



Gravity Interpretation

Mount Mye Area

Yukon Territory



for

Kangaroo Exploration Corporation

by

R. B. Galeski Consulting  
July 1972

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$3700

*R. B. Galeski*  
Resident Geologist or  
Resident Mining Engineer

Considered as representation work under Section 53 of the Yukon Quartz Mining Act

*Paul*  
Commissioner Yukon Territory

3700

## Introduction

A gravity survey was conducted for the account of Kangaroo Exploration by Mr. Mike McCombe in July, 1972. 252 stations (approximately 5 miles coverage) were metered on a grid of six north-south lines and one east-west tie line. Station spacing is 100 feet, and the north-south lines are spaced at 800-foot intervals.

Highest elevation in the area is 6171' a.s.l. at station 100N. on line 196W. Lowest is 5323' a.s.l. at station 64N. on line 212W. Essentially, the survey was conducted on the south, east and west flanks and over the crest of an east-west oriented local topographic high. All of the area is above timberline.

## Interpretation

Bouguer and free air computations were made using an elevation correction factor of 0.062 which corresponds to a surface density of 2.5. This is slightly lower than that of metamorphic rocks usually found in the central Yukon. Were the hill on which the survey was conducted composed of "normal" rocks, use of the 0.062 factor would have created a Bouguer gravity positive over the hill. However, the Bouguer results, computed with this factor, indicate a strong, 8.0 mgal. negative over the hill. This can mean only one thing. The hill is a huge pile of extremely light material. The gravity negative pretty well dominates the entire picture; and the effect of possible heavy mineralization beneath the hill or within it are largely masked. It is not possible to extract a meaningful residual.

Some calculations were done in an effort to investigate the nature of the rocks which comprise the hill. These are based on the assumption that the bedrock below is gravitationally flat. This assumption probably does not lead to large errors in this case, as the causative masses which might lead to them are deep, and there would be mild gradients at the surface compared to the steep ones due to the hill materials.

At any rate, to remove the hill material effects one would have to use an elevation correction factor of 0.072 to 0.079 - corresponding to densities of 1.8 to 1.2 respectively. 1.8 is about as low as one can get with materials such as loose gravel or clay. 1.2 is not much heavier than water, and is lower than any rock type except coal. Therefore, the conclusion is as follows:

- (a) Top of bedrock is nearly flat beneath the hill and the hill is composed of a mixture of ice, broken rock and debris, or
- (b) The bedrock has been gouged out beneath the hill, and the hill and the fill are composed of very loose debris.

A few local, small positives may be extracted as follows:

- (a) 76N., line 204W. (0.6 mgal.?), possibly extending to 75N. on line 212W. and to 71N or 81N. on line 196W.
- (b) A sharp (1.2 mgal.) feature at 94N. on line 180W. Causative mass of this may be a vertically oriented, near-surface, slab-like rock type 100'-250' thick.
- (c) 180N. on line 172W. is the most positive point of the survey. Anomaly shape is unknown because only a few points offer definition. This may be

caused by bedrock outcrop along the <sup>South</sup>~~North~~ slope  
of the hill or by other mass types.

There was no particular correlation between small  
gravity positives and magnetic highs within the area.  
A string of Turam features near the tie line at 80N.  
may follow the bedrock-hill material contact.

Respectfully submitted,



R. B. Galeski, P. Geoph.



GRAVITY COMPUTATION SHEET

ent KANGAROO  
 ter Factor .0051

Line No. 172 W.  
 Elevation Corr. Factor .062

Area MT. MYE.  
 Prospect Corr. 200.00 mgal

| Sta. No. | Elevation | H.H.<br>H.I. | Corrected<br>Elevation | Elevation<br>Corr. | Observed<br>Gravity | Lat.<br>Corr. | Terr.<br>Corr. | Bouguer<br>Gravity | Date | Report | Bouguer<br>Gravity |
|----------|-----------|--------------|------------------------|--------------------|---------------------|---------------|----------------|--------------------|------|--------|--------------------|
| N-172W   | 5468.14   |              |                        | 339.02             |                     |               |                |                    |      |        |                    |
| 172W CON | 5468.00   |              |                        | 338.83             | 202.04              | +30           |                | 541.17             |      |        | 11.2               |
| 81N      | 5481.89   |              |                        | 339.89             | 201.82              | +28           |                | 541.18             |      |        | 11.2               |
| 82       | 5507.23   |              |                        | 341.45             | 199.35              | -27           |                | 541.07             |      |        | 11.1               |
| 83       | 5521.98   |              |                        | 343.33             | 198.67              | -25           |                | 541.25             |      |        | 11.3               |
| 84       | 5537.51   |              |                        | 343.33             | 197.56              | -23           |                | 541.12             |      |        | 11.1               |
| 85       | 5553.44   |              |                        | 344.44             | 196.45              | -22           |                | 541.11             |      |        | 11.1               |
| 86       | 5568.86   |              |                        | 345.26             | 195.63              | -20           |                | 541.09             |      |        | 11.1               |
| 87       | 5580.87   |              |                        | 346.00             | 194.86              | -19           |                | 541.05             |      |        | 11.1               |
| 88       | 5597.05   |              |                        | 346.57             | 194.38              | -17           |                | 541.02             |      |        | 11.0               |
| 89       | 5609.35   |              |                        | 347.16             | 193.65              | -15           |                | 540.96             |      |        | 11.0               |
| 90       | 5627.80   |              |                        | 347.81             | 192.91              | -14           |                | 540.86             |      |        | 10.9               |
| 91       | 5646.82   |              |                        | 348.21             | 192.41              | -12           |                | 540.74             |      |        | 10.7               |
| 92       | 5670.73   |              |                        | 348.32             | 192.21              | -10           |                | 540.63             |      |        | 10.6               |
| 93       | 5688.87   |              |                        | 348.77             | 191.58              | -08           |                | 540.49             |      |        | 10.4               |
| 94       | 5695.88   |              |                        | 349.42             | 190.78              | -06           |                | 540.36             |      |        | 10.3               |
| 95       | 5713.77   |              |                        | 349.88             | 189.15              | -05           |                | 540.08             |      |        | 10.1               |
| 96       | 5740.52   |              |                        | 350.21             | 187.84              | -03           |                | 540.08             |      |        | 10.1               |
| 97       | 5755.94   |              |                        | 350.61             | 187.26              | -01           |                | 539.88             |      |        | 9.9                |
| 98       | 5788.07   |              |                        | 351.35             | 186.58              | -00           |                | 539.89             |      |        | 9.8                |
| 99       | 5800.36   |              |                        | 351.43             | 186.75              | -02           |                | 539.66             |      |        | 9.7                |
| 100      | 5828.18   |              |                        | 351.89             | 186.40              | -03           |                | 539.44             |      |        | 9.5                |
| 101      | 5825.39   |              |                        | 348.77             | 186.40              | 05            |                | 539.20             |      |        | 9.2                |
| 102      | 5836.11   |              |                        | 345.18             | 186.18              | 07            |                | 539.21             |      |        | 9.2                |
| 103      | 5847.49   |              |                        | 342.89             | 186.01              | 08            |                | 539.16             |      |        | 9.2                |
| 104      | 5861.63   |              |                        | 340.17             | 186.24              | 11            |                | 539.00             |      |        | 9.3                |
| 105      | 5875.88   |              |                        | 335.60             | 186.99              | 12            |                | 539.07             |      |        | 9.1                |
| 106      | 5892.14   |              |                        | 334.31             | 186.68              | 14            |                | 538.82             |      |        | 8.8                |
| 107      | 5904.15   |              |                        | 333.01             | 186.70              | 16            |                | 538.68             |      |        | 9.1                |
| 108      | 5900.18   |              |                        | 331.44             | 187.50              | 17            |                | 538.39             |      |        | 8.8                |
| 109      | 5900.88   |              |                        | 330.12             | 188.44              | 19            |                | 538.77             |      |        | 8.8                |
| 110      | 5900.81   |              |                        | 328.97             | 188.75              | 20            |                | 538.92             |      |        | 9.0                |



