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|-----------------------------------------------|------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------|
| Bergvesenet rapport nr<br><b>5979</b>         | Intern Journal nr<br>Kasse nr. 142 | Internt arkiv nr                                                      | Rapport lokalisering                                                          | Gradering                    |
| Kommer fra ..arkiv<br>Folldal Verk AS         | Ekstern rapport nr                 | Oversendt fra<br>Folldal Verk a.s.                                    | Fortrolig pga                                                                 | Fortrolig fra dato:          |
| Tittel<br>Avviksmåling i borhull Tverrfjellet |                                    |                                                                       |                                                                               |                              |
| Forfatter<br>Ludvigsen, Erik<br>Tokle, Viktor |                                    | Dato    År<br>11.04 1985                                              | Bedrift (oppdragsgiver og/eller oppdragstaker)<br>SINTEF avd. for Bergteknikk |                              |
| Kommune<br>Dovre                              | Fylke<br>Oppland                   | Bergdistrikt                                                          | 1: 50 000 kartblad<br>15193                                                   | 1: 250 000 kartblad<br>Røros |
| Fagområde<br>Boring                           | Dokument type                      | Forekomster (forekomst, gruvefelt, undersøkelsesfelt)<br>Tverrfjellet |                                                                               |                              |
| Råstofgruppe<br>Malm/metall                   | Råstofftype<br>Cu, Zn, S           |                                                                       |                                                                               |                              |

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

Rapporten gjelder avviksmåling av borhull 1013G, 1014G, 1015G, 1017G, 1018G, 1020G og 1021G

# Avviksmåling i borehull - Tverrfjellet

1985-04-11

SINTEF

Avdeling for bergteknikk

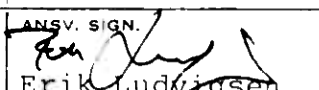


RAPPORT  
RAPPORT

7034 TRONDHEIM — NTH

TLF.: (07) 59 30 00

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| <p>RAPPORTENS TITTEL</p> <p>AVVIKSMÅLING I BORHULL<br/>TVERRFJELLET</p> | <p>DATO</p> <p>1985-04-11</p> <p>ANTALL SIDER OG BILAG</p> <p>30</p>                                                                |
| <p>SAKSBEARBEIDER/FORF.</p> <p>Erik Ludvigsen/Viktor Tokle</p>          | <p>ANSV. SIGN.</p> <p><br/>Erik Ludvigsen .</p> |
| <p>AVDELING</p> <p>Avdeling for bergteknikk</p>                         | <p>PROSJEKTNUMMER</p> <p>366001.04 og .05</p>                                                                                       |
| <p>OPPDRAAGSGIVER</p> <p>Folldal Verk A/S</p>                           | <p>OPPDRA. GIVERS REF.</p> <p>M. Motys</p>                                                                                          |

EKSTRAKT

Avviksmåling av borhull 1013G, 1014G, 1015G,  
1017G, 1018G, 1020G og 1021G.

3 STIKKORD PÅ NORSK

KEYWORDS IN ENGLISH

|               |                       |
|---------------|-----------------------|
| Avviksmåling  | Deviation measurement |
| Borhullsavvik | Drillhole deviation   |
| Diamantboring | Diamond drilling      |

## AVVIKSMÅLING FOR FOLLDAL VERK A/S

Avviksmålingene er utført med Eastman Multiple Shot Survey instrument type DT. Med dette instrumentet bestemmes hullets retning i hvert målepunkt ved hjelp av et kompass og fallet ved hjelp av et klinometer.

Det er i gjennomsnitt målt for hver 6. meter langs hullet. Avviket i bunnen av hullene er:

| Hull nr. | dyp       | $\Delta x$ | $\Delta y$ | $\Delta z$ | totalavvik |
|----------|-----------|------------|------------|------------|------------|
| 1013G    | 150       | 3,9        | 0,3        | 1,6        | 4,2        |
| 1014G    | 175       | 2,9        | 4,7        | 3,2        | 6,4        |
| 1015G    | 170       | 4,4        | 3,0        | 2,3        | 5,8        |
| 1016G    | 115       | 1,1        | 1,7        | 3,5        | 4,0        |
| 1017G    | 120       | 1,4        | 8,8        | 1,7        | 9,1        |
| 1018G    | 134       | 0,1        | 5,0        | 2,2        | 5,5        |
| 1019G    | ikke målt |            |            |            |            |
| 1020G    | 135       | 2,3        | 10,5       | 2,5        | 11,1       |
| 1021G    | 135       | 1,9        | 7,2        | 1,6        | 7,6        |

