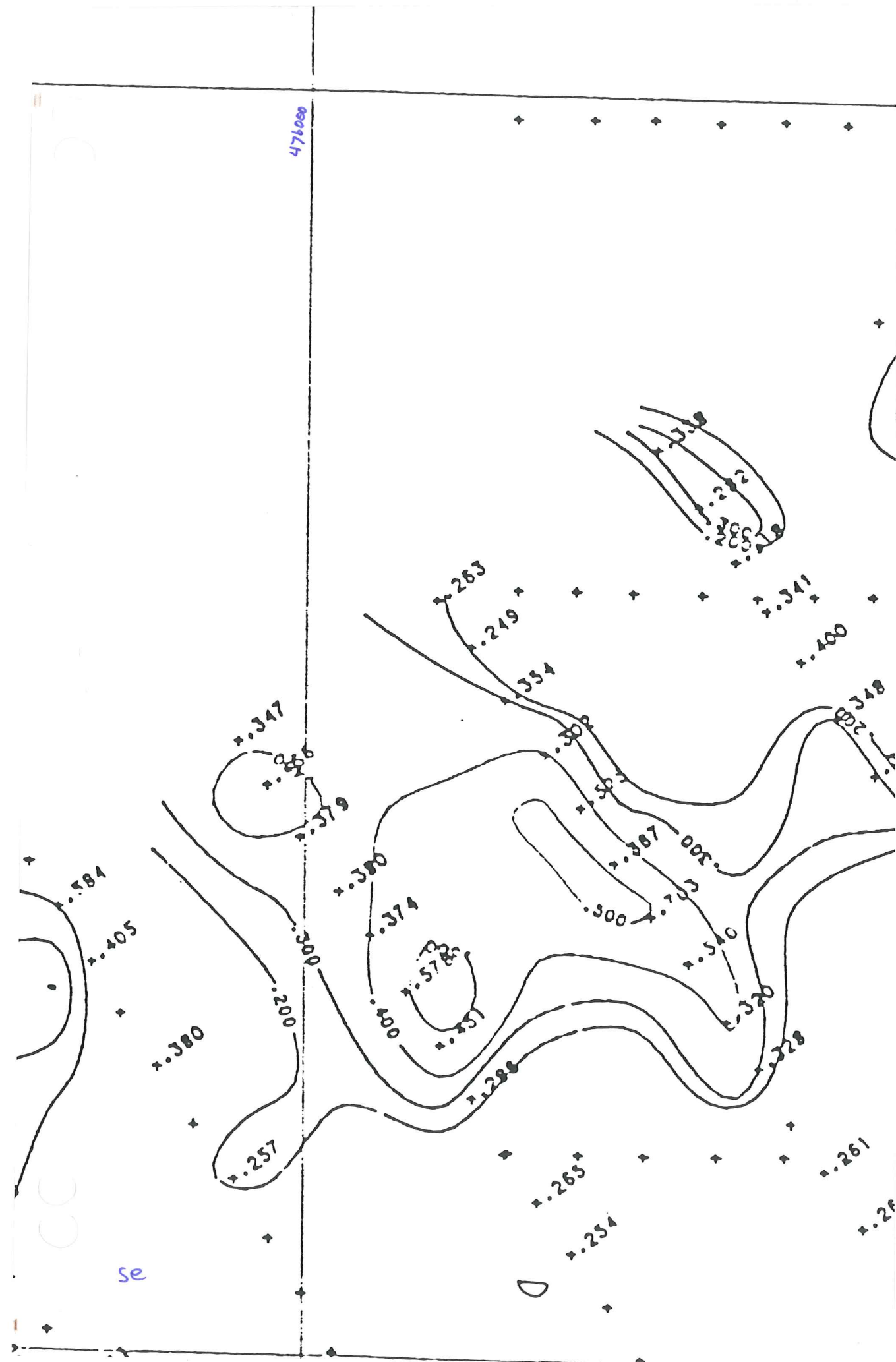
doesn't appear to be any reason to explore more.

RL227 585 vert. dead.













# ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC : —  
HECLA : —  
BRADY : Target II

## GENERAL DESCRIPTION

Fractures in Td w/ anom. Au + Barite. Old prospect working explore  
fracture controlled mineralization.

## GEOLOGY

all Td

## GEOCHEMISTRY

Soil - scattered + 100 ppb Au  
" 10-15 ppm As - generally same area as Au.  
dead for Sb  
" " Se

## GEOPHYSICS

resistivity does not cover area.

IP " " " "

but shows slowly increasing to WSW.  
into valley.

## DRILLING

only shallow Km-11 w/ 5' @ 0.046 Au.

## REMAINING POTENTIAL

Need more data.



Target II no Hecla Target  
no Lac target although along Forebush Shear in valley  
to north call it South West Valley  
-no ground geophysics.

on 4/93 Lac map show only KM-11 dh. (no logs/assays in file)  
Sb dead ( $< 3 \text{ ppm}$ ) Se dead ( $< 1.2 \text{ ppm}$ )  
As low throughout (10-30 ppm)

Lac completed soil grid over area.

2 anomalies 700x500 +50 ppb (not As etc.) on west facing slope.  
cd 600x250 +50 ppb " " on ridge.

2 isolated soil samples below 362 ppb cd 81 ppb

rock chip anomaly interval

500x200 cd 400x100

+50 ppb As / +150 ppm As.

parallel to fractures.

all agree on geology as Td.

\* need to get - underground  
more drilling.

\* condemnation hole 700' deep X South  $\rightarrow$  in dozens/dead.

Tuept II

✓ RB94-08 <sup>405</sup> TD ~~205~~ -60 all Td? poor log N.A.  
 ✓ RB94-07 TD 405 -60 all Td? " "

Charles remembers  
 dead.  
 ""

✓ RB94-04 hit Rosebud Shale @ 300 vert. hole.  
 05 on Hw of Rosebud Sh.

N D or  
 Not Plot

RL 98C -64 S56E 1061TD  
 0-965 recirc.  
 465-570 Ta  
 570-756 Tbs  
 756-902 Ta  
 902-943 Tbs  
 943-960 fault  
 960-1035 Td  
 1035-1220 Jka.

270-275 @ .060  
 920-925 .014  
 930-945 .027  
 955-960 .010  
 west dead.

27  
 3 82  
 82

Epithelium  
 44

RL 99 S55E -60 1242TD  
 0-465 RC  
 465-496 Tbs  
 496-674 Ta  
 674-892 fault  
 892-1205 fine grained - full  
 1205- Jka

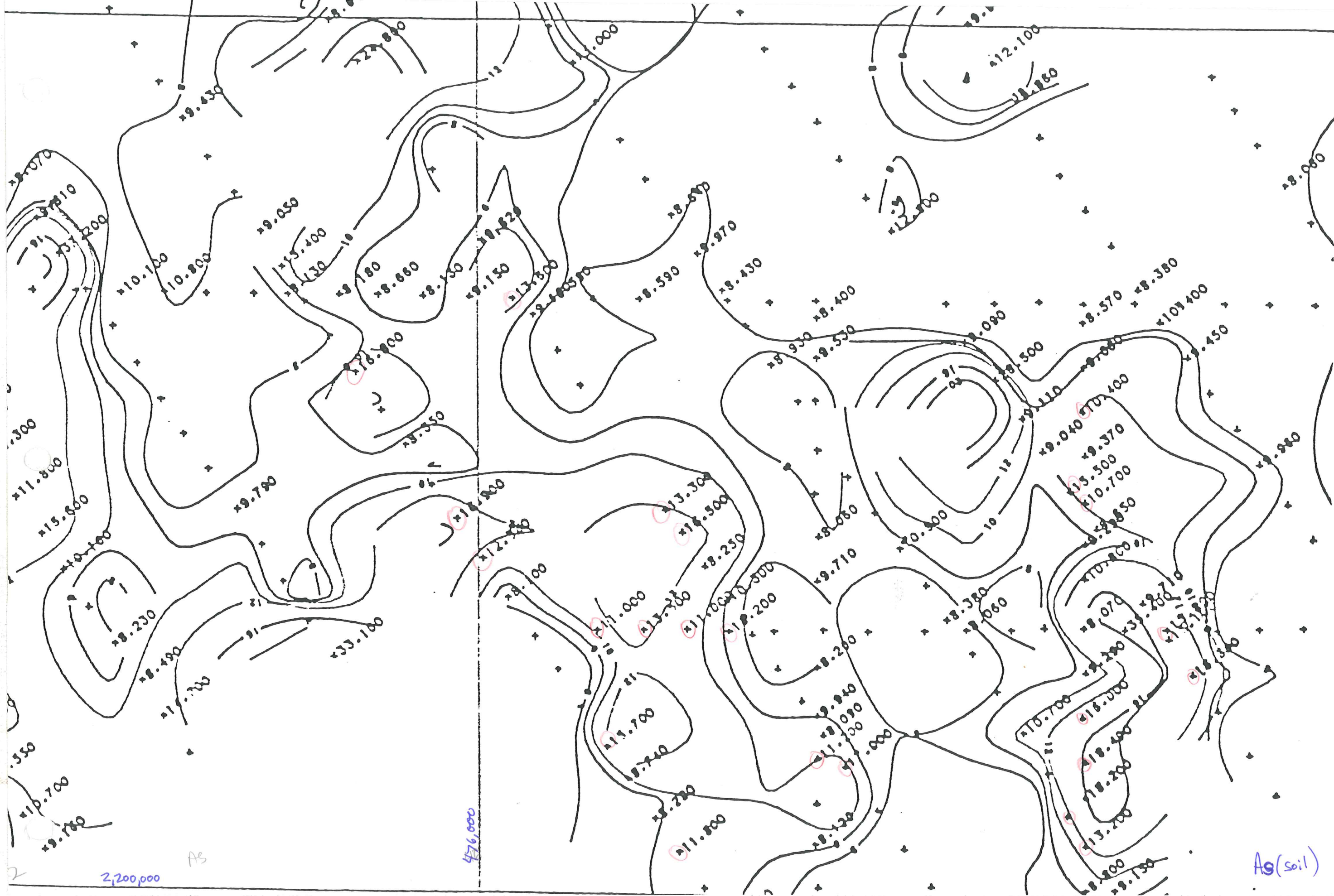
235-240 .031  
 320-330 .056  
 395-400 .016  
 512-517 .024  
 685-887 NA  
 892-902 .016  
 911-947 .017  
 965-989 .024  
 996-1042 .017  
 1052-1062 .027  
 1107-1113 .013

\* Four beach Expt.  
 October 5 ±

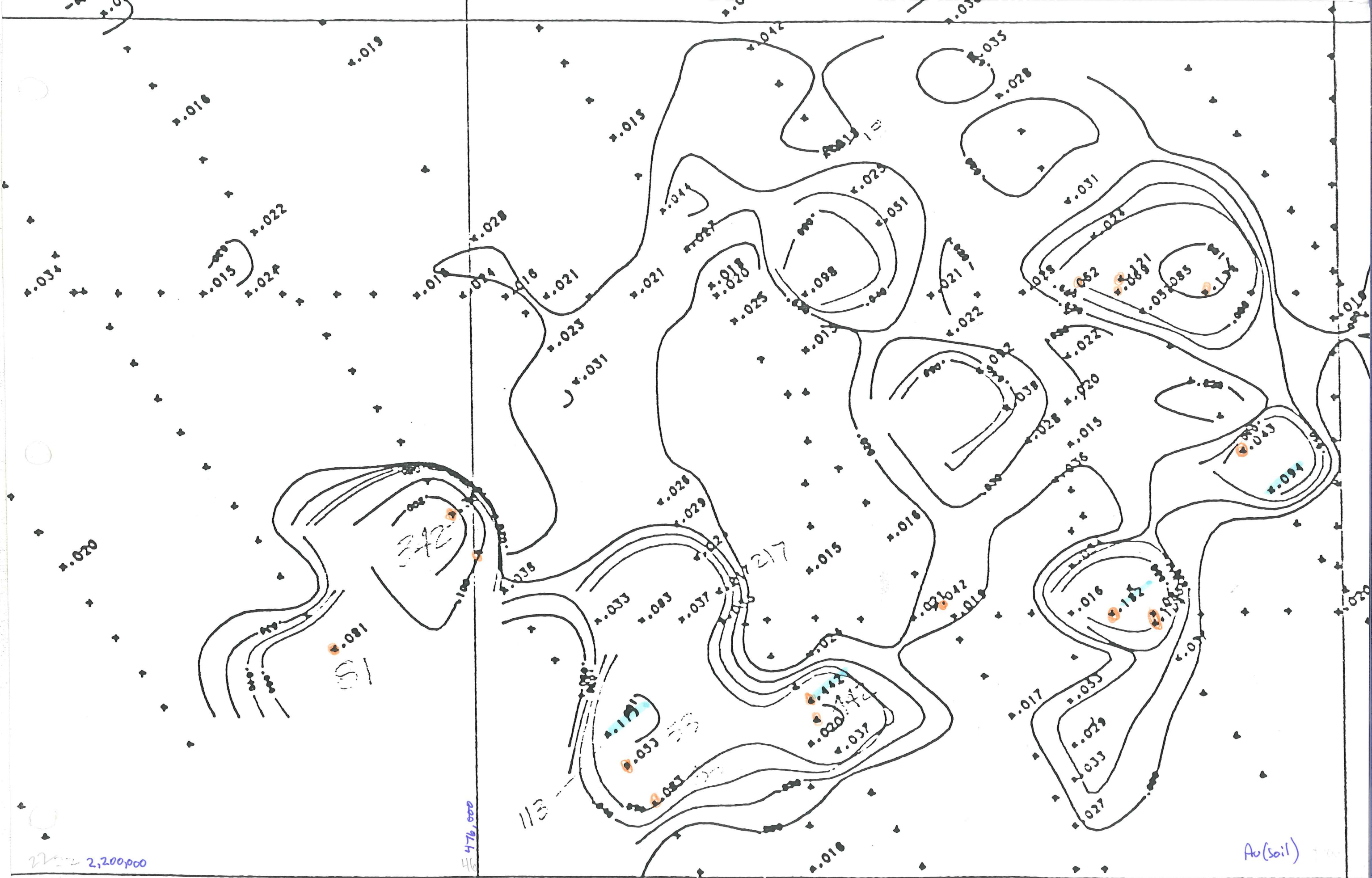
21  
 107  
 3

✓ RL 70 S55E -68 1012  
 could not top.  
 0-917 Tbs? difficult log  
 917-931 fault

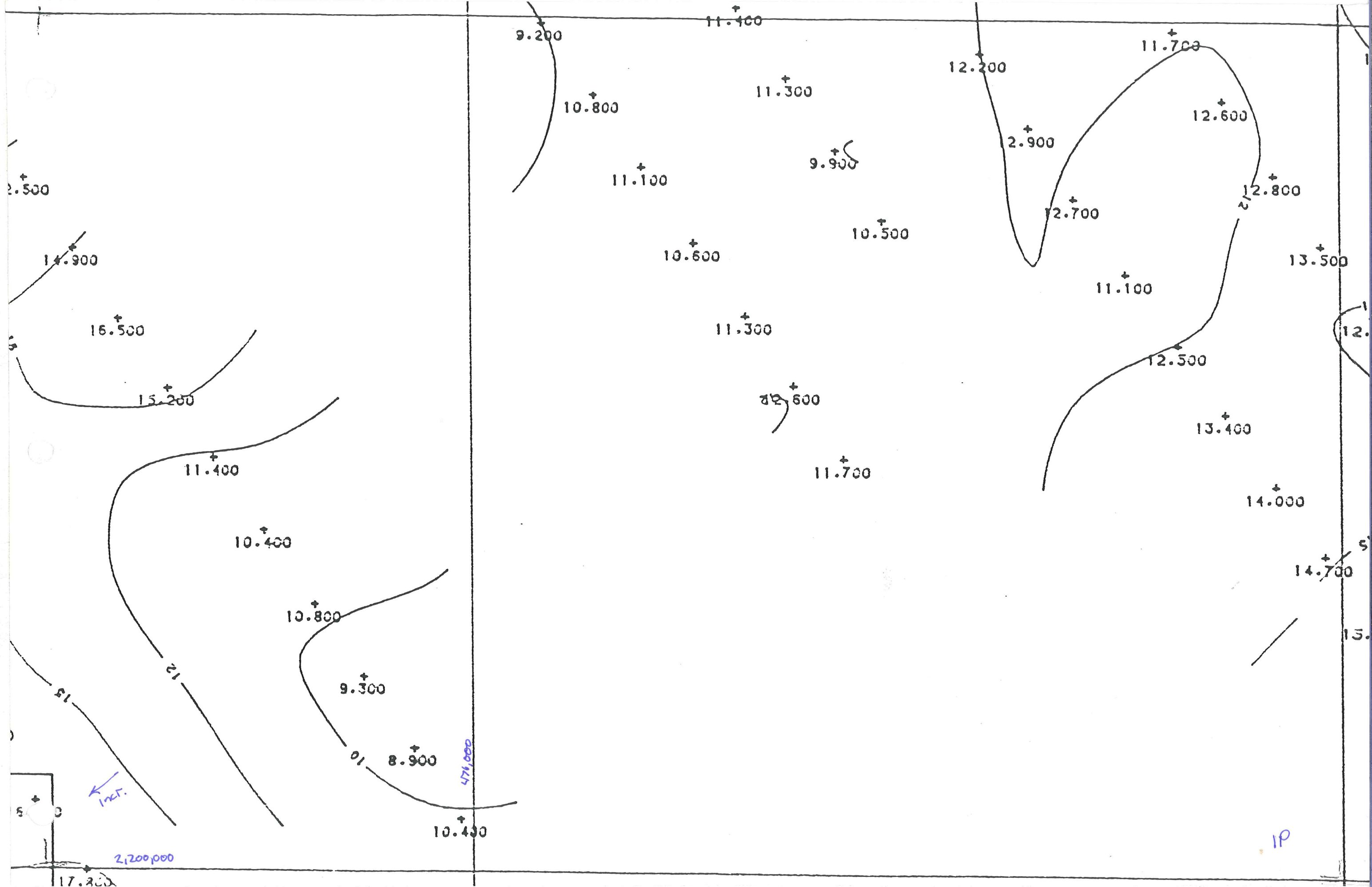


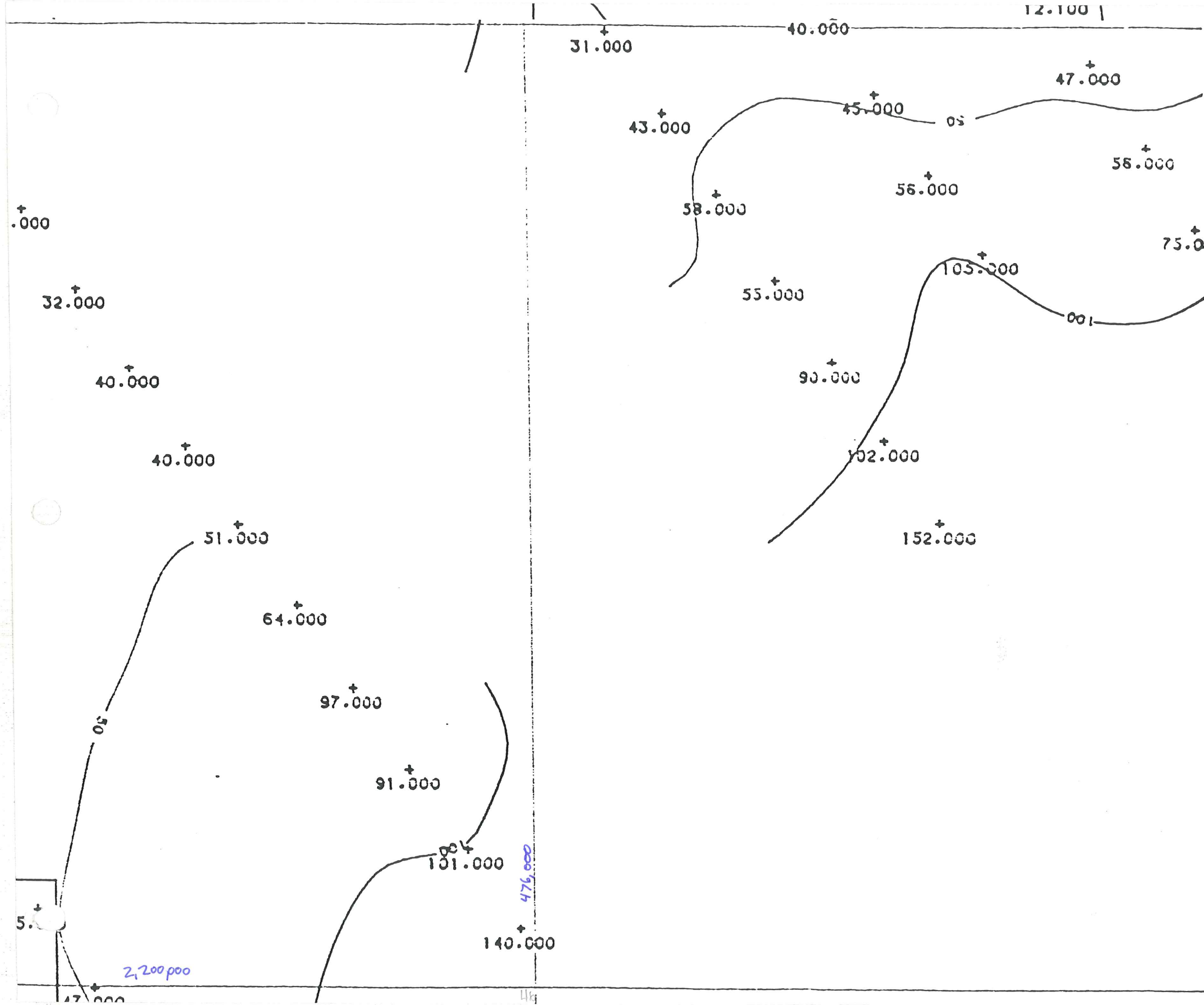








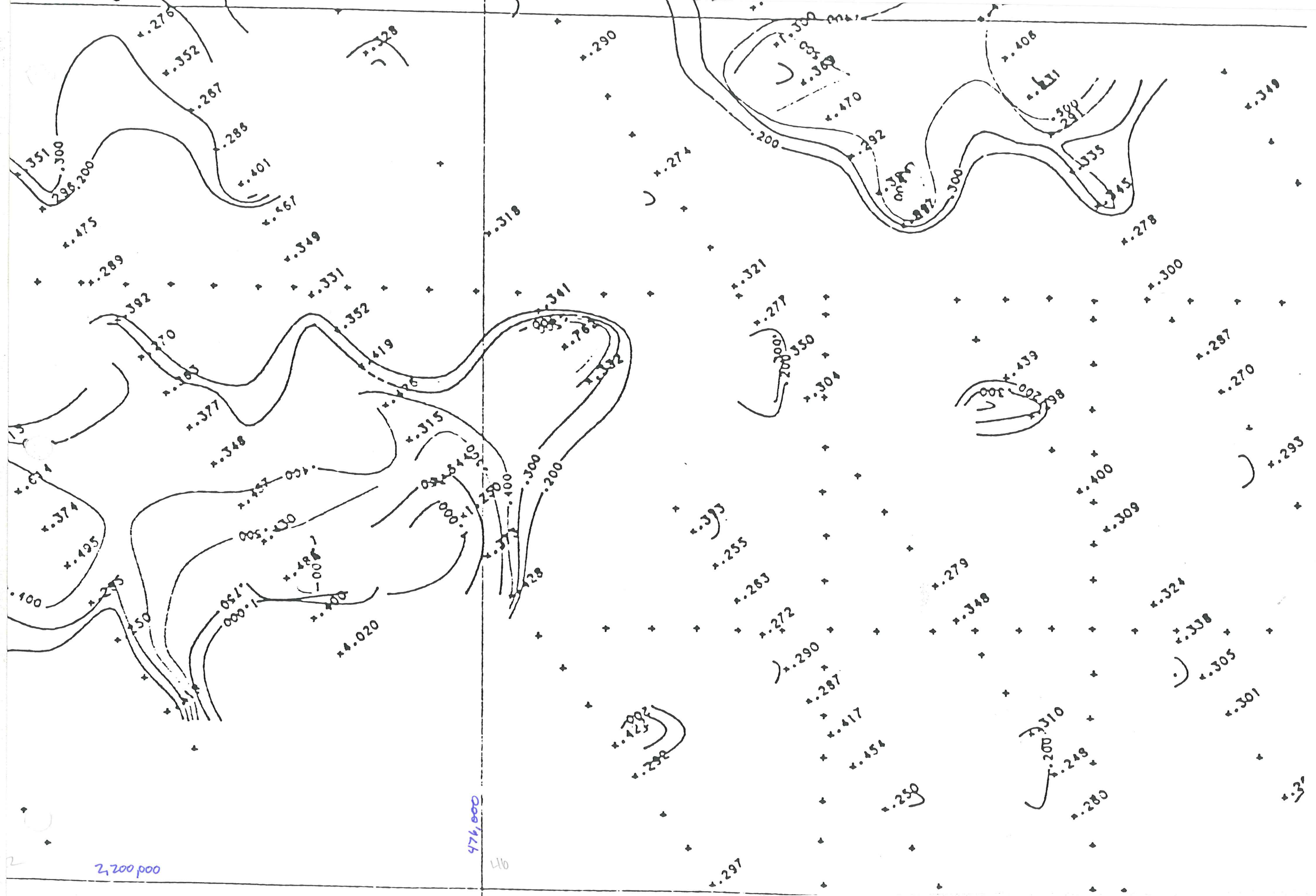




RESISTIVITY









VALLEY

# ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC: VALLEY  
HECLA: -  
BRADY: -

## GENERAL DESCRIPTION

north side of Rosebud shear under Tb cover. Possible offset area to Dozer Hill Zone. Write-up mentions "north-dipping E-W structures in Tb coincident w/ IP anomaly".

## GEOLOGY

valley covered by Qal + Tb

## GEOCHEMISTRY

|        |                |    |
|--------|----------------|----|
| Soil - | basically dead | Au |
| "      | "              | As |
| "      | "              | Sb |
| "      | "              | Se |

## GEOPHYSICS

resistivity looks flat - could be viewed as a slight low

Broad IP high just south of RL-111C and west of RL-260

## DRILLING

11 holes and have all results. scattered values in RL-274, 74, 77 and 111C, and 56 most interesting is in RL-111C where went through fault. 785-831 (Rosebud?) then sandstone and siltstone (Tbs) w/ good gold values. Under IP anomaly

## REMAINING POTENTIAL

Looks interesting need more hole data.



## Southwest Valley

no surface rock chip anomalies - Tb,  
weak spotty soil gold 10-40 ppb.

~~Recl.~~ condemnation drilling dead for tailings dam.

152; 274

Resistivity flat and featureless  
IP flat and featureless

Valley.

Scattered rock chip samples in Tb w/ 100-400 ppb Au.  
soils mostly dead through area for Au.

✓ RL-74 TD 935 N55W-60

0-110 Tb. grey brown.  
110-935 Lt green.  
poss flt @ 775

285-700

silicification + d-quartz. + 1% py + clay

dead to 270

270-935

Au.  $\rightarrow$  Ag  $< 0.4$  ppt  
.002 - .004  $\pm$  Au w/ spikes @ 320-325/.095 415-420/.053  
525-530/.079

✓ RL-77

TD 765 N55W -60

6-60 Tb

60-765

Lt. green.

Dead to 120  
.002-.005 120-235-240/.045  
w/ spikes @ 150-155/.056

~~60~~ 60-585 silicified.

Valley

?  $\rightarrow$  200ft @ mw-~~4~~ 10'/.09 Au 17 Ag. dls set 100' ww-1 200' 10' @ .12 Au  
5 Ag.

✓ RL-78 TD 745 N55W -60

0-45 gal

all dead.

45-110 Tb.

110-745

Lt. green.

345-380 fault? w/ silic  
510-525 fault?

150-~~400~~ 745 silic.

Valley

RE56

TD450 vert, 0-40 Tb?

40-450 Tc?

✓ 46-450 silic

dead to 55

65-90

.015 Au / 1.5 Ag

285-295 .05 Au / - Ag

55-450 .004 - .006 Au.

need 76, 111C, 260 150

RE-76

✓ TD 625 SSE - 60

0-50 Tb?

50-625

Lt green.

305-355 silic

0-50 dead.

50-360 .002 - .005

360-625 dead.

RL-111

TD 957

due south - 45

core hole.

0-65 Tb

785-931 fault.

✓ 65-177 Tc tuff.

177 - Tectonic bxa + tuff.  
-785

300 - TD silic.

\* 785-831 - fault

831-957 TD ss + sltst.

Tbs unit

0-142 W.A.

dead to ~~252~~ 957 w/ spikes @.

252-257 .039 Au / 0.2 Ag

879-884 .034 Au / - Ag

907-912 .025 Au / - Ag

922-927 .068 Au / .1 Ag

RL-150

✓ TD 700 SSE - 60

0-20 Tb

20-700

Lt green.

spikes @ ~~100-105 .04 Au / - Ag~~

dead. 585-590 .024 Au / 0.5 Ag

RL-260

✓ TD 800 vert.

0-30 gal

30-155 clay

155-790

790-800 J<sub>2a</sub>.

Lt green.

525-790 poss J<sub>2a</sub> fringe  
in tuff.

240-385 silic.

40-45 .023 Au / - Ag.  
rest dead.

need more dh to NE



Valley RL-152

✓ TD 700 N50E -45

0-385 Badger

all dead.

385-700 TC

✓ RL 274 600 TD Vert.

0-90 Tb?

220 ft

220-525 TC?

525 fault

90-220 TC?

525-600 T~~bd~~d ?

