





Rajah di muka .....

[illegible]



**No. Fail** .....

Rajah di muka .....

[illegible]

**No. Fail** .....

Rajah di muka .....

[illegible]

No. Fail .....

Rajah di muka .....

Stesen

Penyilang Kiri

BEARING / SUDUT

Penyilang Kanan

Purata

Dari  
Stn.

GARISAN  
Bearing Muktamat

Ke  
Stn.

Sudut Pugak  
(±)

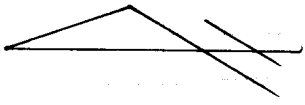
Jarak

Suhu

Jarak  
Antara  
Tupang

Jarak Muktamat

DAERAH HUKU LANGAT  
MUEM EMPANG  
TANDA JKACA  
SYIT 86-C



pk.B  
⑩

⑫

76.776  
87 09 53

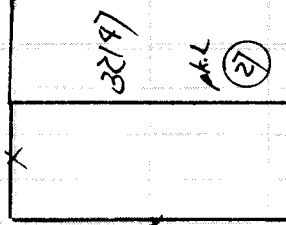
175 29 98 65.798

pk.B  
⑭

⑮

35.119  
21 53 01

179 05 35



32151

32152

32153

32154

32155

32150

32151

32152

32153

32154

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32156

32157

32158

32159

No. Fail .....

Rajah di muka .....

Stesen

BEARING / SUDUT

Penyilang Kiri

Penyilang Kanan

Purata

Dari

GARISAN

Ke

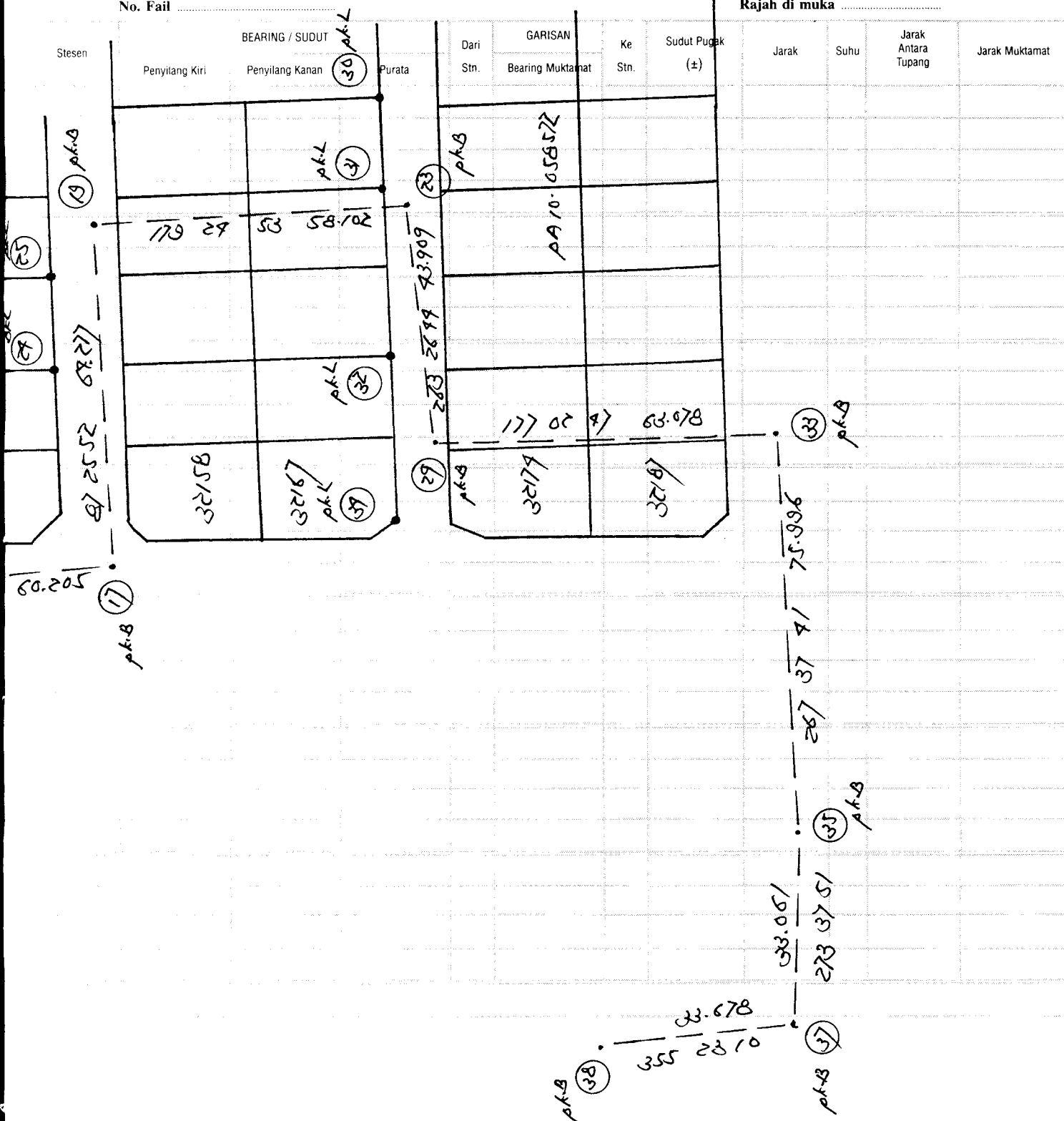
Sudut Pukak  
(±)