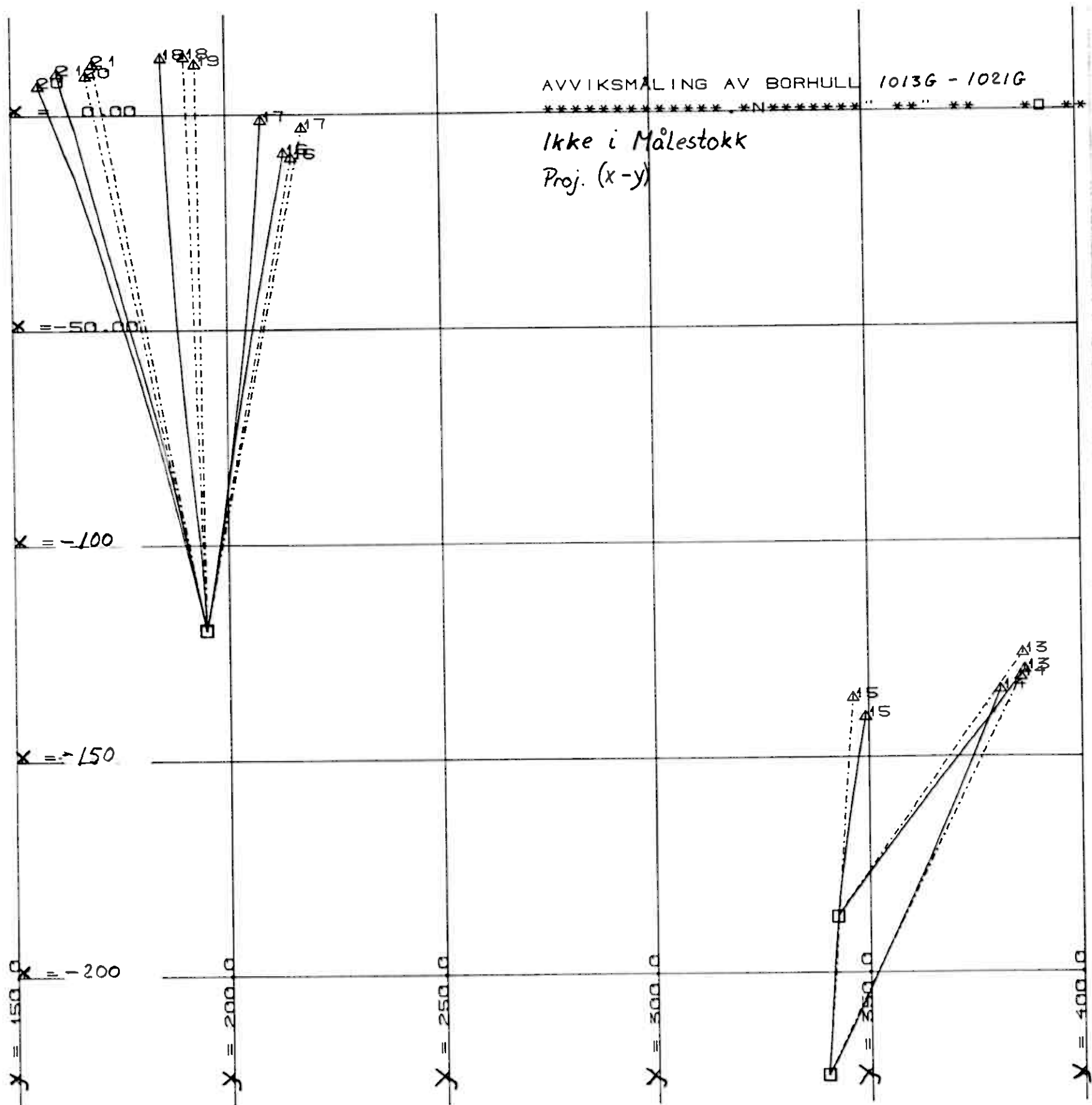
På grunnlag av en referanseretning er de målte retningene overført til gruenettet. For å komme over til dette er det innført en addisjonskonstant på 215,5.

Det er utført korreksjoner på grunn av magnetiske forstyrrelser, dette er vist i retningsplott. Hvert målepunkt merket med en \* er korrigert.

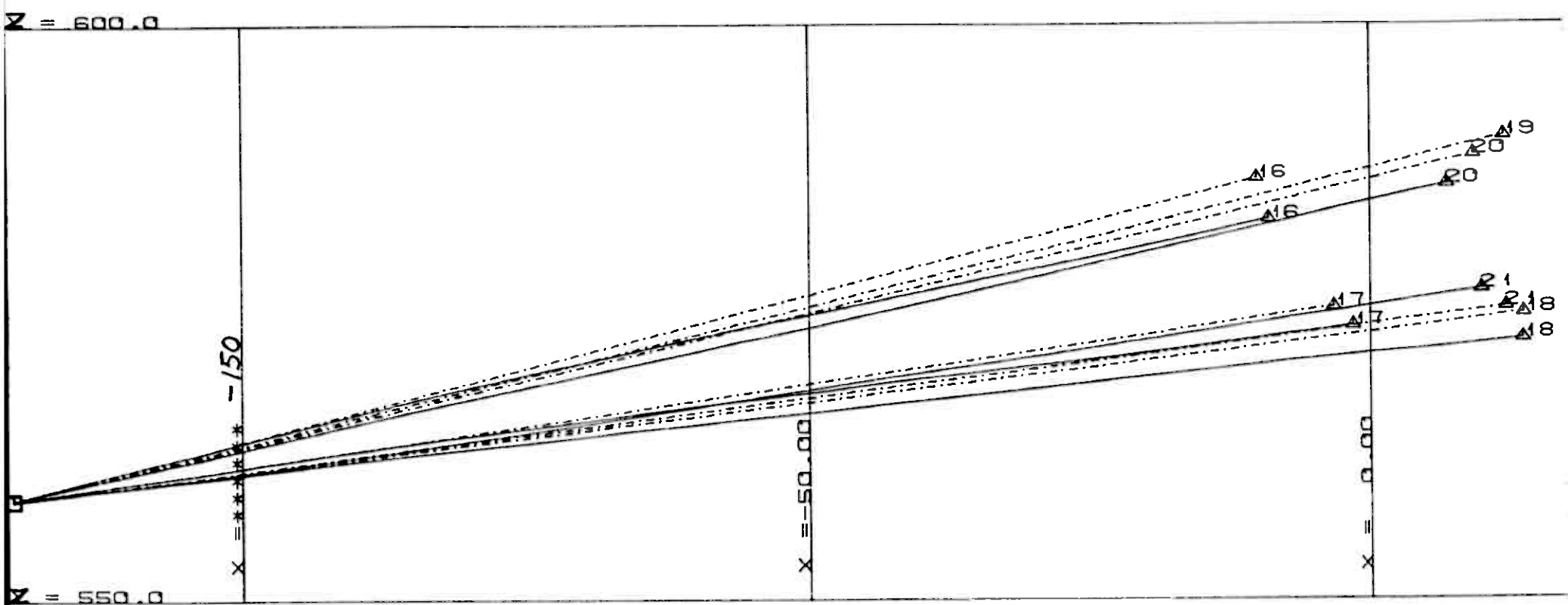
I tabells form er for hvert borhull avviksvinkelen i hvert målepunkt forskjellen mellom avviksvinkelen i to etterfølgende målepunkter, avviket i akseretningene og totalavviket ført