165-170 .037Au 0.1Ag

175-180 .035 0.1

195-200 .012 -

200-205 .014 -

440-445 .015 0.1

495-500 .018 -

505-510 .022 0.1

510-515 .010 0.1

515-520 .012 -

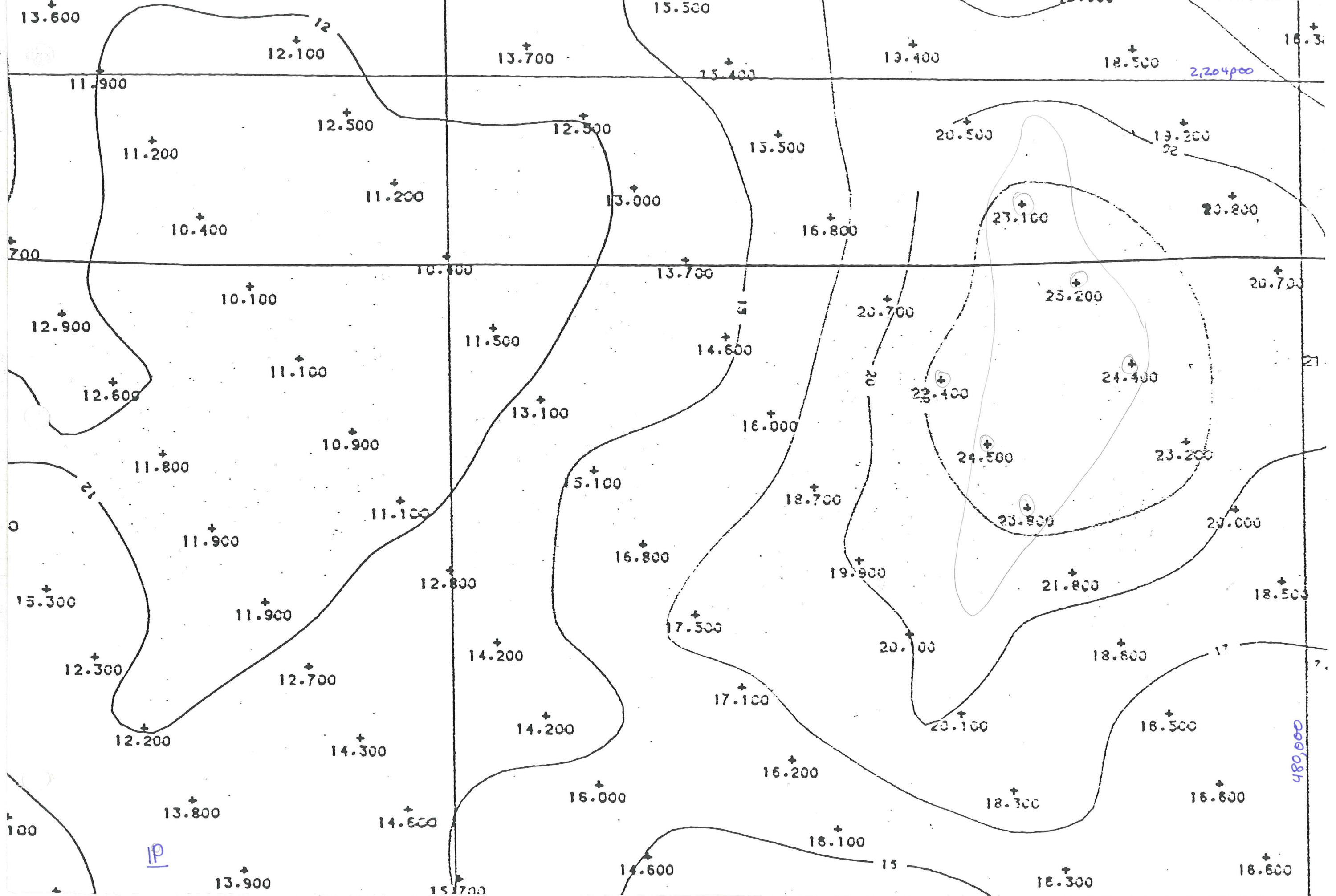
525-530 .013 -

535-560 .017 -

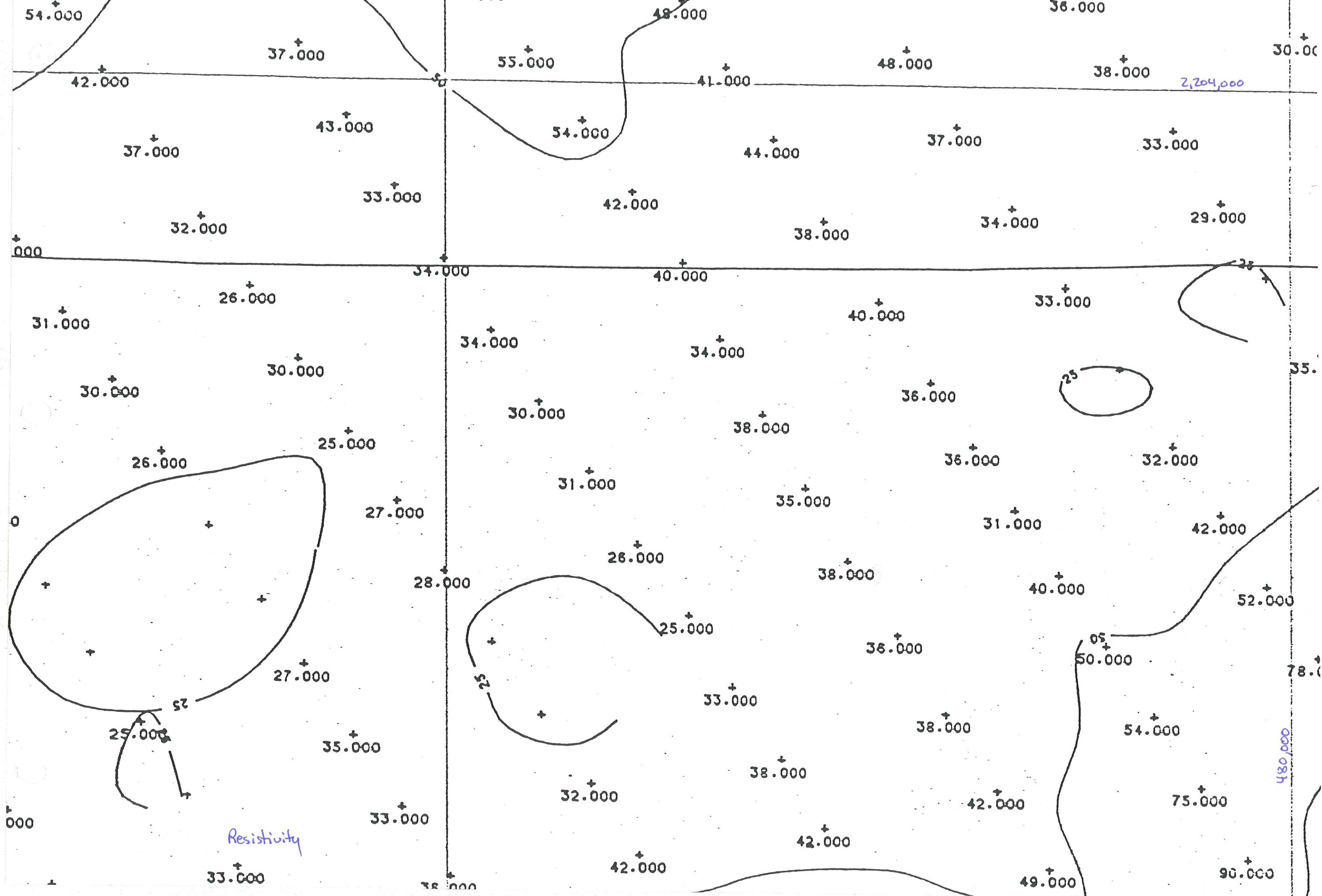
Resistivity flat and featureless.

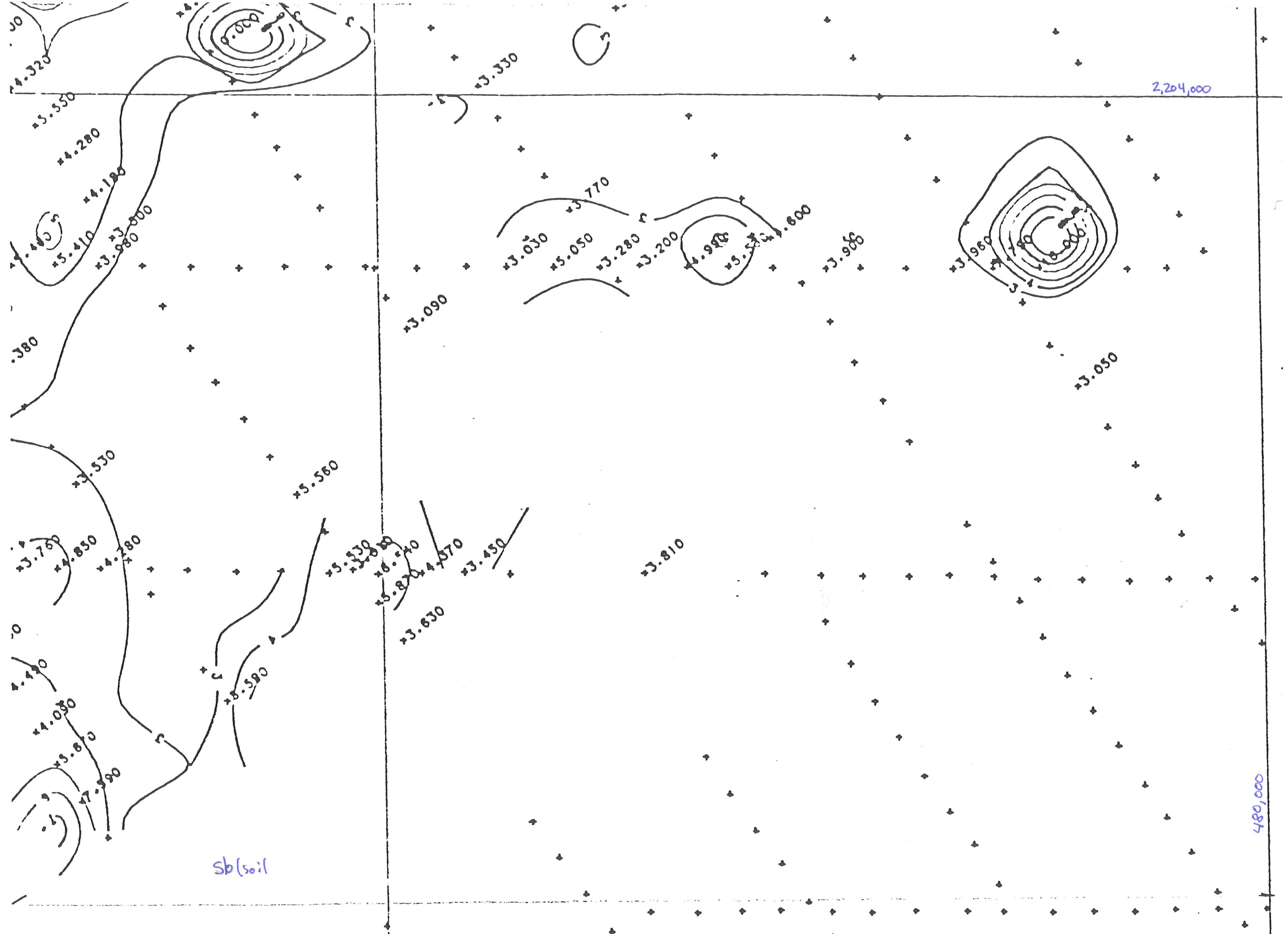
need copy.

Good IP anomaly from DH 56 to 260 then west 500'







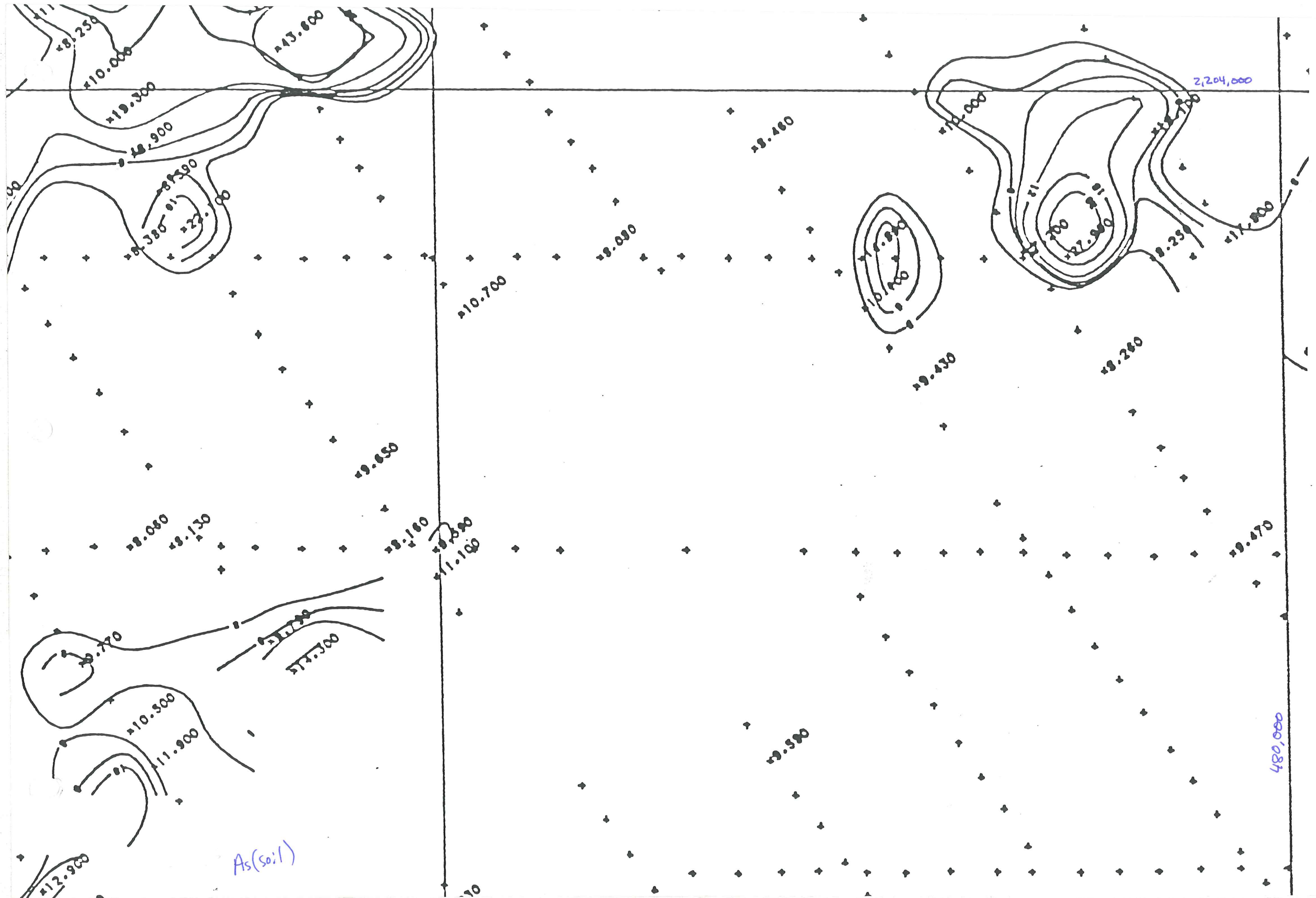


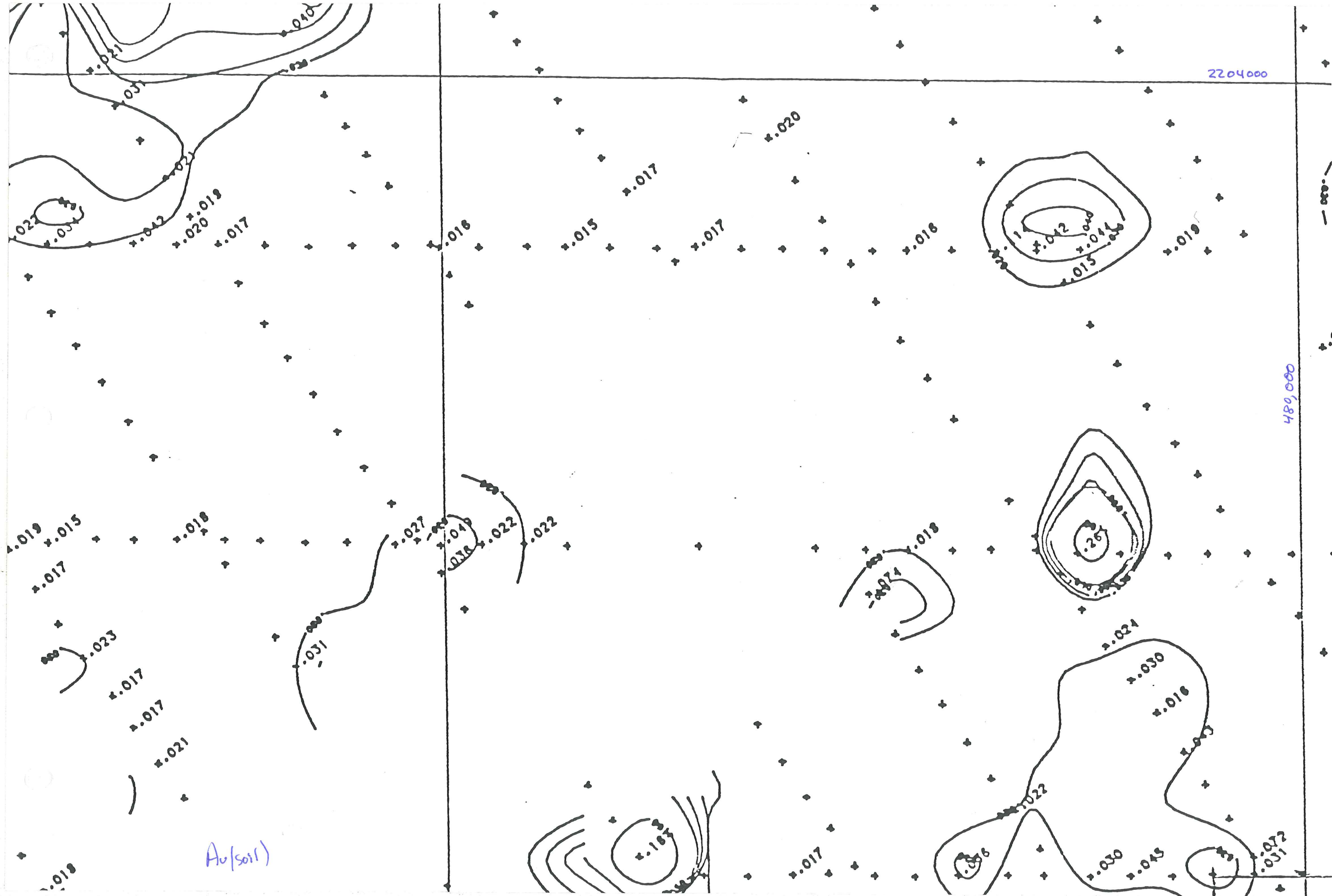
2,204,000

480,000

Sb(soil)





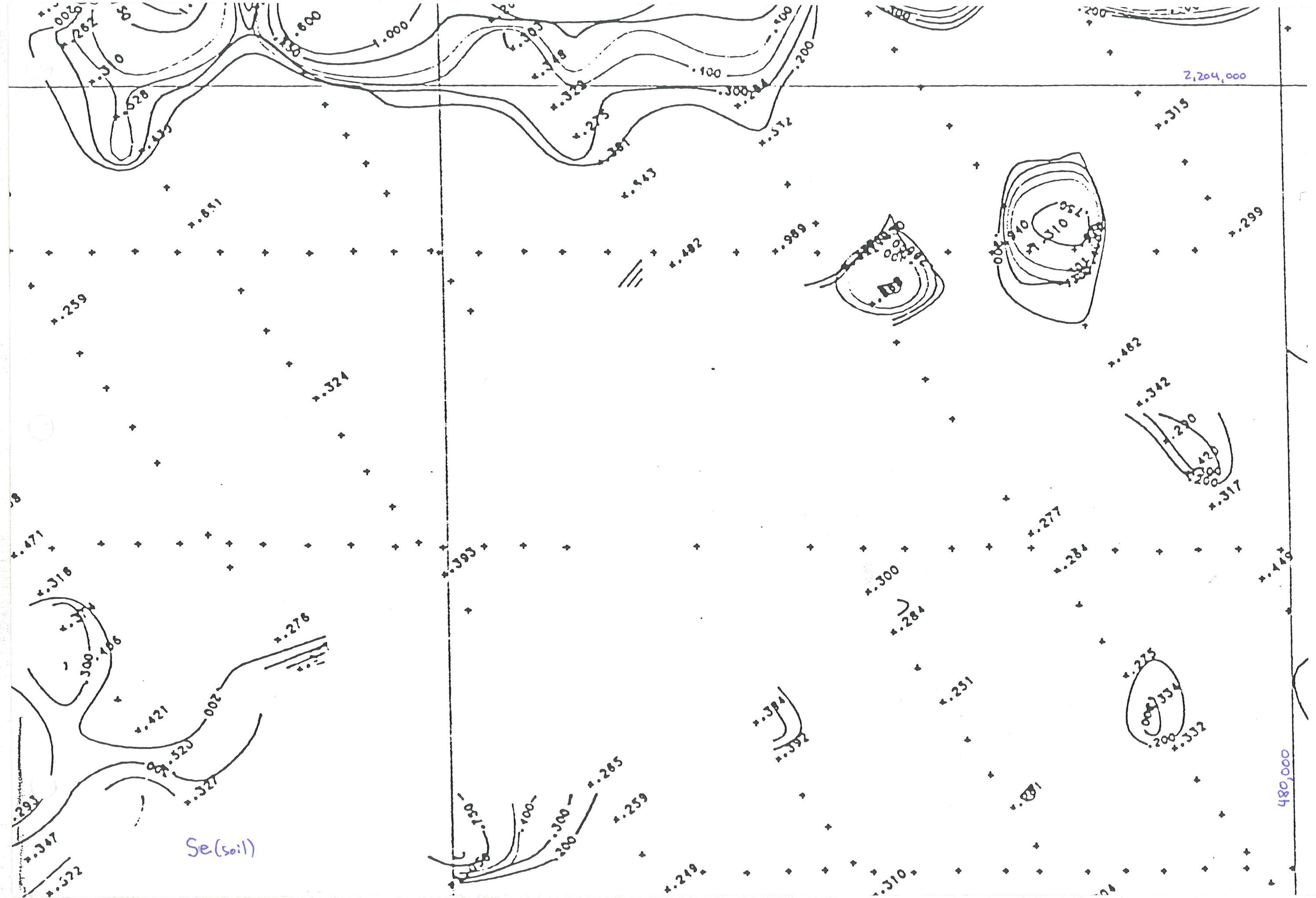


2204000

480,000

Au(soil)





Degerstrom



## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC: Degerstrom  
HECLA: —  
BRADY: —

### GENERAL DESCRIPTION

silicified NNW fault, west dip  $\pm 50^\circ$

### GEOLOGY

all Tc w/ Tri dikes

### GEOCHEMISTRY

Soil Au dead.

As dead.

Sb "

Se "

except along one soil line that looks like an assay error.

### GEOPHYSICS

resistivity — featureless

IP — slight increase for hangingwall of fault but no anomaly.

### DRILLING

RL-47, 48, 46, 49, 151

R46 + 48 hit fault  $\rightarrow$  20-25 ft @ 0.01 to 0.03

RL-151 hit several intervals 10-15 ft @ 0.01-0.04

### REMAINING POTENTIAL

Tested, no further interest justified.

Degerstrom 46, 47, 48, 49, 151

RD-46 430 TO N31E -60

0-430 TC

70-90 @  $.013 \text{ Au} / .013$  - Ag 50 ft.

RD-47

rest dead.

TO 490 N81E -60

0-25 TC

25-45 ~~fault~~ Tbs<sub>4</sub>?

45-327 TC

all dead

327 fault

327-445 TC

445-455 fault

455-490 TC

RD-48

TD 440 vert.

30-55 @  $.034 \text{ Au} / .01 \text{ Ag}$

0-440 TC

rest dead.

RD-49

TD 545 S25E -61

0-240 Tbs<sub>4</sub>

all dead

240-545 TC

RL-151

TD 500 N30E -60

0-50 Tb

0-310 bl + clay

50-500 TC

175-185 /  $.011 \text{ Au}$  ~~0.1~~ Ag

205-210 /  $.030 \text{ Au}$   $.027 \text{ Ag}$

240-250 ~~0~~  $.040 \text{ Au}$   $.01 \text{ Ag}$

275-290  $.011 \text{ Au}$   $.024 \text{ Ag}$

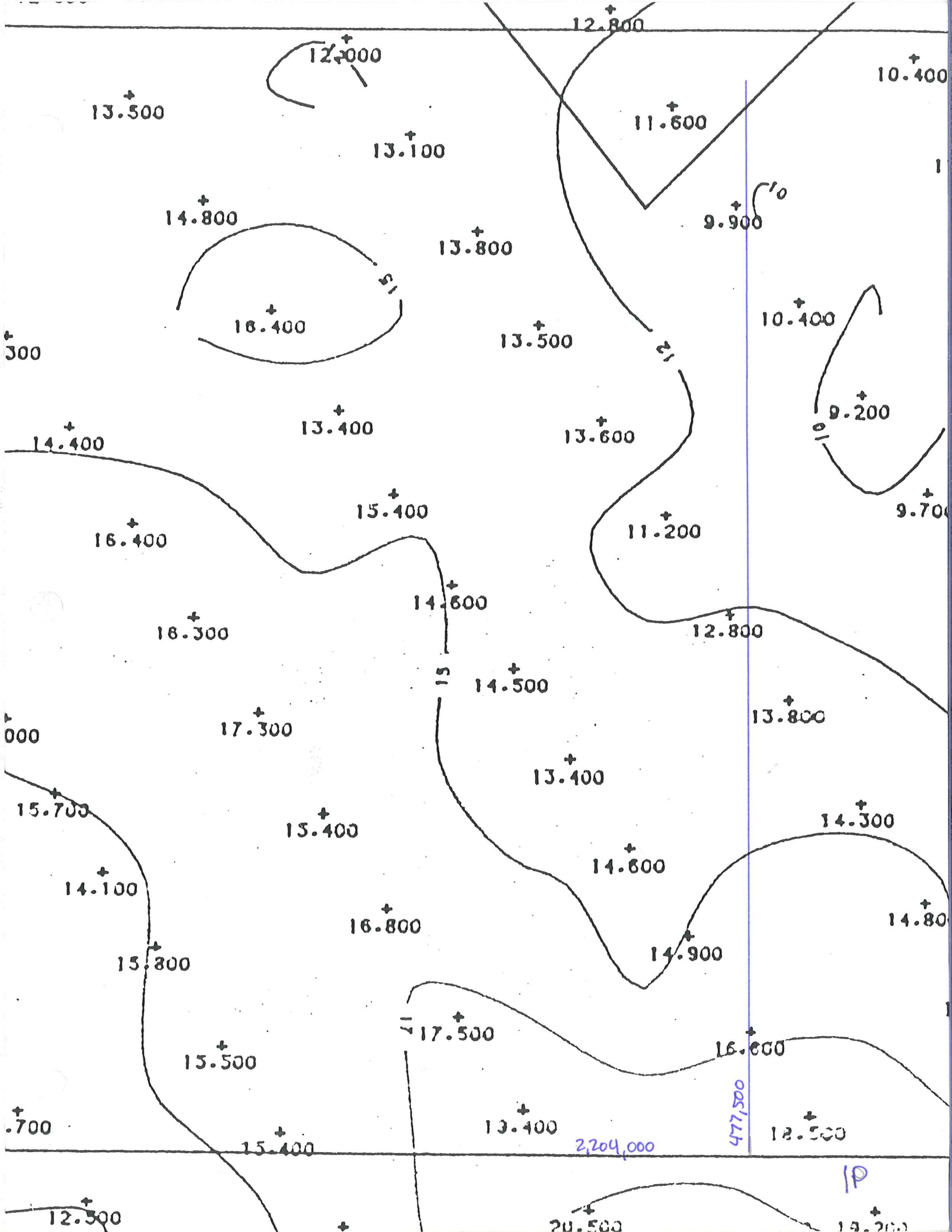
rest dead.

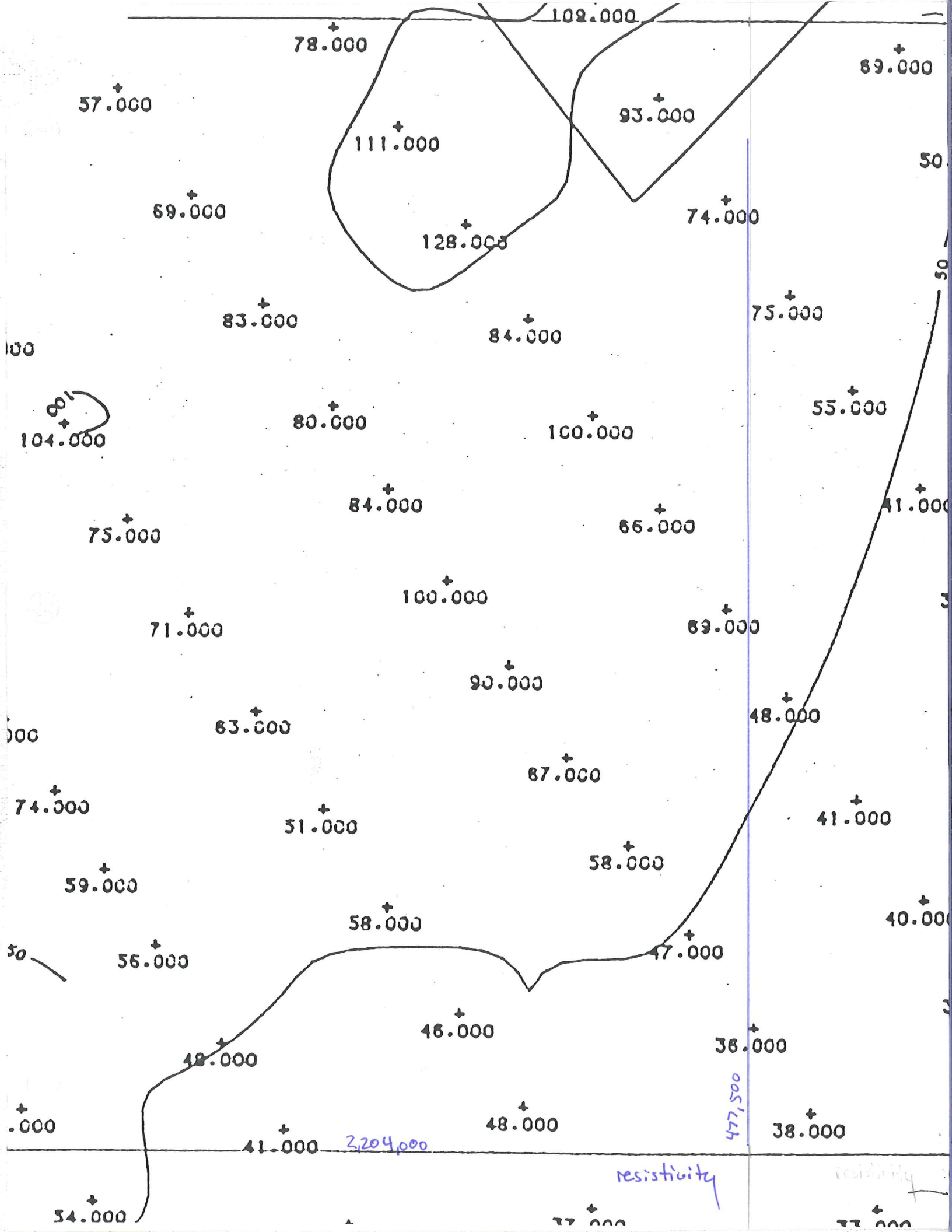
Resistivity flat and featureless

1 Panoramic offset to west 800 ft

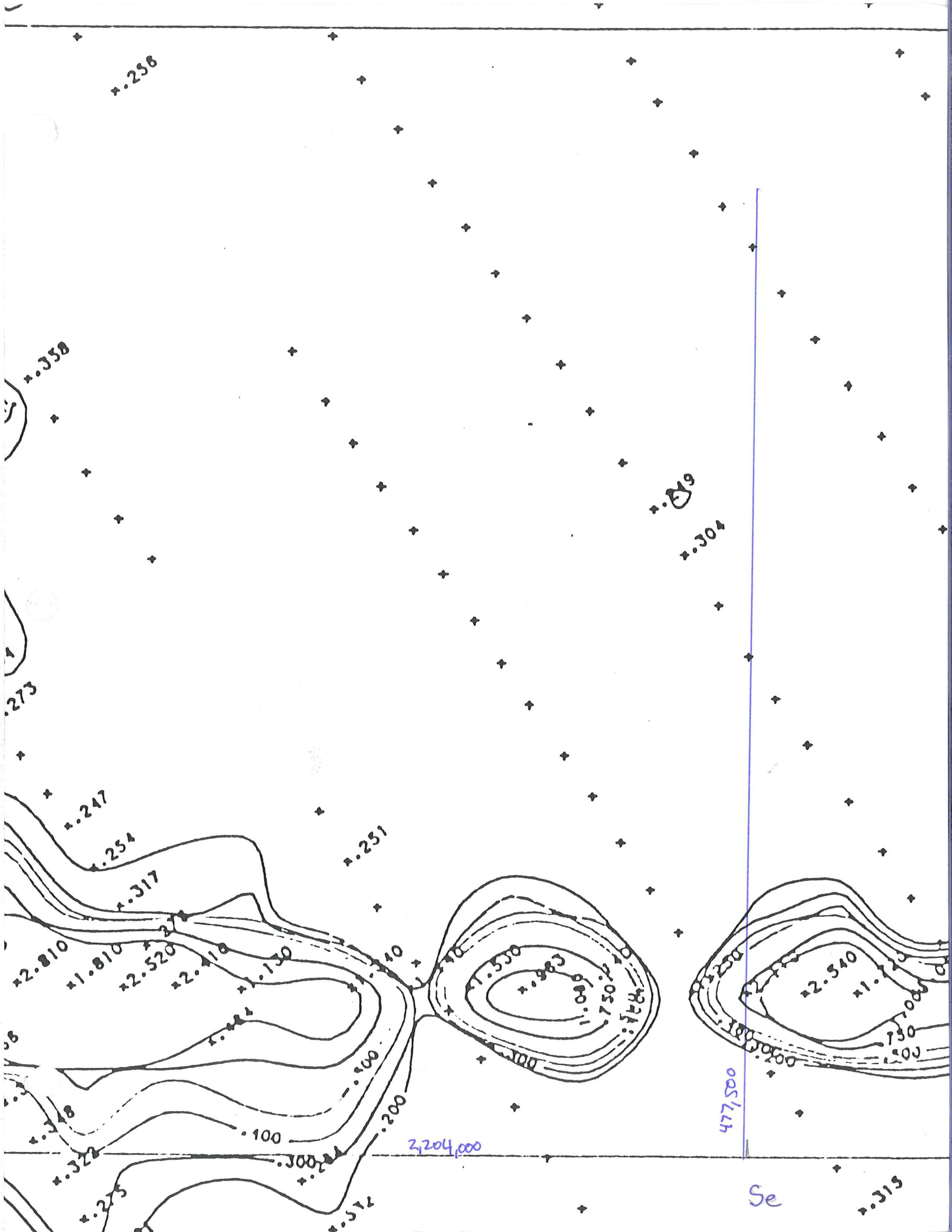
Tbs<sub>4</sub> possibly underlie show Tri dike  $\rightarrow$  bleached?

