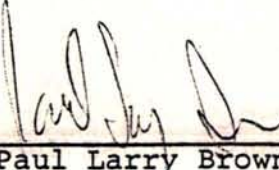




MICROGEOPHYSICS  
CORPORATION

TUSCARORA, NEVADA

GRAVITY SURVEY



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Paul Larry Brown, President

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Dave McManness

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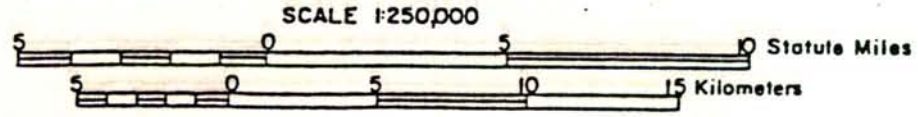
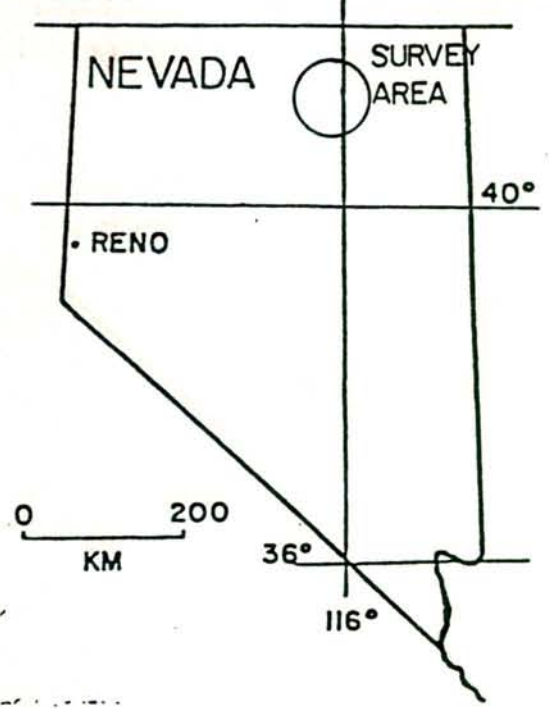
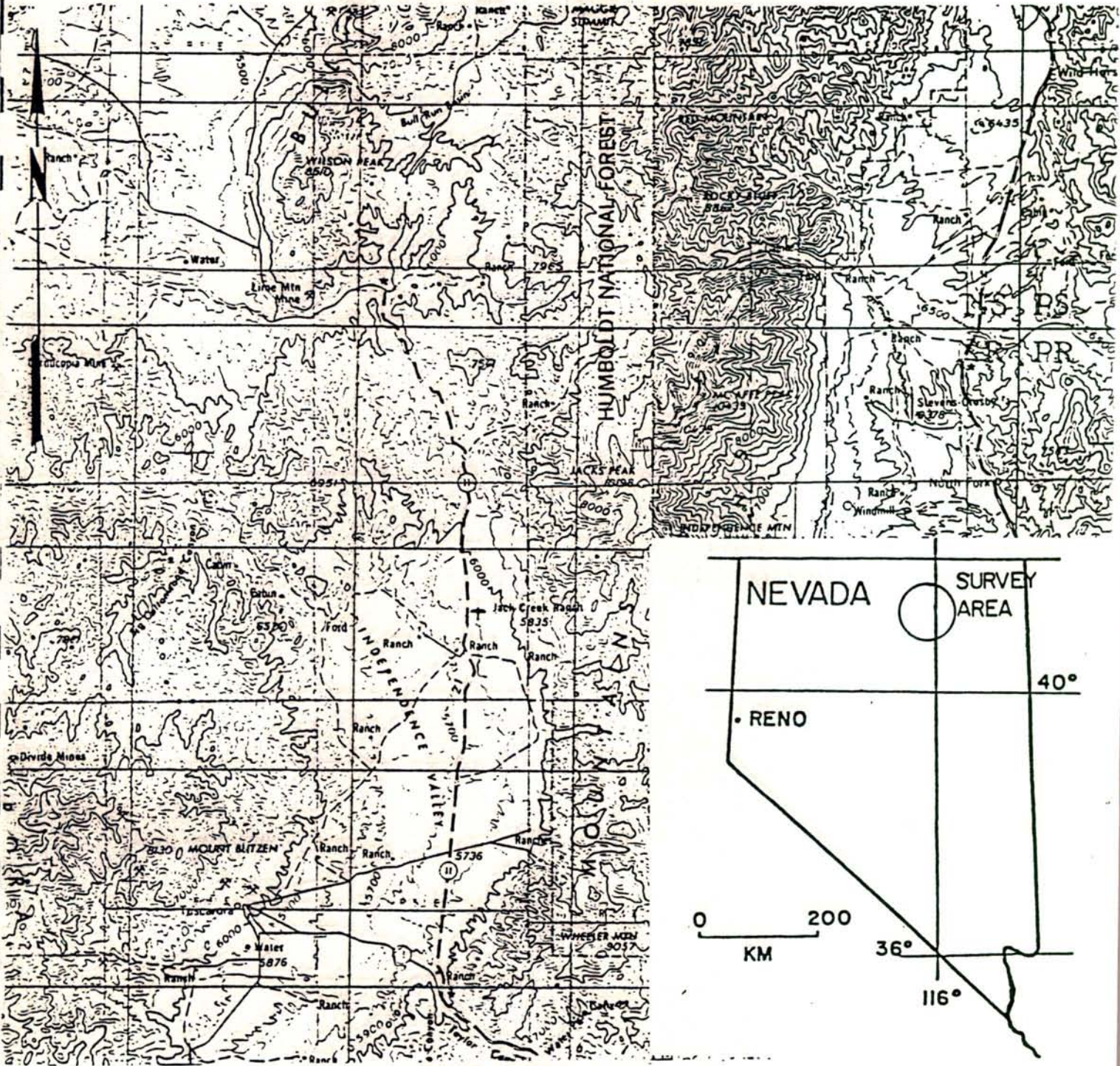
### 1.0.0 INTRODUCTION

In August and September, 1979, MicroGeophysics Corporation performed a gravity survey in and around the Independence Valley just north of Tuscarora, Nevada (Figure 1.1). The gravity survey of 1 square mile station density has as elevation controls, USGS benchmarks, topographic elevations, and where neither existed, vertical control was achieved by barometric altimetry.

Gravity surveys are of particular importance when used as a tool to distinguish structure. The Tuscarora survey area is a complex intermixture of Basin and Range taphrogenic activity that has been partially inundated by basaltic flows and ash flow deposits. The data collected near Tuscarora indicates that the graben containing the Independence Valley is considerably larger than its surface manifestations. In addition to the extended valley structure obtained from the data an anomalous high occurred trending west-northwest through the Sulphur Hot Springs area.

# LOCATION AND INDEX MAP

DRAWN BY MAT. DRAWING NO. 1. U-101. CHECKED BY DATE 12-20-79



## 2.0.0 FIELD PROCEDURE AND INSTRUMENTATION

### 2.1.0 Gravimetry

The gravity measurements taken in the Tuscarora area were made with a LaCoste-Romberg Model G gravimeter number G-470. All readings were taken within a series of closed loops. Closure times for the loops were between 4 and 12 hours. With the uncertainty inherent from the type of vertical control used at Tuscarora, closure times short enough to eliminate earth-tides were not necessary.


Survey locations were chosen along roads at USGS spot elevation and benchmarks. Station spacings were approximately 1 per square mile. Where roads were not available the instrument was back-packed. Vertical control at these stations were USGS spot elevations.

Where spot elevations or benchmarks did not exist in sufficient density barometric leveling was used to achieve vertical control.

### 2.2.0 Altimetry

Altimetry at Tuscarora was performed using an American Paulins System Micro Surveying Altimeter model M-2 in conjunction with a Micro Surveying Barograph model SMB5.

In operation, the micro barograph is placed at a suitable base station with a known elevation. This is selected on basis of spatial and vertical proximity to the area to be surveyed. The



micro surveying altimeter was set at the base value then transported to the desired stations in a cooler on ice. By keeping the altimeter at a constant temperature errors due to inexact thermal compensation are eliminated. In past surveys this thermal error has been found to be the largest error source.

The micro barograph records variations in atmospheric pressure at the base station. This information was later used to correct for drift of the altimeter measurements around the loop. Loop closures were kept to a minimum. Generally closure times were under one and one-half hours except where backpacking of the instrument was necessary.

All altimeter stations along existing roads were performed in three parts. First the gravity readings were made. Then the altimetry was performed in two loops. Each station was enclosed to two identical loops run in opposite directions. This method required more time than taking altimetry measurement along with gravity readings, but minimized the time between altimeter base occupations.


Where backpacking to locations without vertical control the altimeter was carried along with the gravimeter. As with the road work, the altimeter was carried on ice. The drastic decrease in productivity inherent to backpacking limited the number of altimetry occupations to one per station.

### 3.0.0 INTERPRETATION

Observed gravity readings were made throughout the survey area by ties to the International Gravity Network, 1971, at Elko, Nevada. The free-air and Bouguer anomalies (Table 3.1) were calculated using the Geodetic Reference System, 1967. Exact determination of the Bouguer density was not made in this area. An assumed value of 2.67 g/cc was used for this survey area. Table 3.1 lists the observed and theoretical gravity, free-air and Bouguer anomalies (simple), latitude, longitude and elevation for each station. Table 3.2 lists the simple Bouguer anomaly, terrain corrections for the Hammer Zones D-M and the complete Bouguer anomaly. These values were used to generate the complete Bouguer anomaly map (Plate 1).

Plate 2 is a smoothed complete Bouguer anomaly map. The only difference is that several single point anomalies have been removed along with their effect on the neighboring contours. The contour interval has also been decreased from 5 mgal (Plate 1) to 2.5 mgal (Plate 2).

Several points of interest appear on Plate 2. Possibly the single most impressive feature is the Jack Creek fault on the eastern boundary of the Independence Valley. The Independence Valley appears to deepen to the north with maximum valley fill in the vicinity of the Spanish Ranch. To the west, a boundary fault parallel to Jack Creek fracture, defines the western valley margin. A fault system trending roughly N70W and superimposed



on the gravity high near Sulphur Hot Springs and the major east-west off-set on the Jack Creek fault bounds the valley to the north.


An extension of the Independence Valley lies to the north and west of the exposed valley. Surface rocks in this area are Snake River basalts that have inundated the valley. This valley is bound to the east by the Jack Creek fault and to the west by a parallel fault system. An east-west fault bounds the valley to the north. The deepest portion of the valley lies directly north of the Spanish Ranch (Plate 2).

