## 12. Log-Resistivity versus Log-Frequency Plot with Calculated Curve



Remark :
"f"in transversal axis is frequency No. " $f$ " values correspond to frequency as followings.

| Frequency Aro. | Frequency ( Hz ) | Frequency \% | Frequency ( $\mathrm{Hz}^{\text {) }}$ |
| :---: | :---: | :---: | :---: |
| 14 | 2048 | 9 | 64 |
| 13 | 1024 | 8 | 32 |
| 12 | 516 | 7 | 16 |
| 11 | 256 | 6 | 8 |
| 10 | 128 | 5 | 4 |

1000







| F | 085 | CHLC |
| :---: | :---: | :---: |
| 14 | 1947.68 | 979.94 |
| 3 |  |  |
| 1 | 556.08 | 659. |
| 8 | 1649.88 | 940. |
| 9 | 4839.88 | 1461. |
| 9 | 6319.01 | 2283 |
|  | 3975.80 | 3434 |
| 5 | 11780.88 | 487 |
| 5 | 15024.80 | 6496. |





| F | OBS | calc |
| :---: | :---: | :---: |
|  | 180.80 | 163.71 |
|  | 117 |  |
|  | 147:80 | 13 |
|  | 146.00 | 163.8 |
|  | 182.00 |  |
|  | 3180 |  |
|  | . 68 |  |
|  | 69.8 | 382. |

Station Mo. $=9$
Rho Depth
Rohno
300.808 $\frac{1}{2} 1598.80$

| $F$ | 085 | Calc |
| :---: | :---: | :---: |
| 14 | 288.60 | 273.48 |
| 13 | 36.60 | 311.60 |
| 1 | 583.6 | 514.65 |
| 10 | 479.81 | 658.86 |
|  | 662.09 | 814.71 |
| 8 | 980.08 | 950.84 |
|  | 135.68 | 183 |
|  | . 80 | 1 |
|  | 4187.80 | 1274.3 |

Station He. =9





|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  | 32 | 35 |
| d | 3119.88 |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | 9795 | 8746 |


station Mo. $=11$


|  | 085 |  |
| :---: | :---: | :---: |
| 14 | 2335.88 | 2248.81 |
| 12 | 4343.60 | 449:08 |
| 11 | 4752.80 | 5884.91 |
| 10 | 4560.81 |  |
| 9 | 5943.80 | 952 |
|  | 14958.86 | 10499.98 |
|  | 19124.66 | 11179.78 |
| 5 | 21338.83 | 11675,50 |



$$
\begin{aligned}
& \text { Station No. }=12
\end{aligned}
$$



Station $\mathrm{Na},=13$



| Station Ho, $=14$ |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  | (ohn | (1) |
|  | $1{ }^{2} 65.88$ | 36 |
|  | $3{ }^{2} \mathrm{ER}$ |  |
| $F \quad 085$ |  |  |
|  |  |  |
| $\frac{14}{15}$ |  |  |
| 12 194.818 186.07 |  |  |
|  |  |  |
| 18127.40148 .41 |  |  |
| 9 | 140.80 | 173.20 |
| 194.80. 198.31 |  |  |
|  | 223.80 | 23.32 |
|  |  | 248.77 |
|  | 457.60 | 25.29 |

Station Ho, $=15$








CA1C.
1315.95
1989.55
2679.55
3659.59
4731.74
5788.25
6741.96
7542.18
8181.28
8672.37


Station Ma. $=17$








Station M. $=19$




| Station Ho |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  | $\frac{1}{2} 3888.80$ | 崖88 |
|  | 3500.0 | 1468 |
|  | 4 ¢ 480 |  |
|  |  |  |
| 14 | 224.80 |  |
|  | 425.80 |  |
|  | ges. |  |
| $\frac{11}{16}$ | 84.8 | 722.12 |
| 16 921.80 |  |  |
| 8 1198.60 13 |  |  |
| ? | 1979.60 |  |
|  | 3570.04 | 25 |
|  | 7676.80 | 334 |


Station No. $=22$


| $\text { Station } \mathrm{Ho}=23$ |  |  |
| :---: | :---: | :---: |
|  | (ohom) |  |
|  | 429 | - |
|  | 1568 |  |
|  | 4.6008. |  |
|  | 085 |  |
|  |  |  |
| $\begin{aligned} & 13 \\ & 13 \\ & \hline 10 \end{aligned}$ |  |  |
| 85.8 |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | 2568.88 | 1426.2 |
|  | 3907.89 | 1959. |
|  | 6242.08 | 2579 |






| F | 085 | CAl |
| :---: | :---: | :---: |
| 14 | 367.89 | 375.42 |
| 13 | 45.80 | 451. |
| - | 569.80 | 589.43 |
| 19 | 685.06 | 615. |
| 9 | 747.68 | . |
| 3 | 1848.80 | 1314.97 |
| 7 | 3385.80 | 1976. |
|  | 7893.80 | 2850 |
| 5 | 20169.80 | 3881.53 |



| Station Ho. 28 |  |  |
| :---: | :---: | :---: |
|  | Rho |  |
|  | 240.08 | 189 |
|  | 2.480 .36 | 480 |
|  | 3.258 .09 | 880 |
|  | 2980.80 |  |
| F | 0 SS |  |
| 14 | 261.08 | 557 |
| 12 | 298.81 | 288. |
| 1 |  | 397 |
| 11 | 329.88 | 29.4 |
| 18 | 283.88 | 277 |
| 9 | 282.00 | 309.4 |
| 8 | 5\%68 | 397. |
|  |  | 539. |
|  | 12 | 92 |