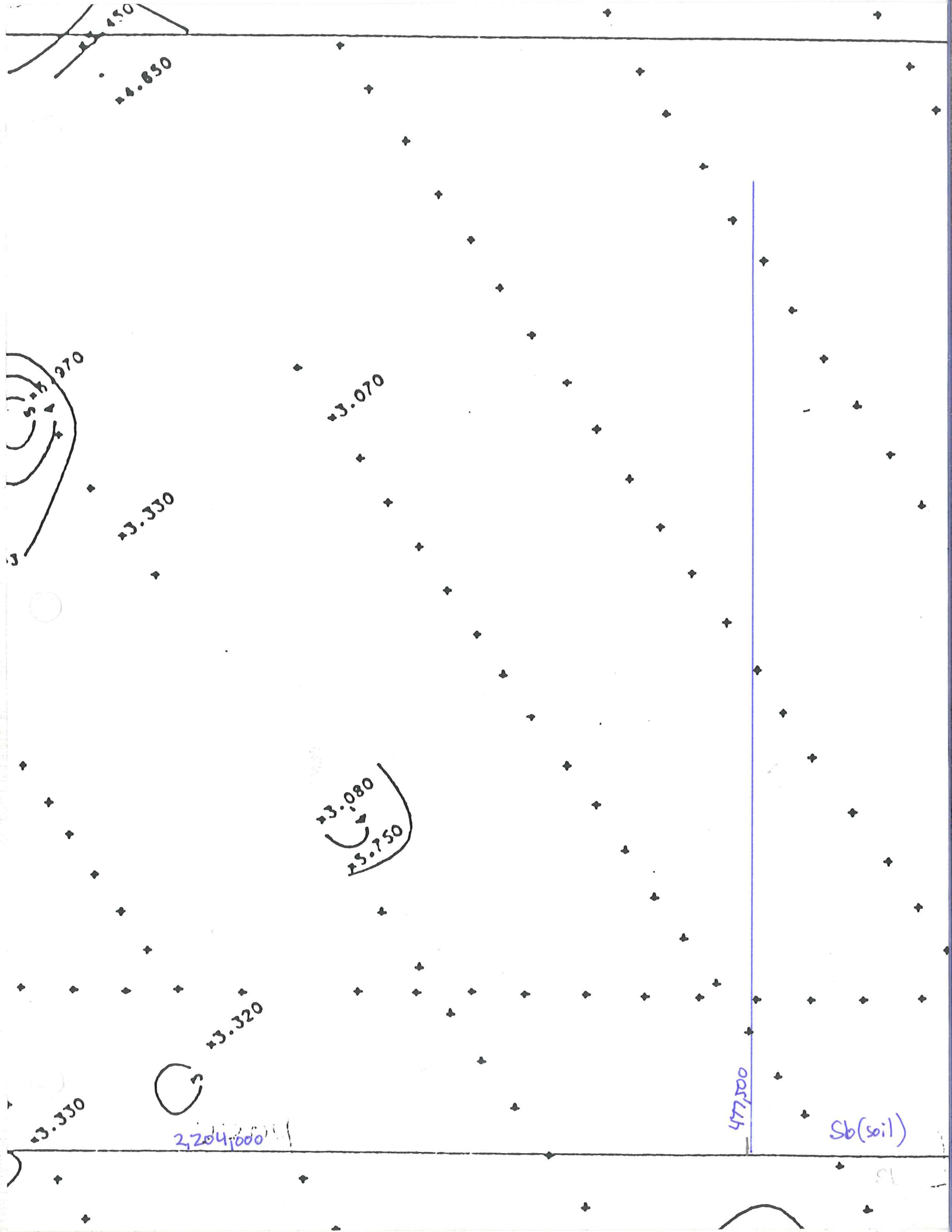




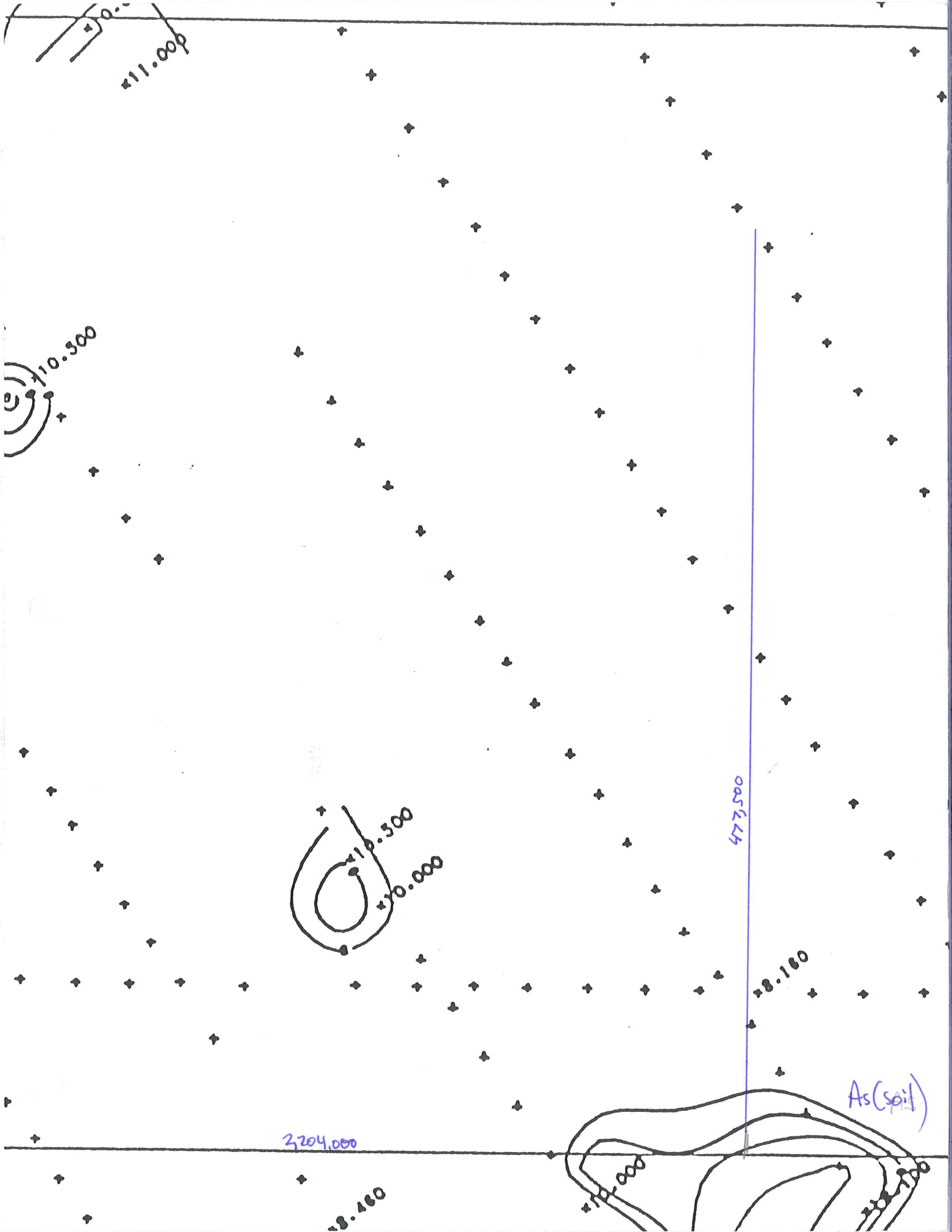


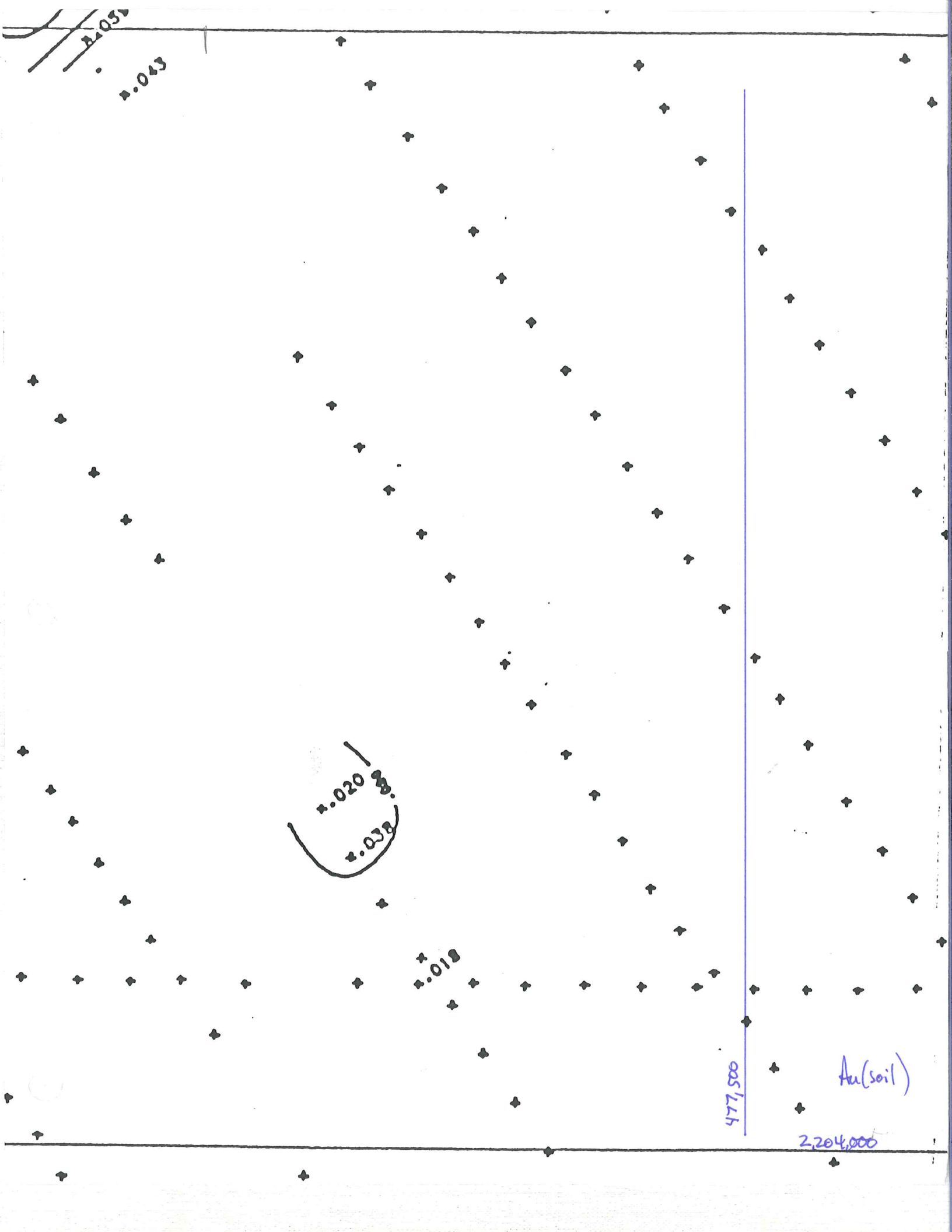














Dreamland

## ROSEBUD PROJECT

### TARGET NAME

EQUINOX/LAC: Dreamland

HECLA: Dreamland

BRADY: Target VI

### GENERAL DESCRIPTION

Dreamland intrusive into the Tc unit. Both the intrusive and intrusive contacts look prospective.

### GEOLOGY

### GEOCHEMISTRY

Soil strong gold along n. intrusive ctc. (+ 100ppb)  
" arsenic " " " " (+ 20ppm)  
" antimony " " " " (+ 10ppm)  
" selenium " " " " (+ 2ppm)

### GEOPHYSICS

IP. weak high along N. intrusive ctc. w/ best just west of RB-8 where shafts in valley through Tb.

resistivity - both highs along N. intrusive ctc (clay?) and lows south ctc + NW ctc Drill holes targeted on lows looking for silic(?)

### DRILLING

need RL-223, 224

### REMAINING POTENTIAL

Very strong Au, As, Sb, Se along north intrusive ctc. only RB-5 drilled in area and it was the best hole. Need more drilling along ctc looking for Tbs unit in RD-16



41?

✓  
RB6, RB8 RB2 RL15 RL16  
✓  
RL276 RL290 RB1 RB5  
✓

need  
RB1,2,5b  
Asarco

TD 445 N19W -60

RD-16

O-60 TC

60-185? Tbsz

← lower ctm logs @ 225 but color change @ 185

185 - 300 TL

assays all dead.

TP 511 vertical.

0-45 Gal.

much sample caving, fault(?)s.  
all assays dead.

45-511 TC

all essays dead.

TD 547 -45 N12W

all dead except  $\approx 410-415 @ .024 \text{ km} / -1 \text{ km}$

0-547 TC?

0-25 gal

25-115 report abundant clay (green + brown + orange)  
and log it as clastic. (green)

Broad IP high from while dpp area extends SE through streambed  
with less response than picks ~~back~~ back up col trends SE to  
Doser hill. → argillic destruction of py?

and  $\Delta = S_1 S_2$  and  $\Delta = S_1 S_2$  are integers.

✓ OS-4 vert 340

0-340 volc.

pass rhy

all dead → looks unmineralized.

✓ no log for OS-5

### N. Dozer Hill

✓ Km-5 0-400 Tc dead.

✓ Km-6 0-30 Qal 0-230 Tc? 230-400 Tbs? dead.

✓ assays as shown. Km-4 0-80 Tc 80-245 Bud 245-365 FGT 365-470 Bud 470-600 FGT

540E-50 ✓ Km-8 0-125 Tc 125-465 Bud 465-600 FGT assays as shown.

✓ Km-10 0-60 Tc 60-150 Bud 150-246 Tbs 246-380 FGT assays as shown.

### E Dreamland.

✓ N35W-70 RB-3 TD460 0-~~460~~ 460 FGT all dead.

~~125~~

### White Alps

✓ RB-7 TD300? 150-300 Bud bra. all dead.

### Dreamland

✓ RB-5 TD425 0-75 tuff w/alt. plag phenos

0-220 very anom throughout  
then drops off to dead.

OK to 60' ±

75-425 Tc?

✓ RB-1 TD500 0-235 Tc

235-260 anom 0.2-0.6 Au possible?

0-125 OK

260-380 Tc?

380-500 tuff intrusive — dead.

assays as shown.

✓ RB-6 <sup>0-</sup>TD400 365

all Badger

365-400 tuff intr.? (ex)

all dead.

✓ RB-8 0-145 Badger? 145-300 tuff intr.? (ex) all dead.

\* ✓ RB-2 TD460 0-30 Tc? 30-150 tuff intr.? 150-250 volcanic sed

250-310 intr tuff? 310-340 Tc? 340 → difficult to understand log

mostly dead. 0-35 ± 100 ppb Au.

## Dreamland

RL-223 vertical TD 700'

0-5 Qal

0-465 Tuff? w/p lq phenos

465-700+D pheno argillic  
fine grained tuff  
TC

45-100 @ .010

235-245 @  $\frac{.004}{1.56}$  Ag.

35-160 silic

$\frac{ox}{unox}$  165'

220-255 silic

300-470 silic 470-475 fault

rest dead for Au or Ag.

RL-224 vert. TD 465

0-5 Qal

5-110 fine grained tuff

110-345 intrusive tuff?

345-400 Ct.

400-465 intrusive tuff?

90-95 @ .016/.2

0-385 all dead

385  $\rightarrow$  TD no assays.

110-345 arg phenos noted.

$\frac{ox}{unox}$  175'

0-110 silic

argillic

180-345 silic

400-465 silic

## Oscar

St Joe logs. 10/82

OS-1 500 vert.

0-70 tuff

70-140 Ls.

140-290 tuff

290-500 gray green tuff

$\frac{ox}{unox}$   $\pm 280$

$\frac{ox}{unox}$   $\pm 120$

OS-2 TD 480 vert.

0-480 Tuff

0-50 .010 Au/1.2 Ag/100ppm As 205b/2 Hg

100-160 .010 Au/0.2 Ag/130 As/155b/1 Hg

rest dead

210-260 <.001/.1 Ag/80/10/0.2

Tes or TC?