GRAVITY COMPUTATION SHEET

Client KANGAROO

Line No. 180W

Area MT. NINE

Multiplier Factor .0951

Elevation Corr. Factor .062

Prospect Corr. 200.00 mgl.

| Sta. No. | Elevation   | H.H.<br>H.I. | Corrected<br>Elevation | Elevation<br>Corr. | Observed<br>Gravity | Lat.<br>Corr. | Terr.<br>Corr. | Bouguer<br>Gravity | Date | Report | Bouguer<br>Gravity |
|----------|-------------|--------------|------------------------|--------------------|---------------------|---------------|----------------|--------------------|------|--------|--------------------|
| 80N-180W | 812 5500.00 |              |                        |                    |                     |               |                |                    |      |        |                    |
| 180W-80N | 5486.10     |              |                        | 340.14             | 200.78              | + .20         |                | 541.12             |      |        | 11.1               |
| 81N      | 5496.05     |              |                        | 340.76             | 200.30              | .19           |                | 541.25             |      |        | 11.3               |
| 82       | 5505.86     |              |                        | 341.36             | 199.63              | .17           |                | 541.17             |      |        | 11.2               |
| 83       | 5521.23     |              |                        | 342.32             | 198.81              | .16           |                | 541.29             |      |        | 11.3               |
| 84       | 5540.00     |              |                        | 343.48             | 197.66              | .14           |                | 541.28             |      |        | 11.3               |
| 85       | 5561.81     |              |                        | 344.83             | 196.38              | .13           |                | 541.34             |      |        | 11.3               |
| 86       | 5590.18     |              |                        | 346.59             | 194.97              | .11           |                | 541.27             |      |        | 11.3               |
| 87       | 5620.23     |              |                        | 348.45             | 192.76              | .09           |                | 541.30             |      |        | 11.3               |
| 88       | 5643.46     |              |                        | 349.89             | 191.35              | .07           |                | 541.31             |      |        | 11.3               |
| 89       | 5671.12     |              |                        | 351.61             | 189.50              | .05           |                | 541.16             |      |        | 11.2               |
| 90       | 5697.84     |              |                        | 353.25             | 187.47              | .03           |                | 540.98             |      |        | 11.0               |
| 91       | 5712.81     |              |                        | 354.57             | 185.96              | .02           |                | 540.55             |      |        | 10.6               |
| 92       | 5733.78     |              |                        | 355.49             | 184.29              | + .00         |                | 540.38             |      |        | 10.4               |
| 93       | 5745.59     |              |                        | 356.23             | 183.71              | -.01          |                | 539.99             |      |        | 10.0               |
| 94       | 5766.77     |              |                        | 357.54             | 182.15              | .02           |                | 539.66             |      |        | 9.7                |
| 95       | 5806.00     |              |                        | 359.97             | 179.24              | .05           |                | 539.16             |      |        | 9.2                |
| 96       | 5854.93     |              |                        | 363.01             | 175.76              | .06           |                | 538.71             |      |        | 8.7                |
| 97       | 5894.61     |              |                        | 365.47             | 173.07              | .08           |                | 538.46             |      |        | 8.5                |
| 98       | 5921.27     |              |                        | 367.12             | 171.12              | .10           |                | 538.14             |      |        | 8.1                |
| 99       | 5941.32     |              |                        | 368.36             | 169.35              | .12           |                | 537.59             |      |        | 7.6                |
| 100      | 5941.87     |              |                        | 369.40             | 169.11              | .13           |                | 537.37             |      |        | 7.4                |
| 101      | 5907.39     |              |                        | 366.26             | 171.56              | .15           |                | 537.67             |      |        | 7.7                |
| 102      | 5859.69     |              |                        | 363.30             | 175.01              | .17           |                | 538.14             |      |        | 8.1                |
| 103      | 5818.12     |              |                        | 360.72             | 178.22              | .19           |                | 538.75             |      |        | 8.8                |
| 104      | 5769.33     |              |                        | 357.70             | 181.17              | .20           |                | 538.67             |      |        | 8.7                |
| 105      | 5788.30     |              |                        | 355.15             | 183.98              | .22           |                | 538.91             |      |        | 8.9                |
| 106      | 5678.46     |              |                        | 352.06             | 187.11              | .23           |                | 538.94             |      |        | 8.9                |
| 107      | 6650.70     |              |                        | 350.34             | 188.83              | .25           |                | 538.92             |      |        | 8.9                |
| 108      | 5616.93     |              |                        | 348.25             | 191.00              | .26           |                | 538.99             |      |        | 9.0                |
| 109      | 5586.45     |              |                        | 346.36             | NR                  | .28           |                | NR                 |      |        |                    |
| 110      | 5565.15     |              |                        | 345.04             | 194.20              | .30           |                | 538.94             |      |        | 8.9                |