Station Ho. $=27$





| tation No. $=29$ |  |  |
| :---: | :---: | :---: |
|  | (ohm) |  |
|  | 1. 450.80 | 165 |
|  | 2. 4080.88 |  |
| ORS |  |  |
| 14 | 456.80 |  |
|  | 529.88 |  |
|  | 6\% ${ }^{\text {a }}$ |  |
| 16 |  |  |
| 9.80 |  |  |
| $8$ | 148 |  |
| $\frac{1485: 8813}{}$ |  |  |
|  |  |  |
|  | 3328.06 | 2528. |


Station Mo. $=30$




 $\begin{array}{rr}5 & 085 \\ 14 & 173.00 \\ 13 & 186.80 \\ 11 & 125.09 \\ 10 & 186.68 \\ 9 & 91.88 \\ 9 & 159.60 \\ 7 & 630.80 \\ 5 & 1483.80\end{array}$ CGLC
227.48
190.41
159.14
125
99.12
129.41
296.17
320.53
582.12

| F | 085 | CA |
| :---: | :---: | :---: |
| 14 | 403.80 | 391.64 |
| 13 | 419.68 | 436.15 |
| , | 53. 8 | 519. |
| 10 | 869.06 | 864. |
|  | 1448.84 | 1183.2 |
|  | 2730.00 | 1789.95 |
| 7 | 4484.68 | - 4 |
|  | 65770 |  |
| 5 | 9315.00 | 4406.6 |




| F | ORS | CA |
| :---: | :---: | :---: |
| 14 | 191.88 | 268.45 |
| 12 | 342.88 | 33 |
|  | 483.81 | 380 |
| 10 | 415.80 | 463.45 |
|  | 589.89 | 689. |
| 8 | 1136.80 | 826 |
|  | 1815.88 | 1182.72 |
| 6 | 2191.6 | 141 |



 CalC
298.19
364.68
279.15
239.21
289.91
319.93
451.72
677.91
833.35


| $F$ | ORS | CA |
| :---: | :---: | :---: |
| 14 | 1129:80 | 1180.93 |
| 13 | 1285.00 | 1196 |
| 12 | 1211.68 | 1393 |
| 19 | 1334.80 | 17 |
| , | 2196.89 | 2356 |
| 8 | 4236.00 | 3218 |
| 7 | 7854.80 | 4231.8 |
| 5 | 9986.88 | 52 |
| 5 | 12694.80 | 6293. |







|  |
| :---: |
|  Westan <br>  |
|  |  |
|  |  |
|  |
|  |
|  |

Station Ho. $=33$


Station Mo. $=48$


|  | 089 | CA |
| :---: | :---: | :---: |
| 14 | 38.80 | 31.76 |
| 13 | 23.88 | 24. |
|  | 19.80 | 13. |
| 10 | 13.88 | 11. |
| 9 | 13.90 | 15.87 |
| 8 | 45.80 | 25. |
| 7 | 238.81 | 45. |
|  | 1091.80 | 84. |
| 5 | 3613.00 | 155.28 |




|  | $150$ | ${ }^{\text {CALC }}$ |
| :---: | :---: | :---: |
| 13 | 198.88 | 169.48 |
| 12 | 86.90 | 94. |
| 1 | 71.80 | 75. |
| 10 | 67.80 | 63.64 |
|  | 65.80 | 67. |
| 9 | 129.00 |  |
|  | 252.08 | 134 |
|  |  |  |

Station No. $=42$






| F | 0 BS | CA |
| :---: | :---: | :---: |
| 14 | 66.60 | 5 |
|  | 53.80 | 54.8 |
| 12 | 46.81 | 46.1 |
| 11 | 34.89 | 36.24 |
| 19 | 29.80 |  |
|  | 21.80 | 29. |
| 8 | 41.98 |  |
| 7 | 111.08 |  |
| 5 | 942.80 | 180.6 |






Station Ho. $=45$






Station No, $=46$

|  | NHo |  |
| :---: | :---: | :---: |
|  |  |  |
|  | (9hto | 310 |
| 2 | 169.96 | 480 |
| 3 | 48 Ba | 604 |
| 4 | 980.80 |  |
| $F$ | 085 | CALC |
| 4 | 59.08 | 52. |
| $13$ | 61.88 | 65 |
|  | 87.84 |  |
|  | \% | - |
| 9 | 93.8 | 4.05 |
| ¢ | 181.68 | 135.17 |
| 7 | 322.68 | 194.74 |
|  | 行 |  |
|  | 949 退 | 356. 18 |



| F | OBS | Calc |
| :---: | :---: | :---: |
| 14 | 143.00 | 148. |
| 13 | 379.80 | 174. |
| 12 | 215.68 | 2 |
| 10 | 299:88 | 296 |
| 9 | 348.88 | 466.27 |
| 3 | 786.80 | 561. |
|  | 1355.80 | 754. |
|  | 2448.86 |  |
| 5 | 4626.80 | 1173. |





| F | 089 | CAL |
| :---: | :---: | :---: |
| 14 | 98.00 | 110.27 |
| 13 | 136.818 | 117.97 |
| 11 | 127.69 | 128. ${ }^{\text {ch }}$ |
| 19 | 123.80 | 133.91 |
| 8 | 59.80 | 153.48 |
| 8 | 583.80 | 198. |
| 6 | 567.69 | 299. |
| 5 | 552.61 | 358.53 |




| F | 08 c | cas |
| :---: | :---: | :---: |
| 4 | 175.40 |  |
| 13 | 145.88 |  |
| 11 | 65,80 |  |
| 10 | 72.61 |  |
| 9 | 75.80 | 89.71 |
|  | 155.80 | 180.80 |
| 7 | 294.00 | 135 |
|  | 485.88 |  |
| 5 | 496.00 | 235. |




|  | GBS | C |
| :---: | :---: | :---: |
| 14 | 188.80 | 116.41 |
|  | 172.60 | 163.12 |
| , | 28, 00 | 22 |
| 18 |  | 2 |
| 19 | 235.08 | 376.81 |
| 9 | 475.69 | 486 |
|  | 838.00 |  |
|  |  | 899 |
| 5 | 2443.60 | 1634.2 |