300-350 <.001/<.05/15/<5/0.01

400-450 <.001 <.05/15/<5/0.03

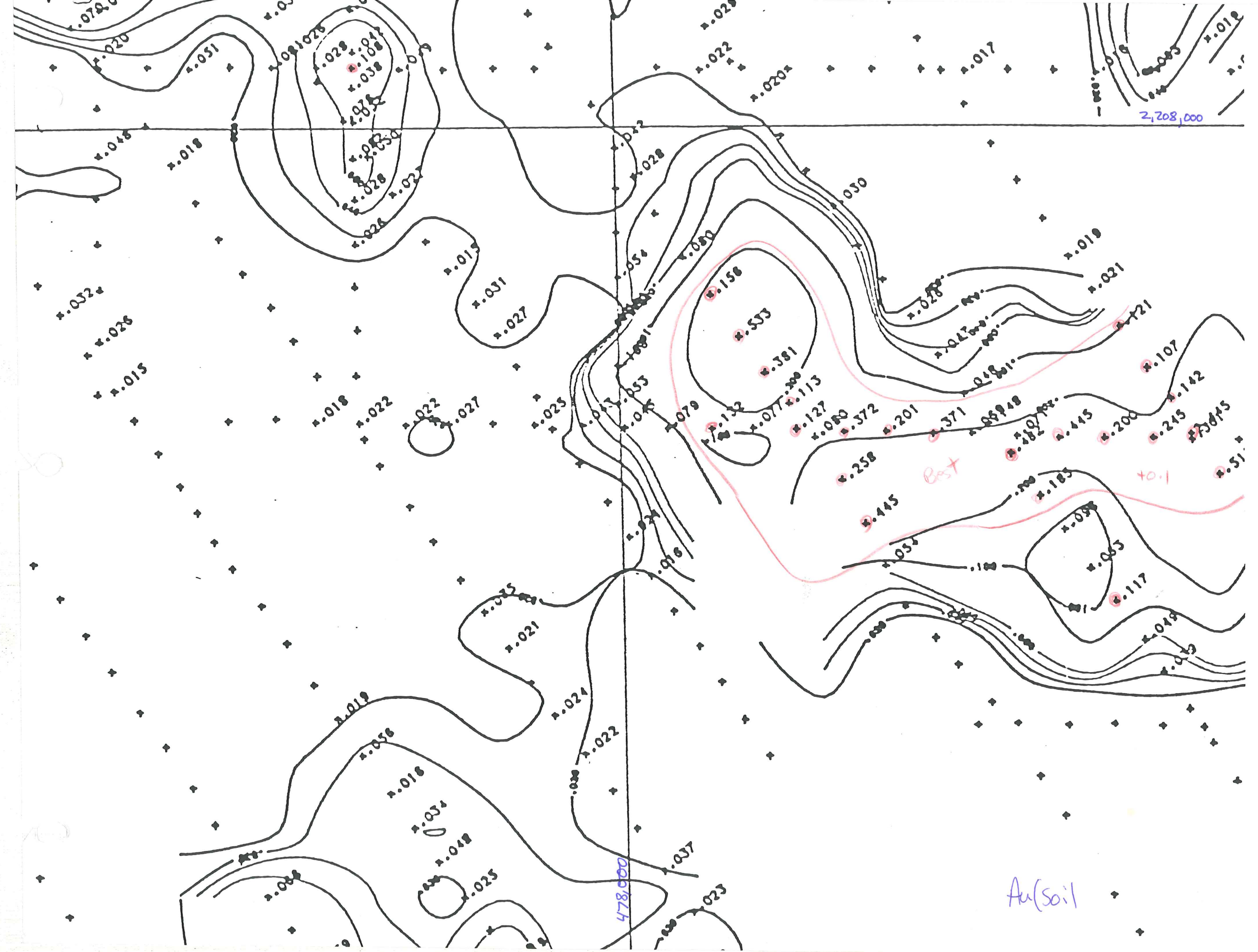
30-40 .010/-/35/29/0.4

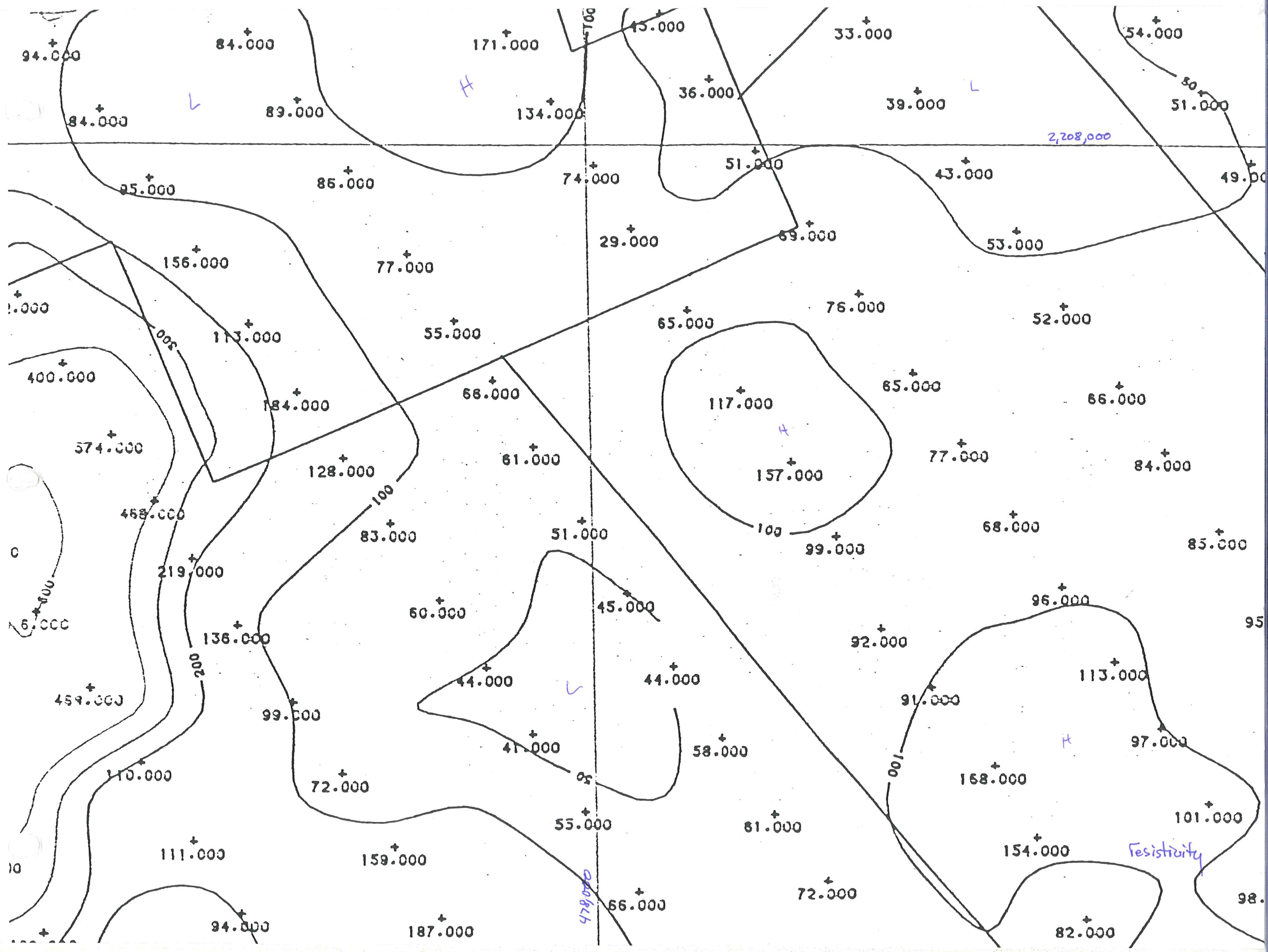
50-55 .010/-/55/60/0.7



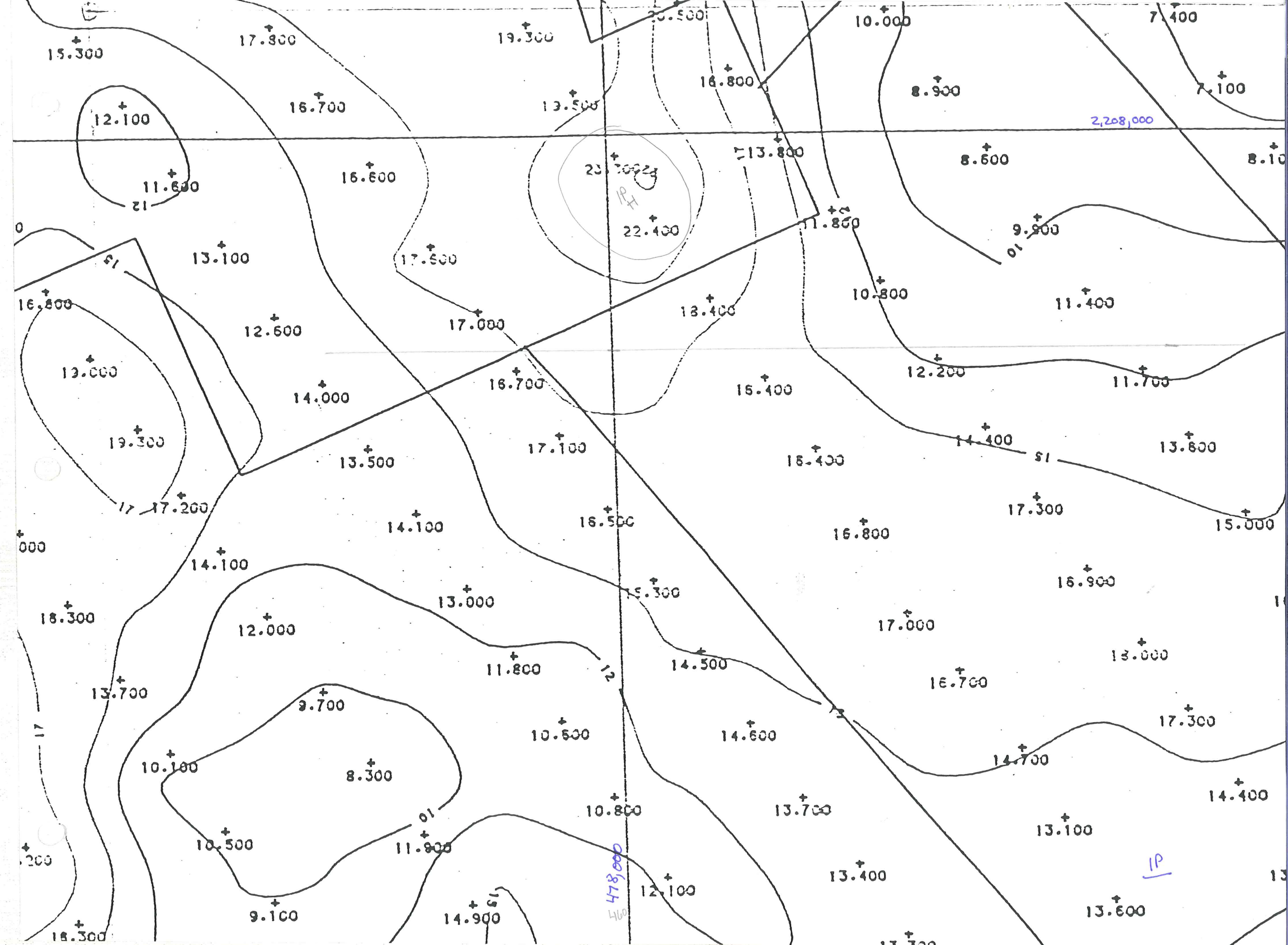


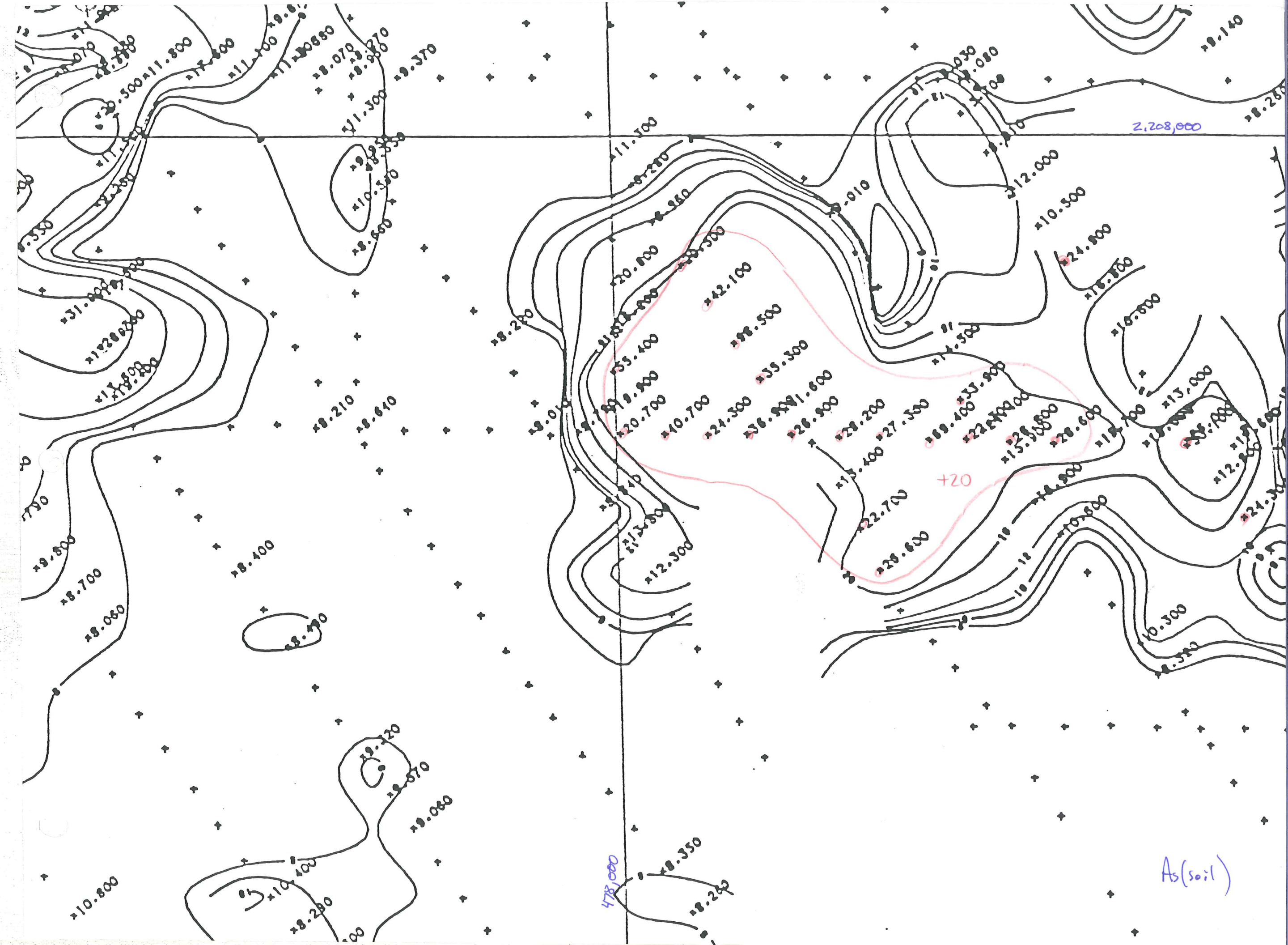




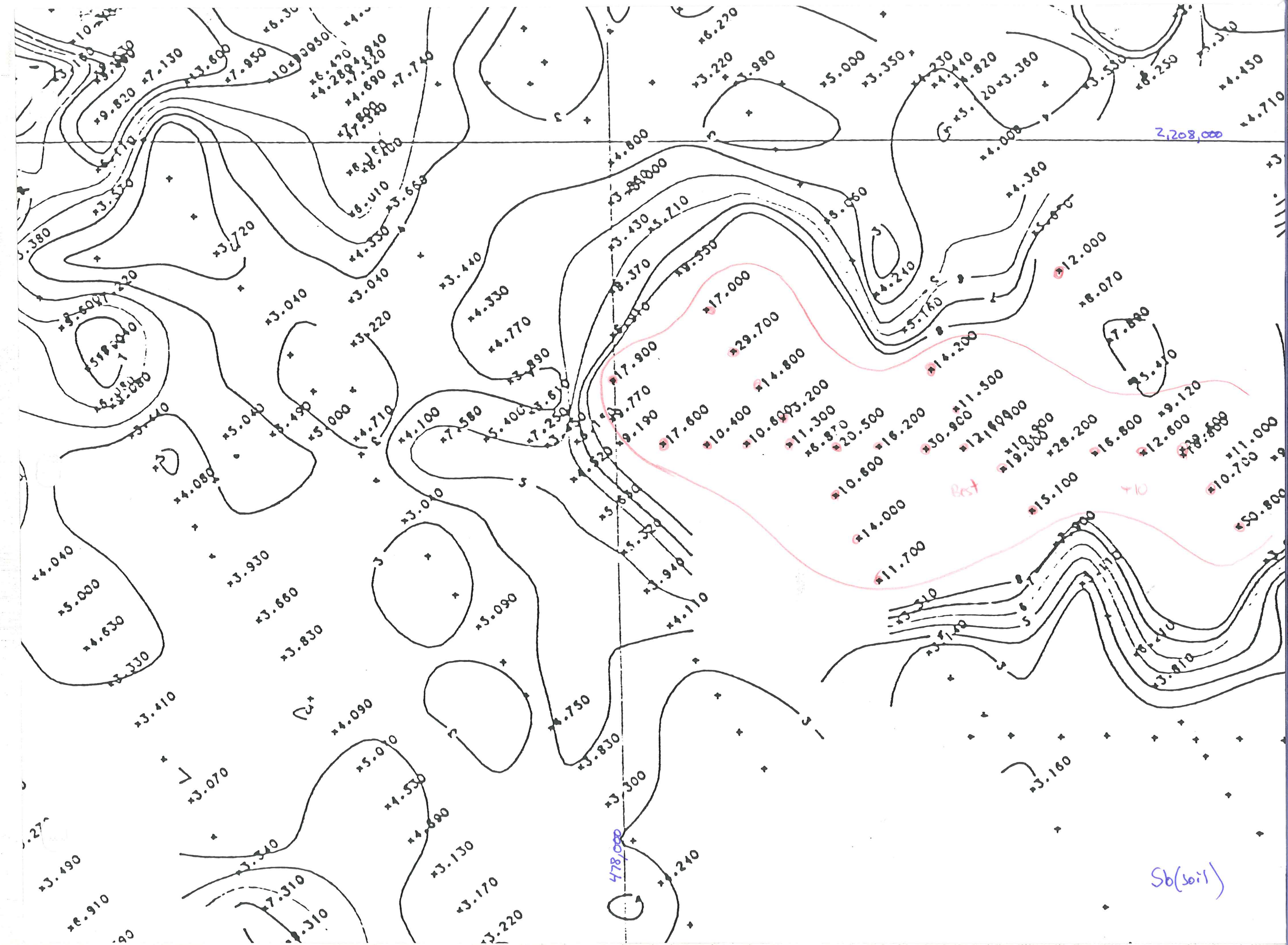










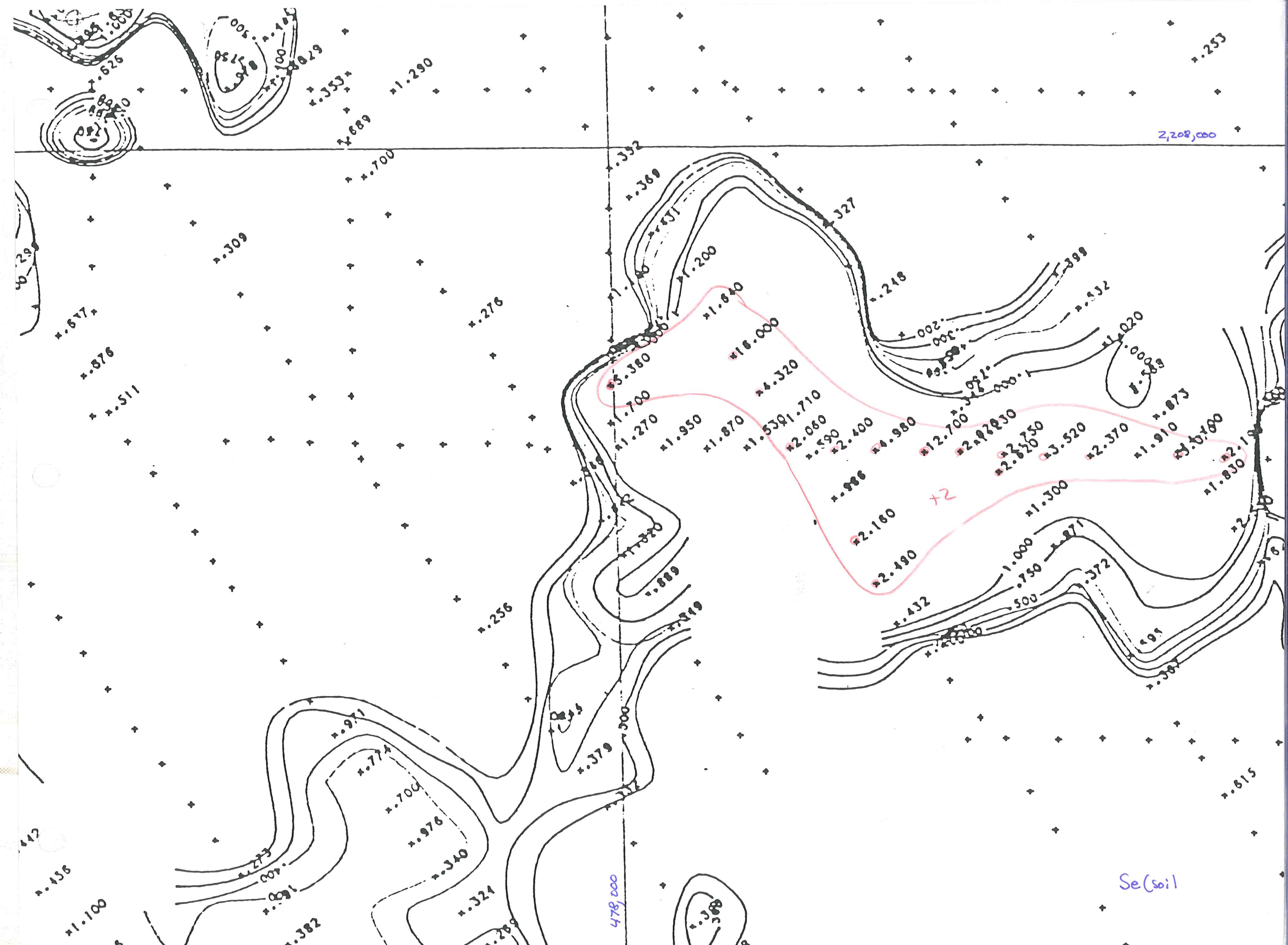


2,208,000

478,000

Sb(soil)





WHITE ALPS



## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC : White Alps (both sides)  
HECLA : White Alps (west side)  
BRADY : Target V

### GENERAL DESCRIPTION

Tc cut by white alps silicification.

### GEOLOGY

### GEOCHEMISTRY

soil - scattered anomalies on steep slope mostly tested w/ completed drilling.

### GEOPHYSICS

Resistivity - weak high east of RL+80 & weak low west of White Alps.  
IP - broad high east of RL+80.

### DRILLING

9 drill holes scattered east of white alps on questionable targets. None but old RB-7 (freepit) were drilled deep enough to test white Alps silic.

### REMAINING POTENTIAL

IP anomaly east of RL-80 w/Au (+50ppb), As (+10ppm) and As anomaly west of white Alps w/Tbs below.

Hecla white Alps on West side  
Lac white Alps both west & East side.

RB-7 don't have Asarco

RL-21

RD-21 TD 645 N41W -58

RB-7

Tc 0-645?

stony 350-375

silic 0-66, 195-230, 270-305, 345-400 455-580

all assays dead.

83, 20, 19, 79, 18 80 81?

RD-18 TD 465 N49W -61

0-135 TC

silic. 285-345 465

135-190 250 Tbs?

all dead except

190-250 TC -465

275-285 .021 Au 1.8 Ag

RD-19 TD 445 N70W -60

0-445 TC

0-235 silic

spikes @ 20-25 @ .016/0.2 75-80 @ .013/0.5 ~~dead~~ 120-135 @ 0.017/1.1

195-215 @ .052/1.1 215 → TD dead. 0-215 0.002-0.006

RD-20 TD 625 vert.

silic 0-55 120-150 195-320

0-625 TC

395-475

0-125 dead. 150-160 @ .009/1.5 ~~125-160~~ .002-0.004 160-220 .005

220-365 dead 365-400 @ .006 400-625 dead.

RD-79 TD 705 N44W -70

0-705? TC

silic. 75-640

0-220 dead. 220-520 .004-5 + 520-705 dead.

spikes @ 260-265 @ .012/0.1 290-300 @ .011/0.8 490-505 @ .014/1.5

RL-80 TD 675 N54W -45

0-675 TC

silic 0-550

0-186 -dead. 180-475 .002-0.04 475-675 dead. spikes @ 265-270 @ 0.01/0.8

295-300 .012/1.1

RL-81 TD 805 N45W -45

no silic

0-805 TC

— assays all dead —



RL-83 TD 815 N15W -60

0-815 Tc no silic

assays all dead.

IP anomaly slightly offset to east of holes 18, 79, 80

→ rock/soil geoch. anomalies @ surface but need to confirm.

284

E Dreamland.

N35W-70 RB-3 TD460

0-~~45~~460 FGT

all dead.

~~115~~

White Alps

✓ RB-7 TD300? 150-300 Bud bra. all dead.

Dreamland

✓ RB-5 TD425 0-75 tuff w/alt. plag phenos

0-220 very anom throughout

ox to 60 ±

75-425 Tc?

then drops off to dead.

✓ RB-4 TD500

0-235 Tc

235-260 anom 0.2-0.6 Au possible?

p-125 @ X

260-380 Tc?

corals as shown

380-500 tuff intrusive — dead.

4

✓ RB-6 <sup>0-</sup>TD400-365

all Badger

all dead.

365-400 tuff intr.? (ex)

✓ RB-8 0-145 Badger? 145-300 tuff intr.? (ex) all dead.

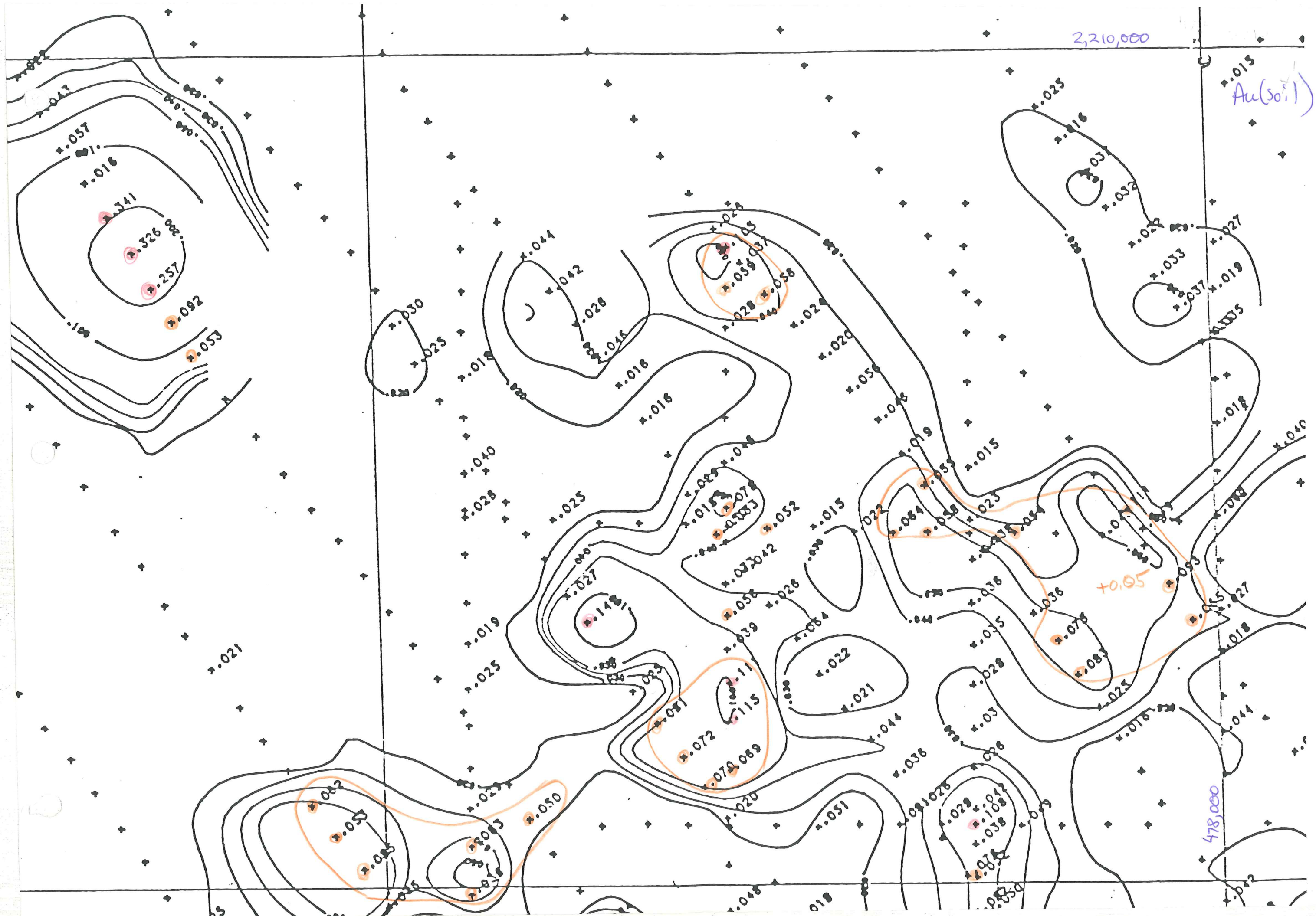
\* ✓

✓ RB-2 TD460 0-30 Tc? 30-150 tuff? 150-250 volcanic sed

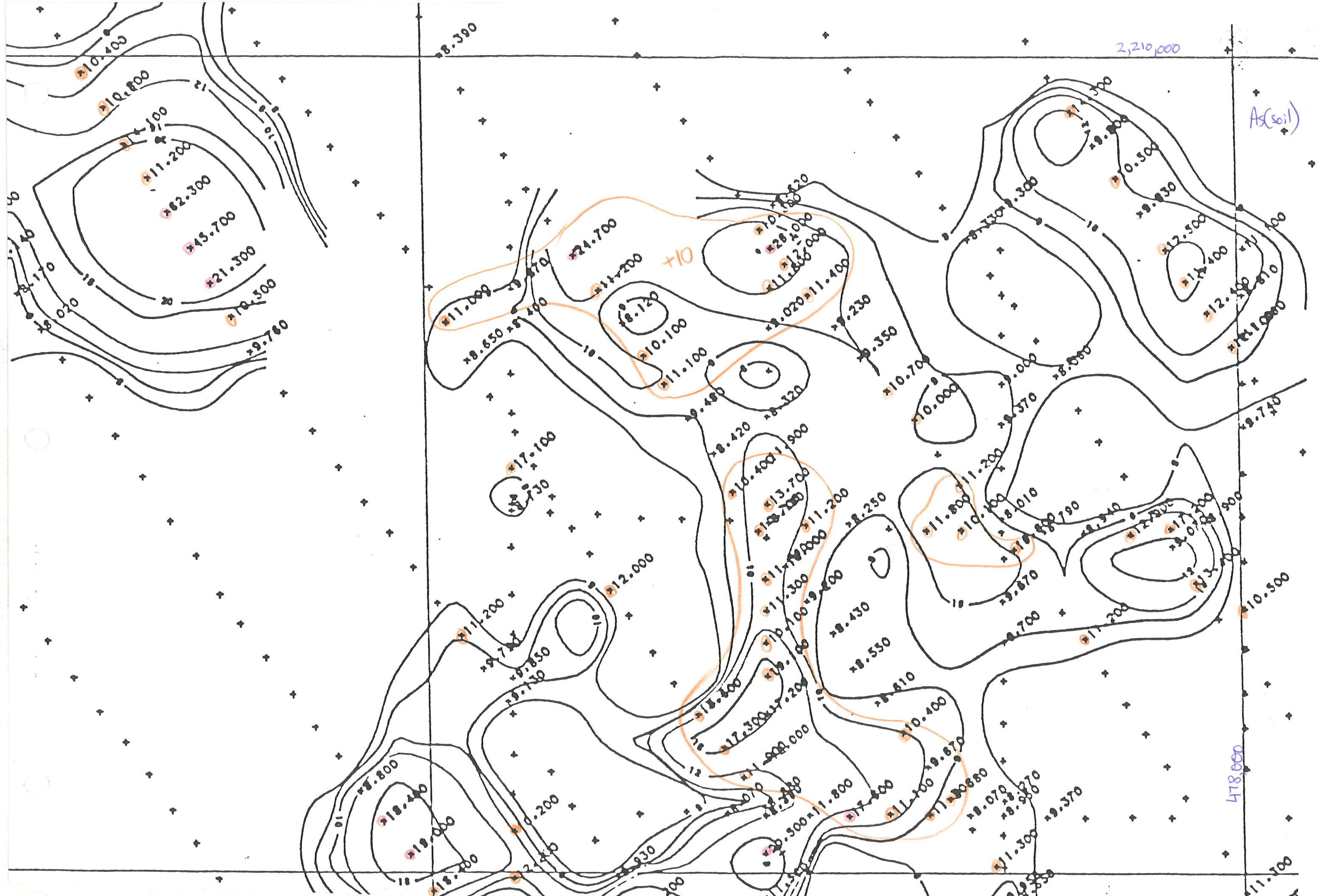
250-310 intr tuff? 310-340 Tc? 340-> difficult to understand log

mostly dead. 0-35 ± 100 ppb Au

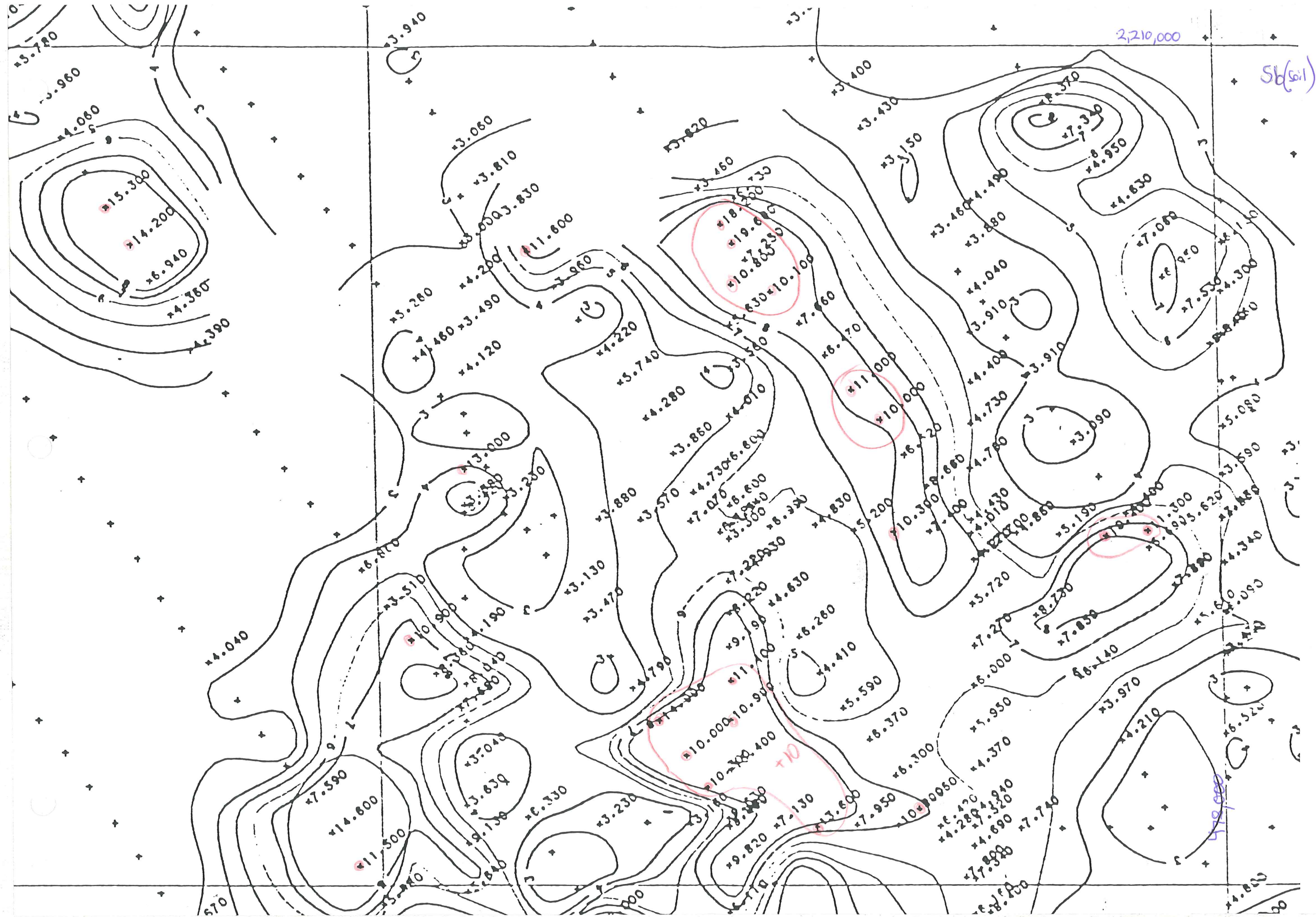




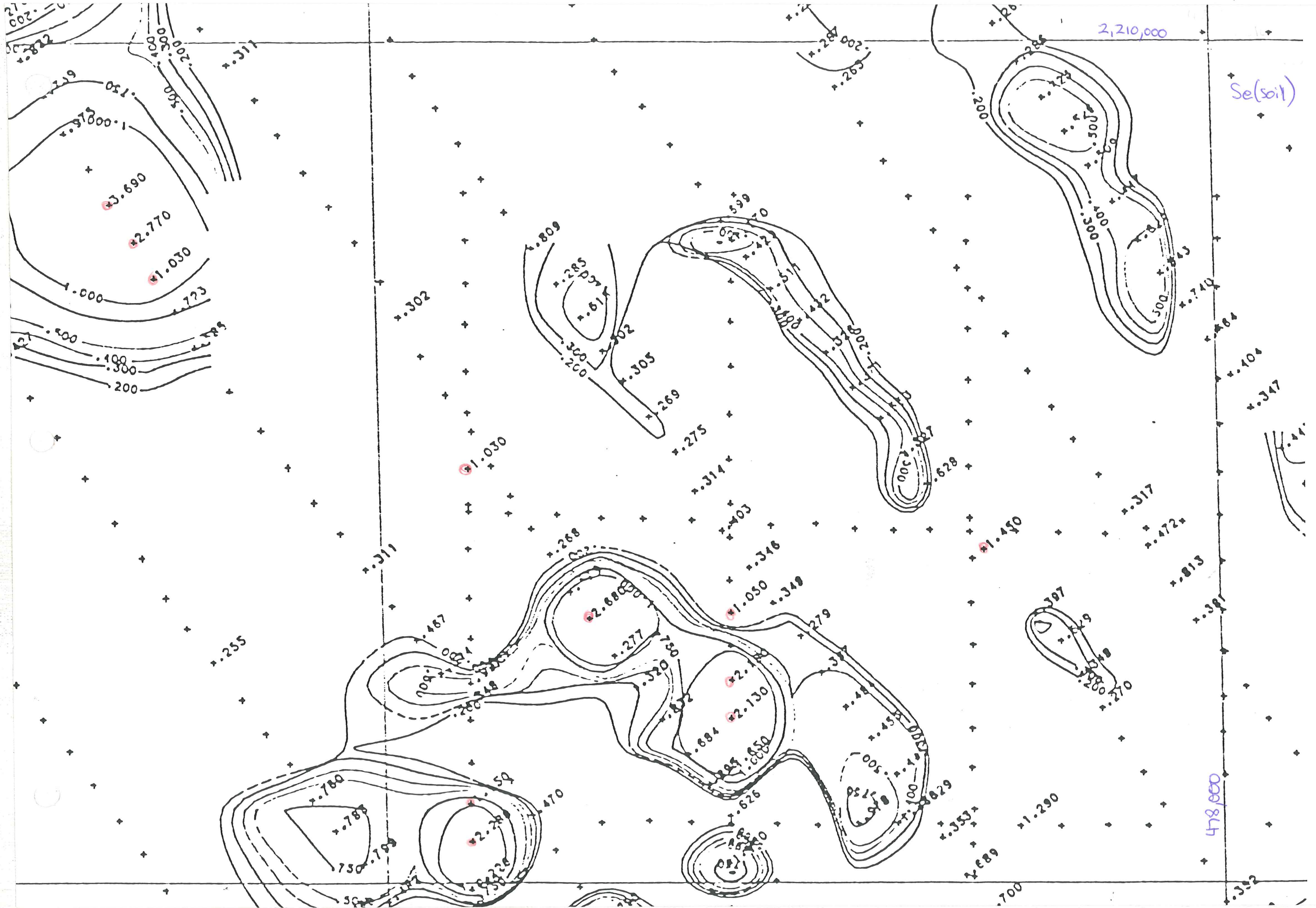




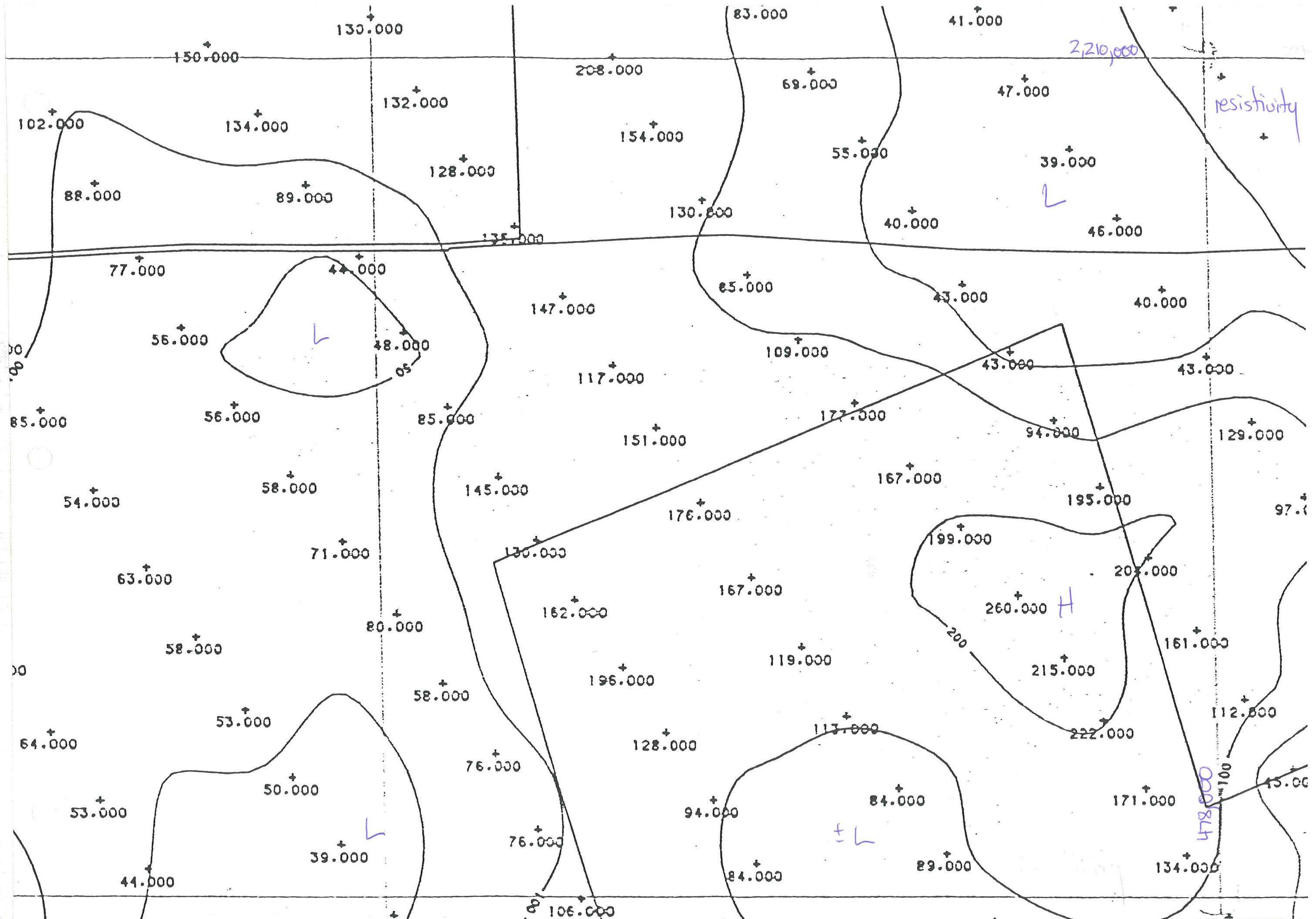


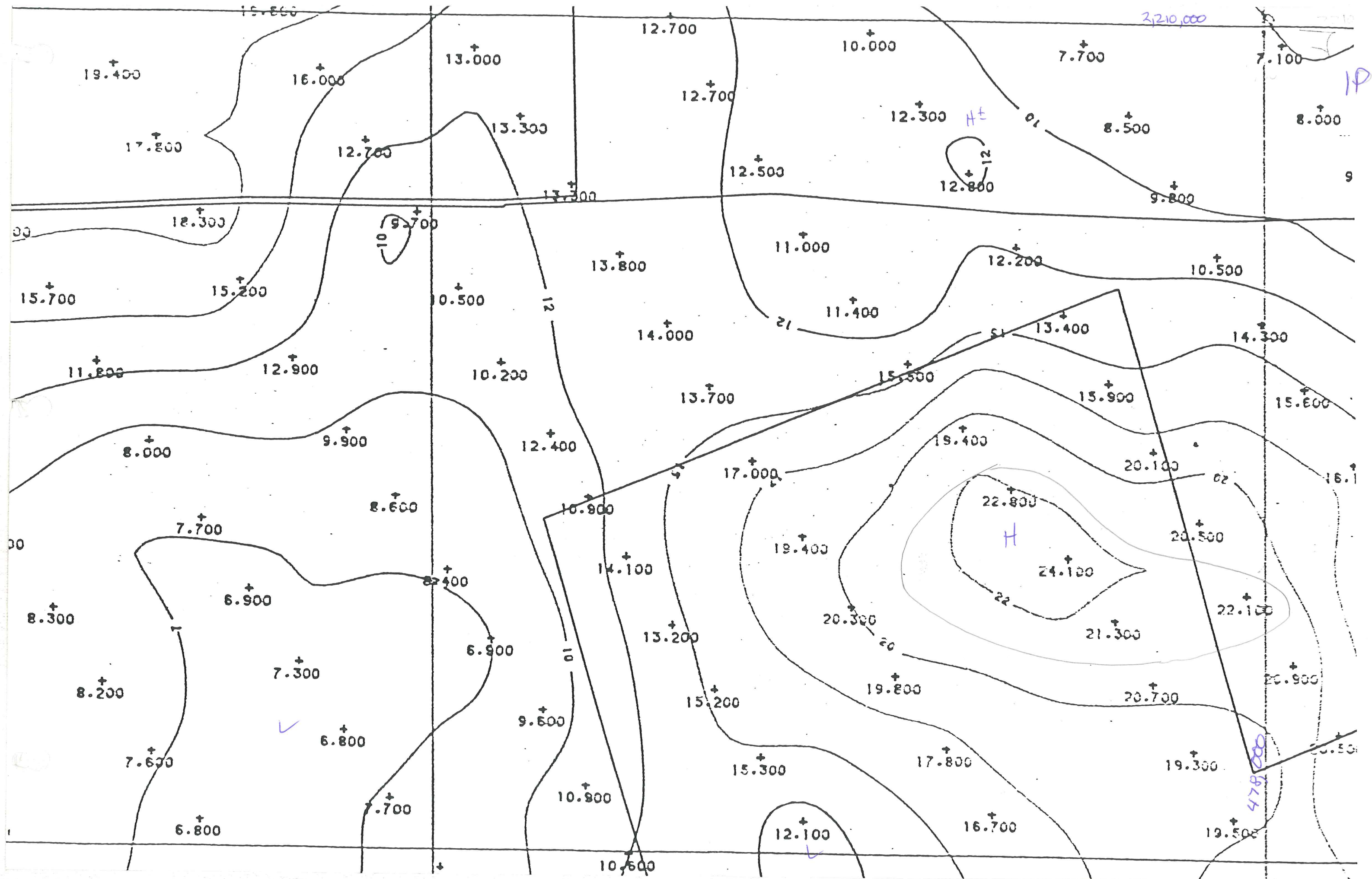














INDEX

# ROSEBUD PROJECT

need more geochem.