Two gravity highs appear in the area. The most interesting one lies in the central portion of the map near Sulphur Hot Springs. This area approximates the locus of the west-northwest, east-southeast trending northern boundary fault for Independence Valley. A speculative explanation for this high could be either a basalt dike or shallow linear intrusive occurring along the fracture or a density increase from silification along the fracture, or, most likely, a combination of both.

A second gravity high is located to the north of Mt. Blitzen. This area is covered by an extensive layer of welded and non-welded silicic ash flow tuffs.

Comparison of the gravity from this study (Plate 2) and the P-wave delay depth to interface (Plate 5.3, Tuscarora Seismicity prepared for AMAX, 1978) shows a great similarity in gross





structure between the two methods. The Hypocenter map (Plate 4.1, Tuscarora Seismicity) showed activity during the 11 day monitoring period along the Jack Creek fault and the west-northwest, east-southeast trend to the north of Independence Valley.

#### 4.0.0 CONCLUSIONS AND RECOMMENDATIONS

The gravity method as employed near Tuscarora, Nevada produced very good results as to the structure of the Independence Valley and its northern continuation. The gravity high near Sulphur Hot Springs is of importance owing to its proximity to the Hot Springs locations and the offset in the Jack Creek Fault.

Any further work in the Tuscarora area should be primarily centered around the Sulphur Hot Springs Gravity Anomaly. A much more precise definition of the structure and the relation it has to the Jack Creek Fault off-set could be achieved by a pseudo-grid spacing of approximately one station per half-mile over this structural area.

| STATION ID | STATION GRAV. | THEOR. GRAV. | FREE AIR ANOM. | BOUGUER ANOM. | LAT.   | LONG.   | ELEV.  |
|------------|---------------|--------------|----------------|---------------|--------|---------|--------|
| BC1        | 979750.18     | 980307.37    | -6.36          | -206.10       | 41.423 | 116.290 | 5858.0 |
| BC1        | 979750.16     | 980307.37    | -6.38          | -206.11       | 41.423 | 116.290 | 5858.0 |
| BC2        | 979776.43     | 980313.00    | -23.99         | -209.85       | 41.485 | 116.248 | 5451.0 |
| BASE       | 979739.85     | 980309.37    | -18.79         | -218.49       | 41.446 | 116.101 | 5857.0 |
| BC2        | 979776.45     | 980313.00    | -23.97         | -209.83       | 41.485 | 116.267 | 5451.0 |
| BC2        | 979776.49     | 980313.00    | -23.93         | -209.79       | 41.485 | 116.248 | 5451.0 |
| BC1        | 979750.12     | 980307.37    | -6.42          | -206.16       | 41.423 | 116.290 | 5858.0 |
| BC2        | 979776.44     | 980313.00    | -23.98         | -209.84       | 41.485 | 116.248 | 5451.0 |
| 001        | 979670.85     | 980305.88    | 30.94          | -210.56       | 41.406 | 116.294 | 7083.0 |
| 002        | 979659.15     | 980304.69    | 35.84          | -211.26       | 41.393 | 116.260 | 7247.0 |
| 003        | 979755.54     | 980308.31    | -8.43          | -205.81       | 41.434 | 116.286 | 5789.0 |
| 003        | 979755.60     | 980308.31    | -8.37          | -205.75       | 41.434 | 116.286 | 5789.0 |
| 004        | 979761.31     | 980309.25    | -9.99          | -205.05       | 41.444 | 116.278 | 5721.0 |
| 004        | 979761.35     | 980309.25    | -9.95          | -205.01       | 41.444 | 116.278 | 5721.0 |
| 005        | 979765.43     | 980309.75    | -12.10         | -205.08       | 41.449 | 116.269 | 5660.0 |
| 005        | 979765.45     | 980309.75    | -12.07         | -205.06       | 41.449 | 116.269 | 5660.0 |
| 006        | 979769.34     | 980310.56    | -17.74         | -207.55       | 41.458 | 116.255 | 5567.0 |
| 006        | 979769.37     | 980310.56    | -17.71         | -207.52       | 41.458 | 116.255 | 5567.0 |
| 007        | 979772.50     | 980311.38    | -19.72         | -207.96       | 41.468 | 116.253 | 5521.0 |
| 007        | 979772.54     | 980311.38    | -19.68         | -207.92       | 41.468 | 116.253 | 5521.0 |
| 008        | 979776.40     | 980311.81    | -20.67         | -207.31       | 41.473 | 116.226 | 5474.0 |
| 009        | 979773.17     | 980310.75    | -21.62         | -208.71       | 41.460 | 116.221 | 5487.0 |
| 010        | 979770.94     | 980310.06    | -21.56         | -209.23       | 41.453 | 116.214 | 5504.0 |
| 011        | 979767.72     | 980308.81    | -20.99         | -209.58       | 41.439 | 116.188 | 5531.0 |
| 012        | 979752.34     | 980308.44    | -17.39         | -212.73       | 41.435 | 116.170 | 5729.0 |
| 012        | 979752.24     | 980308.44    | -17.49         | -212.82       | 41.435 | 116.170 | 5729.0 |
| 013        | 979675.39     | 980303.44    | 32.75          | -206.88       | 41.379 | 116.238 | 7028.0 |
| 014        | 979661.39     | 980307.37    | 27.22          | -216.91       | 41.423 | 116.268 | 7160.0 |
| 015        | 979691.85     | 980308.69    | 11.82          | -216.15       | 41.437 | 116.242 | 6686.0 |
| 016        | 979674.19     | 980305.19    | 32.34          | -208.21       | 41.399 | 116.248 | 7055.0 |
| 017        | 979702.09     | 980307.62    | 12.03          | -211.91       | 41.426 | 116.226 | 6568.0 |
| 018        | 979697.66     | 980308.19    | 7.60           | -216.55       | 41.432 | 116.212 | 6574.0 |
| 019        | 979713.44     | 980308.69    | 1.73           | -214.74       | 41.438 | 116.215 | 6349.0 |
| 020        | 979709.84     | 980305.88    | 14.95          | -206.60       | 41.407 | 116.216 | 6498.0 |
| 021        | 979692.03     | 980306.25    | 18.76          | -210.77       | 41.411 | 116.231 | 6732.0 |
| 022        | 979666.14     | 980304.50    | 42.17          | -204.62       | 41.390 | 116.243 | 7238.0 |
| 023        | 979741.70     | 980302.37    | -22.90         | -217.90       | 41.367 | 116.106 | 5719.0 |
| 024        | 979742.58     | 980303.69    | -22.68         | -217.91       | 41.381 | 116.101 | 5726.0 |
| 025        | 979743.32     | 980304.50    | -19.94         | -216.19       | 41.391 | 116.101 | 5756.0 |
| 026        | 979743.87     | 980305.50    | -18.97         | -215.74       | 41.403 | 116.101 | 5771.0 |

Table 3.1

| STATION ID | STATION GRAV. | THEOR. GRAV. | FREE AIR ANOM. | BOUGUER ANOM. | LAT.    | LONG.    | ELEV.   |
|------------|---------------|--------------|----------------|---------------|---------|----------|---------|
| 027        | 979742. 65    | 980307. 19   | -20. 66        | -217. 87      | 41. 421 | 116. 103 | 5784. 0 |
| 028        | 979739. 36    | 980308. 12   | -20. 75        | -219. 46      | 41. 432 | 116. 101 | 5828. 0 |
| 029        | 979682. 99    | 980303. 06   | 32. 45         | -204. 18      | 41. 375 | 116. 225 | 6940. 0 |
| 030        | 979698. 96    | 980305. 06   | 17. 57         | -208. 59      | 41. 397 | 116. 212 | 6633. 0 |
| 031        | 979748. 93    | 980302. 62   | -23. 36        | -215. 66      | 41. 370 | 116. 152 | 5640. 0 |
| 032        | 979752. 34    | 980303. 56   | -21. 06        | -213. 30      | 41. 381 | 116. 168 | 5638. 0 |
| 033        | 979728. 14    | 980304. 00   | -3. 69         | -211. 16      | 41. 385 | 116. 183 | 6085. 0 |
| 034        | 979755. 00    | 980304. 69   | -23. 30        | -214. 17      | 41. 393 | 116. 172 | 5598. 0 |
| 035        | 979761. 44    | 980306. 00   | -18. 73        | -209. 39      | 41. 407 | 116. 179 | 5592. 0 |
| 036        | 979735. 74    | 980307. 37   | -6. 33         | -211. 31      | 41. 423 | 116. 192 | 6012. 0 |
| 037        | 979763. 74    | 980307. 19   | -20. 25        | -209. 96      | 41. 420 | 116. 179 | 5564. 0 |
| 038        | 979738. 02    | 980309. 25   | -7. 33         | -211. 81      | 41. 444 | 116. 165 | 5997. 0 |
| 039        | 979771. 41    | 980319. 50   | -14. 28        | -207. 84      | 41. 559 | 116. 205 | 5677. 0 |
| 040        | 979761. 88    | 980322. 00   | -6. 47         | -207. 23      | 41. 586 | 116. 214 | 5888. 0 |
| 041        | 979761. 97    | 980321. 62   | -6. 57         | -207. 12      | 41. 583 | 116. 214 | 5882. 0 |
| 042        | 979790. 50    | 980323. 00   | -15. 60        | -203. 03      | 41. 598 | 116. 264 | 5497. 0 |
| 043        | 979796. 18    | 980323. 37   | -10. 01        | -197. 54      | 41. 602 | 116. 274 | 5500. 0 |
| 044        | 979766. 52    | 980322. 00   | -16. 03        | -211. 63      | 41. 586 | 116. 226 | 5737. 0 |
| 045        | 979763. 65    | 980320. 56   | -11. 43        | -209. 23      | 41. 570 | 116. 213 | 5801. 0 |
| 046        | 979707. 12    | 980322. 00   | 23. 92         | -207. 73      | 41. 586 | 116. 183 | 6794. 0 |
| 047        | 979781. 36    | 980319. 06   | -12. 81        | -203. 13      | 41. 554 | 116. 192 | 5582. 0 |
| 048        | 979776. 99    | 980319. 50   | -13. 30        | -205. 19      | 41. 559 | 116. 173 | 5628. 0 |
| 049        | 979775. 40    | 980320. 13   | -13. 07        | -205. 85      | 41. 565 | 116. 166 | 5654. 0 |
| 050        | 979772. 76    | 980318. 56   | -9. 92         | -204. 23      | 41. 549 | 116. 147 | 5699. 0 |
| 051        | 979777. 02    | 980319. 50   | -26. 05        | -213. 31      | 41. 558 | 116. 234 | 5492. 0 |
| 052        | 979778. 42    | 980320. 25   | -20. 61        | -209. 60      | 41. 566 | 116. 251 | 5543. 0 |
| 053        | 979787. 18    | 980319. 87   | -15. 98        | -203. 34      | 41. 563 | 116. 270 | 5495. 0 |
| 054        | 979776. 69    | 980321. 06   | 3. 26          | -195. 31      | 41. 575 | 116. 293 | 5824. 0 |
| 055        | 979765. 25    | 980319. 19   | 10. 62         | -194. 09      | 41. 554 | 116. 284 | 6004. 0 |
| 056        | 979782. 71    | 980319. 62   | 1. 69          | -193. 61      | 41. 560 | 116. 296 | 5728. 0 |
| 057        | 979696. 35    | 980316. 50   | 36. 23         | -201. 79      | 41. 525 | 116. 283 | 6981. 0 |
| 058        | 979739. 47    | 980315. 56   | 23. 52         | -193. 91      | 41. 514 | 116. 279 | 6377. 0 |
| 059        | 979745. 66    | 980314. 62   | 16. 64         | -195. 71      | 41. 504 | 116. 281 | 6228. 0 |
| 060        | 979736. 36    | 980314. 19   | 7. 88          | -204. 50      | 41. 499 | 116. 264 | 6229. 0 |
| 061        | 979719. 54    | 980316. 00   | 24. 58         | -200. 62      | 41. 519 | 116. 267 | 6605. 0 |
| 062        | 979720. 17    | 980314. 87   | 9. 32          | -209. 71      | 41. 507 | 116. 259 | 6424. 0 |
| 063        | 979717. 74    | 980316. 75   | 26. 54         | -200. 30      | 41. 528 | 116. 269 | 6653. 0 |
| 064        | 979739. 15    | 980317. 75   | 10. 49         | -203. 12      | 41. 539 | 116. 271 | 6265. 0 |
| 065        | 979725. 87    | 980318. 13   | 24. 65         | -199. 05      | 41. 543 | 116. 282 | 6561. 0 |
| 066        | 979742. 52    | 980308. 44   | -26. 55        | -222. 12      | 41. 435 | 116. 131 | 5736. 0 |