GRAVITY COMPUTATION SHEET

Station KANGAROO

Line No 188 W

Area MT. NIYE

Factor .0051

Elevation Corr. Factor 062

Prospect Corr. 200.00 mgal.

| Sta. No. | Elevation | H.H.<br>H.I. | Corrected<br>Elevation | Elevation<br>Corr. | Observed<br>Gravity | Lat.<br>Corr. | Terr.<br>Corr. | Bouguer<br>Gravity | Date | Report | Bouguer<br>Gravity |
|----------|-----------|--------------|------------------------|--------------------|---------------------|---------------|----------------|--------------------|------|--------|--------------------|
| 75N      | 5682.19   |              |                        | 352.30             | 188.38              | +19           |                | 540.87             |      |        | 10.9               |
| 76N      | 5675.11   |              |                        | 351.86             | 188.85              | -17           |                | 540.88             |      |        | 10.9               |
| 77N      | 5671.96   |              |                        | 351.66             | 189.09              | -16           |                | 540.91             |      |        | 10.9               |
| 78N      | 5670.38   |              |                        | 351.56             | 189.24              | -14           |                | 540.94             |      |        | 10.9               |
| 79N      | 5672.72   |              |                        | 351.77             | 189.05              | -13           |                | 540.95             |      |        | 11.0               |
| 80N      | 5682.25   |              |                        | 352.30             | 188.52              | -11           |                | 540.94             |      |        | 10.9               |
| -188W    | 5682.37   |              |                        | 352.74             |                     |               |                |                    |      |        |                    |
| 81N      | 5682.91   |              |                        | 353.33             | 187.41              | .09           |                | 540.83             |      |        | 10.8               |
| 2        | 5711.22   |              |                        | 354.10             | 186.68              | .07           |                | 540.85             |      |        | 10.9               |
| 3        | 5718.86   |              |                        | 354.55             | 186.26              | .03           |                | 540.86             |      |        | 10.9               |
| 4        | 5727.59   |              |                        | 354.86             | 185.87              | .03           |                | 540.76             |      |        | 10.8               |
| 5        | 5730.85   |              |                        | 355.31             | 185.36              | .02           |                | 540.69             |      |        | 10.7               |
| 6        | 5742.72   |              |                        | 356.05             | 184.45              | ± 00          |                | 540.60             |      |        | 10.5               |
| 7        | 5742.12   |              |                        | 356.82             | 183.59              | -.01          |                | 540.40             |      |        | 10.4               |
| 8        | 5772.64   |              |                        | 357.90             | 182.39              | -.03          |                | 540.26             |      |        | 10.3               |
| 9        | 5780.07   |              |                        | 358.98             | 181.11              | -.05          |                | 540.04             |      |        | 10.0               |
| 90N      | 5810.24   |              |                        | 360.24             | 179.54              | .06           |                | 539.72             |      |        | 9.7                |
| 1        | 5834.24   |              |                        | 361.73             | 177.86              | .06           |                | 539.51             |      |        | 9.5                |
| 2        | 5840.11   |              |                        | 362.33             | 175.87              | -.10          |                | 539.18             |      |        | 9.1                |
| 3        | 5886.84   |              |                        | 364.92             | 173.99              | -.12          |                | 538.79             |      |        | 8.8                |
| 4        | 5908.52   |              |                        | 366.33             | 172.06              | -.14          |                | 538.25             |      |        | 8.3                |
| 5        | 5920.12   |              |                        | 368.23             | 170.12              | -.15          |                | 538.20             |      |        | 8.2                |
| 6        | 5962.82   |              |                        | 370.07             | 167.96              | -.17          |                | 537.86             |      |        | 7.9                |
| 7        | 6000.82   |              |                        | 372.42             | 165.39              | -.19          |                | 537.62             |      |        | 7.5                |
| 8        | 6032.50   |              |                        | 374.39             | 162.98              | -.20          |                | 537.17             |      |        | 7.2                |
| 9        | 6062.82   |              |                        | 376.30             | 160.57              | -.22          |                | 536.46             |      |        | 6.7                |
| 100N     | 6082.85   |              |                        | 378.12             | 158.22              | -.23          |                | 536.12             |      |        | 6.1                |
| 1        | 6122.82   |              |                        | 379.61             | 156.22              | -.25          |                | 535.68             |      |        | 5.6                |
| 2        | 6134.71   |              |                        | 380.95             | 155.07              | -.26          |                | 535.46             |      |        | 5.2                |
| 3        | 6142.47   |              |                        | 380.03             | 153.30              | -.28          |                | 535.05             |      |        | 5.1                |
| 4        | 6192.82   |              |                        | 378.70             | 151.86              | -.30          |                | 534.26             |      |        | 5.3                |
| 5        | 6201.82   |              |                        | 377.01             | 150.24              | -.32          |                | 533.46             |      |        | 5.5                |
| 6        | 6252.12   |              |                        | 375.55             | 148.34              | -.34          |                | 532.65             |      |        | 5.6                |
| 7        | 6294.12   |              |                        | 374.12             | 146.77              | -.36          |                | 531.53             |      |        | 5.3                |
| 8        | 6304.82   |              |                        | 372.43             | 143.59              | -.38          |                | 530.63             |      |        | 5.6                |
| 9        | 6322.82   |              |                        | 370.71             | 143.06              | -.39          |                | 529.40             |      |        | 5.4                |
| 110      | 6364.82   |              |                        | 369.17             | 140.91              | -.40          |                | 528.68             |      |        | 5.7                |



*Airborne Geophysical Survey*  
 Calgary, Alberta.  
**GRAVITY COMPUTATION SHEET**