TARGET NAME EQUINOX/LAC: Chance  
HECLA: C  
BRADY: Target VIII

where is RL-231, 233

RL-113  
114  
115  
116  
117

RL-153  
154  
155  
156

## GENERAL DESCRIPTION

Silica breccia zone in Tbf unit.

228  
229  
230  
233

## GEOLOGY

## GEOCHEMISTRY

main soil grid does not appear to extend into area. Separate grid only for gold shows 50-100 ppb Au. in the drilled area as well as on Chance Hill

## GEOPHYSICS

none.

## DRILLING

14 known holes with best in RL-113 that yielded 300' @ 0.029. followed by RL-153 that yielded 100ft @ 0.036 No. drill logs. offset RL-156 may not have been drilled deep enough.

## REMAINING POTENTIAL

Needs more drilling around RL-113 especially to west. Also on Chance Hill. My mapping shows structures dipping to the S and SW parallel to drill holes which may explain anomalous drill results. My best (300ppb Au) was on Chance Hill and it remains undrilled.



need to  
assay

1024.5 - 1102 South Ridge fault

1102-1139 Td.

0-90 no assay.

455-453 " "

110-115 @ .013 / 0.1

East Chance - Lac

Heda - nothing.

all logs missing.

RL, 113, 114, 115, 116, 117

153 154 155, 156, 158

228 229 230 232 233  
231

note. said

RL-228 vert 600' dead.

✓ 229 S85E -70 TD 620

285-290 @ .040

305-310 .012

✓ 230 S60E -60 TD 630

45-50 .011

60-65 .010

got

?

231 S90E -45 dead TD 500

got

?

✓ 232 S60E -45 TD 595 415-420 .011

233 Vert 640 TD dead.

Short Shot.

RL-238 500 TD dead

239 525 "

240 375 "

244 200 "

RL 113. TD 800 S10W -45

✓ 325-350 .020 / 0.1

395-700 .029 / -

710-715 .013

720-725 .012

740-755 .018

785-795 .036

incl. 510-670 .043  
or 530-565 .086

Can't find hole  
location.

RL 153 offset  
?

✓ RL 114 TD 800 S10W -45 dead.  
 ✓ RL 115 TD 715 S10W -60 " "  
 ✓ RL 116 TD 510 S10W -60 500-505 .010/0.15  
 ✓ 117 600 S10W -60 dead-

### Wild Rose.

RL 118 TD 640 N35E -45 dead.  
 RL 119 500 S0E -45 dead.  
 RL 120 495 N19E -60 40-45 .035  
 110-125 .015  
 155-175 .015  
 265-270 .042/0.3

### Chance.

✓ RL 153 TD 600 Vert. 425-525 .036  
 incl. 455-505 .059  
 540-545 .032  
 560-565 .018  
 580-585 .011  
 ✓ RL 154 645 S20E -45 55-65 .013  
 ✓ RL 155 505 S20E -45 dead.  
 ✓ 156 405 S20E -45 5-15 .032/0.2

### Wildrose

- RL 157 405 N20E -60 60-65 .012  
 320-360 .010

) no hole location



EAST DREAMLAND

## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC: —  
HECLA: East Dreamland  
BRADY: —

### GENERAL DESCRIPTION

nothing. As best that can be determined Asarco was reported to intersect  
60ft @ 0.08 Au in one of the 4 holes. Most of the rest of the drilling was  
follow-up with essentially no success

### GEOLOGY

Tc

### GEOCHEMISTRY

basically dead all

### GEOPHYSICS

basically flat all

### DRILLING

Bombed out except RL-122 which hit intrusive (?) @ 355-400 Tc  
ad anomalous assays. 325-350 @ .019 on etc. Might go somewhere  
but geophysics no help.

### REMAINING POTENTIAL

Intensive etc but low priority until more information available.



Hecla - East Dreamland.

Lac - no designation.

?

Asarco holes.

RB-5,9

RA 1,2,3,4

RL 12,13,14

132, 133, 134, 135

✓ RL-132 TD 200 N20E -45

0-200 Ta all assays dead.

✓ RL-133 TD 300 ~~135~~ N0° -45 cover says old ASARCO drill pool.

0-300 TC? 20-100 silic.

all assays dead except 70-75E .011 Au / 0.19 Ag

95-100 @ .015 Au / ~~1~~ Ag

RL-134

✓ TD 145 N20E -45

all dead except 10-15E .013 Au / 0.5 Ag

0-145 TC?

RL-135 TD 300 N20E -45

0-170 TC

all assays dead except

✓ 170-200 Tri intrusive

95-100 @ .013 Au / 0.35 Ag

200-300 TC

✓ RD-12 TD 405 N5E -58

0-405 TC

30-45 @ .027 Au / 0.5 Ag.

365-370 .013 / —

rest dead.

3 151 RD-13 TD 385 N1E -60

0-385 TC.

all dead assays

✓ RD-14 NOE -60 TD 300

0-300 TC

all dead assays

RB-3

RL-121, 122, 136, 164  
167

East/East Drenland.

no target for Lac or Hela

RL-167 TD 800 vert.  
0-40 qcl  
40-800 TC?

185-205 @ .017 Au / 0.2 Ag  
rest assays dead.

RL-136 N45W -45 TD 660  
0-195 TC  
195-220 fault  
220-660 TC

135-140 @ .010 Au / 0.2 Ag  
295-300 @ .016 Au / -  
360-445 = +.002  
405-410 @ 0.011 Au / 0.27 Ag  
415-420 @ .012 / 0.28

rest assays dead.

RL-121 TD 300 N20W -45

0-300 shown as Tb. all. all assays dead.

RL-122 N20W -65 TD 400

0-105 Tb.  
105-245 TC  
245-265 vein.  
265-355 TC.  
355-400 INTRUSIVE

245-265 @ .015 / 5.5 Ag.  
280-290 .003 / 2.9 Ag  
310-315 .029 / -  
325-350 .019 / -  
rest dead.

INTERESTING → ANOMALOUS VALUES ON INTR CTC

RL-164 TD 545 vert.  
0-25 qcl  
25-545 TC

all assays dead.

where?

NORTH DORE

17  
469  
29

15

461  
21

5.5  
2.49

NORTH DORE  
↓

2.88  
5.76  
17 186  
5 93  
43

where?





✓ assays as shown. Km-4 0-80 Tc 80-245 Bud 245-365 FGT 365-470 Bud 470-600 FGT  
 540E-50 ✓ Km-8 0-125 Tc 125-465 Bud 465-600 FGT assays as shown.  
 ✓ Km-10 0-60 Tc 60-150 Bud 150-246 Tbs 246-380 FGT assays as shown

### E Dreamland.

✓ N35W-70 RB-3 TD460 0-~~460~~ 460 FGT all dead.  
 115

### White Alps

✓ RB-7 TD300? 150-300 Bud bra. all dead.

### Dreamland

✓ RB-5 TD425 0-75 tuff w/alt. plag phenos 0-220 very anom throu  
 0-100 ± 75-425 Tc? then drops off to dead.  
 ✓ RB-4 TD500 0-235 Tc 235-260 anom 0.2-0.6 Au possidike?  
 260-380 Tc? 380-500 tuff intrusive — dead.  
 0-125 0X  
 assays as

4

✓ RB-6 TD400<sup>365</sup> all Badger 365-400 tuff intr.? (ex) all dead.  
 ✓ RB-8 0-145 Badger? 145-300 tuff intr.? (ex) all dead.  
 \* ✓ RB-2 TD460 0-30 Tc? 30-150 tuff? 150-250 volcanic seal  
 250-310 intr tuff? 310-346 Tc? 340- → difficult to understand log  
 mostly dead. 0-35 ± 100 ppb Au.



TD 405

RB-4 0-25 Qal

sketch log.

25-45 Bud w/ green. all

no assays

45-145 Bud w/ jarosite

145-217 lavender gray flow banded. TC

217-300 Bud breccia w/ green.

300-405 Dozer.

✓ RB-9 TD vein? 305 75-90 @ +1.5 ppm Au. rest dead.

N. Dozer.

RL-166 -68 S55W 1100 TD. @600=80° 850=85° @1100=89°

0-15 Qal

✓ 15-160 FGT TC?

160-175 fault

175-495 ~~lap~~ Lithic Lapilli tuff.?

495-1100 FGT Terrible log - generally only colors

80-85/.015 95-115/.027 750-755/.022 840-855/.028 w/.03 Ag

1095-1100/.015 rest dead.

RL 108C S51E -60 1107 TD

0-67 fault zone → Rosebud Shale?

✓ 185-785 <sup>porphyritic tuff</sup> Ta? 785-1035 possible Tbs?

1035-1059 fault SRF?

1059-1107 JTea

472-477/.016

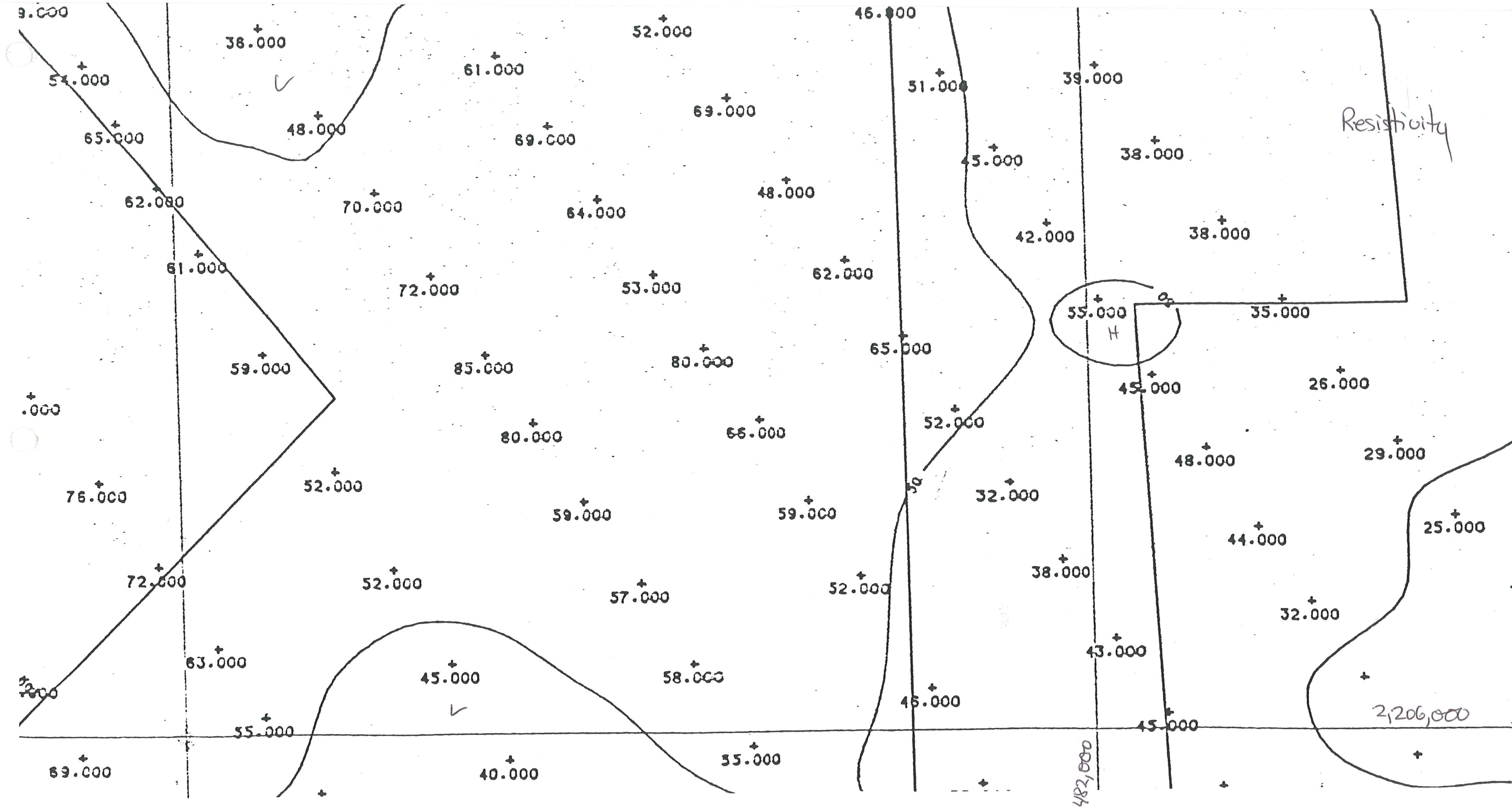
assays 0-67.7 dead. 67.7-433 NA. 433-507 437-442/.021

507-992 = N.A. 992-1107 unassayed. 992-1037/.109 w/.2 Ag.

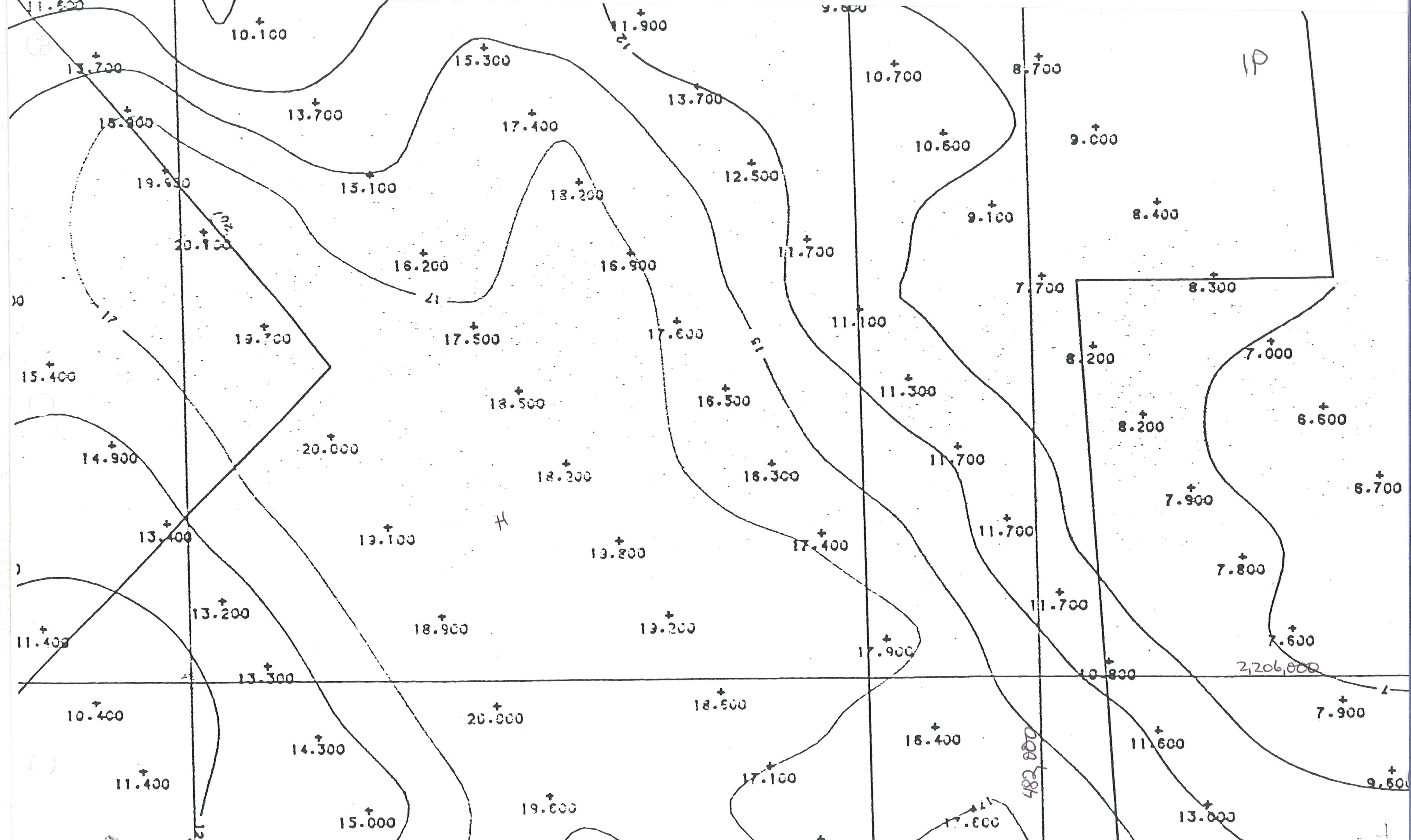
↓ assay found dead  
507-722 NA  
722-932 NA  
932-992

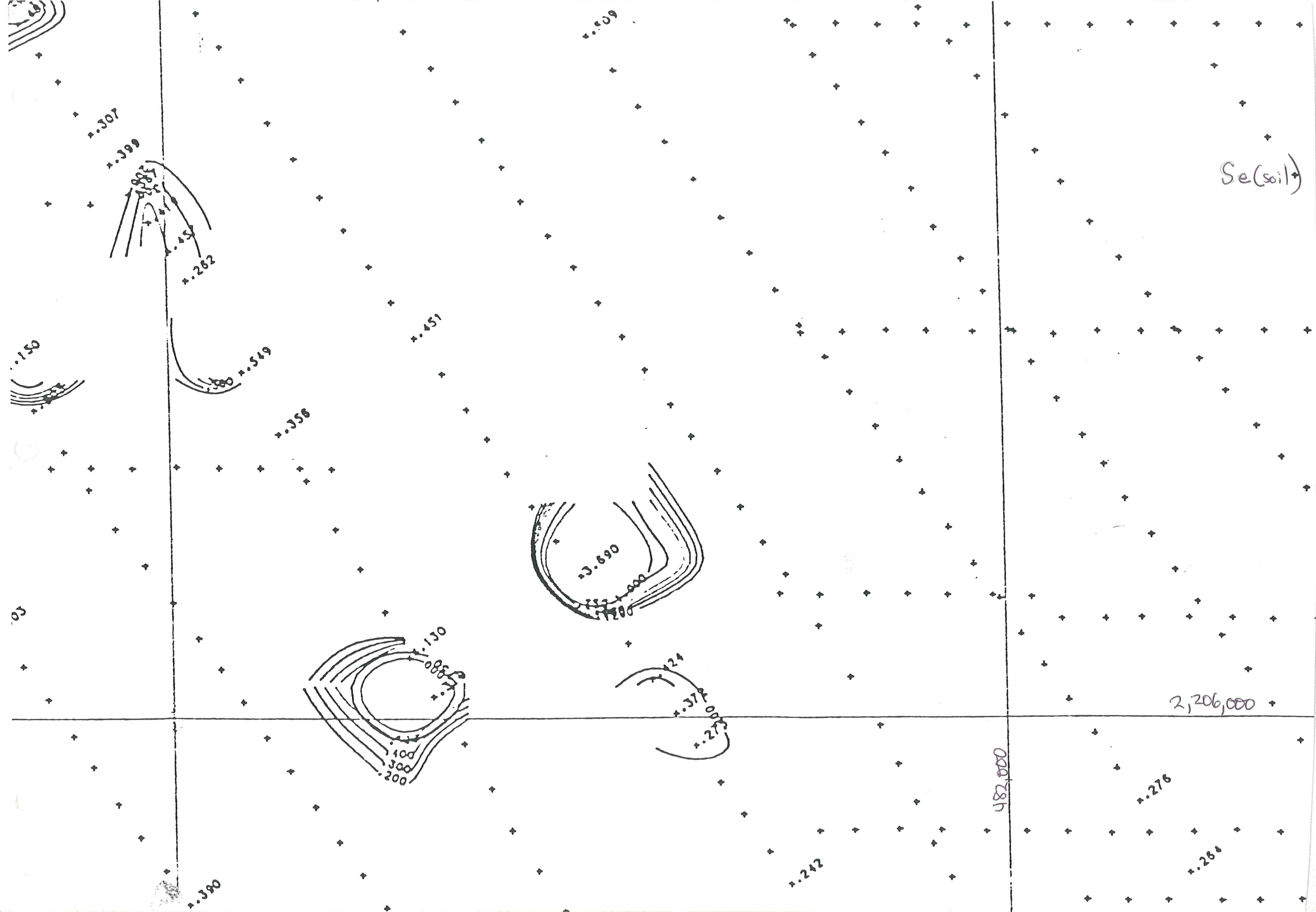
→ 937-942/.019  
972-977.310/.036 Ag

27  
4 106  
26  
28  
3 84  
24  
100  
9 84  
82  
9 908  
28  
16

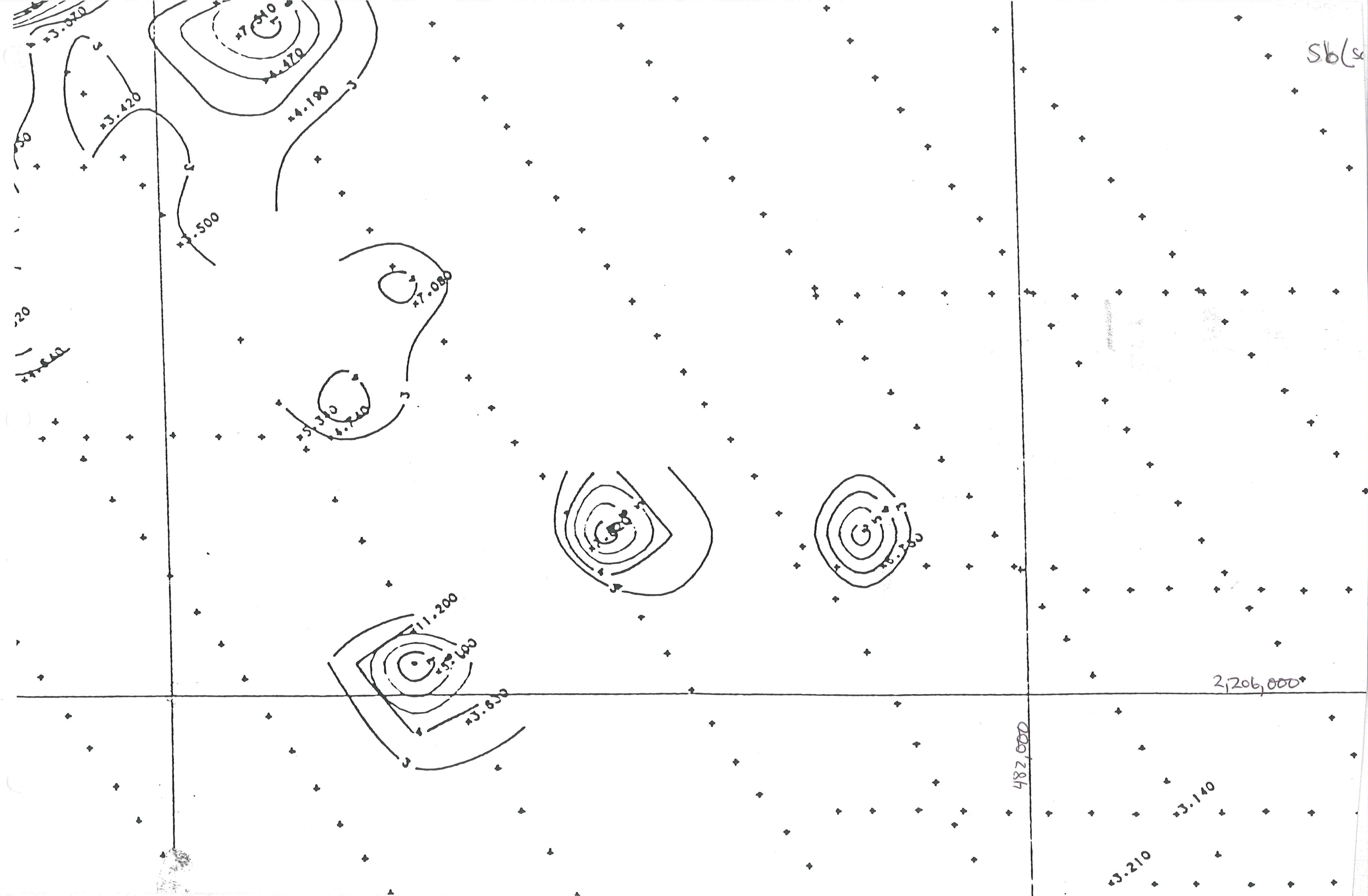






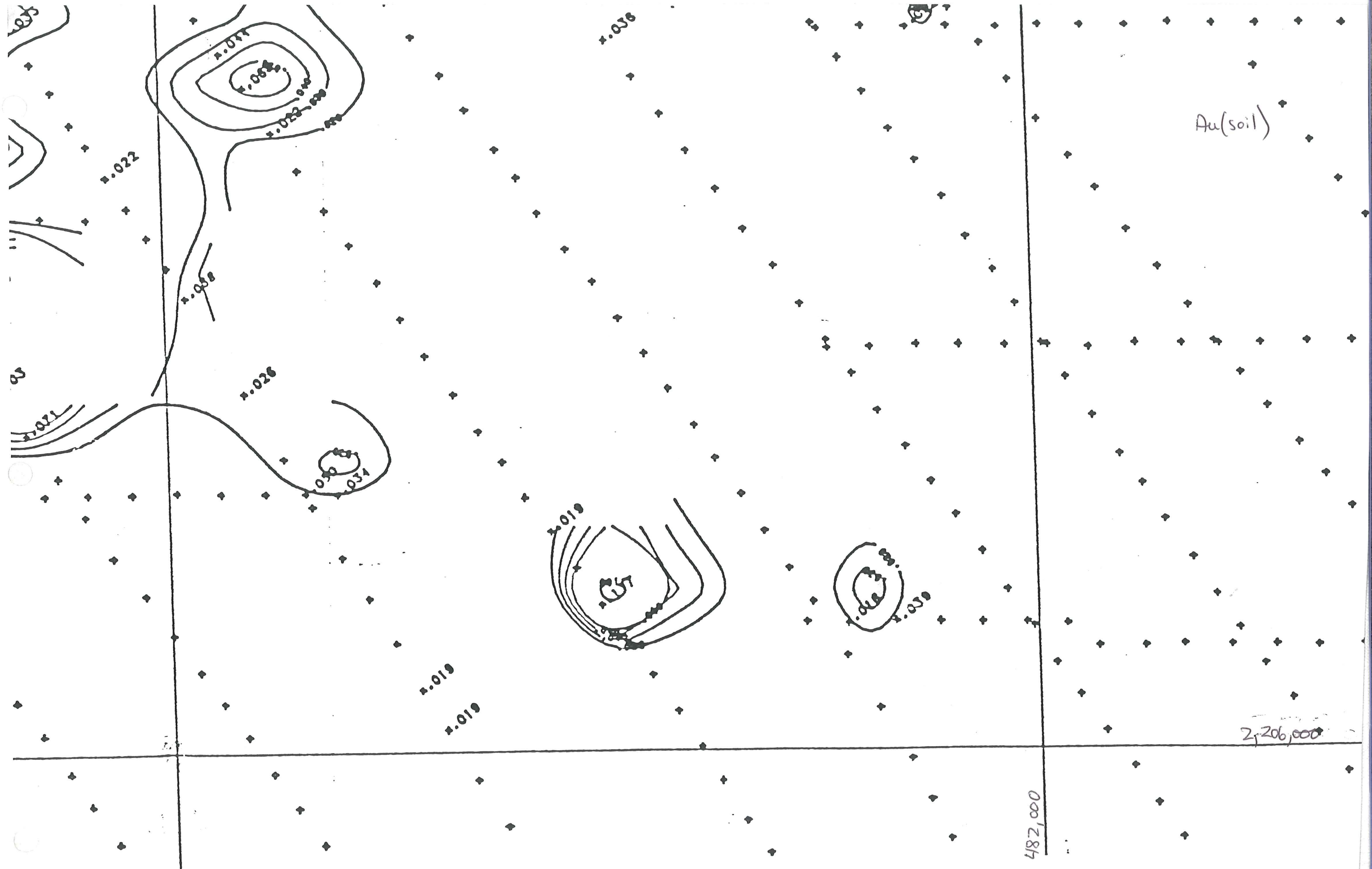












WEST DEGERSTROM



## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC : West Degerstrom  
HECLA :  
BRADY :

### GENERAL DESCRIPTION

IP anomaly

### GEOLOGY

Tc with high angle silicified fault bisecting area from north to south.

### GEOCHEMISTRY

surface soil geochemistry essentially dead  
rock chip sampling also dead to very low grade

### GEOPHYSICS

unexplained IP anomaly  
resistivity flat through area of anomalous IP response.

### DRILLING

2 holes, RL-235 and 236 → both dead.

### REMAINING POTENTIAL

none; target tested which could be due to coupling effect or misplotting but no mineralization.

West Degerstrom

- ✓ RL-235 due west -63 TD 525  
0-525 Tc all dead.
- ✓ RL-236 vert. TD 365  
0-365 Tc all dead.

N. Dozer.

RL-100 S55E -60 TD 1168.5

✓ 0-381 Reverse circ.

381-395 Tbs

395-406 Ta

406-413 Tbs

413-421 Ta

421-593 Tbs

593-682 Ta

682-733 Ta?

733-758 Tbs

758-993 Ta?

993-1027 flt zone?

1027-1120 Td?

1120-1168.5 J T2a.

RL-101 S55E -60 1123 TD

0-44 Rev. circ.

✓ 44-351 Tbs

351-420 Ta

420-464 Tbs

464-473 Ta

473-570 Tbs

570-1008 Ta(?)