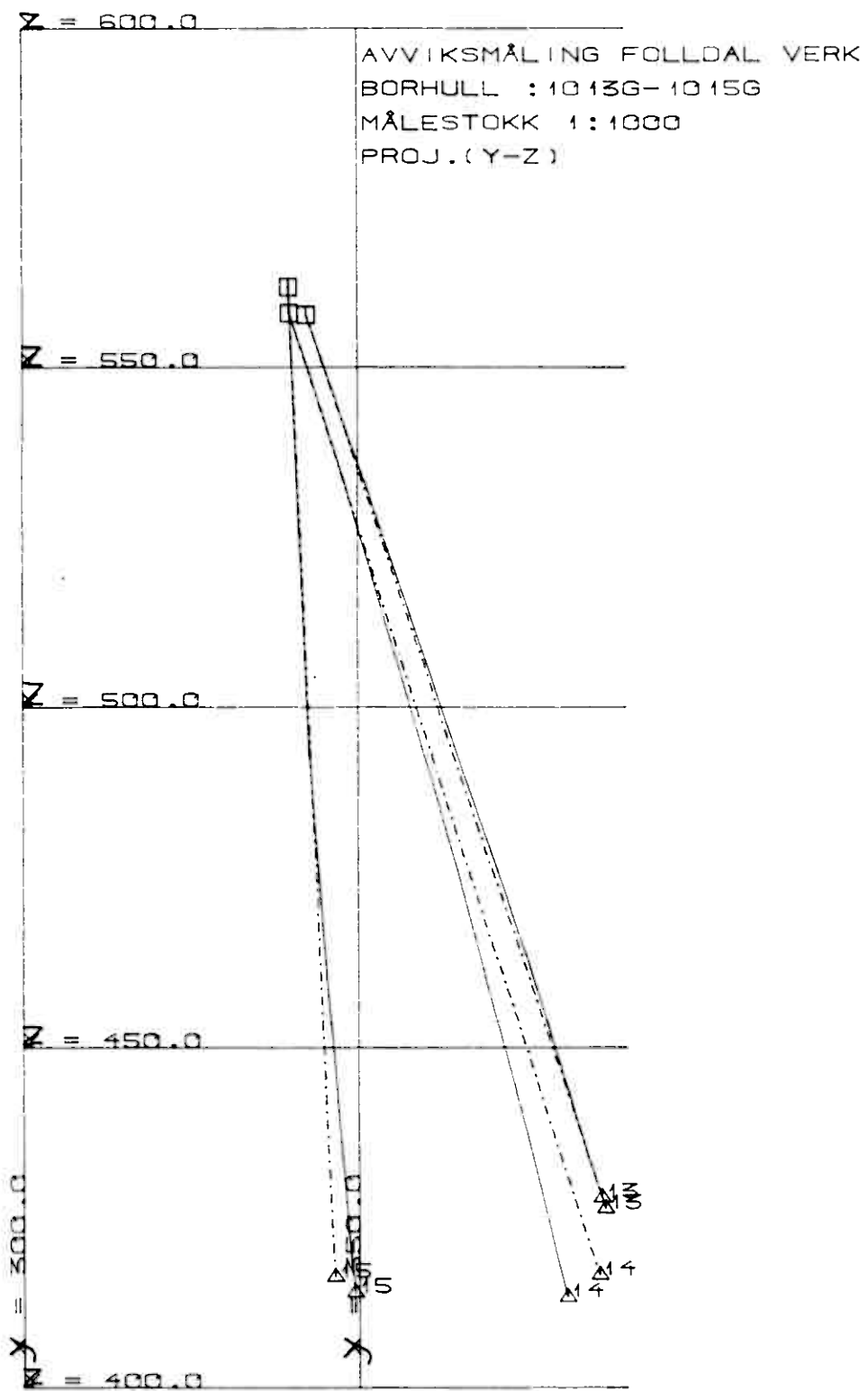
opp. Totalavviket er definert som lengden av vektoren fra hullbunnen, slik den er bestemt ved avviksmålingene til bunnen av hullet om det ikke hadde vært avvik.

I tabells form er for hvert hull måledataene og de beregnede koordinatene i gruenettet satt opp. Hullbanene er opptegnet i projeksjonene x-y, x-z og y-z. x-y projeksjonen i målestokk 1:250 er vedlagt rapporten.