Line No. KANGAROO

Line No. 196 W

Area NY Nye

Factor 0.851

Elevation Corr. Factor 1.062

Prospect Corr. 200.00 mgl

| Sta No. | Elevation | H.H.<br>H.I. | Corrected<br>Elevation | Elevation<br>Corr. | Observed<br>Gravity | Lat.<br>Corr. | Terr.<br>Corr. | Bouguer<br>Gravity | Date | Report | Bouguer<br>Gravity |
|---------|-----------|--------------|------------------------|--------------------|---------------------|---------------|----------------|--------------------|------|--------|--------------------|
| 68 N    | 5691.06   |              |                        | 352.85             | 187.37              | 1.20          |                | 540.42             |      |        | 10.4               |
| 69      | 5695.21   |              |                        | 353.10             | 187.15              | .19           |                | 540.44             |      |        | 10.4               |
| 70      | 5700.51   |              |                        | 353.43             | 186.96              | .17           |                | 540.56             |      |        | 10.6               |
| 1       | 5707.00   |              |                        | 353.83             | 186.62              | .5            |                | 540.60             |      |        | 10.6               |
| 2       | 5717.30   |              |                        | 354.47             | 185.95              | .13           |                | 540.59             |      |        | 10.6               |
| 3       | 5742.80   |              |                        | 356.05             | 184.22              | .12           |                | 540.39             |      |        | 10.4               |
| 4       | 5772.90   |              |                        | 357.98             | 182.11              | .10           |                | 540.19             |      |        | 10.2               |
| 5       | 5779.30   |              |                        | 358.32             | 181.98              | .08           |                | 540.38             |      |        | 10.4               |
| 6       | 5792.34   |              |                        | 359.19             | 181.03              | .06           |                | 540.25             |      |        | 10.3               |
| 7       | 5792.40   |              |                        | 359.13             | 181.18              | .05           |                | 540.36             |      |        | 10.4               |
| 8       | 5792.27   |              |                        | 359.12             | 181.21              | .03           |                | 540.36             |      |        | 10.4               |
| 9       | 5792.00   |              |                        | 359.10             | 181.24              | .01           |                | 540.37             |      |        | 10.4               |
| 80 N    | 5792.87   |              |                        | 359.22             | 181.12              | 2.00          |                | 540.24             |      |        | 10.3               |
| 1       | 5792.42   |              |                        | 359.57             | 180.73              | .01           |                | 540.29             |      |        | 10.3               |
| 2       | 5805.81   |              |                        | 359.96             | 180.25              | .03           |                | 540.18             |      |        | 10.2               |
| 3       | 5812.56   |              |                        | 360.56             | 179.62              | .05           |                | 540.13             |      |        | 10.1               |
| 4       | 5827.32   |              |                        | 361.29             | 178.74              | .06           |                | 539.97             |      |        | 10.0               |
| 5       | 5832.26   |              |                        | 362.29             | 177.63              | .08           |                | 539.84             |      |        | 9.8                |
| 6       | 5868.63   |              |                        | 363.86             | 175.82              | .10           |                | 539.59             |      |        | 9.6                |
| 7       | 5897.16   |              |                        | 365.62             | 172.93              | .12           |                | 539.43             |      |        | 9.4                |
| 8       | 5922.26   |              |                        | 367.43             | 172.03              | .14           |                | 539.32             |      |        | 9.3                |
| 9       | 5958.07   |              |                        | 369.21             | 170.13              | .15           |                | 539.19             |      |        | 9.2                |
| 90      | 5988.34   |              |                        | 371.29             | 168.00              | .17           |                | 539.12             |      |        | 9.1                |
| 1       | 6016.86   |              |                        | 373.05             | 165.72              | .19           |                | 538.58             |      |        | 8.6                |
| 2       | 6046.73   |              |                        | 374.90             | 163.49              | .20           |                | 538.19             |      |        | 8.2                |
| 3       | 6072.81   |              |                        | 376.58             | 161.44              | .22           |                | 537.80             |      |        | 7.8                |
| 4       | 6102.48   |              |                        | 378.60             | 158.82              | .24           |                | 537.18             |      |        | 7.2                |
| 95 N    | 6136.48   |              |                        | 380.46             | 156.51              | .25           |                | 536.72             |      |        | 6.7                |
| 96 N    | 6153.70   |              |                        | 382.15             | 154.50              | .27           |                | 536.48             |      |        | 6.4                |
| 7       | 6186.41   |              |                        | 382.56             | 152.70              | .28           |                | 535.98             |      |        | 6.0                |
| 8       | 6196.96   |              |                        | 384.21             | 151.94              | .30           |                | 535.85             |      |        | 5.9                |
| 9       | 6209.28   |              |                        | 384.98             | 150.86              | .32           |                | 535.52             |      |        | 5.5                |
| 100 N   | 6211.81   |              |                        | 385.11             | 150.59              | .34           |                | 535.36             |      |        | 5.4                |
| 1       | 6193.18   |              |                        | 383.97             | 152.02              | .36           |                | 535.63             |      |        | 5.6                |
| 2       | 6179.82   |              |                        | 383.11             | 153.10              | .37           |                | 536.04             |      |        | 5.8                |
| 3       | 6162.40   |              |                        | 382.11             | 154.30              | .39           |                | 536.02             |      |        | 6.0                |
| 4       | 6142.46   |              |                        | 380.81             | 155.77              | .41           |                | 536.19             |      |        | 6.2                |
| 5       | 6122.16   |              |                        | 380.19             | 156.38              | .42           |                | 536.15             |      |        | 6.2                |
| 6       | 6112.80   |              |                        | 379.20             | 157.26              | .44           |                | 536.12             |      |        | 6.1                |
| 7       | 6102.85   |              |                        | 378.53             | 157.94              | .46           |                | 536.01             |      |        | 6.0                |
| 8       | 6090.81   |              |                        | 377.58             | 158.87              | .48           |                | 535.97             |      |        | 6.0                |
| 9       | 6072.84   |              |                        | 376.83             | 159.47              | .49           |                | 535.81             |      |        | 5.8                |
| 110 N   | 6051.52   |              |                        | 375.19             | 161.02              | .50           |                | 535.71             |      |        | 5.7                |



Airborne Geophysical Services  
 Calgary, Alberta.