Table 3.1

| STATION ID | STATION GRAV. | THEOR. GRAV. | FREE AIR ANOM. | BOUGUER ANOM. | LAT.   | LONG.   | ELEV.  |
|------------|---------------|--------------|----------------|---------------|--------|---------|--------|
| 067        | 979747.35     | 980309.25    | -23.57         | -218.77       | 41.444 | 116.148 | 5725.0 |
| 068        | 979756.81     | 980312.31    | -11.25         | -208.60       | 41.478 | 116.145 | 5788.0 |
| 069        | 979720.26     | 980313.25    | 2.01           | -213.75       | 41.488 | 116.156 | 6328.0 |
| 070        | 979748.78     | 980313.00    | -9.81          | -210.84       | 41.486 | 116.166 | 5896.0 |
| 071        | 979724.00     | 980311.25    | -6.15          | -216.86       | 41.466 | 116.116 | 6180.0 |
| 072        | 979743.26     | 980312.06    | -8.19          | -211.47       | 41.475 | 116.131 | 5962.0 |
| 073        | 979754.77     | 980311.38    | -15.83         | -211.91       | 41.468 | 116.151 | 5751.0 |
| 074        | 979754.25     | 980310.06    | -20.02         | -214.30       | 41.453 | 116.154 | 5698.0 |
| 075        | 979748.95     | 980309.37    | 0.19           | -203.09       | 41.445 | 116.194 | 5962.0 |
| 076        | 979694.05     | 980311.81    | 15.31          | -214.26       | 41.472 | 116.197 | 6733.0 |
| 077        | 979681.57     | 980313.31    | 21.62          | -215.31       | 41.489 | 116.187 | 6949.0 |
| 078        | 979698.54     | 980313.25    | 20.15          | -210.07       | 41.488 | 116.195 | 6752.0 |
| 079        | 979761.68     | 980313.81    | -23.29         | -215.05       | 41.495 | 116.235 | 5624.0 |
| 080        | 979750.46     | 980315.81    | -16.77         | -215.69       | 41.517 | 116.222 | 5834.0 |
| 081        | 979759.25     | 980317.88    | -22.36         | -216.81       | 41.540 | 116.222 | 5703.0 |
| 082        | 979764.96     | 980318.37    | -19.88         | -213.34       | 41.546 | 116.211 | 5674.0 |
| 083        | 979729.19     | 980314.06    | -4.81          | -215.14       | 41.497 | 116.244 | 6169.0 |
| 084        | 979719.91     | 980313.69    | -0.27          | -215.49       | 41.493 | 116.221 | 6312.0 |
| 085        | 979701.13     | 980314.87    | 12.28          | -214.73       | 41.506 | 116.206 | 6658.0 |
| 086        | 979682.01     | 980316.00    | 16.94          | -219.11       | 41.520 | 116.187 | 6923.0 |
| 087        | 979706.76     | 980317.56    | 12.11          | -213.77       | 41.536 | 116.179 | 6625.0 |
| 088        | 979690.15     | 980317.06    | 12.36          | -219.46       | 41.531 | 116.154 | 6799.0 |
| 089        | 979690.50     | 980315.69    | 8.82           | -221.09       | 41.516 | 116.143 | 6743.0 |
| 090        | 979695.06     | 980314.87    | 7.71           | -219.84       | 41.507 | 116.128 | 6674.0 |
| 091        | 979704.49     | 980313.44    | 2.32           | -219.34       | 41.491 | 116.115 | 6501.0 |
| 092        | 979713.95     | 980312.87    | -0.44          | -217.46       | 41.485 | 116.118 | 6365.0 |
| 093        | 979639.19     | 980317.56    | 30.63          | -226.49       | 41.536 | 116.101 | 7541.0 |
| 094        | 979680.84     | 980318.00    | 49.95          | -199.22       | 41.542 | 116.051 | 7308.0 |
| 095        | 979687.28     | 980319.19    | 37.16          | -205.47       | 41.555 | 116.071 | 7116.0 |
| 096        | 979675.05     | 980319.62    | 50.14          | -201.79       | 41.560 | 116.052 | 7389.0 |
| 097        | 979650.36     | 980320.94    | 55.80          | -207.62       | 41.574 | 116.068 | 7726.0 |
| 098        | 979638.76     | 980320.81    | 61.06          | -208.44       | 41.573 | 116.055 | 7904.0 |
| 099        | 979639.12     | 980321.88    | 71.25          | -202.20       | 41.585 | 116.006 | 8020.0 |
| 100        | 979690.72     | 980318.56    | 48.08          | -197.03       | 41.549 | 116.011 | 7189.0 |
| 101        | 979699.04     | 980317.75    | 45.28          | -195.51       | 41.539 | 116.021 | 7062.0 |
| 102        | 979705.48     | 980317.75    | 40.15          | -196.44       | 41.539 | 116.033 | 6939.0 |
| 103        | 979717.57     | 980317.44    | 32.16          | -197.03       | 41.535 | 116.044 | 6722.0 |
| 104        | 979719.99     | 980316.62    | 29.76          | -197.39       | 41.526 | 116.047 | 6662.0 |
| 105        | 979766.64     | 980322.06    | -6.84          | -205.76       | 41.587 | 116.139 | 5834.0 |
| 106        | 979772.44     | 980320.56    | -10.08         | -205.17       | 41.570 | 116.144 | 5722.0 |

Table 3.1

| STATION ID | STATION GRAV. | THEOR. GRAV. | FREE AIR ANOM. | BOUGUER ANOM. | LAT.   | LONG.   | ELEV.   |
|------------|---------------|--------------|----------------|---------------|--------|---------|---------|
| 107        | 979762.37     | 980318.94    | -9.78          | -208.05       | 41.553 | 116.143 | 5815.0  |
| 108        | 979751.28     | 980318.13    | -10.28         | -212.09       | 41.544 | 116.134 | 5919.0  |
| 109        | 979732.20     | 980317.06    | -5.55          | -215.62       | 41.531 | 116.127 | 6161.0  |
| 110        | 979715.43     | 980316.50    | 4.56           | -215.06       | 41.525 | 116.116 | 6441.0  |
| 111        | 979723.45     | 980315.00    | -0.86          | -215.05       | 41.508 | 116.109 | 6282.0  |
| 112        | 979735.15     | 980314.25    | 0.21           | -209.85       | 41.500 | 116.101 | 6161.0  |
| 113        | 979736.66     | 980314.87    | 9.83           | -203.40       | 41.507 | 116.093 | 6254.0  |
| 114        | 979732.84     | 980315.06    | 17.29          | -200.10       | 41.509 | 116.073 | 6376.0  |
| 115        | 979643.71     | 980314.25    | 58.66          | -205.79       | 41.500 | 116.054 | 7756.0  |
| 116        | 979724.50     | 980315.44    | 21.92          | -200.31       | 41.513 | 116.059 | 6518.0  |
| 117        | 979655.91     | 980316.62    | 65.58          | -197.82       | 41.526 | 116.030 | 7725.0  |
| 118        | 979474.45     | 980313.00    | 120.08         | -227.63       | 41.486 | 116.006 | 10198.0 |
| 119        | 979511.61     | 980313.31    | 114.47         | -217.83       | 41.490 | 116.016 | 9746.0  |
| 120        | 979549.83     | 980310.31    | 86.08          | -220.95       | 41.456 | 116.031 | 9005.0  |
| 121        | 979577.65     | 980310.06    | 77.88          | -215.99       | 41.453 | 116.039 | 8619.0  |
| 122        | 979750.70     | 980322.19    | 2.94           | -205.35       | 41.589 | 116.093 | 6109.0  |
| 123        | 979756.29     | 980320.56    | 0.85           | -204.07       | 41.570 | 116.091 | 6010.0  |
| 124        | 979761.73     | 980320.69    | -5.03          | -205.89       | 41.572 | 116.106 | 5891.0  |
| 125        | 979768.99     | 980320.94    | -8.26          | -205.40       | 41.574 | 116.119 | 5782.0  |
| 126        | 979771.28     | 980320.69    | -9.11          | -205.02       | 41.571 | 116.131 | 5746.0  |
| 127        | 979748.73     | 980321.25    | 1.99           | -206.33       | 41.578 | 116.135 | 6110.0  |
| 128        | 979593.87     | 980309.25    | 77.15          | -210.28       | 41.444 | 116.025 | 8430.0  |
| 129        | 979616.49     | 980308.56    | 68.24          | -207.49       | 41.436 | 116.032 | 8087.0  |
| 130        | 979665.23     | 980308.69    | 50.42          | -201.21       | 41.438 | 116.043 | 7380.0  |
| 131        | 979695.43     | 980307.87    | 42.43          | -195.05       | 41.429 | 116.021 | 6965.0  |
| 132        | 979700.50     | 980307.50    | 34.81          | -197.93       | 41.425 | 116.036 | 6826.0  |
| 133        | 979709.70     | 980306.94    | 26.53          | -199.66       | 41.419 | 116.047 | 6634.0  |
| 134        | 979724.55     | 980307.37    | 16.78          | -200.64       | 41.424 | 116.054 | 6377.0  |
| 135        | 979562.92     | 980312.19    | 87.90          | -215.73       | 41.477 | 116.028 | 8905.0  |
| 136        | 979643.98     | 980311.81    | -15.87         | -252.29       | 41.472 | 116.058 | 6934.0  |
| 137        | 979721.03     | 980311.50    | 20.42          | -201.10       | 41.469 | 116.069 | 6497.0  |
| 138        | 979686.69     | 980313.31    | 34.45          | -205.27       | 41.490 | 116.080 | 7031.0  |
| 139        | 979713.52     | 980312.62    | 24.38          | -201.71       | 41.482 | 116.081 | 6631.0  |
| 140        | 979735.22     | 980311.81    | 14.28          | -199.98       | 41.473 | 116.081 | 6284.0  |
| 141        | 979738.96     | 980311.69    | 1.51           | -206.71       | 41.471 | 116.093 | 6107.0  |
| 142        | 979679.74     | 980306.25    | 41.89          | -200.49       | 41.410 | 116.042 | 7109.0  |
| 143        | 979665.68     | 980305.31    | 53.77          | -197.68       | 41.400 | 116.013 | 7375.0  |
| 144        | 979652.18     | 980306.12    | 56.47          | -201.16       | 41.408 | 116.022 | 7556.0  |
| 145        | 979682.33     | 980305.44    | 38.35          | -201.52       | 41.401 | 116.041 | 7035.0  |
| 146        | 979707.06     | 980304.62    | 29.68          | -197.77       | 41.391 | 116.046 | 6671.0  |