A -240


| Station $110=52$ Rho Depth |  |
| :---: | :---: |
|  |  |
| 1 | 888.80 |
| 3 | 29608.00 |


| F | 085 | CA |
| :---: | :---: | :---: |
| 14 | 891.80 | 958. |
| 13 | 1979.08 | 1104.75 |
| 12 | 151.88 | 1441 |
| 18 | 1569.80 | 2143 |
| 9 | 1786.60 | 4635 |
| 8 | 3119.88 |  |
| 7 | 164980 | 8 |
| 5 | 56743.06 | 12925 |





Station Ho. $=54$

| ation Ho. $=54$ |  |  |
| :---: | :---: | :---: |
|  | Sho |  |
|  | 150.00 | - |
|  | 2.450 | , 460 |
|  | 680.100 | 880 |
|  | 7000. |  |
| ${ }^{1}$ | ORS |  |
|  | 217.80 | 218.7 |
|  | 245.00 | 256.5 |
|  | 276 | 27.17 |
| 10 32.09 377 |  |  |
|  |  |  |
| O. 1193.68 |  |  |
| $\begin{aligned} & 7 \\ & 6 \end{aligned}$ | 23.80 |  |
|  | $4{ }^{\text {a }}$ 9. 9 |  |




Station Na. $=55$


Station $\mathrm{No}=56$


| 5 | 085 | CAl |
| :---: | :---: | :---: |
| 14 | 24.88 | , |
| 13 | 35.88 | 34.53 |
| 12 | 46.08 | 39.6 |
| I | 46.80 | 44.36 |
| 10 | 48.80 | 55.73 |
|  | 85.68 | 78.97 |
|  | 152.89 | 11 |
|  | 458.018 |  |
| 5 | 751.08 | 312.68 |










| $F$ | ORS | CAL |
| :---: | :---: | :---: |
| 14 | 317.98 | 312.7 |
| 13 | 57.80 | 497 |
| 13 | 114.60 | 1251 |
| 16 | 1571.00 | 1850 |
| 9 | 2869.00 | 2567 |
| 8 | 936.818 | 3338 |
| 6 | 15184.00 | 475 |
| 5 | 23233.00 | 5310.01 |








| 5 | 085 | CaL |
| :---: | :---: | :---: |
| 14 | 477.80 | 5. |
| 13 | 815.99 |  |
| 11 | 1085.49 | 1839. |
| 10 | 1199.89 | 1497.9 |
| 9 | 1859.09 | 2133. |
| 8 | 3639.88 | 2913 |
| 7 | 6737.88 | 3768 |
| 5 | 14544.00 | 5377 . |















| $F$ | 08S | 1 |
| :---: | :---: | :---: |
| 14 | 149.80 | 179.72 |
| 13 | 239.88 | 210.52 |
| 1 | 239.68 | 243.37 |
| , | 227.80 | 315.16 |
|  | 363.00 | 434.1 |
| 8 | 671.06 |  |
|  | 1198.010 | 796.68 |
|  | 1775.98 | 1888 |
|  | 2304.00 | 1213.78 |



Station Mo. $=72$






Station No. $=73$

$\begin{aligned} & \text { CALC } \\ & 629.21 \\ & 1919.16 \\ & 2588.83 \\ & 3149.31 \\ & 483.43 \\ & 4570.35 \\ & 5683.71 \\ & 6286.69 \\ & 6586.24\end{aligned}$

Station No. $=74$











Station Ho. $=79$










Station No. $=98$



Station No. $=89$


Station Ho. $=90$


$C A L C$
13.81
7.67
4.81
4.85
5.25
1.55
3.68
61.87
115.47









Station Na. $=96$









| $F$ | 085 | CAL |
| :---: | :---: | :---: |
| 14 | 345.69 | 295. |
| 12 | 415.6 | 374.91 |
| 1 | 771.64 | 395 |
| 16 | 1077.80 | 118. 19 |
| 3 | 1995.64 | 1855.64 |
| 8 | 3043.60 | 2967. |
| 7 | 72.88 .8 | $4{ }^{46}$ |
| 6 | 13446.80 | 6441. |
| 5 | 25807,06 | 3608.9 |



Station Ho: $=102$








| F | 0 OS | CAL |
| :---: | :---: | :---: |
| 14 | 25.60 | 研 |
| 13 | 371.60 | 536 |
| - | 714.8 | 73 |
| 16 | 778.09 | 944.4 ? |
| 9 | 1487.08 | 1155.34 |
| 8 | 289.60 | 1345.94 |
| 7 | 5355.00 | 1506.44 |
|  | 9668.86 | 1634.6 |
| 5 | 18589.88 | 1733.25 |