GRAVITY COMPUTATION SHEET

Point KANGAROO

Line No. 204 W

Area NH Mye

Ref Factor .0851

Elevation Corr. Factor .062

Prospect Corr. 200.00 mgal

| Sta. No. | Elevation | H.H.<br>H.I. | Corrected<br>Elevation | Elevation<br>Corr. | Observed<br>Gravity | Lat.<br>Corr. | Terr.<br>Corr. | Bouguer<br>Gravity | Date | Report | Bouguer<br>Gravity |
|----------|-----------|--------------|------------------------|--------------------|---------------------|---------------|----------------|--------------------|------|--------|--------------------|
| 68N      | 5517.02   |              |                        | 342.10             | 199.05              | +12           |                | 541.27             |      |        | 11.3               |
| 69       | 5520.92   |              |                        | 342.92             | 198.28              | 10            |                | 541.30             |      |        | 11.3               |
| 70       | 5521.60   |              |                        | 343.58             | 197.67              | 08            |                | 541.33             |      |        | 11.3               |
| 1        | 5559.28   |              |                        | 344.68             | 196.62              | 06            |                | 541.36             |      |        | 11.4               |
| 2        | 5573.60   |              |                        | 345.56             | 195.88              | 04            |                | 541.48             |      |        | 11.5               |
| 3        | 5588.03   |              |                        | 346.46             | 195.00              | 02            |                | 541.48             |      |        | 11.5               |
| 4        | 5602.20   |              |                        | 347.21             | 194.22              | 01            |                | 541.44             |      |        | 11.4               |
| 5        | 5614.02   |              |                        | 348.07             | 193.45              | 00            |                | 541.52             |      |        | 11.5               |
| 6        | 5627.87   |              |                        | 348.93             | 192.60              | 02            |                | 541.51             |      |        | 11.5               |
| 7        | 5639.95   |              |                        | 349.68             | 191.77              | 02            |                | 541.41             |      |        | 11.4               |
| 8        | 5650.76   |              |                        | 350.84             | 190.91              | 06            |                | 541.29             |      |        | 11.3               |
| 9        | 5670.43   |              |                        | 352.06             | 189.18              | 07            |                | 541.17             |      |        | 11.2               |
| 80       | 5699.93   |              |                        | 353.40             | 187.72              | 08            |                | 541.04             |      |        | 11.0               |
| N-204W   | 5699.27   |              |                        | 353.11             | X                   |               |                |                    |      |        |                    |
| 81       | 5726.67   |              |                        | 355.05             | 185.90              | 11            |                | 540.84             |      |        | 10.8               |
| 2        | 5752.77   |              |                        | 356.67             | 184.11              | 13            |                | 540.68             |      |        | 10.7               |
| 3        | 5782.21   |              |                        | 358.50             | 182.26              | 12            |                | 540.42             |      |        | 10.6               |
| 4        | 5808.84   |              |                        | 360.15             | 180.71              | 16            |                | 540.70             |      |        | 10.7               |
| 5        | 5836.24   |              |                        | 361.85             | 178.92              | 17            |                | 540.60             |      |        | 10.6               |
| 6        | 5860.68   |              |                        | 363.96             | 177.30              | 19            |                | 540.47             |      |        | 10.5               |
| 7        | 5885.28   |              |                        | 364.89             | 175.58              | 20            |                | 540.27             |      |        | 10.3               |
| 8        | 5913.93   |              |                        | 366.65             | 173.97              | 22            |                | 539.91             |      |        | 9.9                |
| 9        | 5940.63   |              |                        | 368.32             | 171.65              | 23            |                | 539.74             |      |        | 9.7                |
| 90       | 5965.18   |              |                        | 369.84             | 169.95              | 25            |                | 539.54             |      |        | 9.5                |
| 1        | 5992.38   |              |                        | 371.96             | 167.52              | 27            |                | 539.21             |      |        | 9.2                |
| 2        | 6022.88   |              |                        | 373.73             | 165.47              | 29            |                | 538.91             |      |        | 8.9                |
| 3        | 6057.07   |              |                        | 375.52             | 163.01              | 32            |                | 538.23             |      |        | 8.2                |
| 4        | 6102.68   |              |                        | 378.37             | 159.68              | 33            |                | 537.72             |      |        | 7.7                |
| 5        | 6145.02   |              |                        | 380.99             | 156.24              | 35            |                | 536.88             |      |        | 6.9                |
| 6        | 6176.40   |              |                        | 382.94             | 153.76              | 36            |                | 536.24             |      |        | 6.3                |
| 7        | 6192.22   |              |                        | 383.92             | 152.49              | 38            |                | 536.03             |      |        | 6.0                |
| 8        | 6190.04   |              |                        | 383.78             | 152.62              | 39            |                | 536.01             |      |        | 6.0                |
| 9        | 6181.80   |              |                        | 383.27             | 152.98              | 41            |                | 535.84             |      |        | 5.8                |
| 100      | 6156.43   |              |                        | 381.70             | 154.80              | 43            |                | 536.07             |      |        | 6.1                |



GRAVITY COMPUTATION SHEET

ent KANGAROO

Line No. 212 W

Area Mt. Nye

er Factor .0851

Elevation Corr. Factor .062

Prospect Corr. 200.00 mg/l.