Table 3.1

| STATION ID | STATION GRAV. | THEOR. GRAV. | FREE AIR ANOM. | BOUGUER ANOM. | LAT.   | LONG.   | ELEV.  |
|------------|---------------|--------------|----------------|---------------|--------|---------|--------|
| 147        | 979737.35     | 980305.75    | 13.08          | -197.77       | 41.405 | 116.053 | 6184.0 |
| 148        | 979745.50     | 980306.12    | 3.93           | -200.78       | 41.409 | 116.061 | 6004.0 |
| 149        | 979745.56     | 980304.81    | -9.55          | -208.87       | 41.394 | 116.068 | 5846.0 |
| 150        | 979744.65     | 980305.50    | -4.84          | -206.45       | 41.402 | 116.071 | 5913.0 |
| 151        | 979743.19     | 980306.44    | -8.19          | -209.45       | 41.413 | 116.075 | 5903.0 |
| 152        | 979741.57     | 980306.81    | -13.84         | -213.78       | 41.416 | 116.087 | 5864.0 |
| 153        | 979736.02     | 980309.00    | -15.66         | -217.75       | 41.441 | 116.089 | 5927.0 |
| 154        | 979735.84     | 980309.00    | -7.95          | -212.90       | 41.442 | 116.084 | 6011.0 |
| 155        | 979731.08     | 980309.00    | 1.58           | -208.55       | 41.442 | 116.075 | 6163.0 |
| 156        | 979720.21     | 980309.13    | 14.55          | -204.28       | 41.442 | 116.066 | 6418.0 |
| 157        | 979738.27     | 980308.44    | -16.61         | -217.33       | 41.435 | 116.091 | 5887.0 |
| 158        | 979740.76     | 980307.87    | -18.54         | -217.46       | 41.428 | 116.093 | 5834.0 |
| 159        | 979738.83     | 980307.50    | -14.55         | -215.47       | 41.424 | 116.084 | 5893.0 |
| 160        | 979739.16     | 980307.19    | -9.02          | -211.72       | 41.420 | 116.074 | 5945.0 |
| 161        | 979746.67     | 980303.69    | -6.93          | -206.39       | 41.382 | 116.064 | 5850.0 |
| 162        | 979744.19     | 980303.81    | -10.01         | -209.30       | 41.383 | 116.073 | 5845.0 |
| 163        | 979742.35     | 980303.81    | -14.58         | -212.88       | 41.383 | 116.083 | 5816.0 |
| 164        | 979743.42     | 980303.88    | -15.08         | -212.83       | 41.385 | 116.083 | 5800.0 |
| 165        | 979741.30     | 980303.31    | -17.57         | -214.98       | 41.377 | 116.089 | 5790.0 |
| 166        | 979740.36     | 980302.75    | -19.82         | -216.56       | 41.371 | 116.099 | 5770.0 |
| 167        | 979742.92     | 980305.06    | -10.18         | -210.32       | 41.397 | 116.082 | 5870.0 |
| 168        | 979742.59     | 980304.38    | -14.06         | -212.67       | 41.389 | 116.088 | 5825.0 |
| 169        | 979735.79     | 980310.44    | -2.86          | -210.20       | 41.457 | 116.091 | 6081.0 |
| 170        | 979737.84     | 980310.56    | -14.18         | -216.71       | 41.459 | 116.104 | 5940.0 |
| 171        | 979738.36     | 980311.38    | -4.33          | -210.54       | 41.468 | 116.104 | 6048.0 |
| 172        | 979741.05     | 980311.94    | -1.45          | -207.93       | 41.474 | 116.100 | 6056.0 |
| 173        | 979740.13     | 980312.87    | 1.21           | -206.92       | 41.484 | 116.100 | 6104.0 |
| 174        | 979736.16     | 980313.56    | -0.25          | -209.53       | 41.492 | 116.101 | 6138.0 |
| 175        | 979744.73     | 980307.19    | -25.53         | -220.22       | 41.420 | 116.113 | 5710.0 |
| 176        | 979742.66     | 980308.00    | -26.73         | -222.03       | 41.430 | 116.123 | 5728.0 |
| 177        | 979740.36     | 980308.81    | -27.12         | -223.41       | 41.439 | 116.118 | 5757.0 |
| 178        | 979738.41     | 980309.50    | -25.24         | -223.17       | 41.447 | 116.111 | 5805.0 |
| 179        | 979738.31     | 980309.50    | -25.43         | -223.32       | 41.447 | 116.126 | 5804.0 |
| 180        | 979748.31     | 980308.56    | -25.86         | -219.63       | 41.437 | 116.147 | 5683.0 |
| 181        | 979714.76     | 980308.81    | 13.64          | -206.72       | 41.440 | 116.069 | 6463.0 |
| 182        | 979668.91     | 980308.94    | 42.95          | -204.73       | 41.440 | 116.052 | 7264.0 |
| 183        | 979631.57     | 980310.06    | 56.17          | -210.26       | 41.453 | 116.053 | 7814.0 |
| 184        | 979745.93     | 980306.44    | -23.77         | -218.39       | 41.413 | 116.114 | 5708.0 |
| 185        | 979747.42     | 980305.75    | -24.32         | -217.95       | 41.405 | 116.124 | 5679.0 |
| 186        | 979746.68     | 980305.31    | -23.87         | -217.77       | 41.400 | 116.108 | 5687.0 |

Table 3.1

| STATION ID | STATION GRAV. | THEOR. GRAV. | FREE AIR ANOM. | BOUGUER ANOM. | LAT.   | LONG.   | ELEV.  |
|------------|---------------|--------------|----------------|---------------|--------|---------|--------|
| 187        | 979748.82     | 980305.19    | -24.70         | -217.48       | 41.399 | 116.138 | 5654.0 |
| 188        | 979750.25     | 980305.50    | -26.22         | -218.05       | 41.402 | 116.150 | 5626.0 |
| 189        | 979748.00     | 980305.19    | -24.02         | -217.35       | 41.399 | 116.130 | 5670.0 |
| 190        | 979745.81     | 980304.50    | -24.02         | -217.89       | 41.391 | 116.121 | 5686.0 |
| 191        | 979746.32     | 980307.62    | -25.98         | -220.08       | 41.426 | 116.125 | 5693.0 |
| 192        | 979753.28     | 980307.50    | -23.12         | -215.69       | 41.424 | 116.152 | 5648.0 |
| 193        | 979749.64     | 980304.00    | -23.64         | -216.08       | 41.385 | 116.145 | 5644.0 |
| 194        | 979750.01     | 980304.62    | -25.12         | -217.11       | 41.392 | 116.151 | 5631.0 |
| 195        | 979744.82     | 980303.69    | -20.63         | -215.79       | 41.382 | 116.118 | 5724.0 |
| 301        | 979769.74     | 980319.37    | -12.25         | -207.11       | 41.557 | 116.248 | 5715.0 |
| 302        | 979751.89     | 980316.62    | -2.44          | -206.33       | 41.527 | 116.250 | 5980.0 |
| 303        | 979780.24     | 980319.31    | -15.78         | -205.52       | 41.556 | 116.251 | 5565.0 |
| 304        | 979707.76     | 980316.25    | 31.44          | -200.62       | 41.522 | 116.076 | 6806.0 |
| 305        | 979677.91     | 980317.31    | 45.07          | -203.15       | 41.534 | 116.073 | 7280.0 |
| 306        | 979705.77     | 980316.50    | 21.87          | -207.53       | 41.524 | 116.149 | 6728.0 |
| 307        | 979742.31     | 980319.50    | -0.70          | -209.74       | 41.559 | 116.115 | 6131.0 |
| 308        | 979729.20     | 980319.31    | 11.10          | -206.91       | 41.556 | 116.096 | 6394.0 |
| 309        | 979738.68     | 980314.50    | -7.89          | -213.83       | 41.503 | 116.162 | 6040.0 |
| 310        | 979728.05     | 980315.81    | 0.10           | -213.07       | 41.517 | 116.157 | 6252.0 |
| 311        | 979670.81     | 980311.25    | 34.54          | -210.24       | 41.467 | 116.042 | 7179.0 |
| 312        | 979727.68     | 980311.94    | -2.97          | -213.75       | 41.474 | 116.179 | 6182.0 |
| 313        | 979743.70     | 980311.13    | -9.83          | -212.02       | 41.465 | 116.185 | 5930.0 |
| 314        | 979751.36     | 980310.75    | -17.86         | -214.22       | 41.461 | 116.168 | 5759.0 |