Station Mo. $=110$


Station Mo.z111






|  | 0 BS | CALC |
| :---: | :---: | :---: |
| 14 | 874.80 | 964. |
| 13 | 747.80 | 984 |
| 1 | 1015:90 | 757. |
| 10 | 1207.90 | 1055.8 |
|  | 2498.00 | 1679.3 |
| 8 | 50480 | 2750 |
|  | 17694, 81 | 689 |
| 5 | 31917.60 | 9573.22 |




| $F$ | OBS | CALC |
| :---: | :---: | :---: |
| , | 39.88 | 394.28 |
| 13 | 549.80 | 494. |
| 11 | 802.68 | 80 |
| 18 | 611.80 | 1892.1 |
| . 9 | 1280.80 | 1533.79 |
| 8 | 2743.08 | 2123 |
|  | 526.88 | 5 |
| 5 | 14150.88 | 4294.10 |




| F | ORS | CALC |
| :---: | :---: | :---: |
| 14 | 33.06 |  |
| $13$ | 49.60 |  |
| 11 | 80.08 |  |
| 19 |  |  |
|  | 88.80 |  |
|  | 194.00 | 286.13 |
|  | 474.80 |  |
|  | 485 |  |
|  | 4660.60 | . |



Station $10 .=115$



Station $\mathrm{Na}=416$









Station Mo. $=119$






Station No. $=121$


Station Mo. $=122$


| $F$ | 085 | Cai |
| :---: | :---: | :---: |
| 14 | 58.88 | 524.48 |
| 13 | 963.08 | 955.77 |
| 12 | 1417.08 | 1392.13 |
| 1 | $1313 . \mathrm{ge}$ | 1969.80 |
| 16 | 1230.80 | 2457.72 |
| . | 212.68 | 2995.11 |
|  | 4148.88 | 3454.50 |
| 7 | 7308.83 | 3837.97 |
|  | 14658.00 | 4143.15 |
| 5 | 13646.04 | 4376.07 |






Station No. $=124$






Station No. $=127$


#  

;



|  | 085 | CAL |
| :---: | :---: | :---: |
|  | 838.80 | 10 |
| 12 | $1{ }^{1} 95$ | 134 |
| 11 | 119.80 | 1634 |
| + | 1681.00 | 2116 |
|  | 3978.60 | 2836.3 |
| 8 | 5681.90 | 3733.5 |
| 7 | 9787.80 | 4754.27 |
| 5 | 15753.08 | 578.86 |


Station No. $=129$





| $F$ | 08 | CA |
| :---: | :---: | :---: |
| 14 | 1079.80 | 1134. |
|  | 1337.09 | 129 |
| 12 | 1524.88 | 1393 |
| 10 | 1242.88 | 1563 |
| 10 | 1609.80 | 2020 |
|  | 2999.88 | 287 |
| 7 | 5268.80 | 5 |
|  | 15834.68 | 7978. |
| 5 | 24613.08 |  |




| r | 085 | CA |
| :---: | :---: | :---: |
| 14 | 1281.08 |  |
| 13 | 1112.88 | 1184. |
| 12 | 193.30 | 113. |
| 11 |  |  |
| 18 | 9455.88 | 1089. |
|  | 31780 |  |
| 7 | 5564.8 | 216 |
|  | 814.81 | 295 |
| 5 | 13087.00 | 3966.90 |



Station Ho. $=132$


CALC
2363
2997
3540
4435
5596
6468
6825
7147
7386

| .69 |
| ---: |
| .83 |
| .39 |
| .84 |
| .74 |
| .44 |
| 7.74 |
| 6.54 |






|  | 085 | calc |
| :---: | :---: | :---: |
| 14 | 146.86 | 142.24 |
| 13 | 1481.08 | 150 |
| 1 | 1145.6 | 1577.1 |
| 6 | 1586.80 | 1873.38 |
| 9 | 2677.0 | 2440.49 |
| 8 | 4819,00 | 3251 |
|  | 8677.60 | 4530. |
|  | 14802.06 | 5270 |
|  | 25227.08 | S265. |



Etation $\mathrm{No}=135$

|  | Rho | Der |
| :---: | :---: | :---: |
|  | (ohti) | ( $n$ ) |
| 1 | 580.80 | 10 |
| 2 | 1468.88 | 138 |


| F | 085 |  |
| :---: | :---: | :---: |
| 4 | 648.88 |  |
| \% | 741.8 |  |
| 11 | 615.00 |  |
| 1 | 735,80 |  |
|  | 1151.60 | 131 |
|  | 1986.00 |  |
|  | 3514.80 |  |
|  |  |  |
|  | 9845. | 1 |









Station No: $=133$

| Rho. Depth |
| :--- |
| (ohm) |
| 99.018 |
| 10 |







Station No. $=139$




$$
1687.34
$$







| 6141312111098765 | OBS | CALC |
| :---: | :---: | :---: |
|  | 151.80 | 48.31 |
|  | 342.88 | 8 |
|  | 14856.84 | $\frac{13759}{}$ |
|  | 2926.80 | 32 S |
|  | 4929.61 | 4605. |
|  | 7196.88 | 6038.5 |
|  | 9478.18 | 7442.9 |
|  | 11323.00 | 3784 |
|  | 13657.08 | 9761.95 |




| 1 | OBS | CA |
| :---: | :---: | :---: |
|  | 987.90 |  |
|  | 842.60 | 817. |
|  | 62.86 | 749. |
|  | 662.80 |  |
|  | 124.8 | 1 |
|  | 3696.00 | 21 |
|  | 5841.80 | 296 |
|  | 9115,80 | 3914.21 |



Station $10 .=144$



Station Ho. $=145$
Rho
Rohmerth
$\frac{1}{2}$
2


Station Ho: $=146$


| $\stackrel{5}{4}$ | ${ }^{0} 815.88$ | CALC |
| :---: | :---: | :---: |
| 13 | 104.06 | 194.47 |
| 12 | 174.88 | 163.81 |
| 11 | 139.80 |  |
| 10 | 292. | 25 |
| 9 | 115.89 |  |
|  | 2659.80 | 1801 |
|  | 3360.80 | 1455. |
| 5 | 5259.68 | 1982.56 |