| Sta. No. | Elevation | H.H.<br>H.I. | Corrected<br>Elevation | Elevation<br>Corr. | Observed<br>Gravity | Lat.<br>Corr. | Terr.<br>Corr. | Bouguer<br>Gravity | Date | Report | Bouguer<br>Gravity |
|----------|-----------|--------------|------------------------|--------------------|---------------------|---------------|----------------|--------------------|------|--------|--------------------|
| 64 N     | 5318.72   |              |                        | 329.76             | 211.42              | +08           |                | 541.26             |      |        | 11.3               |
| 5        | 5337.28   |              |                        | 330.91             | 210.70              | .06           |                | 541.17             |      |        | 11.2               |
| 6        | 5353.85   |              |                        | 331.94             | 209.18              | .02           |                | 541.16             |      |        | 11.2               |
| 7        | 5365.83   |              |                        | 332.68             | 208.42              | .02           |                | 541.12             |      |        | 11.1               |
| 8        | 5384.01   |              |                        | 333.85             | 207.39              | .00           |                | 541.04             |      |        | 11.2               |
| 9        | 5401.49   |              |                        | 334.89             | 206.59              | -.01          |                | 541.27             |      |        | 11.3               |
| 70 N     | 5414.14   |              |                        | 335.68             | 205.68              | .03           |                | 541.83             |      |        | 11.3               |
| 1        | 5430.88   |              |                        | 336.71             | 204.63              | .04           |                | 541.30             |      |        | 11.3               |
| 2        | 5449.34   |              |                        | 337.86             | 203.54              | .06           |                | 541.34             |      |        | 11.3               |
| 3        | 5470.37   |              |                        | 339.16             | 202.32              | .08           |                | 541.40             |      |        | 11.4               |
| 4        | 5498.45   |              |                        | 340.90             | 200.67              | .10           |                | 541.47             |      |        | 11.5               |
| 5        | 5517.61   |              |                        | 342.09             | 199.53              | .12           |                | 541.50             |      |        | 11.5               |
| 6        | 5541.25   |              |                        | 343.56             | 198.14              | .13           |                | 541.57             |      |        | 11.6               |
| 7        | 5561.23   |              |                        | 344.84             | 196.55              | .15           |                | 541.34             |      |        | 11.3               |
| 8        | 5583.50   |              |                        | 346.18             | 195.30              | .17           |                | 541.31             |      |        | 11.3               |
| 9        | 5610.82   |              |                        | 348.73             | 193.58              | .19           |                | 541.72             |      |        | 11.7               |
| 80 N     | 5632.30   |              |                        | 349.26             | 192.17              | .20           |                | 541.28             |      |        | 11.2               |
| 212 W    | 5633.88   |              |                        | 349.30             | X                   |               |                |                    |      |        |                    |
| 81 N     | 5655.63   |              |                        | 350.65             | 190.83              | .22           |                | 541.28             |      |        | 11.3               |
| 2        | 5681.23   |              |                        | 352.24             | 189.18              | .23           |                | 541.19             |      |        | 11.2               |
| 3        | 5708.87   |              |                        | 353.92             | 187.67              | .25           |                | 541.34             |      |        | 11.3               |
| 4        | 5729.02   |              |                        | 355.20             | 186.44              | .27           |                | 541.37             |      |        | 11.4               |
| 5        | 5762.34   |              |                        | 357.27             | 184.20              | .29           |                | 541.18             |      |        | 11.2               |
| 6        | 5790.47   |              |                        | 359.01             | 182.44              | .30           |                | 541.18             |      |        | 11.2               |
| 7        | 5818.35   |              |                        | 360.74             | 180.66              | .32           |                | 541.08             |      |        | 11.1               |
| 8        | 5836.92   |              |                        | 361.89             | 179.48              | .34           |                | 541.03             |      |        | 11.0               |
| 9        | 5847.22   |              |                        | 362.53             | 178.23              | .36           |                | 541.10             |      |        | 11.1               |
| 90       | 5858.99   |              |                        | 363.26             | 178.14              | .37           |                | 541.03             |      |        | 11.0               |
| 1        | 5875.57   |              |                        | 364.29             | 176.97              | .39           |                | 540.87             |      |        | 10.9               |
| 2        | 5891.44   |              |                        | 365.27             | 175.85              | .41           |                | 540.71             |      |        | 10.7               |
| 3        | 5907.57   |              |                        | 366.27             | 174.61              | .42           |                | 540.46             |      |        | 10.5               |
| 4        | 5922.72   |              |                        | 367.83             | 172.87              | .44           |                | 540.26             |      |        | 10.3               |
| 5        | 5950.26   |              |                        | 368.92             | 171.53              | .46           |                | 539.99             |      |        | 10.0               |
| 6        | 5964.65   |              |                        | 369.81             | 170.50              | .47           |                | 539.84             |      |        | 9.8                |
| 7        | 5957.81   |              |                        | 369.33             | 169.75              | .49           |                | 538.59             |      |        | 8.6                |
| 8        | 5954.41   |              |                        | 369.20             | 169.68              | .51           |                | 538.47             |      |        | 8.5                |
| 9        | 5948.20   |              |                        | 368.42             | 170.49              | .53           |                | 538.38             |      |        | 8.4                |
| 100 N    | 5928.82   |              |                        | 367.66             | 171.20              | .55           |                | 538.31             |      |        | 8.3                |