350-355 @ .026

416-572 NA

861-866 @ .042

~~887-892 @ .137~~

887-916 @ .072

930-1027 @ +0.15

1072-1087 @ .033

Not dead.

or

0-411 N.A

426-567 NA

577-597 .017

612-617 @ .044

662-667 @ .012

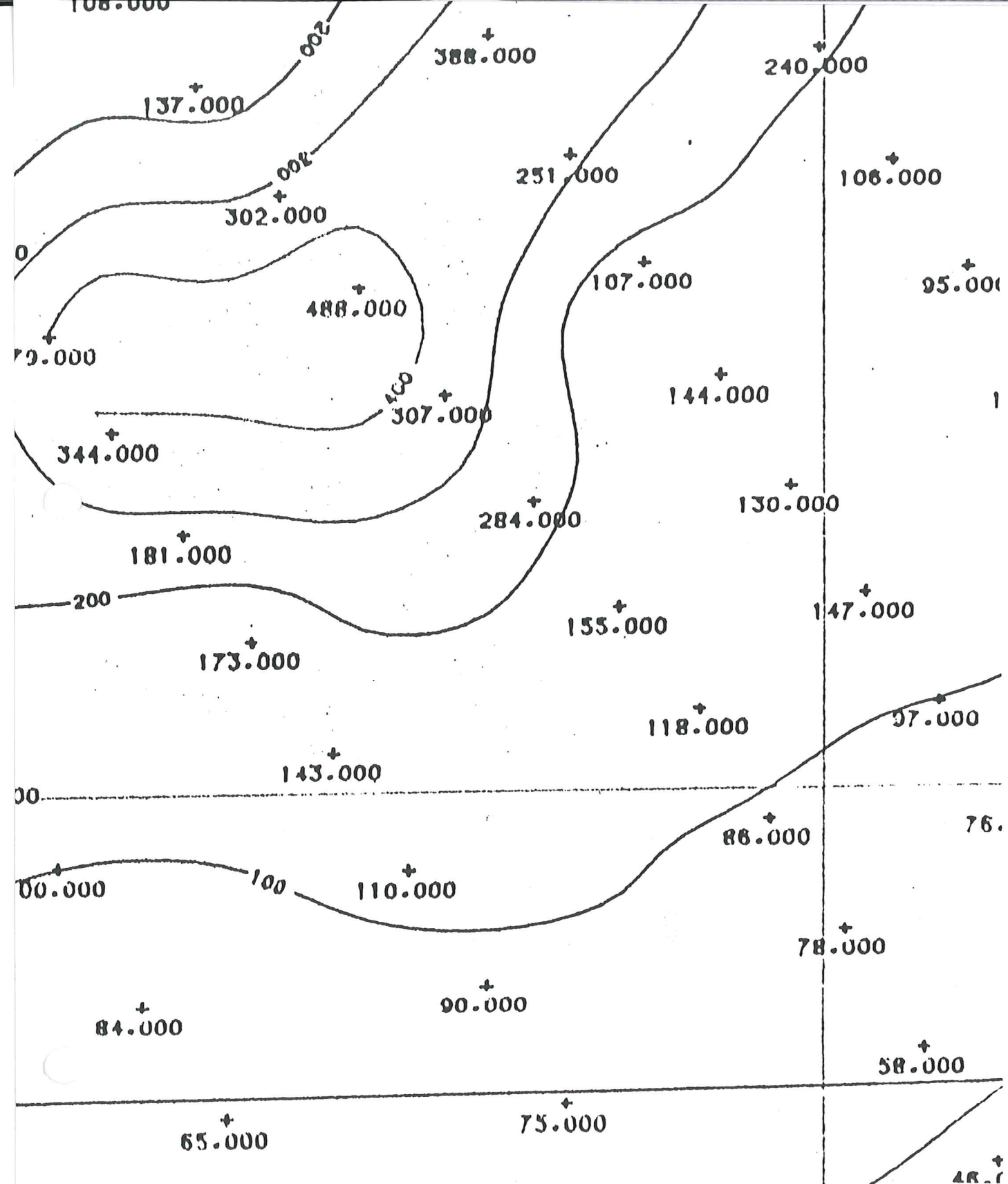
687-692 @ .125

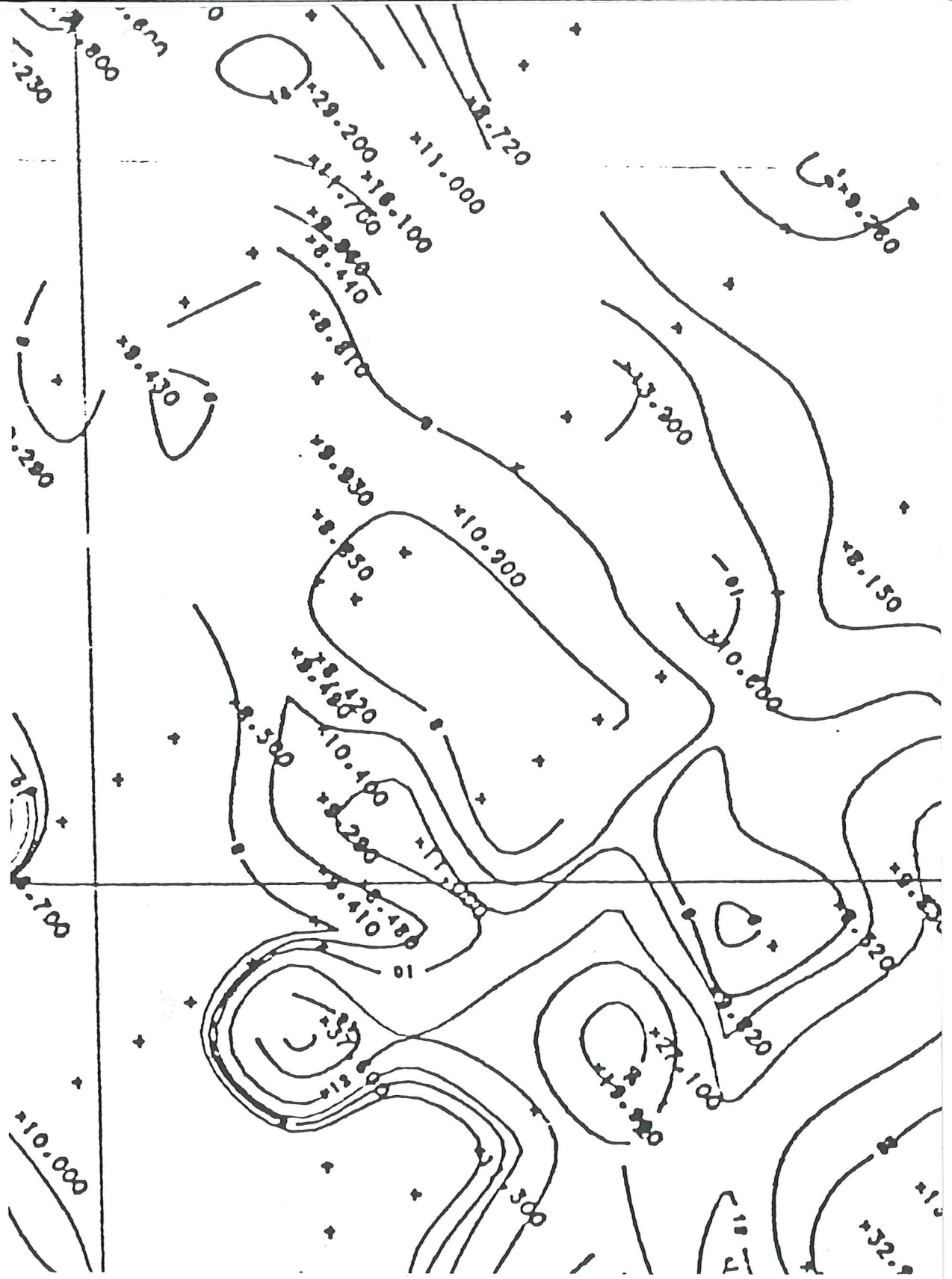
732.6-735.8 @ .098

7  
61 433  
13

399

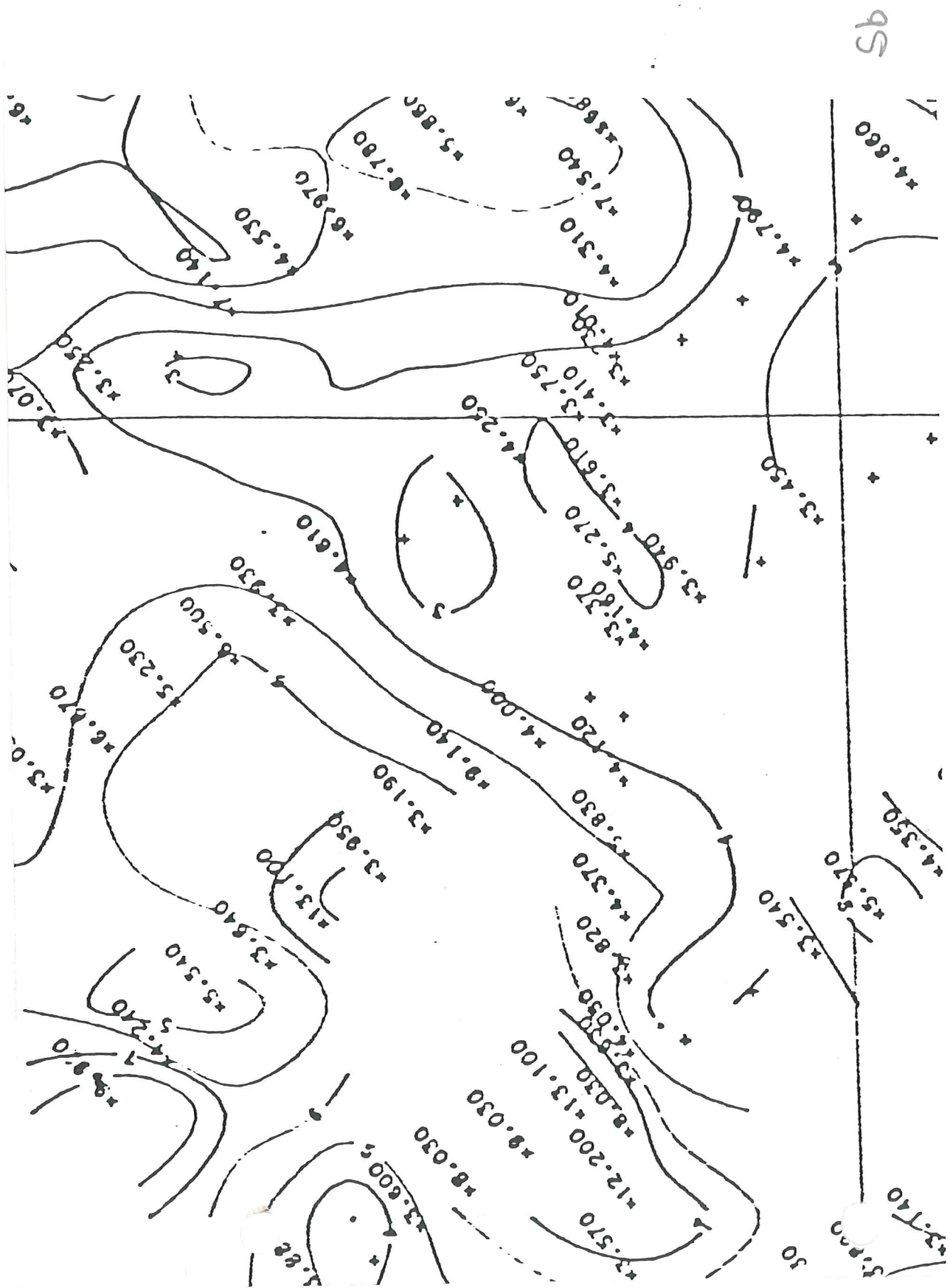




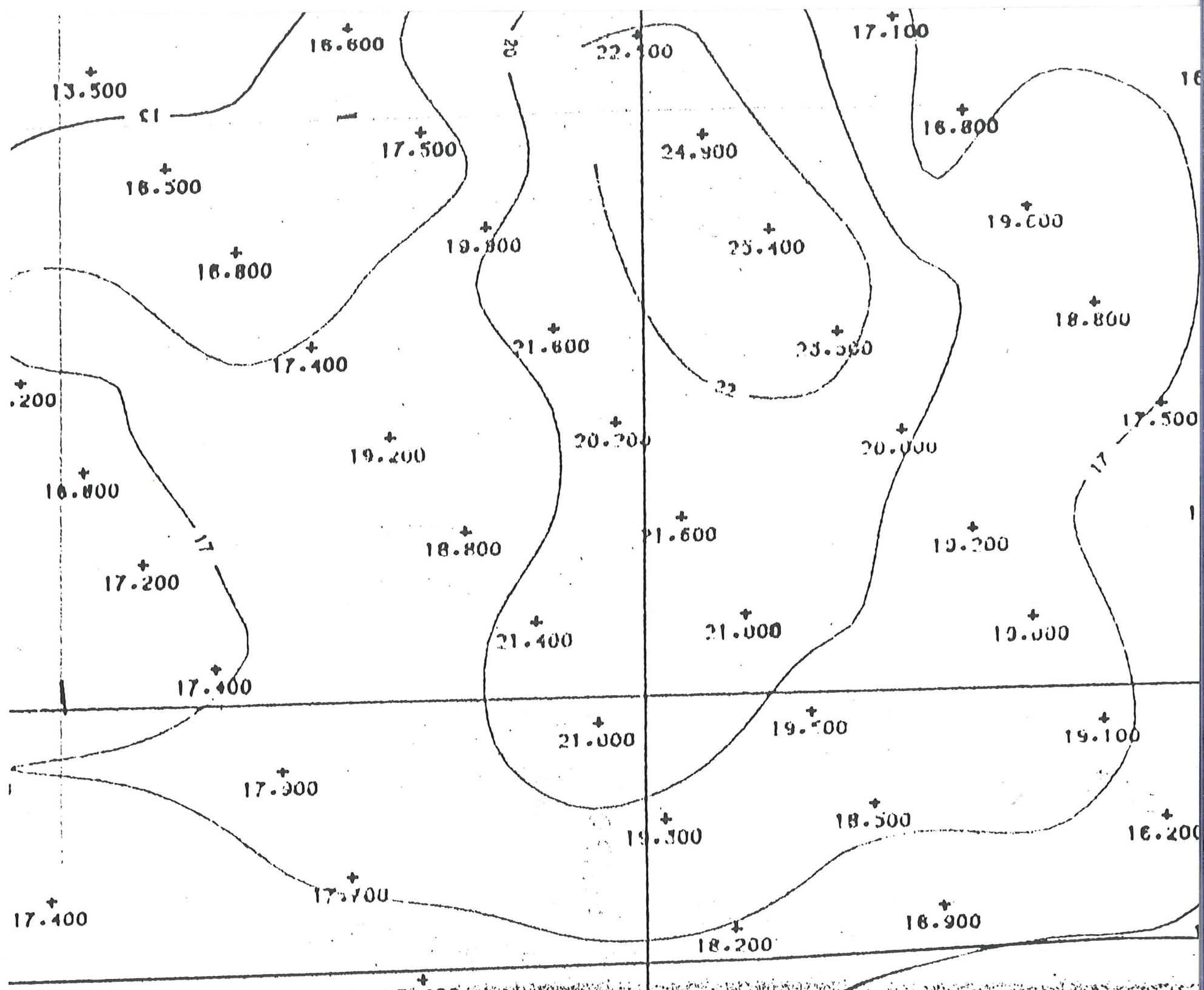


As











N. DOZER HILL

## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC :  
HECLA :  
BRADY : North Dozer Hill

### GENERAL DESCRIPTION

area between the Dozer Hill drilling and the Rosebud Shear as well as the area along the immediate hangingwall of the Rosebud Shear.

### GEOLOGY

Tc on the hangingwall of the Shear, Tc, Tbs, Ta and Tbs<sub>2</sub> on the footwall.

### GEOCHEMISTRY

none ~~exp~~ examined

### GEOPHYSICS

none examined

### DRILLING

Re-interpreted the logs of 33 previously drilled holes.

### REMAINING POTENTIAL

large area 500x1,000 feet on the footwall of the Rosebud Shear needs to be explored on a priority basis for higher grade mineralization

RL-91C TD 1150 S5SE -60 0-465 rot.

0-30 qal

145-156 .049/0.1

30-964.3 Tc?

295-306 .022/0.1

964.3-975.6 fault.

711-713.9 .012/-

975.6-1037.2 Tc?

985-995 .010/-

1037.2-1110 Tbs?

1033.5-1035.5 .021/-

1110-1142.8 Td?

1070-1075 .051/0.1

1142.8-1150 JFca

rest dead.

RL-96C TD 1192 S5SE -60

0-465 rot

0-30 qal

30-180 Tc?

60-70 @ .012/-

180-185 fault?

145-175 @ .060/0.2

185-680 Tc?

1147-1152 .626/0.7

680-732 Tbs

1177-1182 .012/0.2

732-1087 Tc? or Ta

1087-1149.5 Tbs

1149.5-1156.5 S. Ridge fault?

1156.5-1192 JFca

RL-110C TD 1232 S5TE -55

0-465 rot.

0-~~260~~ 85 Tbs?

185-196 .010/-

85-260 Tc?

195-200 .021/2.72

<sup>305</sup>  
260-~~265~~ fault

245-250 .016/0.4

305-940 Tc

355-360 .010/0.2

940-1180 Tbs.

380-385 .013/0.1

1180-1193 fault

390-395 .012/-

1193-1211 Tbs

← depo etc?

1211-1232 JFca

rest dead

465-535 no assays.

585-861 " "

894-1142 " "

59  
6 358  
59



RL-252 TD 500 vert.

0-20 Qal

20-500 Tc

rest dead

75-80 .026 / 0.1

95-100 .012 / 0.1

250-255 .010 / -

295-300 .016 / -

RL-92C TD 1281 S56E -47

0-290 Rotary 290 → core.

0-45 Tb.

45-944.6 Tc

944.6 - 948.5 fault.

948.5 - 1175 Tc

1175 - 1180.7 fault

1180.7 - 1237.6 Tc?

1237.6 - 1245.4 fault

1245.4 - 1257.5 arkosic ss

1257.5 - 1281 J Ra

175-180 .015 / 0.2

190-195 .011 / 0.2

210-220 .068 / 0.2

270-280 .016 / -

285-290 .010 / -

685-690 .024 / -

1046-1055 .025 / -0.1

1070-1075 .012 / -

1180-1190 .025 / 0.1

1215-1220 .029 / 0.1

1235-1245.4 .055 / 0.4

1245.4 - 1257.5 .048 / 0.3

1265-1270 .049 / 0.2

need to plot

RL-176 TD 345 vert.

0-10 Qal

10-345 Tc

120-125 .036 / 0.1

140-145 .020 / 0.1

240-245 .017 / 0.1

310-330 .114 / 0.2 ) no checks.

RL-177 TD 445 vert.

0-25 Qal

25-445 Tc

100-105 .010 / 0.1

195-200 .012 / -

205-210 .014 / 0.1

220-225 .015 / 0.2

235-255 .020 / 0.1

375-380 .018 / -

55

2 11 1

49

68

136

2 16

2 33

51

48  
3145  
25  
114  
4455

26  
482

Valley north of Dozer Hill

loc/Hela → no target

✓ ✓ ✓ ✓ ✓  
RL 138, 139, 148, 250, 251

RL-138 TD 1040 S55E -60

0-65 Qal

<sup>1040</sup>  
65-505 TC

nest dead.

50-55 @ .017 Au/-

70-75 @ .017/-

80-85 @ .012/-

220-225 @ .012/0.2

290-295 @ .010/-

380-385 .010/-

645-650 .020/-

915-920 .021/-

RL-139 TD 800 S55E -60

0-20 Qal

20-800 TC

145-370 silicified

nest dead,

145-155 @ .023/-

195-200 @ .011/.1

215-220 .010/-

230-240 .017/0.17

335-360 .011/-

395-405 .077/.15

430-435 .024/.12

RL-148 TD 645 S55E -45

0-17 Qal

17-95 TC

95-105 fault

105-230 TC?

230-290 Tb?

290-645 TC

125-130 @ .028/.18

525-530 .012/-

630-635 .012/.12

poss fault?  
instead?  
nest dead.

RL-251 TD 400 vert.

0-10 Qal

10-400 TC?

290-295 .013/-

nest dead.

RL-250 TD 545 vert.

0-15 Qal

15-545 TC

65-70 - Au / 5.75 Ag

240-245 .011/-

290-305 .010/-

375-385 .011/-

nest dead. -

114  
5 57  
72  
.154



RL-262C TD 1139 Vert.

0-28 qcd

28-495 Tbs 2.

difficult to understand log call LBT to 1024.5

1024.5-1102 South Ridge fault.

1102-1139 Td.

0-90 no assay.

455-953 " "

110-115 @ .013 / 0.11

need to assay  
↓

East Chance - Lac

Aleka - nothing.

RL, 113, 114, 115, 116, 117

153 154 155, 156, 158

all logs missing.

228 229 230 232 233  
231

note. said

RL-228 vert 600' dead.

229 S85E -70 TD 620

285-290 @ .040  
305-310 .012

230 S60E -60 TD 630

45-50 .011  
60-65 .010

231 S90E -45 dead TD 500

232 S60E -45 TD 595 415-420 .011

233 Vert 640 TD dead.

Short Shot.

RL-238 500 TD dead

239 525 "

240 375 "

244 200 "

RL 113. TD 800 S10W -45

325-350 .020 / 0.1

395-700 .029 / -

710-715 .013

720-725 .012

740-755 .018

785-795 .036

incl. 510-670 .043  
or 530-565 .086

Can't find hole  
location.

RL 153 offset  
?



RL-112 TD 1230 S 45E -58 0-465 rot

0-15 Gal

15-1058 TC?

1058-1085.8 South Ridge fault?

1085.8-1230 J Fa

35-40 @ .010/0.1

85-110 @ .017/0.3

475-508 @ .013/0.2

517-522 .019/0.3

522-527 .012/0.3

547-552 .028/0.1

857-862 0.073/-

891-895 .097/0.4

927-937 .042/0.4

947-952 .022/-

972-977 .021/0.2

997-1002 0.038/-

1017-1022 0.01/-

1027-1069 .064/0.6

1069-1074 0.007/3.7

1085.8-1094.5 .013/6.8

1105-1130.5 .014/0.7

1145.5-1156 .012/2.3

1171.9-1199 .030/1.0

RL-137 TD 400

S10E -45

0-400 Tb. all dead.

RL-140 TD 1050 S55E -60

0-1050 TC?

all rest dead

105-110 .021/-

135-140 .017/-

270-275 .015/-

~~1045-1050~~

RL-143 TD 1005 S51E -60

0-1005 TC.

rest dead.

370-375 .013/1.1

13

6 77  
17

602-847 no assays

3  
4 121

14

5 72  
22

64

17 9/580  
84 40

34 6.8  
213.7

RL-107 -55 S5ZE 1030

0-465 Rev circ

N. Dor  
Not Plot

275-280 @ .016

305-310 @ .110

315-320 @ .031

410-420 @ 0.10

465-552 NA

667-682 @ .011

840-845 @ .025

850-855 @ .014

905-910 @ .013

465 - 974 Tbs?

974-984 fault

984-1030 Td

RL-93 S5ZE -60 1082

0-462 Rev circ.

462-1035 difficult to follow

1035-1053 SRF

1053-1082 JTa

34  
3 104

~~25-30~~ 45-50 @ .028

130-140 @ .020

150-165 @ .034

180-185 @ .020

195-200 @ .035

425-430 @ .015

560-563 .023

830-835 @ .021

860-865 @ .032

876-880 @ .013

920-930 @ .031

940-1050 @ 0.10+

RL-90 -63 S5ZE 101270

0-465 Rev circ.

465-636 Tbs

636-732 Ta

732-1012 Tbs?

55-60 @ .011

65-75 @ .015

295-305 @ .045

315-325 @ .015

330-340 @ .020

355-365 @ .011

445-450 @ .019

503-507 @ .072

533-543 @ .019

583-587 @ .016

839-846 @ .035  
51

873-883 @ .014

897-906 @ .076

750  
150  
470  
109

RL-165 -75 S5ZE 1032

Rev Circ 0-300

300-953 Tbs

953-982 fault

982-1032 Td?

310-359 NA

384-389 .053

425 - NA

512

603-608 @ .031

649-655 @ .031

685-690 @ .018

727-731 @ .012

777-782 @ .014

787-797 .011

802-812 .019

816-829 @ .020

844-854 @ .014

859-870 .027

906-911 @ .024

937-947 @ .019

PL-199 895 vent.

10-15 .016

0-355 RC 0-207 Tbs

115-150 .011

201-322 Ta

235-240 .010

322-796 Tbs

355-563 PA

796-824 Taoff

578-583 .016

8711-7d

598-603 .012

643-648 .010

683-688 .010

693-743 .020

763-778 .030

778-798 .015

798-820 .040

PL-195 115/913

RC 355

10-15 .025

0-115 Tbs

300-305 .011

115-272 Ta

310-315 .015

272-744 Tbs

355-440 PA

744-849 Ta

480-485 .010

849-853 Taoff

490-495 .010

858-7d

593-618 .000

623-658 .2

658-663 .036

678-708 .028

713-743 .032

758-854 .045<sup>1</sup>

171

203

RC-171 vent 860

all RC

315-320 .011

695-715 .080

0-60 Tbs

395-400 .1

730-750 .028

60-215 Ta

425-455 .014

755-775 .040

215-765

470-515 .012

775-785 .2

520-535 .038

785-840 .020

535-580 +.2

580-615 .040

620-655 .025

655-795 +.2



Confirmed location  
N. Don Hill

92  
159  
199

RL105C -62 S55E 1062

0-465 RC

465-911 Tbs

911-930 fault

930 - Td

110-115 .017

120-125 .011

465-589 NA

599-599 .011

609-650 NA

672-710 NA

809-814 .029

823-828 .012

838-842 .012

RL-82 S54E -65 1065

0-463 RC

463-688 Tbs

688-722 Ta?

722-842 Tbs

842-855 fault

855 - Td

170-175 .010

345-350 .019

370-375 .021

435-435 .018

507-512 .042

517-522 .036

527-531 .013

594-594 .012

644-682 +.20

698-703 .017

718-723 .014

733-748 .025

748-801 .35

807-817 .020

RL-159 852 -70 S53E

0-300 RC

300-417 Tbs

417-460 Ta

460-777 Tbs

777-778 fault?

778 - Td?

170-175 .033

225-240 .018

260-270 .040

367-372 .038

392-397 .012

417-422 .013

432-437 .028

452-467 .018

502-527 .018

577-692 +0.2

642-782 ±.05

692-

639-715 NA

785-790 .010

850-885 .030

899-903 .022

RL199 1077 -65

0-540 RC

540-558 Tbs

558-638 Ta

638-1205 Tbs

1205-1209 fault  
1209-1221 Td

1221-1240

155-160 .032

370-375 .026

385-390 .010

410-415 .018

455-470 .010

490-495 .010

939-943 .015

1028-1033 .18

1053-1055 .013

1090-1096 .014

1171-1176 .018

TD 405  
 RB-4 0-25 Qal sketch bg.  
 25-95 Bud w/ green. all  
 45-145 Bud w/ jarosite  
 145-217 lavender gray flow banded TC  
 217-300 Bud breccia w/ green.  
 300-405 Dozes.

✓ RB-9 TD vein?  
 305 75-90 @ +1.5 ppm Au. rest dead.

N. Dozes.

RL-166 -68 S55W 110° TD. @ 600 = 80° 850 = 85° @ 1100 = 89°

✓ 0-15 Qal  
 15-160 F6T TC?  
 160-175 fault  
 175-495 ~~top~~ Lithic Lapilli tuff?  
 495-1100 F6T Terrible bg - generally only colors  
 80-85/.015 95-115/.027 750-755/.022 840-855/.028 w/ 0.3 Ag  
 1095-1100/.015 rest dead.

RL 108C S51E -60 1107 TD

✓ 0-67 fault zone → Rosebud Shale?  
 185-785 porphyritic tuff  
 Ta? 785-1035 possible Tbs?  
 1035-1059 fault SRF?

1059-1107 JTa

assays 0-67.7 dead. 67.7-433 NA. 433-507 437-442/.021  
 507-992 = A.A. 992-1107 assayed. 992-1037/.0109 w/ .2 Ag.

↓ assay found  
 507-722 dead  
 722-932 NA → 937-942/.019  
 932-992 972-977.310/.036 Ag

? TD #2 Degeishon hole Motherlode Area

RL-293 TD 607 N45E -50

0-10 Badger / Qal  
 10-185 TC could be Tbs 165-185 ft?  
 185-230 TC  
 230-360 Tbs?  
 360-607 TC w/ phenos

20-40 @ .025  
 60-70 @ .015  
 85-95 @ .017  
 125-180 @ .083  
 260-280 @ .012  
 330-350 @ .011  
 360-380 @ .016  
 415-425 @ .016  
 450-465 @ .011 Au

27  
 4 106  
 26  
 28  
 84  
 3 24  
 109  
 84  
 82  
 9 908  
 11 28  
 16  
 4 65  
 25  
 25  
 4 102  
 22  
 17  
 2 35  
 12  
 4 51  
 11

DOZ H

RL-102 356E -60 T01092

0-44 Rev Circ.

441-902 Tbs?

902-926 fault.

926-1092 Td?

195-205 @ .013

270-275 @ .051

375-380 @ .023

430-450 @ .013

456-461 @ .017

492-497 @ .019

507-527 @ .026

532-542 @ .017

547-552 @ .027

567-582 @ .028

587-655 NA

~~655~~ 760-766 @ .013

801-920 +0.05

26  
4 104

DOZ H

RL-103 water well to 295 / lost  
no core.

28  
3 83  
23

RL-104 SSE -60 1087

core fm top.

0-1002 Tbs

1002-1040 fault

1040-1087 Td

0-120 NA

152-411 NA

512-537 @ .040 .024

547-567 .011

577-632 NA

742-782 @ +0.15

812-872 @ +0.10

887-922 @ 0.05 ±

937-954 @ .029

1007-1026 @ ± 0.05

24  
5 118  
11  
4 46

DOZ H

RL-262 vent. 1139

0-495 Rev circ.

495-<sup>629</sup> Tbs

-1012

629 ~~1012~~ Ta?

1012-1024 Tbs?

1024-1102 SRF

1102-1139 Td. 0-495 NA

RL-106 -60 SSE 1237

core fm top.

0-306 Ta

306-592 Tbs

592-796 Ta

796-<sup>978</sup> Tbs

~~978~~ 979-989 SRF?

989-1118 Tuffaceous SS

1118 - JTRa

302-307 @ .013

327-332 @ .014

347-352 @ .031

426-587 NA

702-707 @ .011

827-930 NA

983-992 @ .171

1007-1012 @ .024

1022-1027 @ .035

1047-1067 @ .050

1087-1102 @ .023

1162-1172 @ .080

1177-1212 @ .080

100C  
93C  
106C  
409  
107C

171  
2342

23  
3 70  
10



RL-109 SSE -60 1247TD

core fm top.

0-128 Ta

128-182 Tbs

182-232 Ta

232-290 Tbs

290-352 Ta

352-437 Tbs

437-619 Ta

619-1022 Tbs

1022-1080 fault

1080-1108 Td?

1108 Jfa

287-475 NA

595-601 @ .049

606-619 @ .014

629-654 NA

660-665 @ .024

697-703 @ .020

727-816 NA

889-995 @ +0.05±

1122-1132 @ .012

1201-1205 @ .016

14  
42

RL-97 SSE -63 1252

N.Doz.  
Confusion on loc.

0-465 Rev circ

465-493 Tbs

493-578 Ta

578-1114 Tbs

~~1114~~ 1114-1152 Td?

1152-TD Jfa

240-245 @ .017

445-450 @ .011

770-775 @ .014

800-805 @ .012

833-860 @ .050±

870-995 @ +0.05±

1072-1075 @ .031

1111-1114 .016

1212-1217 .013

RL-75 -60 -72

SSE TD 1071

0-345 Rev Circ.

345-1067 difficult to tell

1067-1071 Jfa

45-100 .010

305-315 @ .026

406-415 @ .039

506-513 @ .021

516-520 .043

530-535 @ .040

705-715 .025

735-745 @ .052

775-785 @ +.20

805-820 @ .073

855-860 .026

880-892 @ .151

927-932 .026

952-962 .021

1047-1052 .012

1062-1067 .016

252

37  
119  
3 24

73  
3 219

197C

94C

(RL-197 N. 1109

2204543

448 2266

0-565 Rev Circ.

565-598 Ta

598-1061 Tbs?

1061-1070 SRF

1070-1109 JFza.

N. Dor  
Not plot

RL-94 1199

-66 565 E

2204457

482 195

0-465 Rev Circ.

605

465-526 Ta

605-783 Tbs

783-911 Ta

911-948 Tbs

948-955 poss fault

955-1179 1167 Td?

1167-1199 JFza

0-15 .035

65-76 .020

120-125 .020

280-285 .085

570-585 E .018

595-608 E .022

630-645 E .024

650-695 NA

706-705 E .023

845-875 E .040

906-905 .012

935-945 .012

985-990 .010

1035-1040 .040

1055-1090 .022

35-46 E .014

100-115 E .013

450-455 .054

665-670 .014

635-640 .013

670-675 .019

695-700 .012

845-855 .030

890-903 .012

915-925 .033

930-965 E .05<sup>+</sup>

995-1010 .042

1020-1025 .022

1045-665 E .050<sup>±</sup>

1075-1080 .023

1140-1145 E .075

Target II

✓ RB94-08 405 TD 205 -60 all Td? poor log N.A.  
 ✓ RB94-07 TD 405 -60 all Td? " "

Charles remembered  
 dead.  
 ""

✓ RB94-04 hit Rosebud Shale @ 300 vert. holes  
 05 on HW of Rosebud Sh.

RL98C -64 S5SE 1061TD

0-465 neu circ.

465-570 Ta

570-756 Tbs

756-902 Ta

902-943 Tbs

943-960 fault

960-1035 Td

1035-1120 Jka.

270-275 @ .060

920-925 .014

930-945 .027

955-960 .010

west dead.

N Dr  
 Not Plot

27  
 3 82  
 22

Ep #111  
 Four beed Exp.  
 October  
 1  
 2  
 3, 107

✓ RL-99 S5SE -60 1242TD

0-465 RC

465-496 Tbs

496-674 Ta

674-892 fault

892-1205 fine grained turb

1205 Jka

235-240 .037

320-330 .056

395-400 .016

512-517 .024

685-687 N.A.

892-902 .016

911-947 .017

965-989 .024

996-1042 .017

1032-1062 .027

1107-1113 .013

✓ RL-70 S5SE -68 1012

conv. top.

0-917 Tbs? difficult log

917-931 fault

931-977 Td

215-235 .018

340-345 .012

350-353 .014

516-521 .011

580-585 .019

635-660 .021

685-741 .025

855-865 .053



# West Dagerstrom

RL-235 due west -63 TD 525  
 0-525 Tc all dead.  
 RL-236 west TD 365  
 0-365 Tc all dead.

## N. Dozer.

RL-100 555E -60 TD 1168.5

0-381 reverse circ.

381-395 Tbs

395-406 Ta

406-413 Tbs

413-421 Ta

421-593 Tbs

593-682 Ta

682-733 Ta?