Station No. $=148$
Rho Depth
(ohm








Station No. $=151$



Station $\mathrm{Mo}=152$

159.80

CALC
272
415
587
1026
1233
1414
156
1679
1768
.95
.90
.48
.98
.95
.33
.26


Station Ho. $=153$


| 0 ES | chio |
| :---: | :---: |
| 1344.00 | 472. |
| 476.88 | 483. |
| 472.48 |  |
| 55.68 | ¢ |
| 2483.06 | 1544.44 |
| 4809.00 | , |
| - |  |
| $5359.60$ 21970.60 | 636.29 |




CALC


Station Ho, $=155$





| $F$ | $0 \mathrm{SS}_{5}$ | Calc |
| :---: | :---: | :---: |
| 14 | 14 c | 124 |
| 12 | 8656 | 2689 |
| 11 | 2611 | 3194 |
| 9 | 16344 | 578 |
|  | 31577 | 8974 |
|  | - 57880 | 11149 |
|  | $185 \%$ \% | 13127 |
| 5 | 17293 | 1480 |





















| $F$ | 085 | CAL |
| :---: | :---: | :---: |
| 4 | 8557 | 4 |
| 15 | 3476 | 12 |
| 11 | 9027 | 2016 |
| 18 | 6495 | 3588 |
| 8 | 31733 | 102 |
| 7 | 34937 | 1688 |
| 6 | 55133 | 23413 |
| 5 | 34947 | 3190. |


$\qquad$



 .89
.98
.71
.75
.55
.72
.38
.38



| F | $00^{3}$ | CALCim |
| :---: | :---: | :---: |
| 14 | 16477 | 1617 |
| 2 | 111 | 4892 |
|  | 7918 |  |
| 19 | 14342 | 14879 |
| 3 | 4187 | $3{ }^{3} 39$ |
| \% | 68757 | 46986 |
| 6 | 103817 | 6434 |
| 5 | 148463 | 79584 |








| $F$ | 085 | CALC |
| :---: | :---: | :---: |
| 14 | 668.80 | 5 |
| 13 | $\begin{array}{r} 337.89 \\ 79.80 \end{array}$ |  |
|  | 423.60 |  |
| 18 | 984.88 |  |
|  | 1728.08 |  |
|  |  |  |
|  | - 5259.04 |  |
|  | 13537.00 | 4591. |









Station Mo. $=178$






| $14$ | $827.80$ | $82 \mathrm{CALC}$ |
| :---: | :---: | :---: |
| 13 | 913:80 |  |
| 12 | 1029.80 | 93 |
| 11 | 1843.80 | 1052 |
| 10 | 830.80 | 12 |
|  | 1374.0 |  |
| 7 | 274.88 | 5 |
|  | 7672.80 | 343 |
| 5 | 8267.80 | 3999 |








|  | 089 |
| :---: | :---: |
| 14 | 345.88 |
| 12 | 440.09 |
| 11 | 588.08 |
| 10 | 675.88 |
| 9 | 1015.09 |
| 8 | 1868.818 |
| , | 3195 |
| 5 | 6920.80 |

$C G L E$
362.27
42.32
47.38
536.28
689.89
969.86
1497.95
199.49
3766.43
3461.83



Station $\mathrm{Ha}=186$


| F | 0 us |  |
| :---: | :---: | :---: |
| 4 | 944. 90 |  |
| 3 | 1156.6 | 11 |
| 2 | 1310.88 |  |
| 11 | 1356.08 | 14 |
| 16 | 1290.80 |  |
|  | 2146.81 |  |
|  | 8 |  |
|  | 11152.90 |  |
|  | 15334.00 | 7482 |






$\qquad$

Station Ho. $=194$


| $F$ | 015 | CALC |
| :---: | :---: | :---: |
| , | 145.80 |  |
|  | 832.61 |  |
| 11 | 1175.60 |  |
| 10 | 1484. 60 |  |
|  | 2784.84 |  |
|  | 4618.00 |  |
|  | 7588.94 |  |
|  | 11399.80 |  |
|  | 13259:80 | 107 |

 6416
194.3
383.82
797.46
1248.2
1791.7
2419.8

3784.1 | 48 |
| :--- |
| .88 |
| .68 |
| .67 |
| .87 |
| .87 |
| .12 |
| 88 |










Station No, $=197$





.29
.29
.78
.70
.36
7.29
4.36
9.50














| 14 | $\frac{085}{1500}$ | 1727 |
| :---: | :---: | :---: |
| 13 | 30.80 | 25.68 |
| 12 | 62.00 | 54.5 |
| 11 | 181.80 | 88. |
| 19 | 137,69. | 152.01 |
| 9 | 301.08 | 248. |
| 7 | 945.81 | 550. |
|  | 1373.08 |  |
|  | 1731.68 | 933. |




CGLE
45.81
92.94
152.15
274.75
489.90
865.53
1276.65
1895.51
3485.79



Station $10,=299$



$\qquad$ CALC
915.43
1811.76
1687.15
1238.92
155.63
2151.23
2977.92
3995.45
5195.66
$\$ 195.68$











Station Mo. $=216$
Rho Depth
$\frac{1}{2}$ 8060.90 200
80809.80
$\begin{array}{r}C A L C \\ 648.81 \\ 186.98 \\ 1876.49 \\ 3333.96 \\ 5789.81 \\ 9619.63 \\ 15127.36 \\ 22326.10 \\ 3966.18 \\ 3962.80\end{array}$