Table 3.1



| STA  | ELEV  | SBA     | ZONES |     |     | KME   | KMN   | CBA    | NUMB |
|------|-------|---------|-------|-----|-----|-------|-------|--------|------|
|      |       |         | D-H   | I-J | K-M |       |       |        |      |
| BC1  | 5858. | -206.11 | 4.9   | 1.0 | 0.2 | 18.51 | 23.54 | -200.0 | 0    |
| BC2  | 5451. | -209.85 | 0.6   | 0.5 | 0.3 | 22.00 | 30.39 | -208.5 | 10   |
| BASE | 5857. | -218.49 | 0.1   | 0.6 | 0.3 | 34.33 | 26.00 | -217.5 | 20   |
| 001  | 7083. | -210.56 | 4.6   | 0.4 | 0.2 | 18.20 | 21.66 | -205.4 | 30   |
| 002  | 7247. | -211.26 | 2.2   | 0.8 | 0.3 | 20.99 | 20.18 | -208.0 | 40   |
| 003  | 5789. | -205.75 | 3.2   | 0.8 | 0.2 | 18.82 | 24.70 | -201.6 | 50   |
| 004  | 5721. | -205.01 | 2.8   | 0.6 | 0.2 | 19.52 | 25.86 | -201.3 | 60   |
| 005  | 5660. | -205.06 | 3.6   | 0.6 | 0.2 | 20.30 | 26.39 | -200.7 | 70   |
| 006  | 5567. | -207.52 | 2.3   | 0.5 | 0.2 | 21.44 | 27.39 | -204.5 | 80   |
| 007  | 5521. | -207.92 | 1.3   | 0.5 | 0.2 | 21.60 | 28.45 | -205.9 | 90   |
| 008  | 5474. | -207.31 | 1.1   | 0.5 | 0.3 | 23.82 | 28.98 | -205.4 | 100  |
| 009  | 5487. | -208.71 | 1.0   | 0.5 | 0.3 | 24.25 | 27.64 | -207.0 | 110  |
| 010  | 5504. | -209.23 | 1.2   | 0.5 | 0.3 | 24.85 | 26.77 | -207.3 | 120  |
| 011  | 5531. | -209.58 | 0.6   | 0.3 | 0.3 | 27.02 | 25.26 | -208.4 | 130  |
| 012  | 5729. | -212.82 | 0.2   | 0.1 | 0.2 | 28.55 | 24.80 | -212.3 | 140  |
| 013  | 7028. | -206.88 | 0.7   | 0.7 | 0.2 | 22.82 | 18.66 | -205.3 | 150  |
| 014  | 7160. | -216.91 | 5.3   | 1.0 | 0.2 | 20.36 | 23.51 | -210.4 | 160  |
| 015  | 6686. | -216.15 | 3.6   | 0.6 | 0.1 | 22.52 | 25.05 | -211.8 | 170  |
| 016  | 7055. | -208.21 | 1.4   | 0.7 | 0.2 | 22.02 | 20.84 | -205.9 | 180  |
| 017  | 6568. | -211.91 | 1.6   | 0.5 | 0.1 | 23.85 | 23.81 | -209.8 | 190  |
| 018  | 6574. | -216.55 | 4.3   | 0.6 | 0.1 | 25.03 | 24.52 | -211.6 | 200  |
| 019  | 6349. | -214.74 | 2.1   | 0.3 | 0.1 | 24.79 | 25.18 | -212.2 | 210  |
| 020  | 6498. | -206.60 | 2.1   | 0.4 | 0.1 | 24.74 | 21.69 | -204.0 | 220  |
| 021  | 6732. | -210.77 | 2.3   | 0.6 | 0.1 | 23.47 | 22.14 | -207.7 | 230  |
| 022  | 7238. | -204.62 | 2.7   | 1.0 | 0.2 | 22.40 | 19.87 | -200.7 | 240  |
| 023  | 5719. | -217.90 | 0.0   | 0.3 | 0.3 | 33.92 | 17.33 | -217.3 | 250  |
| 024  | 5726. | -217.91 | 0.0   | 0.3 | 0.3 | 34.31 | 18.84 | -217.4 | 260  |
| 025  | 5756. | -216.19 | 0.0   | 0.2 | 0.3 | 34.28 | 19.92 | -215.7 | 270  |
| 026  | 5771. | -215.74 | 0.0   | 0.3 | 0.3 | 34.29 | 21.26 | -215.2 | 280  |
| 027  | 5784. | -217.87 | 0.0   | 0.3 | 0.3 | 34.10 | 23.28 | -217.2 | 290  |
| 028  | 5828. | -219.46 | 0.0   | 0.4 | 0.3 | 34.33 | 24.44 | -218.7 | 300  |
| 029  | 6940. | -204.18 | 1.8   | 0.8 | 0.2 | 23.98 | 18.15 | -201.4 | 310  |
| 030  | 6633. | -208.59 | 2.9   | 0.6 | 0.1 | 25.04 | 20.66 | -205.0 | 320  |
| 031  | 5640. | -215.66 | 0.0   | 0.2 | 0.2 | 30.01 | 17.67 | -215.2 | 330  |
| 032  | 5638. | -213.30 | 0.1   | 0.3 | 0.2 | 28.74 | 18.83 | -212.7 | 340  |
| 033  | 6085. | -211.16 | 2.0   | 0.3 | 0.1 | 27.46 | 19.32 | -208.8 | 350  |
| 034  | 5598. | -214.17 | 0.2   | 0.3 | 0.2 | 28.41 | 20.21 | -213.4 | 360  |
| 035  | 5592. | -209.39 | 0.2   | 0.3 | 0.2 | 27.83 | 21.74 | -208.7 | 370  |
| 036  | 6012. | -211.31 | 1.7   | 0.2 | 0.1 | 26.67 | 23.51 | -209.3 | 380  |
| 037  | 5564. | -209.96 | 0.1   | 0.3 | 0.3 | 27.79 | 23.20 | -209.3 | 390  |
| 038  | 5997. | -211.81 | 1.2   | 0.1 | 0.2 | 28.94 | 25.86 | -210.4 | 400  |
| 039  | 5677. | -207.84 | 0.7   | 0.3 | 0.2 | 25.59 | 38.54 | -206.6 | 410  |
| 040  | 5888. | -207.23 | 1.4   | 0.3 | 0.1 | 24.83 | 41.54 | -205.4 | 420  |
| 041  | 5882. | -207.12 | 1.2   | 0.3 | 0.1 | 24.87 | 41.17 | -205.5 | 430  |
| 042  | 5497. | -203.03 | 0.1   | 0.2 | 0.1 | 20.68 | 42.83 | -202.7 | 440  |
| 043  | 5500. | -197.54 | 0.0   | 0.2 | 0.1 | 19.86 | 43.30 | -197.3 | 450  |
| 044  | 5737. | -211.63 | 0.5   | 0.4 | 0.1 | 23.90 | 41.56 | -210.7 | 460  |
| 045  | 5801. | -209.23 | 0.7   | 0.3 | 0.1 | 24.95 | 39.79 | -208.1 | 470  |
| 046  | 6794. | -207.73 | 5.1   | 0.9 | 0.1 | 27.44 | 41.59 | -201.6 | 480  |
| 047  | 5582. | -203.13 | 1.7   | 0.5 | 0.2 | 26.72 | 37.97 | -200.7 | 490  |
| 048  | 5628. | -205.19 | 1.3   | 0.5 | 0.3 | 28.26 | 38.50 | -203.1 | 500  |
| 049  | 5654. | -205.85 | 0.6   | 0.5 | 0.3 | 28.84 | 39.24 | -204.5 | 510  |
| 050  | 5699. | -204.23 | 5.6   | 0.5 | 0.4 | 30.43 | 37.43 | -197.8 | 520  |
| 051  | 5492. | -213.31 | 0.4   | 0.4 | 0.2 | 23.22 | 38.47 | -212.4 | 530  |
| 052  | 5543. | -209.60 | 0.2   | 0.3 | 0.1 | 21.78 | 39.37 | -209.0 | 540  |
| 053  | 5495. | -203.34 | 0.3   | 0.3 | 0.1 | 20.20 | 38.97 | -202.7 | 550  |
| 054  | 5824. | -195.31 | 1.8   | 0.1 | 0.0 | 18.24 | 40.37 | -193.3 | 560  |
| 055  | 6004. | -194.09 | 1.0   | 0.2 | 0.0 | 19.04 | 38.02 | -192.9 | 570  |
| 056  | 5728. | -193.61 | 0.4   | 0.2 | 0.1 | 18.01 | 38.63 | -192.9 | 580  |
| 057  | 6981. | -201.79 | 6.7   | 1.7 | 0.1 | 19.09 | 34.77 | -193.3 | 590  |