Jarak

Suhu

Jarak  
Antara  
Tupang

Jarak Mukamat



## CERAPAN MATAHARI BAGI AZIMUT

 Penilik Zoo Chee Yong Hari Rabu Tarikh 17/1/06 Bulan 07 Tahun 19

 Stesen 14 T.R. 17 B.K. Ms. Tiodolait (Jenis) I Bah. Aras Ufuk - a

Formula:

$$\text{Kosain AZIMUT} = \frac{\text{Kos } P - \text{Sain } \phi \text{ Sain } \alpha}{\text{Kos } \phi \text{ Kos } \alpha}$$

$$\text{Pembetulan Aras} = \frac{a}{8} (\pm R - \pm L) \text{ tenjen } \alpha$$

| Waktu                   |   | Ufuk               |      |     | Gelem-bong |    | Pugak                                                                |     |           | Tilikan ① | Bila waktu jam tangan tidak dalam lingkungan 3 menit daripada waktu piawai Hitung waktu umum. |   |  | W.U. = 12 <sup>J</sup> + W.T.K. - G. Bujur - E |                 |           |  |
|-------------------------|---|--------------------|------|-----|------------|----|----------------------------------------------------------------------|-----|-----------|-----------|-----------------------------------------------------------------------------------------------|---|--|------------------------------------------------|-----------------|-----------|--|
| J                       | m | P.Ki               | T.R. |     | Ki         | Ka |                                                                      |     |           |           |                                                                                               |   |  | 12 <sup>J</sup>                                | 00 <sup>m</sup> |           |  |
|                         |   |                    |      | 175 | 37         | 08 |                                                                      |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | ⊕                  |      | 113 | 73         | 56 |                                                                      | 75  | 72        | 07        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | ⊖                  |      | 113 | 11         | 09 |                                                                      | 75  | 36        | 08        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | P.Ka               | ⊖    | 293 | 12         | 17 |                                                                      | 287 | 31        | 00        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | ⊕                  |      | 293 | 76         | 56 |                                                                      | 287 | 37        | 97        |                                                                                               |   |  |                                                |                 |           |  |
| Purata ①                |   | T.R.               |      |     |            |    |                                                                      |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
| J                       | m |                    |      |     |            |    |                                                                      |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
| 802                     |   |                    |      |     |            |    |                                                                      | 17  | 27        | 38        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | Purata Ke matahari |      | 113 | 28         | 37 |                                                                      |     | 3         | 17        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | Purata Ke TR       |      |     |            |    |                                                                      | 17  | 27        | 27        |                                                                                               |   |  |                                                |                 |           |  |
| J                       | m | P.Ki               | T.R. |     |            |    |                                                                      |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | ⊕                  |      | 113 | 78         | 23 |                                                                      | 75  | 17        | 53        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | ⊖                  |      | 113 | 15         | 17 |                                                                      | 75  | 10        | 56        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | P.Ka               | ⊖    | 293 | 16         | 11 |                                                                      | 287 | 55        | 01        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | ⊕                  |      | 293 | 50         | 72 |                                                                      | 287 | 58        | 56        |                                                                                               |   |  |                                                |                 |           |  |
| Purata ②                |   | T.R.               |      |     |            |    |                                                                      |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
| J                       | m |                    |      |     |            |    |                                                                      |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
|                         |   |                    |      |     |            |    |                                                                      | 17  | 52        | 02        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | Purata Ke matahari |      | 113 | 32         | 38 |                                                                      |     | 3         | 09        |                                                                                               |   |  |                                                |                 |           |  |
|                         |   | Purata Ke TR       |      |     |            |    |                                                                      | 17  | 48        | 53        |                                                                                               |   |  |                                                |                 |           |  |
| Kordinat Origin U/S     |   | 5536               |      |     | m          |    | Kordinat Origin 1/B                                                  |     | 21757     |           |                                                                                               | m |  | Purata Bg. Gerid T.R.                          |                 | 177 35 35 |  |
| Stesen U/S              |   | 56577              |      |     | m          |    | Stesen T/B                                                           |     | 5031      |           |                                                                                               | m |  | Ditilik oleh                                   |                 | 17/1/07   |  |
| Jumlah/Sel.             |   | U/S 70747          |      |     | m          |    | Jumlah/Sel.                                                          |     | T/B 28790 |           |                                                                                               | m |  | Dihitung oleh                                  |                 |           |  |
| Jumlah/Sel. x 0.03256 ± |   | 3 70 79            |      |     |            |    | Sel. G. Bujur - $\frac{\text{Jum.}}{\text{Sel.}} \times 0.03246 \pm$ |     | 1931      |           |                                                                                               |   |  | Tarikh                                         |                 |           |  |
| G. Lintang Origin U     |   | - 76 7955          |      |     |            |    | Sel. G. Bujur x Sain G. Lintang -                                    |     |           |           |                                                                                               |   |  |                                                |                 |           |  |
| G. Lintang Stesen U     |   | 3 78 3757          |      |     |            |    | T (-) / B (+) Tirsan                                                 |     | - 71'     |           |                                                                                               |   |  |                                                |                 |           |  |

 P.Ki. — Penyilang Kiri  
 P.Ka. — Penyilang Kanan

 T.R. — Tanda Rujuk  
 Sel. — Selisih

 W.U. — Waktu Umum  
 W.T.K. — Waktu Tempatan Ketara