GRAVITY COMPUTATION SHEET

Client KANGAROO

Line No T.L. 80 N

Area MT Nye

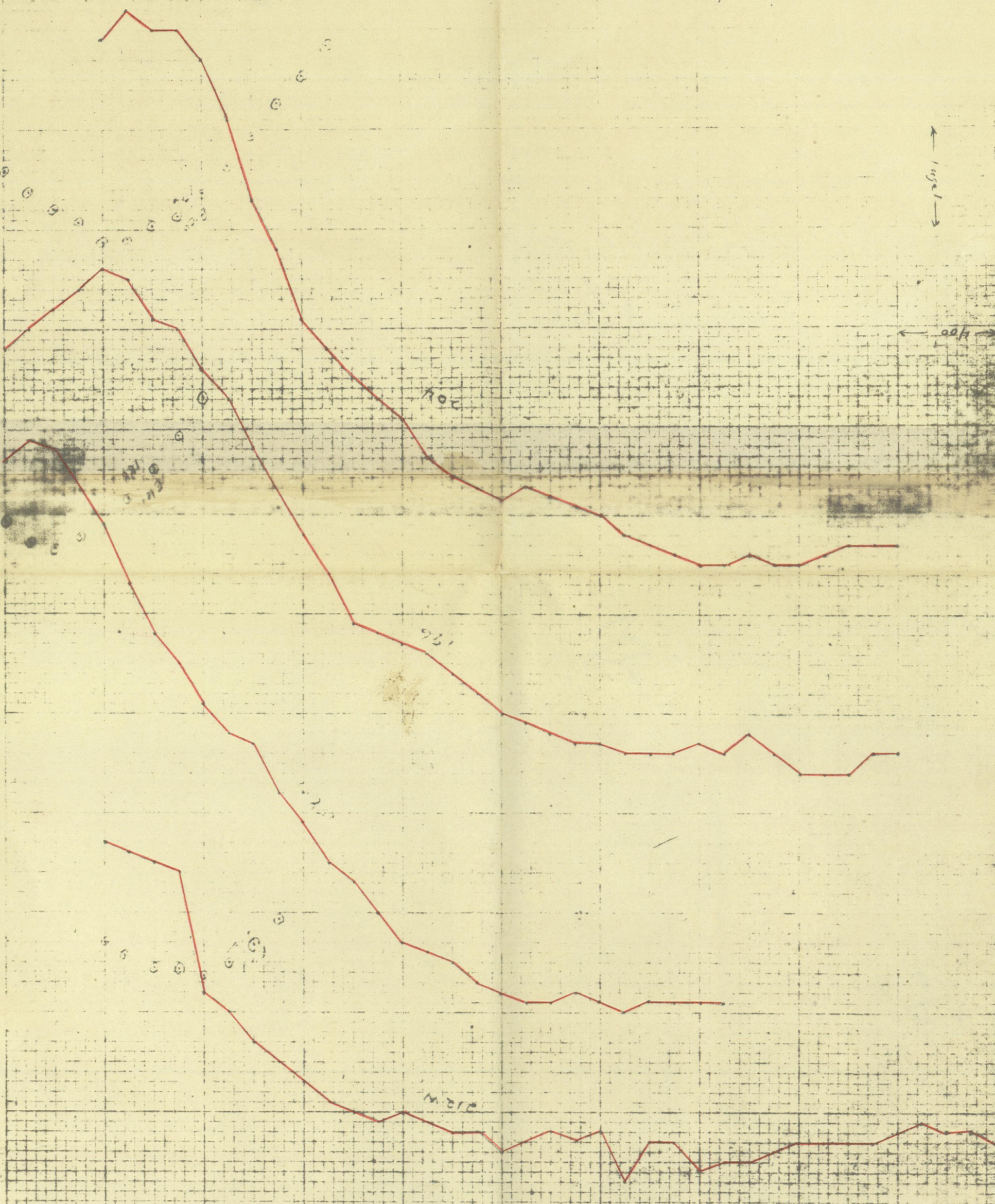
Ter Factor 0851

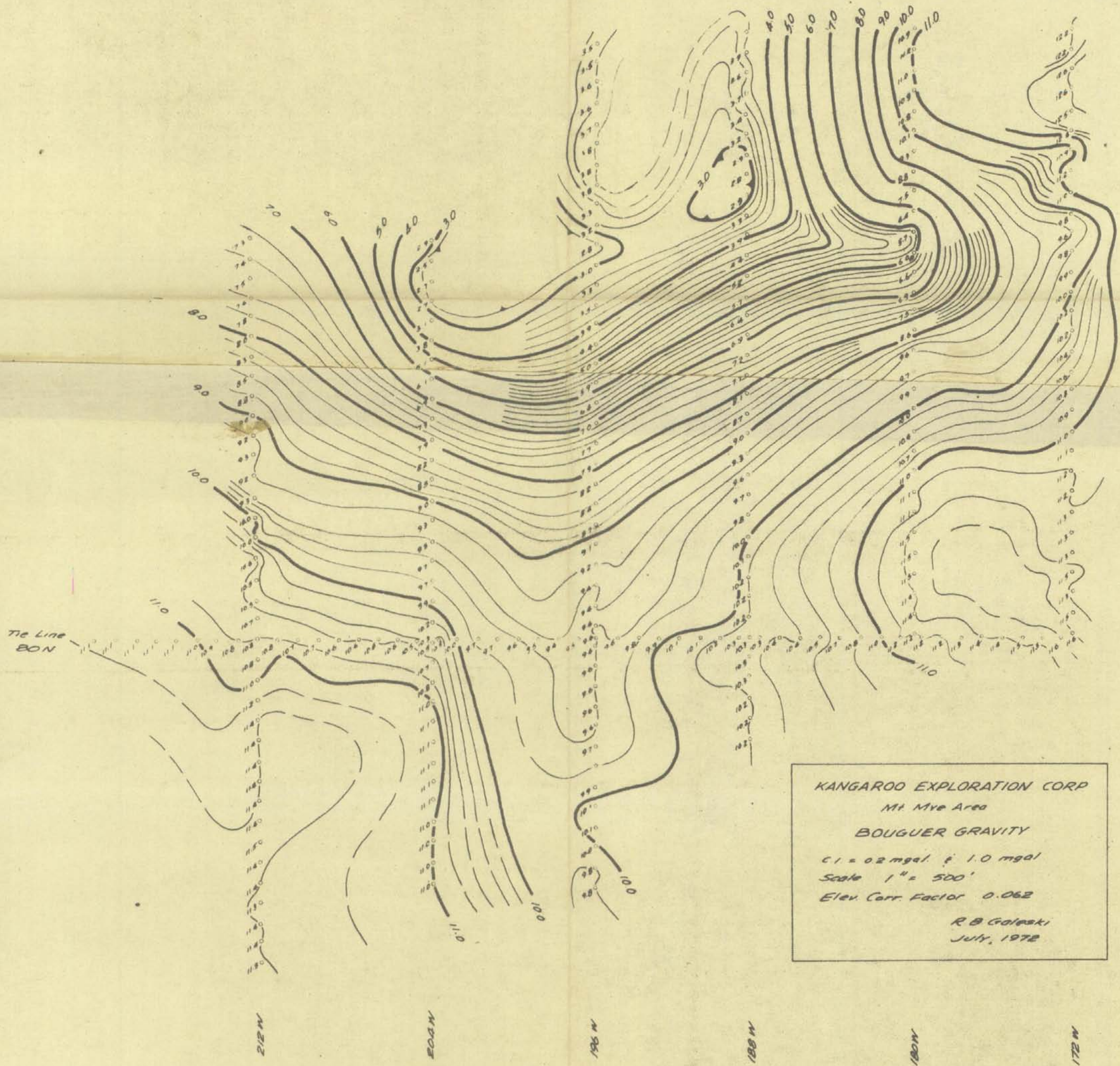
Elevation Corr. Factor 1.002

Prospect Corr. 200 mgal.