Table 3.2

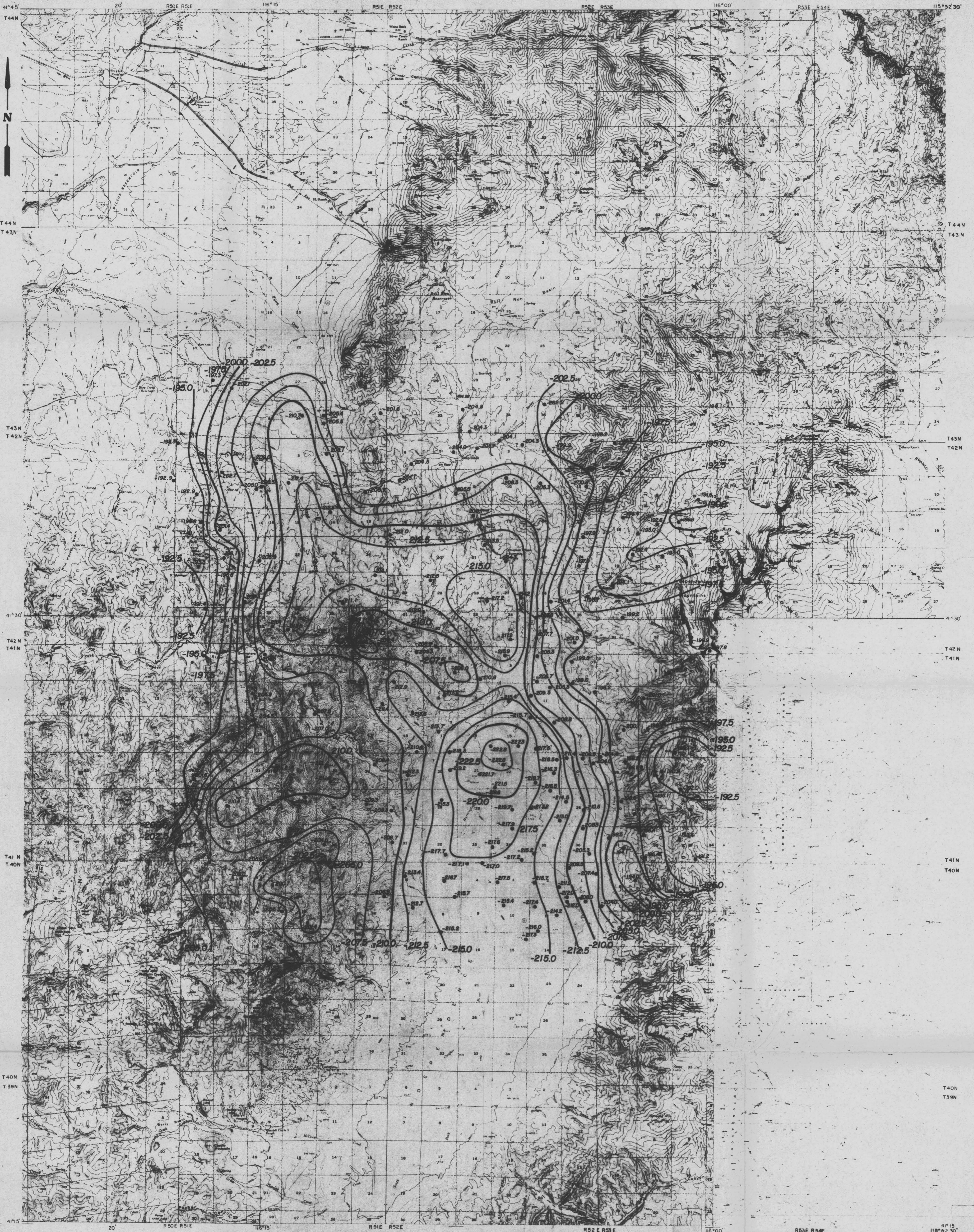
| STA | ELEV   | SBA     | ZONES<br>D-H | ZONES<br>I-J | ZONES<br>K-M | KME   | KMN   | CBA    | NUMB |
|-----|--------|---------|--------------|--------------|--------------|-------|-------|--------|------|
| 058 | 6377.  | -193.91 | 2.9          | 0.3          | 0.0          | 19.41 | 33.56 | -190.6 | 600  |
| 059 | 6228.  | -195.71 | 4.1          | 0.2          | 0.1          | 19.30 | 32.52 | -191.4 | 610  |
| 060 | 6229.  | -204.50 | 3.2          | 0.1          | 0.1          | 20.67 | 31.92 | -201.1 | 620  |
| 061 | 6605.  | -200.62 | 3.0          | 0.7          | 0.1          | 20.42 | 34.18 | -196.8 | 630  |
| 062 | 6424.  | -209.71 | 3.0          | 0.3          | 0.1          | 21.10 | 32.81 | -206.3 | 640  |
| 063 | 6653.  | -200.30 | 3.3          | 0.9          | 0.1          | 20.26 | 35.11 | -196.1 | 650  |
| 064 | 6265.  | -203.12 | 1.4          | 0.3          | 0.0          | 20.07 | 36.38 | -201.4 | 660  |
| 065 | 6561.  | -199.05 | 3.4          | 0.8          | 0.1          | 19.22 | 36.73 | -194.8 | 670  |
| 066 | 5736.  | -222.12 | 0.0          | 0.2          | 0.3          | 31.77 | 24.81 | -221.7 | 680  |
| 067 | 5725.  | -218.77 | 0.0          | 0.1          | 0.3          | 30.40 | 25.82 | -218.3 | 690  |
| 068 | 5788.  | -208.60 | 2.0          | 0.3          | 0.3          | 30.59 | 29.56 | -206.0 | 700  |
| 069 | 6328.  | -213.75 | 4.5          | 0.2          | 0.2          | 29.72 | 30.73 | -208.9 | 710  |
| 070 | 5896.  | -210.84 | 1.1          | 0.2          | 0.3          | 28.89 | 30.47 | -209.3 | 720  |
| 071 | 6180.  | -216.86 | 0.9          | 0.3          | 0.2          | 33.07 | 28.22 | -215.4 | 730  |
| 072 | 5962.  | -211.47 | 0.1          | 0.3          | 0.3          | 31.77 | 29.25 | -210.8 | 740  |
| 073 | 5751.  | -211.91 | 0.1          | 0.3          | 0.3          | 30.11 | 28.48 | -211.2 | 750  |
| 074 | 5698.  | -214.30 | 0.1          | 0.2          | 0.3          | 29.85 | 26.85 | -213.7 | 760  |
| 075 | 5962.  | -203.09 | 1.1          | 0.1          | 0.1          | 26.51 | 25.95 | -201.7 | 770  |
| 076 | 6733.  | -214.26 | 4.8          | 0.9          | 0.1          | 26.31 | 28.95 | -208.5 | 780  |
| 077 | 6949.  | -215.31 | 5.5          | 1.2          | 0.2          | 27.15 | 30.83 | -208.4 | 790  |
| 078 | 6752.  | -210.07 | 2.4          | 0.8          | 0.1          | 26.46 | 30.75 | -206.7 | 800  |
| 079 | 5624.  | -215.05 | 1.1          | 0.3          | 0.2          | 23.10 | 31.52 | -213.5 | 810  |
| 080 | 5834.  | -215.69 | 1.1          | 0.1          | 0.1          | 24.21 | 33.92 | -214.3 | 820  |
| 081 | 5703.  | -216.81 | 0.4          | 0.3          | 0.1          | 24.17 | 36.46 | -216.0 | 830  |
| 082 | 5674.  | -213.34 | 0.6          | 0.3          | 0.2          | 25.09 | 37.10 | -212.3 | 840  |
| 083 | 6169.  | -215.14 | 3.6          | 0.1          | 0.1          | 22.34 | 31.70 | -211.4 | 850  |
| 084 | 6312.  | -215.49 | 3.1          | 0.2          | 0.1          | 24.32 | 31.30 | -212.1 | 860  |
| 085 | 6658.  | -214.73 | 2.9          | 0.6          | 0.1          | 25.54 | 32.73 | -211.1 | 870  |
| 086 | 6923.  | -219.11 | 3.8          | 1.0          | 0.2          | 27.09 | 34.21 | -214.1 | 880  |
| 087 | 6625.  | -213.77 | 1.2          | 0.4          | 0.2          | 27.79 | 36.01 | -212.0 | 890  |
| 088 | 6799.  | -219.46 | 2.4          | 0.5          | 0.2          | 29.89 | 35.49 | -216.4 | 900  |
| 089 | 6743.  | -221.09 | 2.4          | 0.4          | 0.2          | 30.82 | 33.77 | -218.1 | 910  |
| 090 | 6674.  | -219.84 | 2.1          | 0.3          | 0.2          | 32.06 | 32.81 | -217.2 | 920  |
| 091 | 6501.  | -219.34 | 1.5          | 0.3          | 0.3          | 33.14 | 31.05 | -217.2 | 930  |
| 092 | 6365.  | -217.46 | 1.0          | 0.3          | 0.3          | 32.89 | 30.31 | -215.9 | 940  |
| 093 | 7541.  | -226.49 | 7.2          | 1.7          | 0.3          | 34.34 | 36.04 | -217.3 | 950  |
| 094 | 7308.  | -199.22 | 3.7          | 0.9          | 0.2          | 38.46 | 36.65 | -194.4 | 960  |
| 095 | 7116.  | -205.47 | 3.8          | 0.7          | 0.2          | 36.80 | 38.07 | -200.8 | 970  |
| 096 | 7389.  | -201.79 | 5.3          | 0.8          | 0.2          | 38.43 | 38.63 | -195.5 | 980  |
| 097 | 7726.  | -207.62 | 7.4          | 1.7          | 0.3          | 37.09 | 40.18 | -198.2 | 990  |
| 098 | 7904.  | -208.44 | 8.4          | 1.8          | 0.3          | 38.12 | 40.06 | -197.9 | 1000 |
| 099 | 8020.  | -202.20 | 4.4          | 0.9          | 0.9          | 42.23 | 41.40 | -196.1 | 1010 |
| 100 | 7189.  | -197.03 | 3.6          | 1.5          | 0.4          | 41.87 | 37.43 | -191.6 | 1020 |
| 101 | 7062.  | -195.51 | 3.4          | 1.9          | 0.3          | 40.97 | 36.40 | -189.9 | 1030 |
| 102 | 6939.  | -196.44 | 1.8          | 1.8          | 0.3          | 40.01 | 36.30 | -192.6 | 1040 |
| 103 | 6722.  | -197.03 | 2.1          | 1.9          | 0.1          | 39.11 | 35.88 | -193.0 | 1050 |
| 104 | 6662.  | -197.39 | 2.8          | 2.1          | 0.1          | 38.86 | 34.95 | -192.4 | 1060 |
| 105 | 5834.  | -205.76 | 0.3          | 0.4          | 0.3          | 31.16 | 41.64 | -204.8 | 1070 |
| 106 | 5722.  | -205.17 | 0.3          | 0.5          | 0.3          | 30.72 | 39.74 | -204.0 | 1080 |
| 107 | 5815.  | -208.05 | 1.8          | 0.4          | 0.3          | 30.79 | 37.84 | -205.5 | 1090 |
| 108 | 5919.  | -212.09 | 2.7          | 0.3          | 0.4          | 31.59 | 36.85 | -208.7 | 1100 |
| 109 | 6161.  | -215.62 | 1.6          | 0.2          | 0.3          | 32.11 | 35.49 | -213.5 | 1110 |
| 110 | 6441.  | -215.06 | 0.2          | 0.2          | 0.3          | 33.09 | 34.75 | -214.3 | 1120 |
| 111 | 6282.  | -215.05 | 0.1          | 0.4          | 0.3          | 33.62 | 32.94 | -214.2 | 1130 |
| 112 | 6161.  | -209.85 | 1.0          | 0.7          | 0.3          | 34.33 | 32.04 | -207.8 | 1140 |
| 113 | 6254.  | -203.40 | 0.9          | 0.8          | 0.3          | 34.99 | 32.76 | -201.4 | 1150 |
| 114 | 6376.  | -200.10 | 2.7          | 1.5          | 0.2          | 36.69 | 32.98 | -195.7 | 1160 |
| 115 | 7756.  | -205.79 | 4.6          | 1.6          | 0.4          | 38.27 | 32.05 | -199.2 | 1170 |
| 116 | 6518.  | -200.31 | 4.1          | 1.9          | 0.1          | 37.82 | 33.50 | -194.1 | 1180 |
| 117 | 7725.  | -197.82 | 2.8          | 1.3          | 0.7          | 40.23 | 34.88 | -193.0 | 1190 |
| 118 | 10198. | -227.63 | 15.3         | 8.3          | 6.2          | 42.26 | 30.51 | -197.8 | 1200 |
| 119 | 9746.  | -217.83 | 8.4          | 6.2          | 4.4          | 41.39 | 30.91 | -198.9 | 1210 |