Station No. $=217$


61.85 .85
384.58
188.31
1878.27
315.95
7659.48
10759.20
1417.20
17539.40



| $\begin{aligned} & 089 \\ & 434 \\ & 6154 \\ & 1656 \\ & 1599 \\ & 3164 \\ & 6380 \\ & 18169 \\ & 14393 \\ & 1872 \end{aligned}$ |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

$54 L$
3798
259
1968
248
3641
5484
10716
13771





Station Ho. $=221$



CALC

.46
.24
.87
3.85
4.54
.24
9.87
5.84






|  | OBS | cal C |
| :---: | :---: | :---: |
| 14 | 2511.80 | 2182.48 |
| 12 | 2879.80 |  |
| 11 | 33 |  |
| 18 | 9896 |  |
| 9 | 24160.81 |  |
|  | 37187.86 |  |
|  |  |  |
|  | 111253.60 | 32588.38 |











Station No. $=229$

$\frac{1}{2} 1188 \mathrm{BR.80}$

CALC
CALC.
33.61
11.44
189.35
33.75
583.61
93.56
1614.52
247.76
3545.69
4745.19

Station No. $=230$


CALC
1676.98
1293.71
16997
.98
.714
.43
.78
.79
.59
.78
.70







[^0]

| $F$ | 0 OS | $\mathrm{CaL}^{1} \mathrm{C}$ |
| :---: | :---: | :---: |
| 14 | 13044 | 3158 |
| 12 | 48917 | 5835 |
| 11 | 49 | 8343 |
| 10 | 125396 | 13696 |
| 9 | 263733 | 199776 |
| 9 | 418433 | 28938 |
| 7 | 59143 | 394 |
| ${ }_{5}$ | 115430 | 6882 |








CALC.
1269.57
1698.49
2159.98
2762.93
594.65
3839.97
1239.29
18967.186






| F | OBS | CAL |
| :---: | :---: | :---: |
| 14 | 354.818 | 394.62 |
| 15 | 1493.818 | 77514 |
| 11 | 1469.00 | 1191.77 |
| 18 | 1346.80 | 1823.98 |
| 9 | 2819.60 | 2695. |
| 8 | 5936.8 | 4951.70 |
| 6 | 7714.00 | 6136.87 |
| 5 | 19921.88 | 7219.14 |




Station Mo. $=242$


| F | OBS | CALC |
| :---: | :---: | :---: |
| 14 | 146.68 | 273 |
| 13 | 371.89 | 35.84 |
| 12 | 535.88 | 478.11 |
| 11 | 729.80 | 743.64 |
| 14 | 67.08 | 109 |
|  | 899.09 | 1556 |
|  | 1438.80 | 288 |
|  | C24.80 | ge |
| 5 | 347188 | 3135 |
| 5 | 5443.80 | 3577.4 |


Station Mo. $=243$



|  | 085 |
| ---: | ---: |
| 4 | 167.89 |
| 3 | 263.80 |
| 1 | 326.80 |
| 8 | 449.88 |
| 3 | 491.88 |
| 3 | 89.86 |
| 7 | 1437.88 |
| 6 | 189.88 |

$C A L C$
174.83
36.76
32.98
45.34
622.85
104.99
127.79
148.39

A -304



| $\begin{array}{r} 14 \\ 13 \\ 12 \\ 11 \\ 18 \\ 9 \\ 8 \\ 7 \\ 6 \end{array}$ | 085 | CALC |
| :---: | :---: | :---: |
|  | 189.80 |  |
|  | 314.89 | 392 |
|  | 053.94 |  |
|  | 885.80 |  |
|  | 1193.00 |  |
|  | 2583.88 | 3358. |
|  | 5188.08 | 41 |
|  | 6959.88 | 4778.58 |

Station Ho, $=245$




| $F$ | 055 | Cit |
| :---: | :---: | :---: |
| 14 | 18845 | 5626 |
| 13 | 8143 | 5311 |
| 12 | 7931 | 6628 |
| 11 | 9493 | 3 |
| 10 | 18892 | 14393 |
| 9 | 39167 | 21440 |
| 8 | 443 | 3855 |
| 7 | 191059 | 41071 |
| 6 | 80 |  |
|  |  |  |
|  | 199493 | 62.31 |



Station He. $=247$





Station fo: $=249$







|  | OBS | CALC |
| :---: | :---: | :---: |
| 14 | 144.89 | 1 |
| 13 | 424.80 |  |
| 3 | 484.88 |  |
| 16 | 723.88 | 8 |
| 9 | 1489.00 | 131 |
| 8 | 2658.88 | 283 |
|  | 4410.06 | 294 |
| 6 | 6534.89 | 4016 |
| 5 | 9652.88 | 5112. |



Station No. $=252$




| F | 085 | CALC |
| :---: | :---: | :---: |
| 14 | 381.819 | 383.92 |
| 13 | 468.80 | 447.18 |
| - | 588.60 | 55. |
| 10 | 649.619 | 711.19 |
| 9 | 1272.80 | 191 |
| 8 | 2179.80 | 1482 |
|  | 5438.80 | 587 |
|  | 7510.00 | 3683.94 |




| F | 0 SS | CA |
| :---: | :---: | :---: |
| 14 | 22.08 |  |
| 13 | 97.88 | 1 |
| 12 | 112.88 | 15. |
| 10 | 287.80 | 237. |
| 9 | 427.88 | 365. |
| 2 | . 894.88 | 5 |
|  | 14 Bra |  |
| 5 | 1969.80 | 1171.55 |

Station No. $=255$











| F | 085 | CALC |
| :---: | :---: | :---: |
| 14 | 511.80 | 601. |
| $\begin{aligned} & 13 \\ & 12 \end{aligned}$ | 589.80 |  |
| 11 | 659.88 | 76 |
| 18 | 986.88 | 1102 |
|  | 1736:80 | 16 |
|  | 2629.88 |  |
|  | 55 |  |
|  | 9730:88 | 5282.9 |




$$
\begin{aligned}
& \text { Station Ho. }=251 \\
& \text { Fho }
\end{aligned}
$$