AVVIKSMÅLING FOLLDAL VERK  
 BORHULL : 1016G-1021G  
MÅLESTOKK 1:500  
 PROJ. (X-Z) (X-Z)





Z = 600.0

AVVIKSMÅLING FOLLODAL VERK  
BORHULL 1013G-1015G.  
MÅLESTOKK 1:1000  
PROJ.(X-Z)

□

Z = 550.0

□

Z = 500.0

Z = 450.0

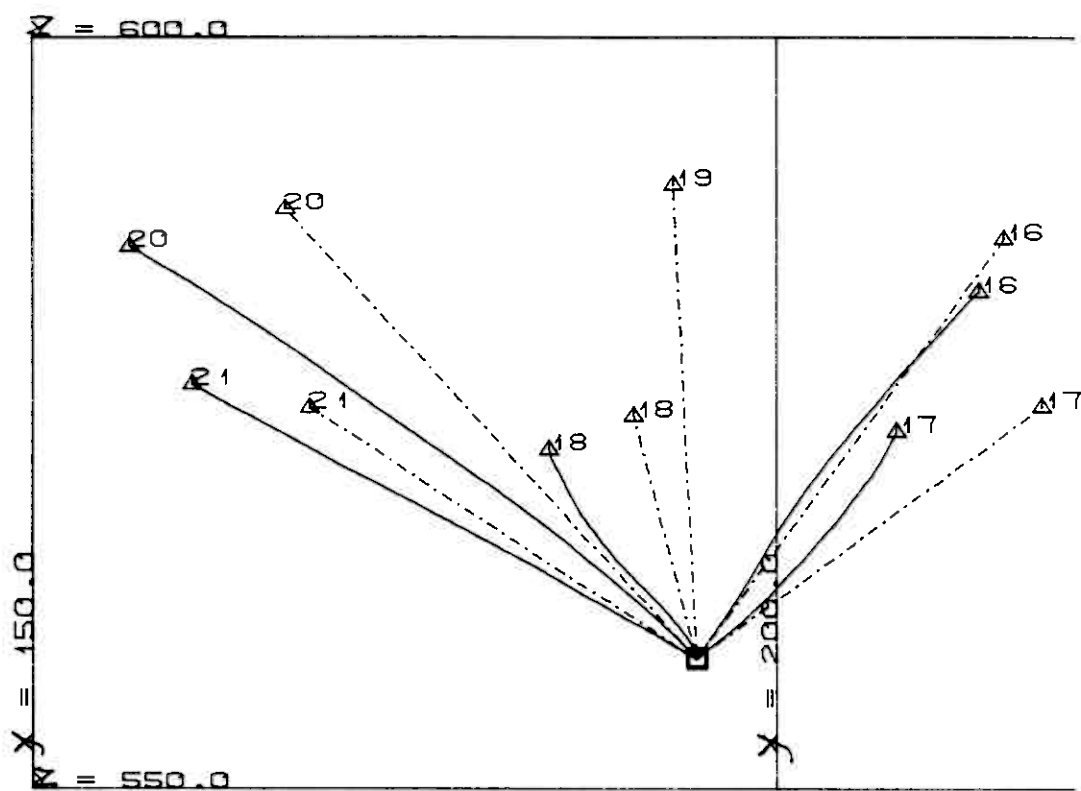
X = -200.0

X = -150.0

X = -100.0

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AVVIKSMÅLING FOLLDAL VERK  
BORHULL : 10 16G- 102 1G  
MÅLESTOKK 1:500  
PROJ. (Y-Z)



# DEV I A T I O N   C A L C U L A T I O N .

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---NAME.....: FULDAL VERK A/S  
---HOLE NO.....: 1013G

---DATE.....: 4.2.85

DEVIATION ANGLE (GRD)

DEVIATION.

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| DEPTH  | DEV. ANGLE | DIF.  | DX   | DY  | DZ   | TOT. DEV. | POINT |
|--------|------------|-------|------|-----|------|-----------|-------|
| 0.00   | *          | *     | .00  | .00 | .00  | .00       | 1     |
| 10.00  | .28        | *     | .01  | .02 | .00  | .02       | 2     |
| 20.00  | 1.11       | .83   | .09  | .12 | .00  | .15       | 3     |
| 30.00  | .28        | -.83  | .24  | .31 | .00  | .39       | 4     |
| 40.00  | 1.75       | 1.47  | .32  | .41 | .01  | .52       | 5     |
| 50.00  | 1.41       | -.34  | .42  | .43 | .04  | .60       | 6     |
| 60.00  | .42        | -1.17 | .63  | .49 | .12  | .81       | 7     |
| 70.00  | .58        | .36   | .87  | .57 | .29  | 1.06      | 8     |
| 80.00  | .11        | -.47  | 1.13 | .70 | .27  | 1.36      | 9     |
| 90.00  | 1.00       | .89   | 1.45 | .78 | .39  | 1.89      | 10    |
| 100.00 | .34        | -.66  | 1.82 | .79 | .55  | 2.06      | 11    |
| 110.00 | .28        | -.06  | 2.21 | .78 | .72  | 2.46      | 12    |
| 120.00 | 1.00       | .72   | 2.68 | .75 | .94  | 2.93      | 13    |
| 130.00 | 1.01       | .01   | 3.14 | .60 | 1.19 | 3.41      | 14    |
| 140.00 | .43        | -.08  | 3.54 | .46 | 1.41 | 3.84      | 15    |
| 150.00 | 1.06       | .13   | 3.87 | .33 | 1.59 | 4.19      | 16    |

# DEVIATION CALCULATION.

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---NAME.....: FOLLDAL VERK A/S  
---HOLE NO.....: 1013G  
---DATE.....: 4.2.85  
---CALCULATION METHOD: CORD ANGLE