| STA | ELEV  | SBA     | ZONES |     |     | KME   | KMN   | CBA    | NUMB |
|-----|-------|---------|-------|-----|-----|-------|-------|--------|------|
|     |       |         | D-H   | I-J | K-M |       |       |        |      |
| 120 | 9005. | -220.95 | 15.7  | 5.0 | 2.7 | 40.17 | 27.18 | -197.6 | 1220 |
| 121 | 8619. | -215.99 | 12.9  | 4.1 | 0.8 | 39.46 | 26.87 | -198.2 | 1230 |
| 122 | 6109. | -205.35 | 2.3   | 0.5 | 0.3 | 34.94 | 41.85 | -202.2 | 1240 |
| 123 | 6010. | -204.07 | 3.0   | 0.7 | 0.4 | 35.11 | 39.81 | -199.9 | 1250 |
| 124 | 5891. | -205.89 | 0.5   | 0.7 | 0.5 | 33.88 | 40.00 | -204.3 | 1260 |
| 125 | 5782. | -205.40 | 0.2   | 0.6 | 0.4 | 32.85 | 40.23 | -204.1 | 1270 |
| 126 | 5746. | -205.02 | 0.4   | 0.6 | 0.4 | 31.80 | 39.92 | -203.7 | 1280 |
| 127 | 6110. | -206.33 | 1.7   | 0.2 | 0.3 | 31.45 | 40.66 | -204.3 | 1290 |
| 128 | 8430. | -210.28 | 15.5  | 2.8 | 1.8 | 40.68 | 25.82 | -190.1 | 1300 |
| 129 | 8087. | -207.49 | 13.0  | 2.4 | 1.2 | 40.05 | 24.94 | -190.9 | 1310 |
| 130 | 7380. | -201.21 | 2.8   | 1.3 | 0.2 | 39.14 | 25.13 | -196.8 | 1320 |
| 131 | 6965. | -195.05 | 1.7   | 0.9 | 0.4 | 40.97 | 24.12 | -192.0 | 1330 |
| 132 | 6826. | -197.93 | 1.8   | 0.9 | 0.1 | 39.72 | 23.68 | -195.1 | 1340 |
| 133 | 6634. | -199.66 | 1.0   | 0.8 | 0.1 | 38.83 | 23.01 | -197.8 | 1350 |
| 134 | 6377. | -200.64 | 1.1   | 0.9 | 0.1 | 38.24 | 23.59 | -198.6 | 1360 |
| 135 | 8905. | -215.73 | 14.0  | 3.5 | 2.5 | 40.41 | 29.49 | -195.8 | 1370 |
| 136 | 6934. | -252.29 | 1.9   | 1.4 | 0.1 | 37.91 | 28.96 | -248.8 | 1380 |
| 137 | 6497. | -201.10 | 1.4   | 1.4 | 0.1 | 37.01 | 28.62 | -198.2 | 1390 |
| 138 | 7031. | -205.27 | 3.1   | 1.0 | 0.2 | 36.10 | 30.91 | -201.0 | 1400 |
| 139 | 6631. | -201.71 | 1.1   | 1.0 | 0.2 | 35.95 | 30.04 | -199.5 | 1410 |
| 140 | 6284. | -199.98 | 0.6   | 1.3 | 0.2 | 36.02 | 29.04 | -198.0 | 1420 |
| 141 | 6107. | -206.71 | 0.3   | 0.9 | 0.2 | 34.97 | 28.83 | -205.3 | 1430 |
| 142 | 7109. | -200.49 | 3.1   | 0.9 | 0.1 | 39.27 | 22.06 | -196.4 | 1440 |
| 143 | 7375. | -197.68 | 5.2   | 0.7 | 0.7 | 41.63 | 20.98 | -191.2 | 1450 |
| 144 | 7336. | -201.16 | 5.9   | 1.1 | 0.8 | 40.89 | 21.88 | -193.4 | 1460 |
| 145 | 7035. | -201.52 | 4.2   | 0.8 | 0.1 | 39.35 | 21.06 | -196.4 | 1470 |
| 146 | 6671. | -197.77 | 3.1   | 0.6 | 0.1 | 38.90 | 20.00 | -194.0 | 1480 |
| 147 | 6184. | -197.77 | 2.8   | 0.8 | 0.1 | 38.35 | 21.48 | -194.1 | 1490 |
| 148 | 6004. | -200.78 | 1.2   | 0.9 | 0.2 | 37.69 | 21.96 | -198.5 | 1500 |
| 149 | 5846. | -208.87 | 0.4   | 0.8 | 0.2 | 37.11 | 20.34 | -207.4 | 1510 |
| 150 | 5913. | -206.45 | 0.2   | 0.7 | 0.2 | 36.79 | 21.22 | -205.3 | 1520 |
| 151 | 5903. | -209.45 | 0.2   | 0.7 | 0.2 | 36.50 | 22.37 | -208.3 | 1530 |
| 152 | 5864. | -213.78 | 0.0   | 0.5 | 0.2 | 35.45 | 22.74 | -213.0 | 1540 |
| 153 | 5927. | -217.75 | 0.2   | 0.8 | 0.2 | 35.31 | 25.49 | -216.5 | 1550 |
| 154 | 6011. | -212.90 | 0.4   | 0.9 | 0.2 | 35.76 | 25.58 | -211.4 | 1560 |
| 155 | 6163. | -208.55 | 0.8   | 1.0 | 0.1 | 36.47 | 25.55 | -206.5 | 1570 |
| 156 | 6418. | -204.28 | 1.7   | 1.1 | 0.1 | 37.27 | 25.65 | -201.4 | 1580 |
| 157 | 5887. | -217.33 | 0.1   | 0.7 | 0.2 | 35.18 | 24.88 | -216.3 | 1590 |
| 158 | 5834. | -217.46 | 0.1   | 0.6 | 0.3 | 35.00 | 24.10 | -216.5 | 1600 |
| 159 | 5893. | -215.47 | 0.1   | 0.7 | 0.2 | 35.71 | 23.60 | -214.5 | 1610 |
| 160 | 5945. | -211.72 | 0.2   | 0.8 | 0.2 | 36.53 | 23.20 | -210.5 | 1620 |
| 161 | 5850. | -206.39 | 1.3   | 0.9 | 0.2 | 37.38 | 18.92 | -204.0 | 1630 |
| 162 | 5845. | -209.30 | 0.3   | 0.7 | 0.2 | 36.63 | 19.10 | -208.0 | 1640 |
| 163 | 5816. | -212.88 | 0.1   | 0.5 | 0.3 | 35.81 | 19.05 | -212.0 | 1650 |
| 164 | 5800. | -212.83 | 0.1   | 0.5 | 0.3 | 35.79 | 19.26 | -212.0 | 1660 |
| 165 | 5790. | -214.98 | 0.0   | 0.5 | 0.3 | 35.32 | 18.44 | -214.2 | 1670 |
| 166 | 5770. | -216.56 | 0.0   | 0.3 | 0.2 | 34.49 | 17.73 | -216.0 | 1680 |
| 167 | 5870. | -210.32 | 0.1   | 0.5 | 0.2 | 35.90 | 20.60 | -209.5 | 1690 |
| 168 | 5875. | -212.67 | 0.1   | 0.4 | 0.2 | 35.44 | 19.71 | -211.9 | 1700 |
| 169 | 6081. | -210.20 | 0.3   | 0.9 | 0.2 | 35.16 | 27.29 | -208.8 | 1710 |
| 170 | 5940. | -216.71 | 0.1   | 0.6 | 0.3 | 34.05 | 27.48 | -215.7 | 1720 |
| 171 | 6048. | -210.54 | 0.1   | 0.6 | 0.2 | 34.07 | 28.46 | -209.5 | 1730 |
| 172 | 6056. | -207.93 | 0.2   | 0.8 | 0.3 | 34.36 | 29.14 | -206.7 | 1740 |
| 173 | 6104. | -206.92 | 0.5   | 0.8 | 0.3 | 34.41 | 30.28 | -205.3 | 1750 |

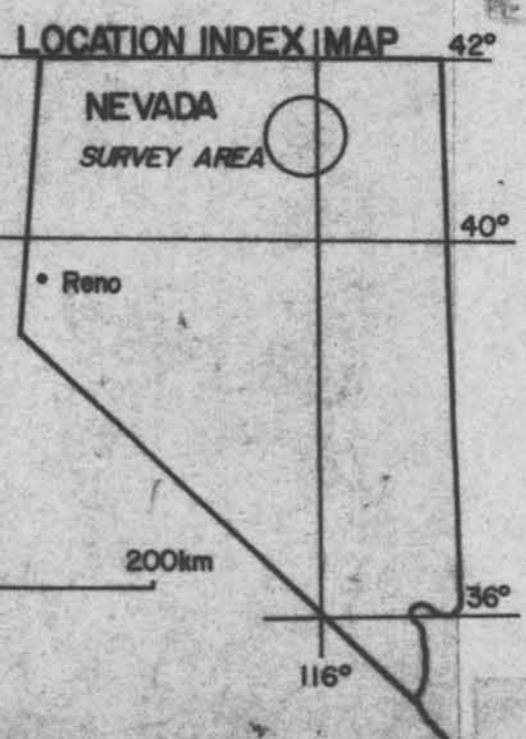
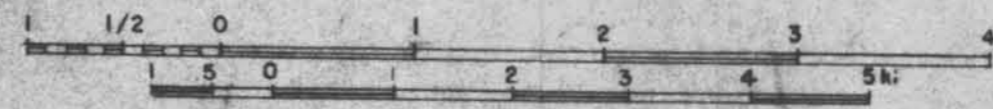
Table 3.2