Station flo: $=262$


Station Ho: $=263$


Station No. $=264$


CALC
432
537
529
965
1446.
2262
3496.
5148.
7156. 32.79
36.27
729.74
96.26
262.93
148.4
159.6






| $F$ | abs | CA |
| :---: | :---: | :---: |
| 14 | 20.90 | 22.23 |
| $\frac{13}{2}$ | 31.010 | 55.94 |
| , | 2. ${ }^{\text {a }}$ | 4.32 |
| 18 | 37.80 | 62.76 |
|  | 74.80 | 87.76 |
|  | 119.04 | 117,72 |
| , | 171.90 | 149.78 |
|  | 233.09 | 180.77 |
| 5 | 327.00 | 268.28 |






$$
\begin{aligned}
& \text { Station Ho, }=270
\end{aligned}
$$






Station Hos $=271$



GAL6.
2884.76
3925.94
3432.94
457.55
6337.39
3489.76
1498.98
10875.70
20824.60

Station No. $=272$




Station 130.273



Station No. $=274$


|  | OBS |  |
| :---: | :---: | :---: |
|  | 117.81 |  |
|  | 218.83 |  |
|  | 199:69 |  |
|  |  |  |
|  |  |  |
|  | 937.88 |  |
|  | 1209.60 |  |
|  |  |  |
|  | 2356:08 | 1292. |

Station Ho. $=275$



Station Ho. $=276$






Station Ha. 28 Be








| F | 0 BS | CAL |
| :---: | :---: | :---: |
| 14 | 564.00 | 563.23 |
| 13 | 668.98 | S |
| 1 | 709.60 | 112 |
| 10 | 1387.60 | 1686.96 |
| 9 |  | 249 |
| 8 | 427.09 | 3517 |
|  | 6838.89 |  |
| ¢ | 198. | ¢98 |




| F | 085 | CAl |
| :---: | :---: | :---: |
| 14 | 68.98 | 681.89 |
| 13 | 685.98 | , |
| 12 | 935.84 |  |
| 10 | 1442.80 | 17 |
| 9 | 2946.80 |  |
|  | 4444.90 | 3633.89 |
|  | 6359.08 | 4844 |
| 5 | 18971.88 | 799. |










Station $\mathrm{No}=287$







| F | 0 BS | calc |
| :---: | :---: | :---: |
| 14 | 176.88 |  |
| 13 | 648.88 | 57. |
| 11 | 469.60 | 682.16 |
| 10 | 977.88 | 972 |
| 9 | 1990.81 | 1528. |
| 8 | 3529.81 | 2436 |
|  | G80.80 | 3764 |
|  | 18515.96 | 5515 |
| 5 | 19424.80 | 7586.6 |



Station No. $=290$





Station Ho. $=291$













Station No. $=298$


 CALC
76.53
242.69
427.84
736.41
1137.51
1818.17
2682.34
3455.37









$$
\begin{aligned}
& \text { Station } \mathrm{Na}=3104
\end{aligned}
$$



.57
.48
.64
.63
.79
.79
.18
.68

Station No: $=385$

$\begin{array}{rr}5 & 089 \\ 14 & 173.89 \\ 13 & 41.89 \\ 14 & 54.80 \\ 18 & 62.86 \\ 9 & 128.68 \\ 3 & 436.68 \\ 7 & 705.80 \\ 6 & 1838.64 \\ 5 & 1556.60\end{array}$
CALC
294.56
493.25
767.5
1175.9
1837.47
2811.24
4162.4
5639.2
72511

Station Mo. $=345$


$C A L C$
194.6
256.
363.
558.
847.
1879.
$2459^{2}$
3165.
6
.65
.46
.92
.78
.49
.49
.55









$69 L C$
131.31
138.68
396.99
496.60
759.62
1834.37



$$
\begin{aligned}
& \text { Station Ho. }=312
\end{aligned}
$$










| F | 0 OS | catc |
| :---: | :---: | :---: |
| 14 | 54:80 |  |
| 13 | 59.88 |  |
| 11 | 89.80 | 116 |
| 16 | 123.00 | 46 |
| \% | 199:88 | 242.39 |
|  | 39 E . 80 | 342 |
| 7 | 723.88 | 46 |
| 5 | 1250.6 | 715. |









Station No. $=320$

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |


Cal 6
16.80
27.28
44.07
69.27
98.77
17.19
24.95








Station No: $=322$


Station Ho. $=323$










Station Mo. $=327$



15
13
11
13
24
75
74.
276
564
hosioncomber



| F | 08 S | cal |
| :---: | :---: | :---: |
| 14 | 27.88 | 25.67 |
| 13 | 3.60 | 3.77 |
| 12 | 5.80 | 3.47 |
| 16 | 248080 | 12 |
|  | 530.0日 | 189 |
| 9 | 968.60 | 325 |
| 7 | 1715.00 | 552. |
| 6 | 3897.68 | 98. |
| 5 | 6525.01 | 1389.34 |
















| F | 089 | CALC |
| :---: | :---: | :---: |
| 44 | 63.08 | 14.18 |
| 12 | 37.00 | 33.6 |
| 11 | 47.80 | 46.61 |
| 16 | 25.90 | 23 |
| 9 | 9. | 123 |
| 9 | 172.80 | 2 |
| 6 | 2966.0日 | 686.99 |
| $\stackrel{0}{5}$ | 12851.80 | 1147.2 |













$$
\begin{aligned}
& \text { Statich Mo. }=94 \\
& \begin{array}{c}
\text { Vhe Depth } \\
\text { Qha. } 69 \\
45
\end{array} \\
& \frac{1}{2} 5600.60
\end{aligned}
$$