733-758 Tbs

758-993 Ta?

993-1027 flt zone?

1027-1120 Td?

1120-1168.5 JFza.

RL-101 555E -60 1123TD

0-44 Rev. circ.

44-351 Tbs

351-420 Ta

420-464 Tbs

464-473 Ta

473-570 Tbs

570-1008 Ta(?)

1008-1018 faint

1018 - JFza

350-355 @ .026

416-572 NA

861-866 @ .042

~~887-892 @ .137~~

887-916 @ .072

930-1027 @ +0.15

1072-1087 @ .033

not dead.

RL-

0-411 N.A

426-567 NA

577-597 .017

612-617 @ .044

662-667 @ .012

687-692 @ .125

732.6-735.8 @ .098

762-777 @ .091

807-813 @ .010

847-887.8 NA

977-982 @ .023

997-1063.8 @ ± 0.05

7  
 61433  
 13

399

17  
 4 70  
 30  
 81  
 74  
 323

✓ OS-3 vert 500'  
0-500 Tuff.

$\frac{OX}{UNOX} \pm 155$

all dead  $\rightarrow$  looks like totally unmineralized.

✓ OS-4 vert 340

0-340 volc.

poss rhy

all dead  $\rightarrow$  looks unmineralized.

✓ no log for OS-5

### N. Dozer Hill

✓ Km-5 0-400 Tc dead.

✓ Km-6 0-30 Qal 0-280 Tc? 280-400 Tbs? dead.

✓ assays as shown. Km-4 0-80 Tc 80-245 Bud 245-365 FGT 365-470 Bud 470-600 FGT

540E-50 ✓ Km-8 0-125 Tc 125-465 Bud 465-600 FGT assays as shown.

✓ Km-10 0-60 Tc 60-150 Bud 150-246 Tbs 246-380 FGT assays as shown.

✓ ~~E/Dreamland~~  
N35W-70 RB-3 70460 0-~~460~~ 460 FGT all dead.  
HIS

### White Alps

✓ ~~RB-7~~ 70300? 150-300 Bud bra. all dead.

### Dreamland

✓ ~~RB-5~~ 70425 0-75 tuff w/alt. plag phenos 0-220 very anom throughout  
ox to 60'  $\pm$  75-425 Tc? then drops off to dead.

✓ ~~RB-4~~ 70500 0-235 Tc  
235-260 anom 0.2-0.6 Au possible?

260-380 Tc?

380-500 tuff intrusive — dead.

D-125 OX

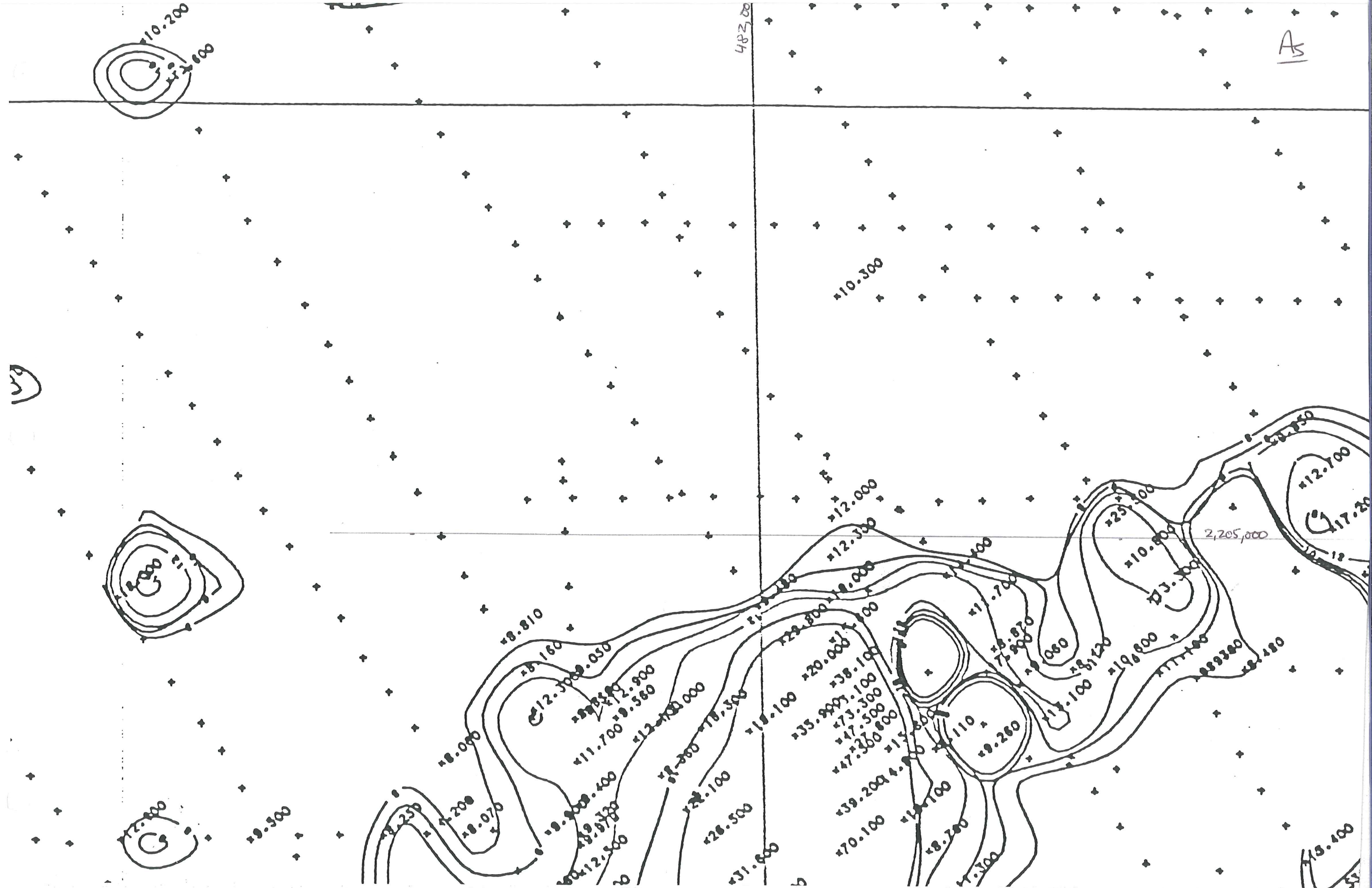
assays as shown.

4

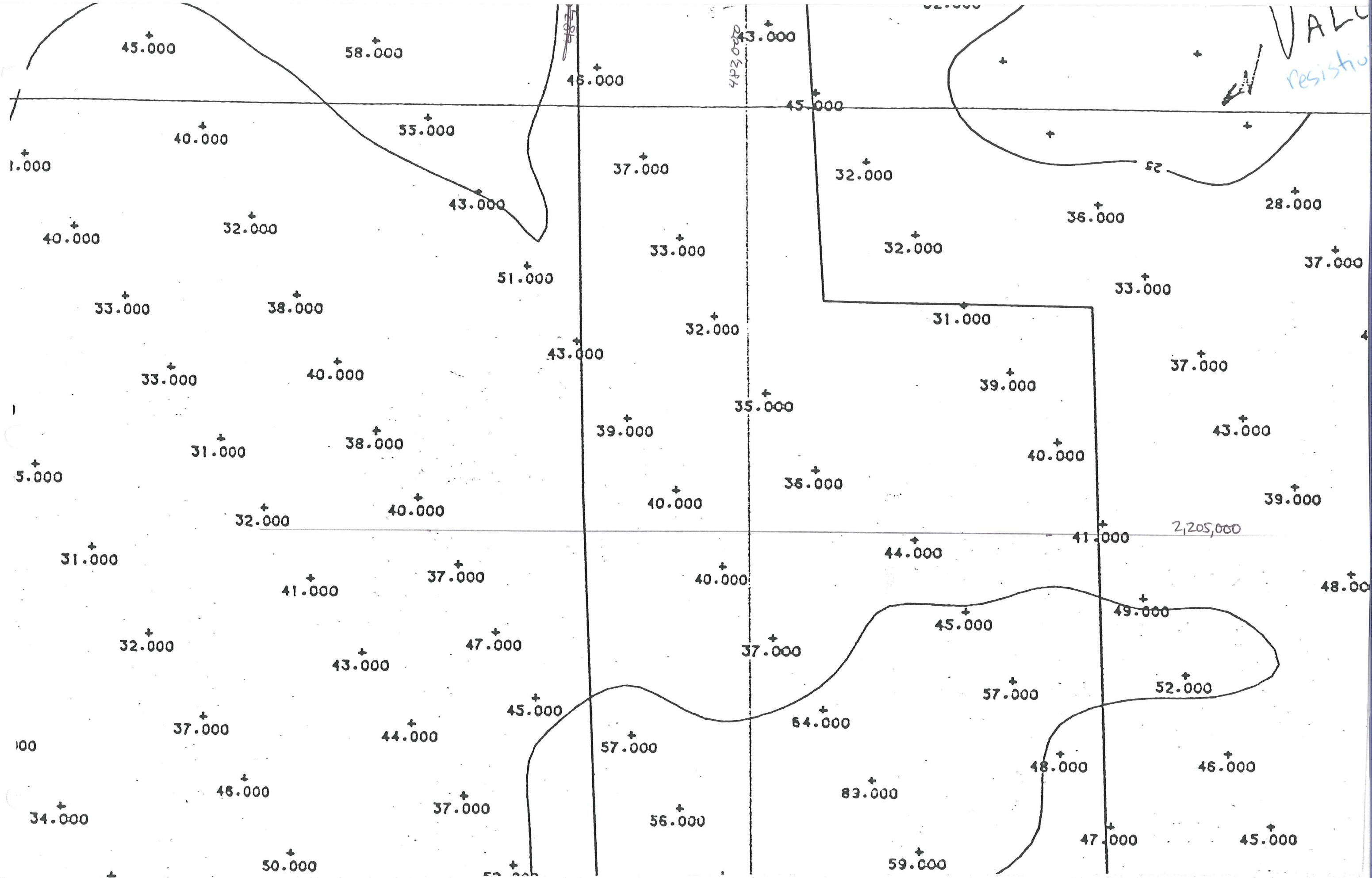
✓ ~~RB-6~~ 70400 365 all Badger 365-400 tuff intr.? (ex) all dead.

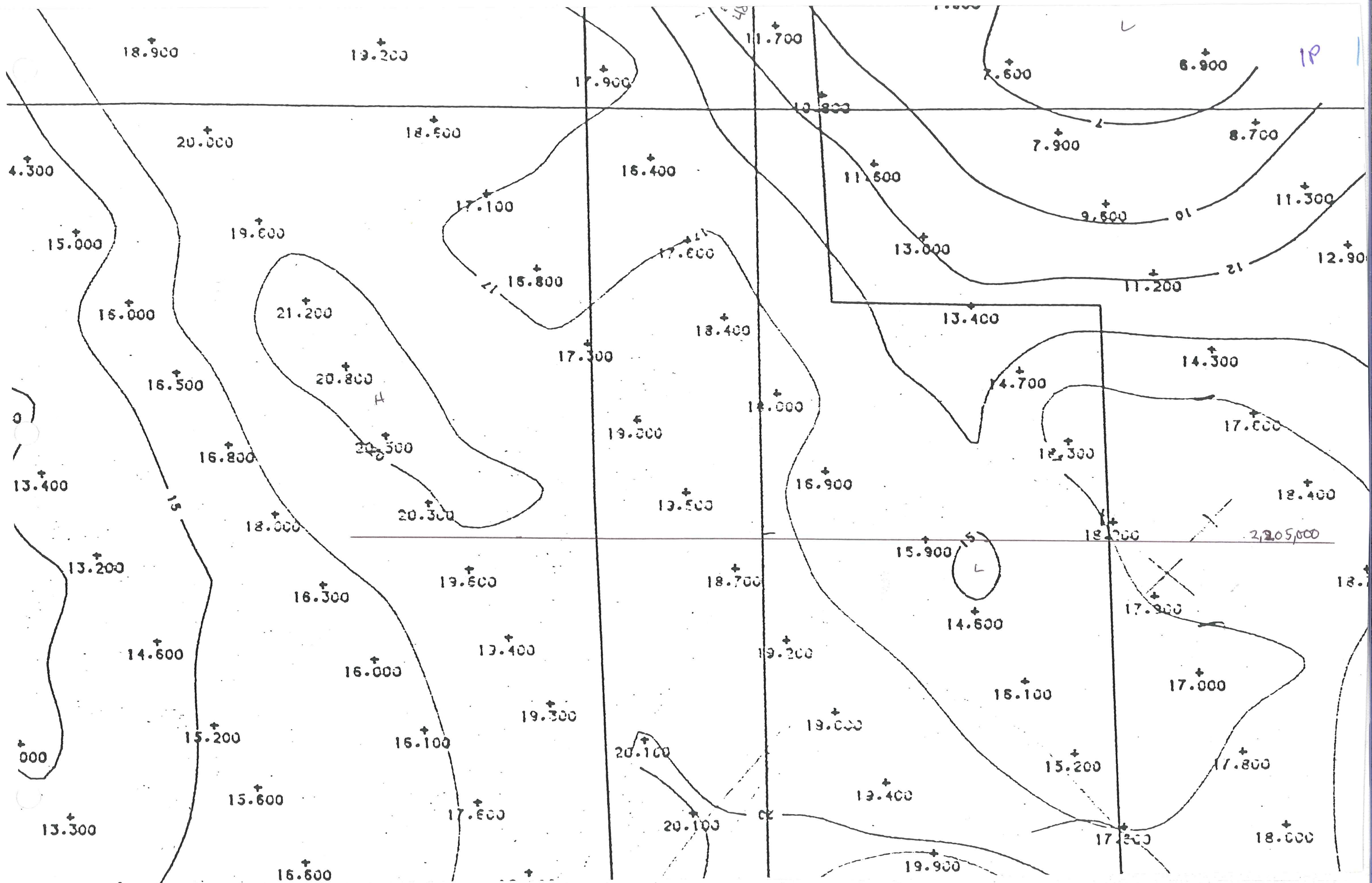
✓ ~~RB-8~~ 0-145 Badger? 145-300 tuff intr.? (ex) all dead.

\* ✓ ~~RB-2~~ 70660 0-30 Tc? 30-150 tuff? 150-250 volcanic sed  
250-310 intr tuff? 310-340 Tc? 340- $\rightarrow$  difficult to understand log  
mostly dead 0-35  $\pm$  100 ppb Au.











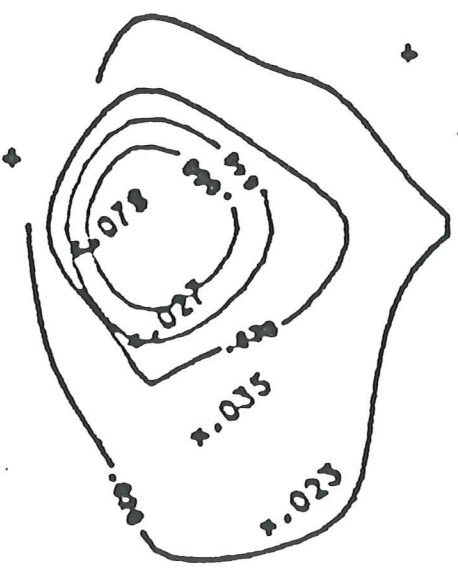
Au

482,000

\*.019

\*.019

\*.024



\*.025

\*.027

\*.021

\*.046

\*.028

\*.024

\*.038

\*.022

\*.047

\*.025

\*.030

\*.017

\*.010

\*.042

\*.026

\*.019

\*.021

\*.023

\*.034

\*.022

\*.016

\*.026

\*.016

\*.047

\*.054

\*.021

\*.043

\*.024

\*.074

\*.164

\*.035

\*.021

\*.019

\*.020

\*.018

\*.017

\*.022

\*.030

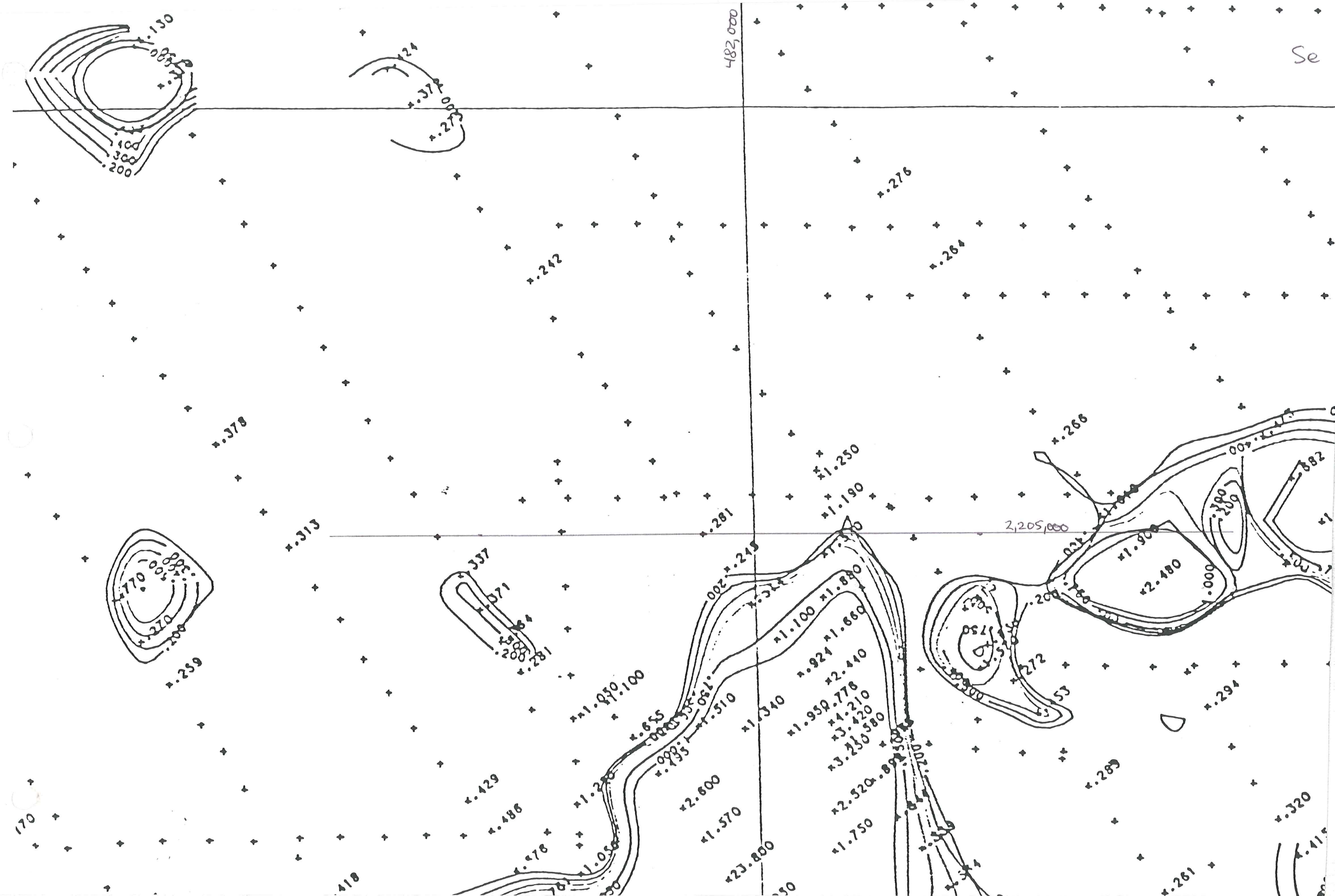
\*.022

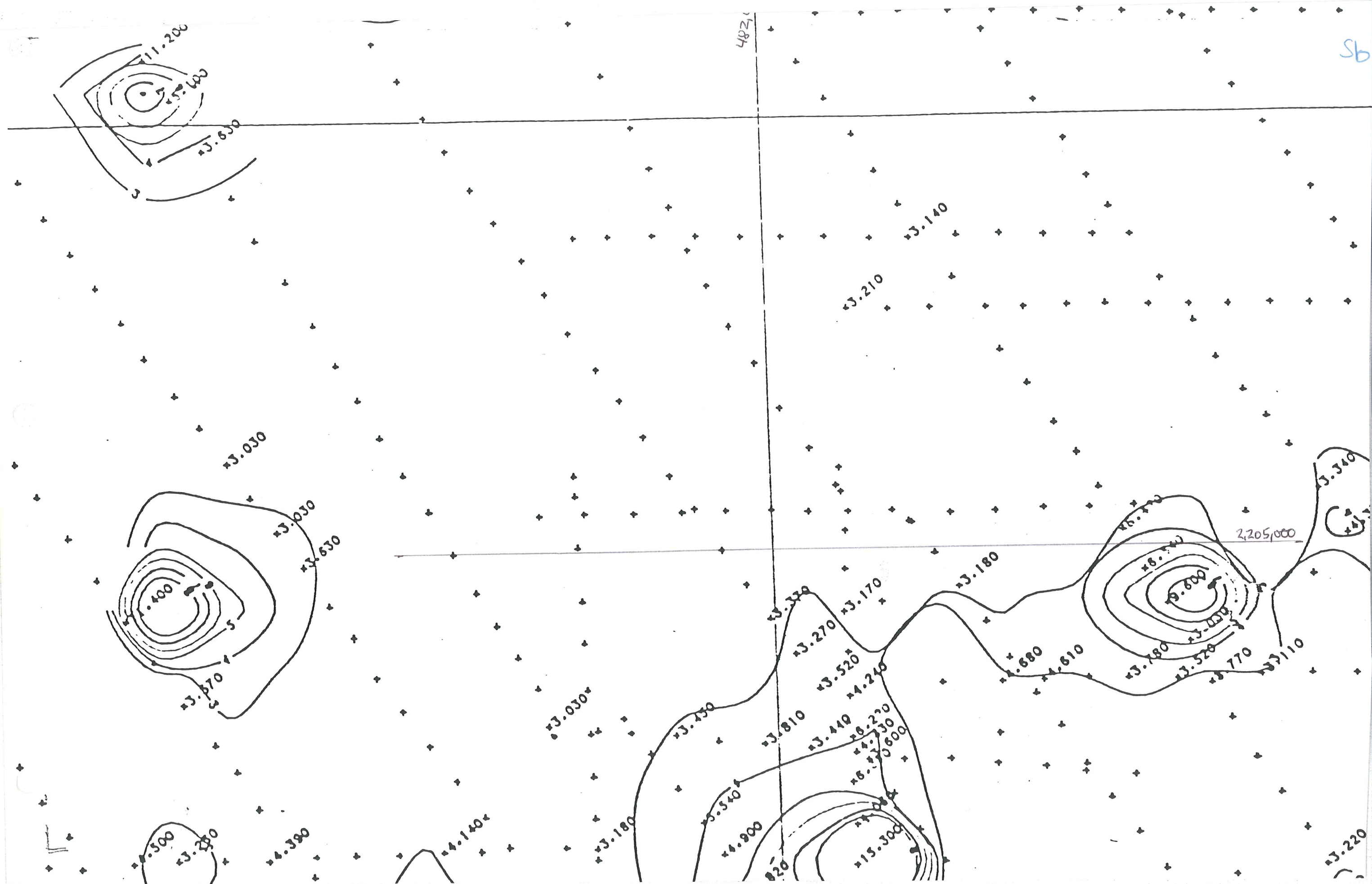
2,205,000

\*.040

\*.070







TARGET IV



## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC : —  
HECLA : SOUTH  
BRADY : TARGET IV

### GENERAL DESCRIPTION

mine sequence of South Ridge w/ anomalous geochem

### GEOLOGY

Ta + Tbs<sub>1</sub> in fault wedge against Td.

### GEOCHEMISTRY

Three strong +100ppb Au soil anomalies. As low as scattered  
Se low. No Sb data.

### GEOPHYSICS

Weak IP anomaly to north of geochem. Resistivity flat.

### DRILLING

4 holes Rh. -42, 43, 44, 45 - located OK. Tbs<sub>1</sub> unit essentially  
tested with negative results.

### REMAINING POTENTIAL

Unknown. curious how such high Au(soil) has no obvious source.

need  
map

# Target IV

Hecla South Target

Lac no target name.

Resistivity line over target → no response.

IP weak response offset to north where drilling.

RL-42 TD 450 vert.

0-45 Ta  $\phi$

best As 50-150 ppm

45-175 Tbs<sub>2</sub> .001

called Dozer Tuff

↓

175-210 Ta  $\phi$

called Dozer Tuff marker. SGT <sup>SGT</sup> Green tuff

< 10 rest

210-283 Tbs<sub>1</sub>  $\phi$

called Dozer Tuff

283-300 Tbs<sub>1</sub>  $\phi$

called 13 leaded Dozer. (green)

300-450 Tbs<sub>1</sub>  $\phi$

called Dozer. (green)

RL-43 TD 310 U76E -60

As < 5-10 all

0-95 Ta (?)  $\phi$

called Bud box

95-310 Tbs<sub>2</sub> (?)  $\phi$

Dozer green.

RL-44 TD 430 S43W -60

20-85 As 50-150 ppm. .01-.011 Au.

0-115 Ta ?  $\phi$  .005-.020

called Dozer.

115-390 Tbs<sub>1</sub>  $\phi$

Lt green. called Dozer

390-430 Tbs<sub>1</sub>  $\phi$

green ~~purple~~. Dozer.

RL-45 TD 490 S46W -61

0-490

Td.  $\phi$

fine grained tuff.

0-20 As 50 ppm

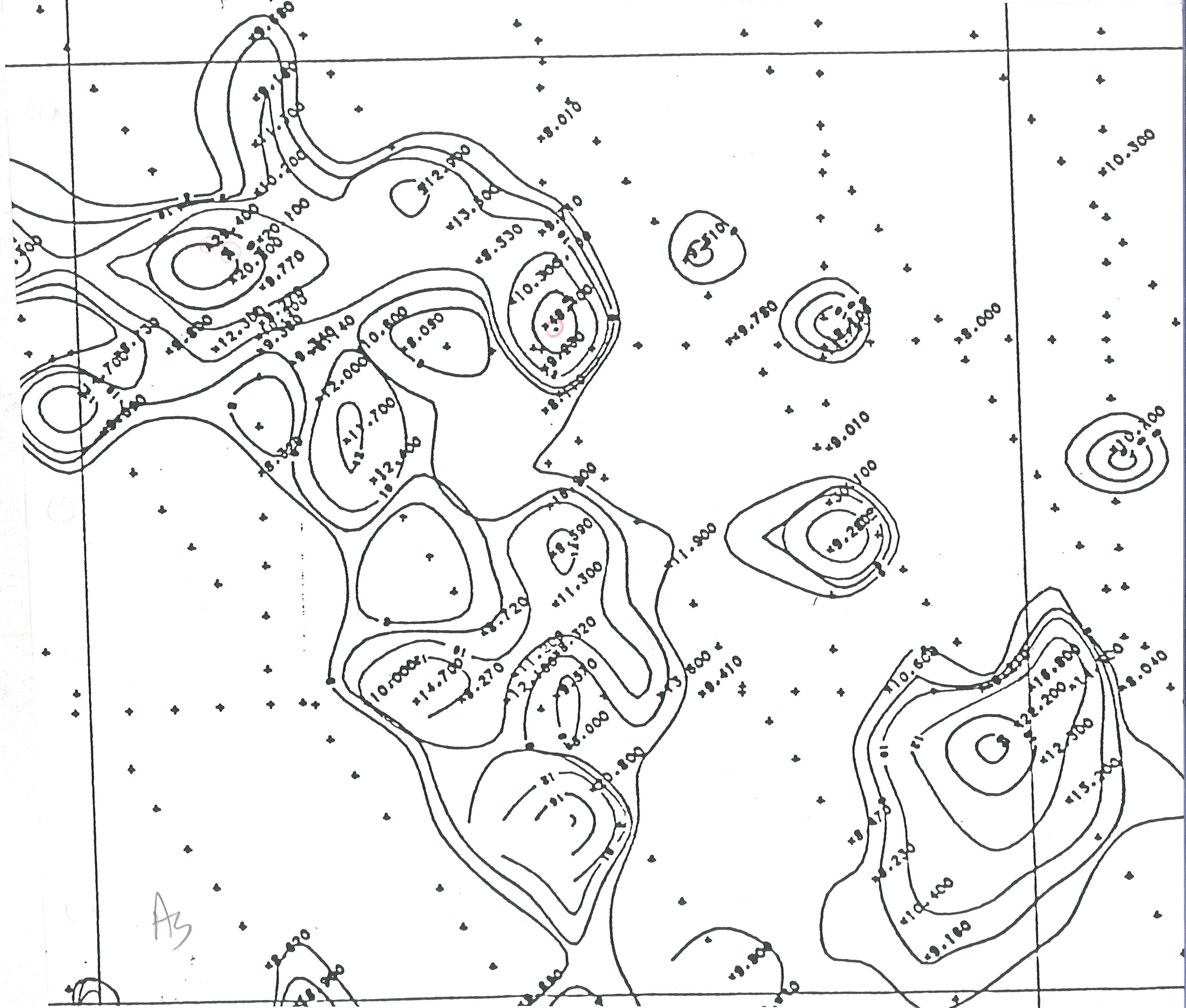
↓

rest < 10

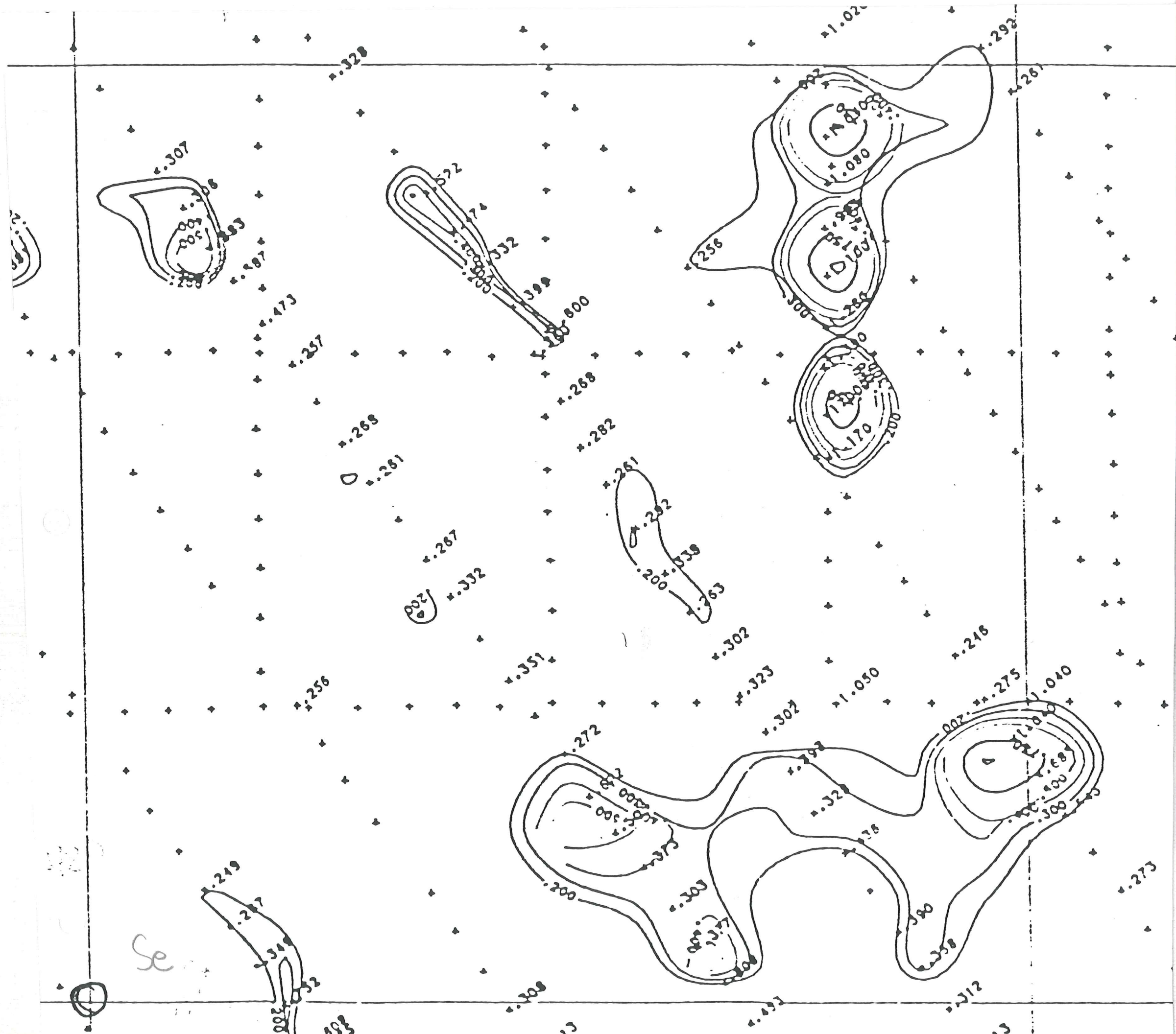
soil geochemistry for Au focused on NW trending fault ± (50ppb)  
scattered to S + E along other features. As. weak (10<sup>-20</sup> ppm)  
Sb dead (< 3 ppm.) Se dead < 2 ppm.