| STA | ELEV  | SBA     | ZONES |     |     | KME   | KMN   | CBA    | NUMB |
|-----|-------|---------|-------|-----|-----|-------|-------|--------|------|
|     |       |         | D-H   | I-J | K-M |       |       |        |      |
| 174 | 6138. | -209.53 | 0.8   | 0.8 | 0.3 | 34.33 | 31.10 | -207.7 | 1760 |
| 175 | 5710. | -220.22 | 0.0   | 0.2 | 0.3 | 33.28 | 23.22 | -219.7 | 1770 |
| 176 | 5728. | -222.03 | 0.0   | 0.2 | 0.3 | 32.48 | 24.25 | -221.5 | 1780 |
| 177 | 5757. | -223.41 | 0.0   | 0.3 | 0.3 | 32.86 | 25.26 | -222.8 | 1790 |
| 178 | 5805. | -223.17 | 0.1   | 0.5 | 0.3 | 33.51 | 26.15 | -222.3 | 1800 |
| 179 | 5804. | -223.32 | 0.0   | 0.2 | 0.3 | 32.25 | 26.15 | -222.8 | 1810 |
| 180 | 5683. | -219.63 | 0.0   | 0.1 | 0.3 | 30.45 | 25.00 | -219.2 | 1820 |
| 181 | 6463. | -206.72 | 1.7   | 0.9 | 0.1 | 36.95 | 25.33 | -204.0 | 1830 |
| 182 | 7264. | -204.73 | 5.1   | 1.3 | 0.2 | 38.41 | 25.41 | -198.2 | 1840 |
| 183 | 7814. | -210.26 | 7.5   | 2.3 | 0.4 | 38.35 | 26.81 | -200.1 | 1850 |
| 184 | 5708. | -218.39 | 0.0   | 0.2 | 0.3 | 33.26 | 22.37 | -217.9 | 1860 |
| 185 | 5679. | -217.95 | 0.0   | 0.1 | 0.3 | 32.36 | 21.53 | -217.6 | 1870 |
| 186 | 5687. | -217.77 | 0.1   | 0.2 | 0.3 | 33.71 | 20.95 | -217.2 | 1880 |
| 187 | 5654. | -217.48 | 0.0   | 0.1 | 0.3 | 31.22 | 20.80 | -217.1 | 1890 |
| 188 | 5626. | -218.05 | 0.0   | 0.1 | 0.3 | 30.22 | 21.21 | -217.7 | 1900 |
| 189 | 5670. | -217.35 | 0.0   | 0.1 | 0.3 | 31.91 | 20.82 | -217.0 | 1910 |
| 190 | 5686. | -217.89 | 0.0   | 0.1 | 0.3 | 32.62 | 19.95 | -217.5 | 1920 |
| 191 | 5693. | -220.08 | 0.0   | 0.2 | 0.3 | 32.30 | 23.85 | -219.6 | 1930 |
| 192 | 5648. | -215.69 | 0.0   | 0.1 | 0.3 | 30.05 | 23.65 | -215.3 | 1940 |
| 193 | 5644. | -216.08 | 0.0   | 0.1 | 0.3 | 30.66 | 19.29 | -215.7 | 1950 |
| 194 | 5631. | -217.11 | 0.0   | 0.1 | 0.3 | 30.16 | 20.02 | -216.7 | 1960 |
| 195 | 5724. | -215.79 | 0.0   | 0.1 | 0.3 | 32.89 | 18.91 | -215.4 | 1970 |
| 301 | 5715. | -207.11 | 0.4   | 0.2 | 0.1 | 21.99 | 38.33 | -206.5 | 1980 |
| 302 | 5980. | -206.33 | 0.2   | 0.1 | 0.1 | 21.86 | 34.98 | -205.9 | 1990 |
| 303 | 5565. | -205.52 | 0.1   | 0.3 | 0.1 | 21.74 | 38.23 | -205.0 | 2000 |
| 304 | 6806. | -200.62 | 1.7   | 0.8 | 0.2 | 36.43 | 34.48 | -197.9 | 2010 |
| 305 | 7280. | -203.15 | 4.1   | 0.9 | 0.2 | 36.64 | 35.77 | -197.9 | 2020 |
| 306 | 6728. | -207.53 | 1.9   | 0.4 | 0.2 | 30.26 | 34.72 | -205.0 | 2030 |
| 307 | 6131. | -209.74 | 0.8   | 0.3 | 0.3 | 33.12 | 38.50 | -208.3 | 2040 |
| 308 | 6394. | -206.91 | 0.9   | 0.4 | 0.3 | 34.70 | 38.23 | -205.3 | 2050 |
| 309 | 6040. | -213.83 | 1.4   | 0.1 | 0.2 | 29.18 | 32.31 | -212.0 | 2060 |
| 310 | 6252. | -213.07 | 0.2   | 0.1 | 0.2 | 29.61 | 33.95 | -212.5 | 2070 |
| 311 | 7179. | -210.24 | 7.7   | 1.4 | 0.2 | 39.23 | 28.32 | -201.0 | 2080 |
| 312 | 6182. | -213.75 | 0.6   | 0.1 | 0.2 | 27.83 | 29.09 | -212.9 | 2090 |
| 313 | 5930. | -212.02 | 0.4   | 0.1 | 0.2 | 27.31 | 28.11 | -211.4 | 2100 |
| 314 | 5759. | -214.22 | 0.2   | 0.2 | 0.2 | 28.71 | 27.71 | -213.6 | 2110 |

Table 3,2



SCALE 1:62500

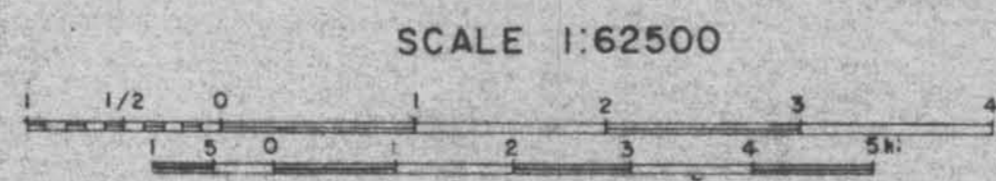
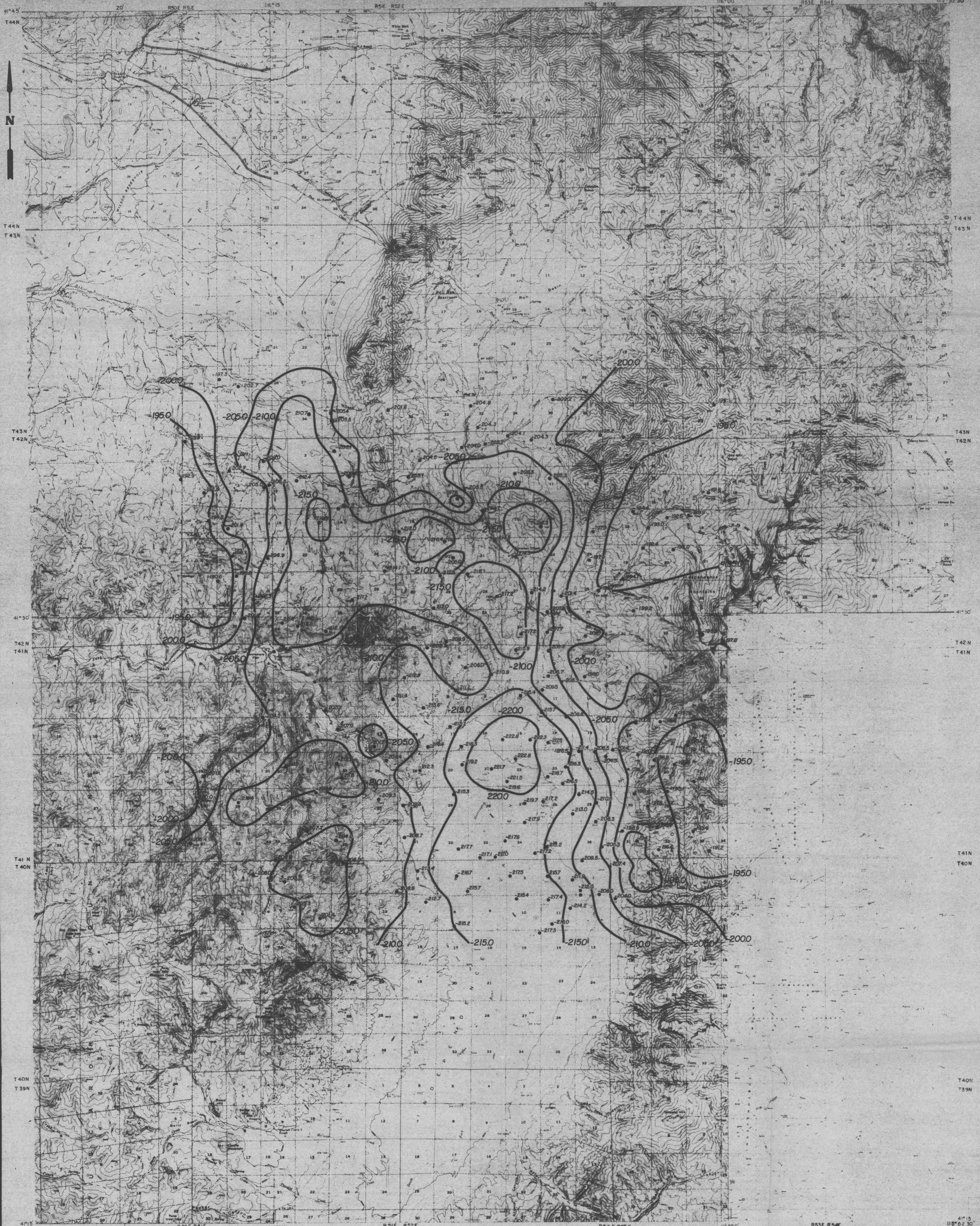


**TUSCARORA, NEVADA · GRAVITY SURVEY**  
**Terrain Corrected Bouguer Anomaly · Plate 2**

Scale: 1:62,500  
 Gravity Stations/Value (mgals.)  
 Contour Interval = 2.5 mgals.

Corporation Officer: \_\_\_\_\_ Geophysicist: \_\_\_\_\_ Drawn By Teri 12/7/79

**MicroGeophysics Corporation**



**TUSARORA, NEVADA · GRAVITY SURVEY**  
**Terrain Corrected Bouguer Anomaly · Plate I**

Scale: 1:62,500  
 Gravity Stations/Value (mgals)  
 Contour Interval=5.0 mgals.

Corporation Officer: *[Signature]* Geophysicist: *[Signature]* Drawn By Teri 12/18/79

**MicroGeophysics Corporation**