Station $\mathrm{Ma}, 342$
解
z 15006.04




| $F$ | OSS | CHL |
| :---: | :---: | :---: |
| 14 | 41.40 |  |
| 2 |  |  |
| 1 | 177, ${ }^{\text {a }}$ | 158 |
| , | 2at.0 | 24.47 |
| 9 | 518.80 | 38 |
| 7 | 1536.68 | 759. |
|  | $18,3.60$ | 979.6 |
| 5 | 1893.68 | $117 \%$. |

Station 1 mo .2344





Station ite $=345$


|  | HES | c |
| :---: | :---: | :---: |
| 1 | 15.6 |  |
| 13 | 1.5.at | 18. |
| 12 | 267.40 |  |
| 11 | 21.6 | Sti. 5 |
| , | 28.80 |  |
|  | 88. 59 | 710.44 |
|  | 1235.08 | 9 |
|  | +198.60 | 18 |
|  |  |  |
| 5 | \%er.00 | 1944.89 |






|  | 959 | 1 |
| :---: | :---: | :---: |
|  | 947.088 | 16 |
|  | 349, ${ }^{2} 0$ |  |
|  | 436.80 |  |
|  | 4 405.010 |  |
|  | . |  |
|  | 1106 |  |
|  | 18874. 96 |  |
|  | 38135. | 1569 |





Station No. $=349$






Station No. $=351$
Cohm Depth





Station Ho. $=353$


CALC
13.41
41.24
74.96
129.59
375.95
492.30
672.52



Station $10 .=354$


CALC
7
13
86
48
87
45
39
56
7




| 1 | 083 | Chls, |
| :---: | :---: | :---: |
| 14 | 113.88 | 14.68 |
| 12 | 13.6 | 11. |
| 1 | 19.86 | 9 9, |
| 6 | 8.60 | 8.9 |
|  | 15.90 | 11.64 |
|  | 58.01 | 19.47 |
|  | 269.80 |  |
|  | 4561.68 | ${ }^{66}$ |

Station Mo. $=356$




CALC







| F | ORS | CALC |
| :---: | :---: | :---: |
| 14 |  | 224.5 |
|  | 5.618 | 36. |
|  | 415.6 | $37 \% .35$ |
| 0 | 401.60 |  |
| 9 | 685.60 |  |
|  | 1416.80 |  |
|  | 1 |  |
|  |  |  |
|  | 17425. | 就 |



| ¢ | ass | A |
| :---: | :---: | :---: |
|  | 137.08 | 17.9 |
| $13$ | 33.98 |  |
| 11 |  |  |
|  | 557 |  |
|  | tase.84 | 850.57 |
|  | 2 za , ${ }^{\text {a }}$ | 1311.95 |
|  | 4941.68 | 28 |
|  | 9700.60 |  |
| 5 | 11868.80 | 4039.41 |




| F | 0 BS | cal |
| :---: | :---: | :---: |
| 14 | 134.08 | 133. |
| 13 | 145,00 | 18. |
|  | ¢c7. 8 | 29 |
| 16 | 270.40 | 501: |
|  | 483.00 | 879.75 |
| , | 1189, 09 | 1514.65 |
|  | 3109.0 | 262 |
|  | 1667.08 |  |






CALC
798
959
1153
1653
285
3831
6766
.78
.59
.24
.19
1.37
.24
.98
.32




| 14181216 | 089 |
| :---: | :---: |
|  | 188.04 |
|  | 13.60 |
|  | . |
|  | 15.80 |
|  | 13.86 |
|  | 43.80 |
|  | 138.08 |
|  |  |
|  | 1445.00 |








|  | 085 | CALC |
| :---: | :---: | :---: |
| 14 | 22.68 | 20.98 |
| 13 | 195.09 | 301.68 |
| , | 193.69 | 197.6 |
|  | 185.80 | 167. 18 |
|  | 177.60 | 166.39 |
|  | 449.60 | 214. |
|  | 464.06 | 315. |
| 8 | 189.98 |  |
| 5 | 3118.04 | 709.5 |






Station No. $=371$








| F | 085 | CGL |
| :---: | :---: | :---: |
| 14 | 26.4 | 11. |
| 13 | 19.40 |  |
| 1 | \% 0 |  |
| 10 | 198. ${ }^{\text {a }}$ | 185.93 |
|  | 26.60 | 175. |
|  | 547.00 | 280 |
|  | 957.80 | 419. |
|  | 1383.80 | 58. |
|  | 1685.90 | 761.93 |


Station 10. $=374$


| F | 085 | CAL |
| :---: | :---: | :---: |
| 14 | 483.84 | 795.17 |
| 3 | 192.08 | 167.26 |
| 1 | 141.68 | 1401. |
| 1 | 1354.06 | 463.01 |
| F | 179.04 | 2 c 5.47 |
|  | 3519.60 | 2715.41 |
|  | E372.04 | 371 |
| ¢ | 140788 | 494 |
| § | 13433.66 | 536.4 |


Station Ho $=375$





|  | $085$ | $672$ |
| :---: | :---: | :---: |
| 13. | 738.83 |  |
| 12 | 732.88 |  |
|  | 83.64 |  |
| 18 | 834.80 |  |
|  | 43.00 | 1044 |
|  | 1924.06 |  |
|  | 3473.68 |  |
|  |  |  |
|  | 5571. | 2764 |

Station Mo. $=377$




[^0]:    