FOLLDAL VERK A/S

1013G

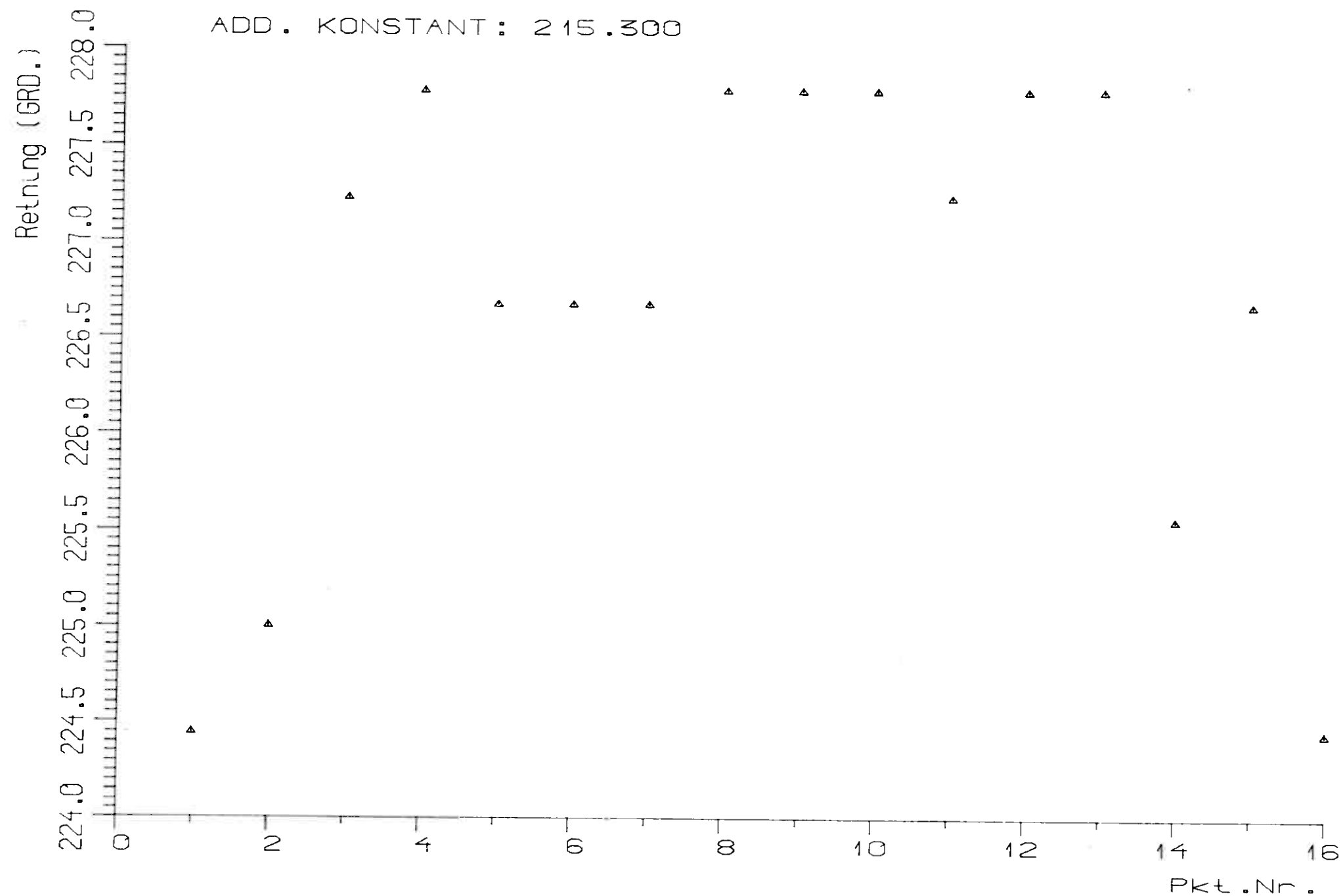
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# FOLLDAL VERK A/S

BORHULL NR : 10136

MÅLEDATO : 4.2.85

ADD. KONSTANT : 215.300



# DEVIATION CALCULATION. \*\*\*\*\*

---NAME.....: FOLLOAL VERK A/S  
---HOLE NO.....: 10146

---DATE.....: 4.2.85

DEVIATION ANGLE.(GRD)                      DEVIATION.  
\*\*\*\*\*

| DEPTH  | DEV.ANGLE | DIF.  | DX   | DY   | DZ   | TOT.DEV. | POINT |
|--------|-----------|-------|------|------|------|----------|-------|
| .00    | *         | *     | .00  | .00  | .00  | .00      | 1     |
| 10.00  | 1.97      | *     | .10  | .11  | .03  | .15      | 2     |
| 20.00  | 2.26      | .29   | .22  | .19  | .08  | .30      | 3     |
| 30.00  | .85       | -1.41 | .31  | .13  | .15  | .37      | 4     |
| 100.00 | 2.19      | 1.34  | 1.34 | 1.21 | 1.22 | 2.17     | 5     |
| 150.00 | 1.27      | -.92  | 2.31 | 3.35 | 2.46 | 4.76     | 6     |
| 175.00 | .61       | -.66  | 2.88 | 4.72 | 3.20 | 6.38     | 7     |