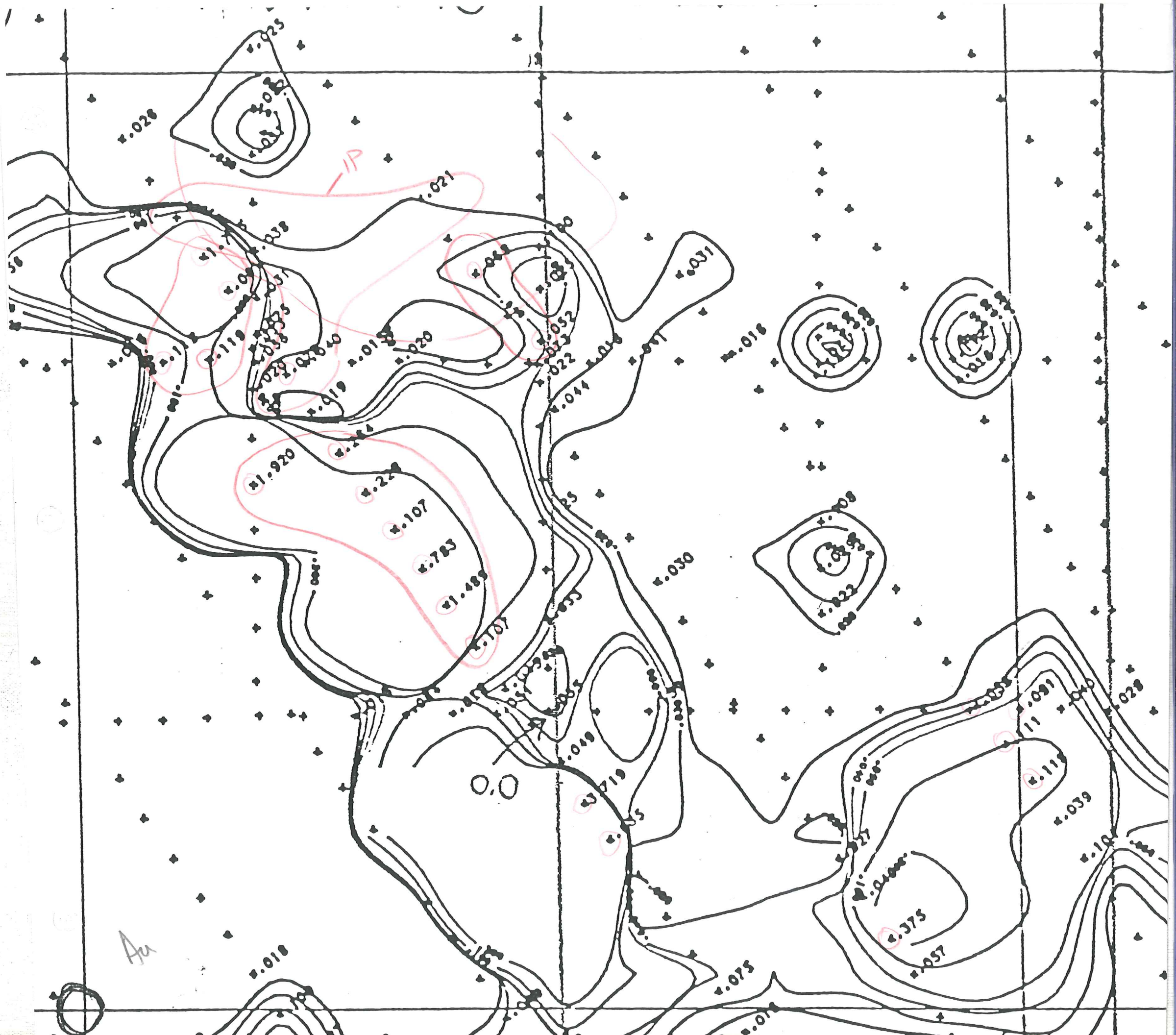
Interesting values in RL-44 but no place to take it → no good area.



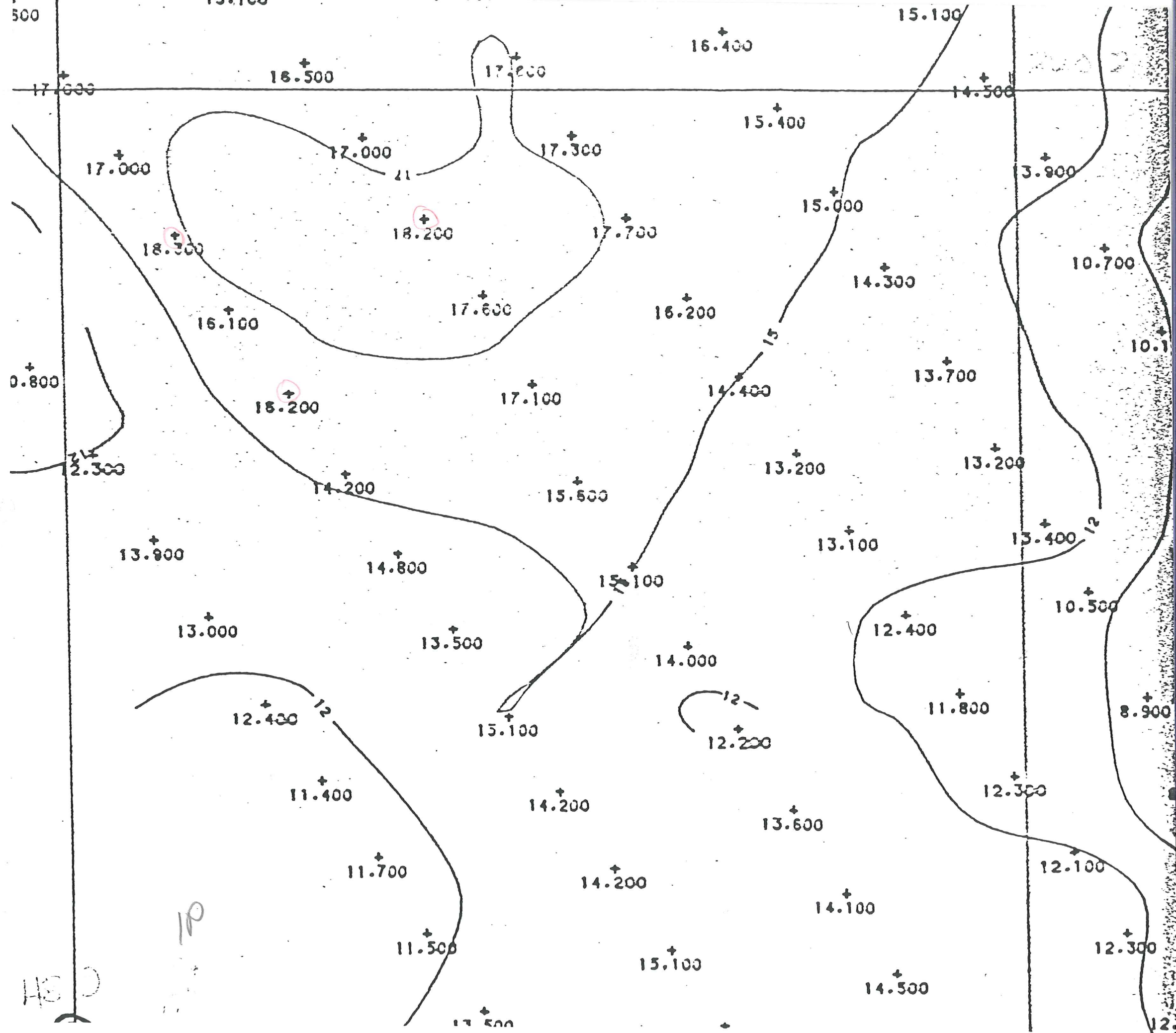














OSCAR

## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC :  
HECLA : OSCAR  
BRADY : TARGET I

### GENERAL DESCRIPTION

Ts w/ hot springs mineralization.

### GEOLOGY

Silicified tuffalglomerate cap, Ts underlies. Basin/Range fault to east. One hole hit Jka at depth. Poor logs can't tell Tv unit below Ts

### GEOCHEMISTRY

Strong geochem. on Oscar Hill → weak off.

### GEOPHYSICS

High IP along range fault to north.

### DRILLING

+8 holes on Oscar Hill show intervals of 0.01-0.02 Au. No higher grade. May want to ~~drill~~ one hole to see if grade increases. Possible test to NE to see if extends off hill but geochem not promising.

### REMAINING POTENTIAL

Looks drill tested. Look for subcropping fault that may have focused mineralization - IP? (no)

Target I = Oscar Target.

everyone agrees on name for area.

- past drilling needs to be compiled + summed up. w/ x-sections.

- best area has been drilled that outcrops with negative results.

- on geoph data run by loc.

on resistivity. main hill high resistivity shallow (+100 ohm-meters)

deep Ls → and deep (+630 ohm meters)

shallow Tc? → while area in valley shows moderate ~~and~~ resistivity shallow (40 ohm-meters) and low deep (less than 30 ohm meters)

on IP. → entire area from main hill north to valley shows

high sulfides?

high shallow (+10 m rads) and deep (+20 m rads)

\* need geophysists to check data

surface geoph sparse but showing anomaly only over main hill and dead towards the north.



Rosebud.

USMX 88-89

OS-6 ✓ TD 255 0-10 Jasp.  
10-35 calcite  
35-140 acid trash, clay (ox)  
140-255 TD unox lake sands

0-80 .006-.007 : 80-105 .010 : 105-145 .006-.007 ; 145-255 <.003

OS-7 ✓ TD 275 0-3 Gal  
3-15 argill. aet LS?  
15-40 Ab Feox + Alunite + silic. volc. local.  
40-225 silic sinter?  
225-255 Volc w/ pyrite.  
255-275 Volc? argillized

0-20 .006 : 20-50 .035 : 50-115 .006-.008 ; 115-230 .004 230-275 .001

OS-8 ✓ TD 145 0-95 ox no desc. poss LS?  
95-145 unox

0-65 .005 : 65-75 .011 : 75-145 .001

OS-9 ✓ TD 225 0-15 Ab Feox no description  
15-50 Ab ~~silic~~ clay " "  
50-85 Mod silic " "  
85-100 acid leached?  
100-135 Ab clay  
135-180 ? ox  
180-225 unox

0-5 .003 : 5-55 .011 : 55-120 .005-.006 120-175 .004 175- .001-.002

OS-10 ✓ TD 115 0-115 wk clay no desc.  
0-5 .008 : 5-115 .001

OS-11 ✓ TD 135 0-135 wk clay no desc.  
0-45 .003-.005 45-135 .001

4 154  
38 4

(05-12) v TD 165 0-80 clay + calcite (weak)  
80-165 unox.

0-30 .006 ; 30-40 .011 ; 40-90 .004-.006 90-165 .001

Lac

(0-13) TD 245 0-65 TV 100 → unox  
65-95 fault zone  
95-200 TV  
200-245 JTRa? } difficult to read log.

0-65 .001-.004 ; 65-130 .010 ; 130-145 .007 145-175 .010 175-200 .004 200-245 .001

(0-14) TD 565 0-205 TV 75 → unox.  
205-500 pebble congl  
500-565 TV

0-125 .001 ; 125-140 .009 ; 140-185 .002 ; 185-275 .005-.006 ; 275-310 .003 310-415 .001

415-430 .004 ; 430-500 .020 ; 500-530 .006 530-565 .001-.003

(0-15) TD 500 0-460 TV 60 → unox  
460-500 JTRa

0-405 .001-.004 405-445 .010 445-460 .005 460-500 <.001

(0-16) TD 475 0-95 Tconglomerate ox  
95-475 " " unox

0-300 <.001 300-330 .006 330-360 .002 360-390 .005 390-475 .002

(0-17) TD 500 0-55 Qal 220-?  
55-220 Green Volcanic?

0-430 .001 or less 430-440 .018 440-475 .002 475-500 .006

(0-18) TD 500 0-125 Tconglomerate (ox)  
125-500 Tcongl (unox).

0-500 ✓

anomalous assays (0-19) TD 635 0-85 ox  
610-635 JTRa

0-20

0-21

0-22

0-23

RDH St. Joe - 1982

(RDH-1) 0-50 @ 0.01 opt. Au 1.0 opt Ag,  $\pm 100$  ppm As,  $\pm 200$  ppm Sb, 2 ppm Hg  
100-160 @ 0.01 0.2 150 15 1  
500 ~~340~~ TD - no geologic log.

(RDH-2) 125-150 0.01 0.15 100 100 1.5  
190-225 0.01 <0.1 80 35 1.5  
480 ~~260~~ TD - no geologic log.

(RDH-3) no gold  
420 TD - no geologic log

(RDH-4) no gold.  
340 TD

RDH-5 no gold.  
500 TD



✓ OS-3 vert 500'  
0-500 Tuff.

$\frac{Ox}{unox} \pm 155$

all dead  $\rightarrow$  looks like totally unmineralized.

✓ OS-4 vert 340


0-340 volc.

poss rhy

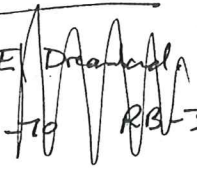
all dead  $\rightarrow$  looks unmineralized.

✓ no log for OS-5

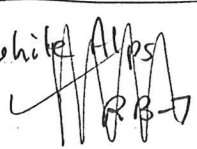
### N. Dore Hill

assays as shown.  Km-5 0-400 TC dead.  
Km-6 0-30 Qal 0-230 TC? 230-400 Tbs? dead.  
Km-4 0-80 TC 80-245 Bud 245-365 FGT 365-470 Bud 470-600 FGT  
540E-50 Km-8 0-125 TC 125-465 Bud 465-600 FGT assays as shown.  
Km-10 0-60 TC 60-150 Bud 150-246 Tbs 246-380 FGT assays as shown.

### E. Dreamland

✓ N35W-70  RB-3 TD460 0-~~460~~460 FGT all dead.  
115

### White Alps

✓  RB-7 TD300? 150-300 Bud bra. all dead.

### Dreamland

✓ RB-5 TD425 0-75 tuff w/alt. plag phenos 0-220 very anom throughout  
Ox to 60'  $\pm$  75-425 TC? then drops off to dead.  
✓ RB-4 TD500 0-235 TC 235-260 anom 0.2-0.6 Au possidite?  
260-380 TC? 0-125 Ox  
380-500 tuff intrusive — dead. assays as shown.

400-465 Intrusive tuff 1

400-465 silic

↓

90-95 @ .016/.2

0-385 all dead

385 → TD no assays.

## Oscar

St. Joe lags. 10/82

✓ OS-1 500 vert.

ox ±280  
unox

0-70 tuff

70-140 Ls.

140-290 tuff

290-<sup>500</sup> gray green tuff

ox ±120  
unox

OS-2 TD 480 vert.

✓ 0-480 Tuff

94C

8C

rest dead.

Hg increasing gradually w/depth.  
to 2.0 ppm.

0-50 .010 Au/.2 Ag/100ppm As 20.5b/2 Hg

100-160 .010 Au/.2 Ag/130 As/15.5b/1 Hg  
rest dead

210-260 <.001/.1 Ag/80/10/0.2

Tos w Tc?

300-350 <.001/<.05/15/<5/0.01

400-450 <.001 <.05/15/<5/0.03

30-40 .010/-/85/29/0.4

50-55 .010/-/55/60/0.7

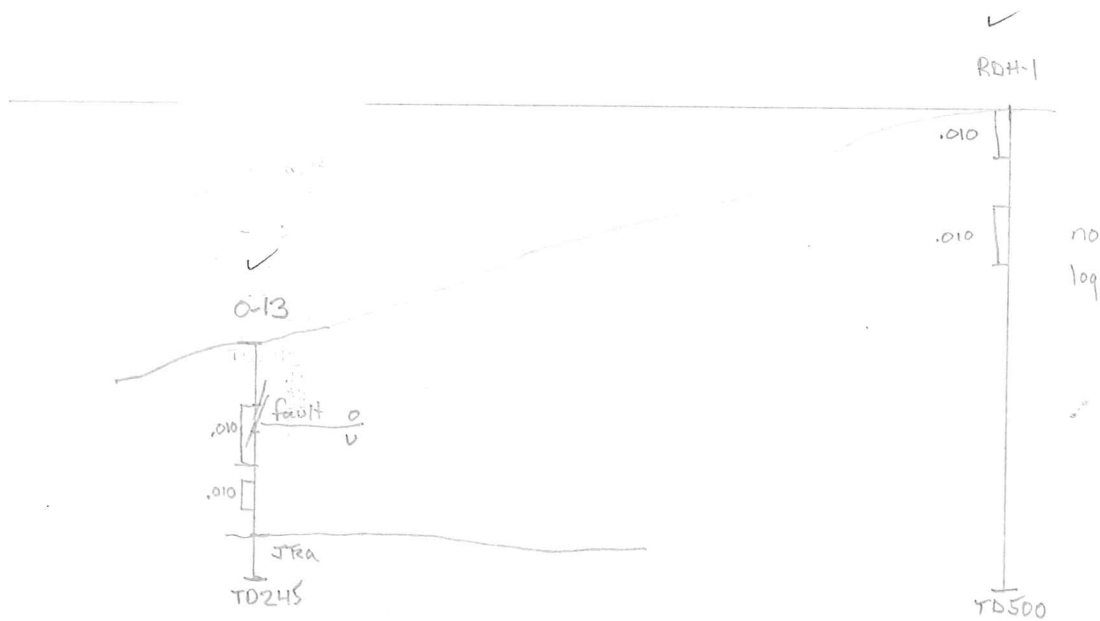
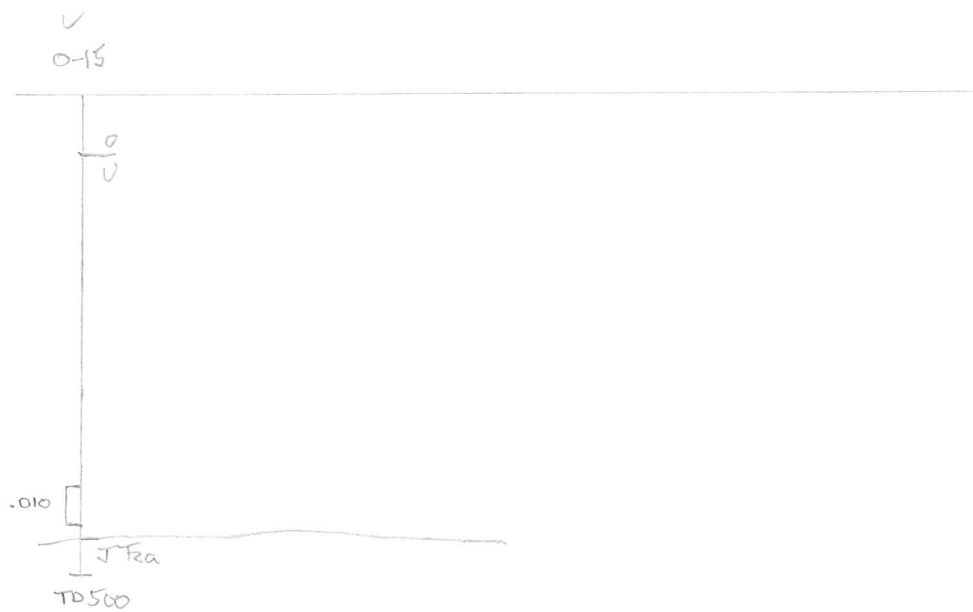
85-95 .010/0.2/100/160/1.7

125-150 .010/.15/120/120/1.2

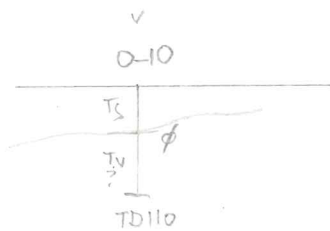
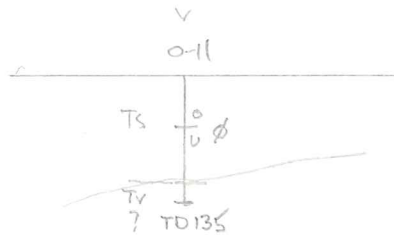
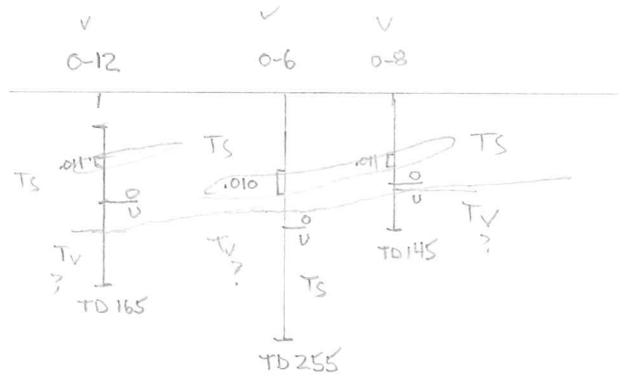
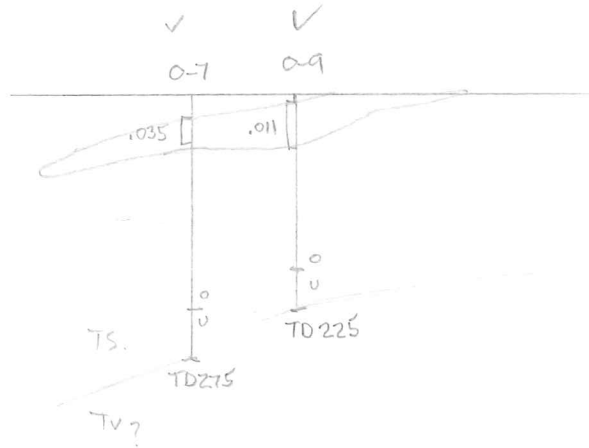
190-225 .010/0.1/90/40/1.8

325-330 .010/-/80/20/1.3

390-395 .010/.4/130/18/2.2







GATOR

## ROSEBUD PROJECT

TARGET NAME EQUINOX/LAC: Gator  
HECLA: Gator  
BRADY: Target VIII

### GENERAL DESCRIPTION

NE Good anomaly

### GEOLOGY

Tc over Tbf. No Tbs zones.

### GEOCHEMISTRY

Weak Au/Ag → essentially no Sb/Se data.

### GEOPHYSICS

none.

### DRILLING

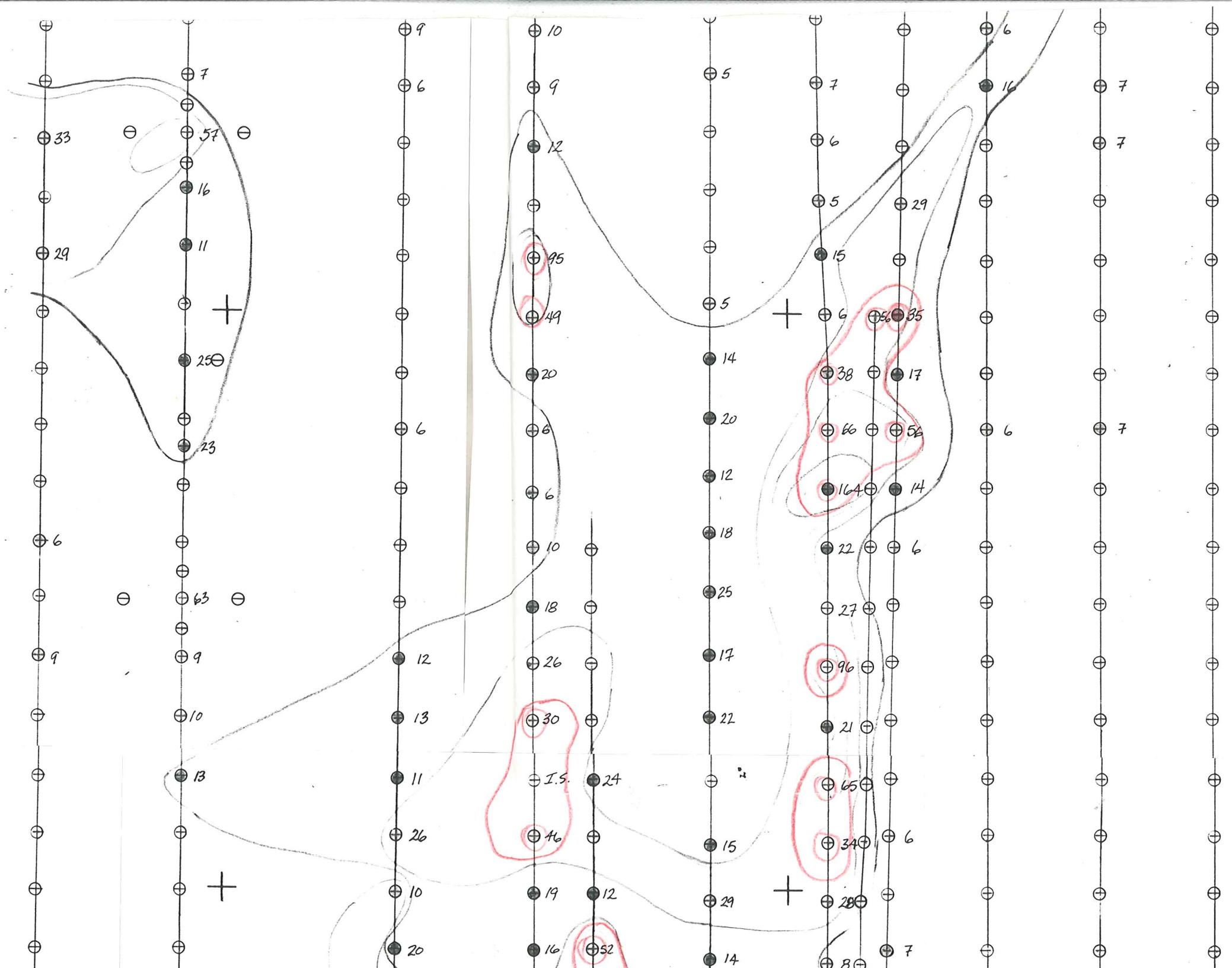
none.

### REMAINING POTENTIAL

Probable NE trending fracture zone. No favorable host only moderate anomalous geochem.



Au  
ppm.



|             |             |            |             |             |             |             |             |             |             |
|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5.0 + G379  |             | 6.0 + G416 | 11.0 + G284 | 2.0 + G247  | 7.0 + G196  | 8.0 + G159  | 10.0 + G108 | 8.0 + G020  | 6.0 + G064  |
| 8.0 + G378  | 9.0 + G335  | 5.0 + G417 | 4.0 + G285  | 5.0 + G246  | 5.0 + G197  | 7.0 + G158  | 16.0 + G109 | 11.0 + G021 | 4.0 + G065  |
| 12.0 + G377 | 64.0 + G334 | 5.0 + G418 | 9.0 + G286  | 6.0 + G245  | 4.0 + G198  | 11.0 + G157 | 10.0 + G110 | 9.0 + G022  | 4.0 + G066  |
| 10.0 + G376 | 4.0 + G333  | 4.0 + G419 | 9.0 + G287  | 2.0 + G244  | 8.0 + G199  | 12.0 + G156 | 10.0 + G111 | 7.0 + G023  | 9.0 + G067  |
| 10.0 + G375 | 5.0 + G332  | 3.0 + G420 | 20.0 + G288 | 5.0 + G243  | 6.0 + G200  | 13.0 + G155 | 9.0 + G112  | 10.0 + G024 | 7.0 + G068  |
| 8.0 + G357  | 7.0 + G331  | 4.0 + G421 | 8.0 + G289  | 4.0 + G242  | 6.0 + G201  | 21.0 + G154 | 9.0 + G113  | 11.0 + G025 | 6.0 + G069  |
| 10.0 + G356 | 11.0 + G330 | 2.0 + G422 | 7.0 + G290  | 4.0 + G241  | 23.0 + G202 | 30.0 + G153 | 10.0 + G114 | 6.0 + G026  | 8.0 + G070  |
| 10.0 + G355 | 5.0 + G329  | 4.0 + G423 | 6.0 + G291  | 6.0 + G240  | 22.0 + G203 | 30.0 + G152 | 10.0 + G115 | 6.0 + G027  | 8.0 + G071  |
| 9.0 + G354  | 8.0 + G327  | 6.0 + G424 | 8.0 + G292  | 13.0 + G239 | 57.0 + G204 | 22.0 + G151 | 7.0 + G116  | 8.0 + G028  | 10.0 + G072 |
| 7.0 + G358  | 8.0 + G326  | 6.0 + G425 | 12.0 + G293 | 8.0 + G238  | 11.0 + G205 | 8.0 + G150  | 8.0 + G117  | 8.0 + G029  | 7.0 + G073  |
| 6.0 + G359  | 9.0 + G325  | 2.0 + G426 | 15.0 + G294 | 12.0 + G237 | 10.0 + G206 | 7.0 + G149  | 10.0 + G118 | 5.0 + G030  | 7.0 + G074  |
| 11.0 + G360 | 8.0 + G324  | 2.0 + G427 | 5.0 + G295  | 10.0 + G236 | 14.0 + G207 | 10.0 + G148 | 7.0 + G119  | 9.0 + G031  | 6.0 + G075  |
| 3.0 + G361  | 6.0 + G323  | 7.0 + G428 | 11.0 + G296 | 10.0 + G235 | 18.0 + G208 | 7.0 + G147  | 8.0 + G120  | 7.0 + G032  | 8.0 + G076  |
| 5.0 + G362  | 8.0 + G322  | 7.0 + G429 | 11.0 + G297 | 11.0 + G234 | 24.0 + G209 | 7.0 + G146  | 11.0 + G121 | 8.0 + G033  | 7.0 + G077  |

|             |            |            |             |             |             |             |             |            |             |
|-------------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|
| 8.0 + G363  | 9.0 + G321 | 2.0 + G430 | 17.0 + G298 | 11.0 + G233 | 11.0 + G210 | 7.0 + G145  | 8.0 + G122  | 5.0 + G034 | 10.0 + G078 |
| 10.0 + G364 | 9.0 + G320 | 5.0 + G431 | 9.0 + G299  | 12.0 + G232 | 11.0 + G211 | 9.0 + G144  | 9.0 + G123  | 7.0 + G035 | 6.0 + G079  |
| 5.0 + G365  | 9.0 + G319 | 5.0 + G432 | 10.0 + G300 | 27.0 + G231 | 10.0 + G212 | 11.0 + G143 | 7.0 + G124  | 6.0 + G036 | 8.0 + G080  |
| 9.0 + G366  | 5.0 + G318 | 7.0 + G433 | 7.0 + G301  | 19.0 + G230 | 8.0 + G213  | 9.0 + G142  | 7.0 + G125  | 7.0 + G037 | 5.0 + G081  |
| 6.0 + G367  | 6.0 + G317 | 5.0 + G434 | 23.0 + G302 | 19.0 + G229 | 10.0 + G214 | 9.0 + G141  | 10.0 + G126 | 8.0 + G038 | 7.0 + G082  |
| 2.0 + G368  | 5.0 + G316 | 5.0 + G435 | 7.0 + G303  | 14.0 + G228 | 13.0 + G215 | 7.0 + G140  | 8.0 + G127  | 5.0 + G039 | 7.0 + G083  |
| 6.0 + G369  | 2.0 + G315 | 2.0 + G436 | 7.0 + G304  | 4.0 + G227  | 10.0 + G216 | 5.0 + G139  | 6.0 + G128  | 4.0 + G040 | 6.0 + G084  |
| 5.0 + G370  | 5.0 + G314 | 4.0 + G437 | 5.0 + G305  | 7.0 + G226  | 11.0 + G217 | 9.0 + G138  | 6.0 + G129  | 5.0 + G041 | 8.0 + G085  |

As ppm

# ROSEBUD PROJECT

TARGET NAME      EQUINOX/LAC :  
                         HECLA :  
                         BRADY :

## GENERAL DESCRIPTION

## GEOLOGY

## GEOCHEMISTRY

## GEOPHYSICS

## DRILLING

## REMAINING POTENTIAL