| Sta No. | Elevation | H.H. H.I. | Corrected Elevation | Elevation Corr | Observed Gravity | Lat. Corr. | Terr. Corr. | Bouguer Gravity | Date | Report | Bouguer Gravity |
|---------|-----------|-----------|---------------------|----------------|------------------|------------|-------------|-----------------|------|--------|-----------------|
| 2N-172W | 5469.14   |           |                     | 339.02         | 202.26           | +22        |             | 541.57          |      |        | 11.6            |
| 173W    | 5475.65   |           |                     | 339.43         | 201.70           | -28        |             | 541.47          |      |        | 11.5            |
| 1       | 5483.02   |           |                     | 339.95         | 201.29           | 22         |             | 541.51          |      |        | 11.5            |
| 2       | 5481.61   |           |                     | 339.86         | 201.24           | 16         |             | 541.36          |      |        | 11.4            |
| 6       | 5463.00   |           |                     | 338.71         | 202.39           | 25         |             | 541.35          |      |        | 11.4            |
| 7       | 5405.60   |           |                     | 337.63         | 203.42           | 23         |             | 541.28          |      |        | 11.3            |
| 8       | 5444.10   |           |                     | 337.53         | 203.40           | 22         |             | 541.15          |      |        | 11.2            |
| 9       | 5475.42   |           |                     | 337.48         | 201.31           | -21        |             | 541.20          |      |        | 11.2            |
| 180W    | 5500.00   |           |                     | 341.00         | 200.00           | -20        |             | 541.20          |      |        | 11.2            |
| 80N     | 5486.63   |           |                     | 340.17         |                  |            |             |                 |      |        |                 |
| 181     | 5525.25   |           |                     | 342.57         | 198.33           | -19        |             | 541.09          |      |        | 11.1            |
| 2       | 5530.32   |           |                     | 342.88         | 196.73           | 18         |             | 539.79          |      |        | 9.8             |
| 3       | 5575.36   |           |                     | 345.67         | 195.13           | -17        |             | 540.97          |      |        | 11.0            |
| 4       | 5600.46   |           |                     | 347.23         | 193.52           | -15        |             | 540.90          |      |        | 10.9            |
| 5       | 5628.70   |           |                     | 348.98         | 191.80           | -14        |             | 540.92          |      |        | 10.9            |
| 6       | 5650.28   |           |                     | 350.36         | 190.49           | -13        |             | 540.98          |      |        | 11.0            |
| 7       | 5671.78   |           |                     | 351.65         | 189.17           | -12        |             | 540.94          |      |        | 10.9            |
| 8       | 5689.37   |           |                     | 352.74         | 188.13           | -10        |             | 540.97          |      |        | 11.0            |
| 9       | 5710.99   |           |                     | 354.08         | 186.75           | -8         |             | 540.91          |      |        | 10.9            |
| 190     | 5730.49   |           |                     | 355.29         | 185.26           | -7         |             | 540.92          |      |        | 10.9            |
| 1       | 5742.83   |           |                     | 356.17         | 184.45           | -6         |             | 540.88          |      |        | 10.9            |
| 2       | 5763.32   |           |                     | 357.33         | 183.24           | -5         |             | 540.62          |      |        | 10.6            |
| 3       | 5777.27   |           |                     | 358.19         | 182.27           | -4         |             | 540.50          |      |        | 10.5            |
| 4       | 5787.03   |           |                     | 358.80         | 181.56           | -2         |             | 540.38          |      |        | 10.4            |
| 5       | 5794.59   |           |                     | 359.26         | 181.03           | +01        |             | 540.30          |      |        | 10.3            |
| 6       | 5799.35   |           |                     | 359.56         | 180.71           | 00         |             | 540.27          |      |        | 10.3            |
| 7       | 5799.64   |           |                     | 359.58         | 180.60           | -01        |             | 540.17          |      |        | 10.2            |
| 8       | 5798.51   |           |                     | 359.20         | 181.08           | 02         |             | 540.24          |      |        | 10.3            |
| 9       | 5783.44   |           |                     | 358.57         | 181.80           | 03         |             | 540.34          |      |        | 10.2            |
| 200     | 5771.08   |           |                     | 357.81         | 182.63           | 04         |             | 540.39          |      |        | 10.4            |
| 1       | 5756.43   |           |                     | 356.90         | 183.60           | 06         |             | 540.44          |      |        | 10.4            |
| 2       | 5732.56   |           |                     | 355.42         | 185.31           | 07         |             | 540.66          |      |        | 10.7            |
| 3       | 5711.02   |           |                     | 354.08         | 186.55           | 08         |             | 540.85          |      |        | 10.9            |
| 4       | 5695.29   |           |                     | 353.11         | 188.07           | 10         |             | 541.08          |      |        | 11.1            |
| 5       | 5690.29   |           |                     | 352.80         | 188.49           | -11        |             | 541.18          |      |        | 11.2            |
| 6       | 5687.41   |           |                     | 352.62         | 188.66           | -12        |             | 541.15          |      |        | 11.2            |
| 7       | 5683.82   |           |                     | 352.36         | 188.94           | -14        |             | 541.16          |      |        | 11.2            |
| 8       | 5676.81   |           |                     | 351.91         | 189.38           | -15        |             | 541.14          |      |        | 11.1            |
| 9       | 5669.50   |           |                     | 351.45         | 189.91           | -16        |             | 541.20          |      |        | 11.2            |
| 210     | 5652.84   |           |                     | 350.72         | 190.66           | -17        |             | 541.28          |      |        | 11.3            |
| 1       | 5645.53   |           |                     | 350.02         | 191.50           | -17        |             | 541.39          |      |        | 11.3            |
| 2       | 5633.08   |           |                     | 349.30         | 192.17           | -20        |             | 541.27          |      |        | 11.3            |
| 3       | 5616.33   |           |                     | 348.21         | 193.24           | -21        |             | 541.24          |      |        | 11.2            |
| 4       | 5602.42   |           |                     | 347.42         | 194.19           | -23        |             | 541.32          |      |        | 11.3            |
| 5       | 5587.24   |           |                     | 348.27         | 195.40           | -23        |             | 541.44          |      |        | 11.4            |
| 6       | 5583.96   |           |                     | 349.31         | 192.46           | -25        |             | 541.52          |      |        | 11.5            |
| 7       | 5580.84   |           |                     | 350.30         | 191.50           | -26        |             | 541.54          |      |        | 11.5            |
| 8       | 5574.59   |           |                     | 351.27         | 190.60           | -27        |             | 541.60          |      |        | 11.6            |
| 9       | 5572.22   |           |                     | 351.93         | 190.01           | -29        |             | 541.65          |      |        | 11.7            |
| 220     | 5571.00   |           |                     | 352.64         | 189.70           | -30        |             | 541.64          |      |        | 11.6            |

N-S line plots  
w/ new elevations  
218G  
Aug '72





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