# DEVIATION CALCULATION. \*\*\*\*\*

---NAME.....: FOLLOAL VERK A/S  
---HOLE NO.....: 10146  
---DATE.....: 4.2.85  
---CALCULATION METHOD: CORD ANGLE

FOLLOAL VERK A/S                      10146

| MEASURED DATA |             |         | COMPUTED DATA |         |         |
|---------------|-------------|---------|---------------|---------|---------|
| MEASURED      |             |         |               |         |         |
| DEPTH         | INCLINATION | AZIMUTH | X-KOORD       | Y-KOORD | Z-KOORD |
| (M)           | 360 DEG     | 400 GRD | (M)           | (M)     | (M)     |
| 0.            | 36.0        | 29.51   | -223.73       | 339.79  | 557.99  |
| 10.           | 35.5        | 32.72   | -218.57       | 342.54  | 549.88  |
| 20.           | 35.5        | 28.83   | -213.43       | 345.23  | 541.74  |
| 30.           | 35.0        | 29.94   | -208.26       | 347.80  | 533.57  |
| 100.          | 34.0        | 26.61   | -172.48       | 364.85  | 475.88  |
| 150.          | 33.0        | 25.59   | -147.16       | 375.83  | 434.18  |
| 175.          | 33.0        | 24.39   | -134.58       | 381.03  | 413.22  |

# FOLLDAL VERK A/S

BORHULL NR : 10146

MÅLEDATO : 4.2.85

ADD. KONSTANT: 215.500

Retning (GRD.)

208 209 210 211 212 213 214 215 216 217 218



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Pkt.Nr.

DEVIATION CALCULATION.  
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---NAME.....: FOLLDAL VERK A/S  
---HOLE NO.....: 1015G

---DATE.....: 4.2.85

DEVIATION ANGLE (GRD)                      DEVIATION.  
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| DEPTH  | DEV. ANGLE | DLF. | DX   | DY   | DZ   | TOT. DEV. | POINT |
|--------|------------|------|------|------|------|-----------|-------|
| .00    | *          | *    | .00  | .00  | .00  | .00       | 1     |
| 10.00  | .21        | *    | .00  | .02  | .00  | .02       | 2     |
| 20.00  | .01        | -.20 | .00  | .05  | .00  | .05       | 3     |
| 30.00  | .02        | .01  | .01  | .08  | .00  | .08       | 4     |
| 40.00  | .11        | .09  | .02  | .12  | .00  | .12       | 5     |
| 50.00  | .11        | .00  | .03  | .15  | .01  | .15       | 6     |
| 60.00  | .36        | .25  | .01  | .16  | .00  | .16       | 7     |
| 70.00  | .01        | -.35 | .02  | .15  | .02  | .15       | 8     |
| 80.00  | 1.15       | 1.14 | .11  | .08  | .07  | .15       | 9     |
| 90.00  | 1.13       | -.02 | .28  | .14  | .16  | .35       | 10    |
| 100.00 | .93        | -.20 | .54  | .45  | .29  | .76       | 11    |
| 110.00 | .29        | -.64 | .87  | .76  | .46  | 1.24      | 12    |
| 120.00 | .58        | .20  | 1.23 | 1.08 | .64  | 1.76      | 13    |
| 130.00 | 1.44       | .86  | 1.70 | 1.42 | .89  | 2.39      | 14    |
| 140.00 | 1.14       | -.31 | 2.36 | 1.76 | 1.22 | 3.19      | 15    |
| 150.00 | .33        | -.81 | 3.07 | 2.11 | 1.59 | 4.05      | 16    |
| 160.00 | .79        | .45  | 3.75 | 2.53 | 1.94 | 4.92      | 17    |
| 170.00 | .75        | -.03 | 4.40 | 3.05 | 2.26 | 5.81      | 18    |

# DEVIATION CALCULATION.

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---NAME.....: FOLLDAL VERK A/S  
---HOLE NO.....: 10156  
---DATE.....: 4.2.85  
---CALCULATION METHOD: CURD ANGLE

FOLLDAL VERK A/S

10156

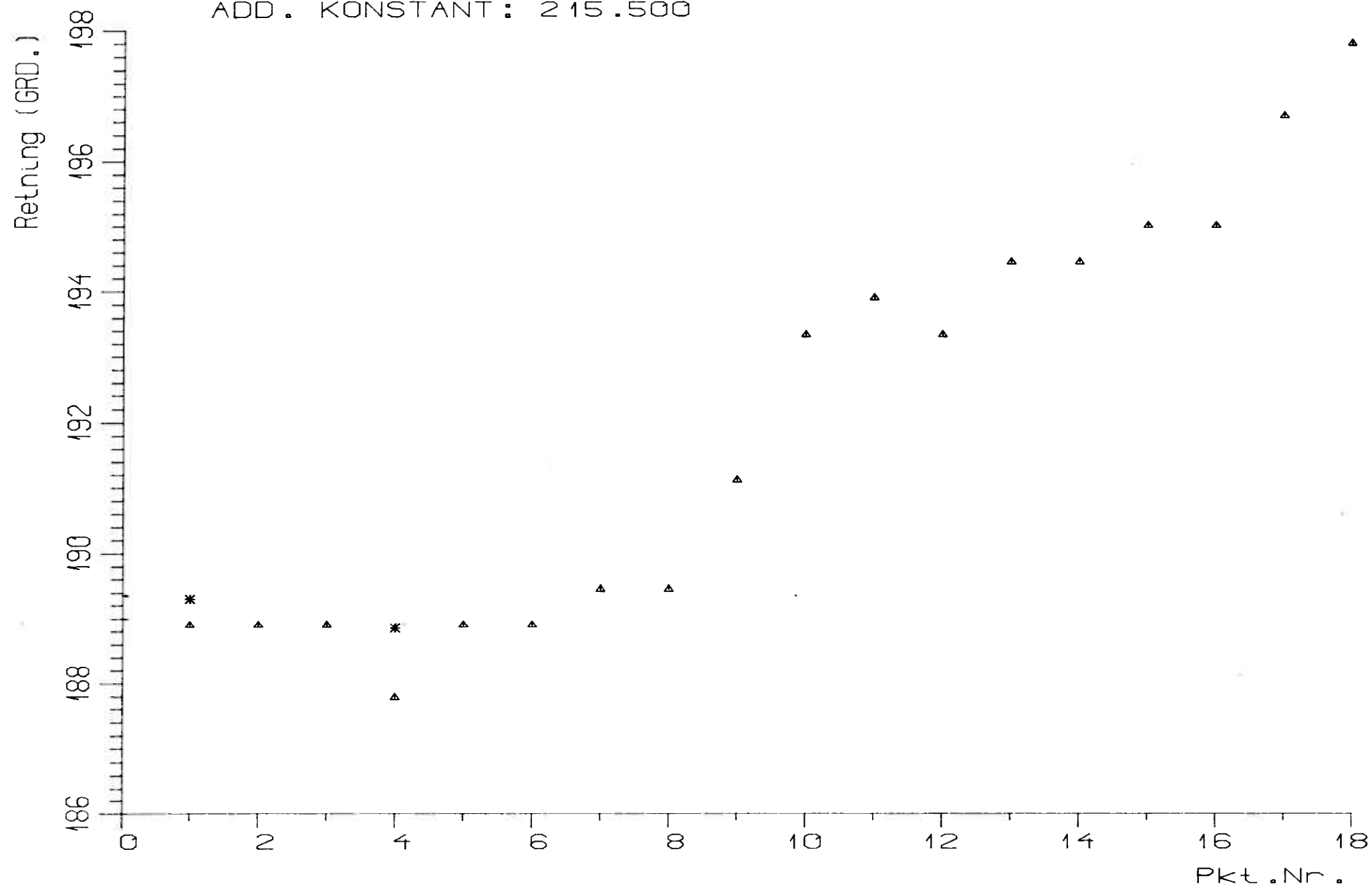
| MEASURED DATA |             |         |         | COMPUTED DATA |         |  |
|---------------|-------------|---------|---------|---------------|---------|--|
| MEASURED      | INCLINATION | AZIMUTH | X-COORD | Y-COORD       | Z-COORD |  |
| (M)           | 360 DEG     | 400 GRD | (M)     | (M)           | (M)     |  |
| 0.            | 31.0        | 4.80    | -223.75 | 339.72        | 561.86  |  |
| 10.           | 31.0        | 4.39    | -218.62 | 340.09        | 553.29  |  |
| 20.           | 31.0        | 4.39    | -213.48 | 340.44        | 544.71  |  |
| 30.           | 31.0        | 4.35    | -208.34 | 340.80        | 536.14  |  |
| 40.           | 31.1        | 4.39    | -203.19 | 341.15        | 527.58  |  |
| 50.           | 31.0        | 4.39    | -198.05 | 341.51        | 519.01  |  |
| 60.           | 30.8        | 4.94    | -192.93 | 341.88        | 510.43  |  |
| 70.           | 30.8        | 4.94    | -187.82 | 342.28        | 501.84  |  |
| 80.           | 30.1        | 6.61    | -182.78 | 342.74        | 493.22  |  |
| 90.           | 29.9        | 8.83    | -177.81 | 343.34        | 484.56  |  |
| 100.          | 29.1        | 9.39    | -172.94 | 344.04        | 475.85  |  |
| 110.          | 29.0        | 8.83    | -168.13 | 344.74        | 467.11  |  |
| 120.          | 28.8        | 9.94    | -163.35 | 345.45        | 458.36  |  |
| 130.          | 27.5        | 9.94    | -158.69 | 346.18        | 449.54  |  |
| 140.          | 26.5        | 10.50   | -154.21 | 346.91        | 440.63  |  |
| 150.          | 26.8        | 10.50   | -149.79 | 347.64        | 431.69  |  |
| 160.          | 27.0        | 12.17   | -145.33 | 348.44        | 422.77  |  |
| 170.          | 27.5        | 13.28   | -140.85 | 349.35        | 413.88  |  |

## FOLLDAL VERK A/S

BORHULL NR : 10 156

MÅLEDATO : 4 . 2 . 85

ADD . KONSTANT : 2 15 . 500



# DEV I A T I O N   C A L C U L A T I O N .

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---NAME.....: FOLLDAL VERK A/S

---HOLE NO.....: 1016G

---DATE.....: 4.2.85

DEVIATION ANGLE (GRD)

DEVIATION.

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| DEPTH  | DEV. ANGLE | DIF. | DX   | DY   | DZ   | TOT. DEV. | POINT |
|--------|------------|------|------|------|------|-----------|-------|
| 0.00   | *          | *    | .00  | .00  | .00  | .00       | 1     |
| 6.00   | .43        | *    | .00  | .02  | .00  | .02       | 2     |
| 12.00  | 1.11       | .68  | .02  | .11  | .00  | .11       | 3     |
| 18.00  | .54        | -.57 | .05  | .28  | .01  | .28       | 4     |
| 24.00  | .49        | -.06 | .09  | .49  | .04  | .50       | 5     |
| 30.00  | .13        | -.36 | .14  | .72  | .09  | .74       | 6     |
| 36.00  | .59        | .46  | .20  | .94  | .16  | .97       | 7     |
| 42.00  | .86        | .28  | .27  | 1.14 | .30  | 1.29      | 8     |
| 48.00  | .51        | -.35 | .34  | 1.30 | .49  | 1.43      | 9     |
| 54.00  | .06        | -.45 | .42  | 1.45 | .71  | 1.67      | 10    |
| 60.00  | .48        | .42  | .49  | 1.59 | .94  | 1.91      | 11    |
| 66.00  | .67        | .19  | .58  | 1.70 | 1.22 | 2.17      | 12    |
| 72.00  | .37        | -.30 | .66  | 1.77 | 1.53 | 2.43      | 13    |
| 78.00  | .11        | -.26 | .74  | 1.83 | 1.83 | 2.69      | 14    |
| 84.00  | .45        | .34  | .81  | 1.87 | 2.12 | 2.94      | 15    |
| 90.00  | .11        | -.34 | .88  | 1.88 | 2.40 | 3.18      | 16    |
| 96.00  | .81        | .40  | .94  | 1.88 | 2.69 | 3.41      | 17    |
| 102.00 | .11        | -.40 | 1.00 | 1.85 | 2.97 | 3.64      | 18    |
| 108.00 | .74        | .62  | 1.05 | 1.81 | 3.21 | 3.83      | 19    |
| 114.00 | .51        | -.23 | 1.09 | 1.74 | 3.45 | 4.01      | 20    |
| 115.00 | .76        | .25  | 1.10 | 1.72 | 3.49 | 4.04      | 21    |

# DEV I A T I O N   C A L C U L A T I O N .

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---NAME.....: FULLDAL VERK A/S

---HOLE NO.....: 10160

---DATE.....: 4.2.85

---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK A/S

10160

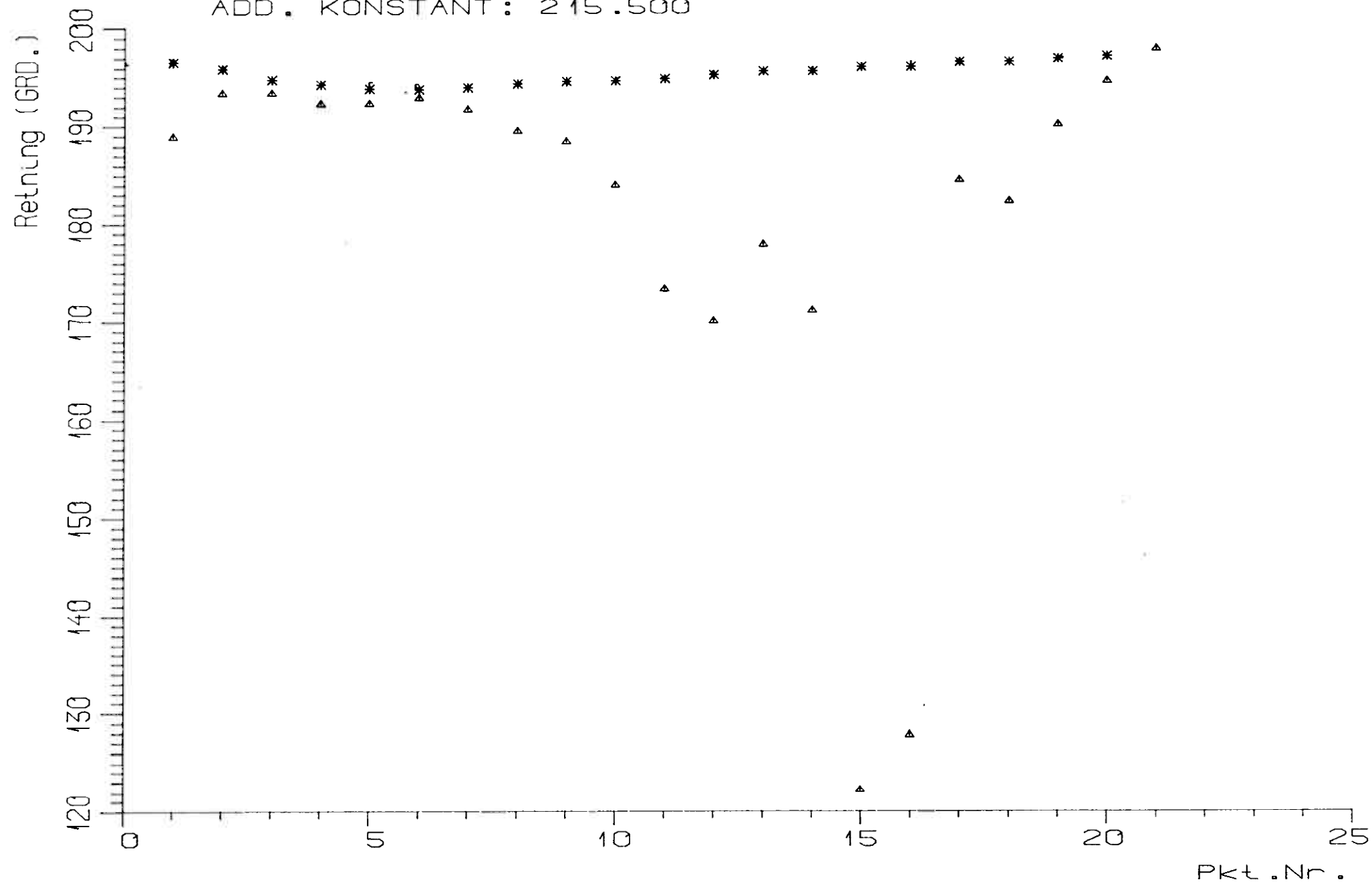
| *****         |             |         |         |               |         |  |
|---------------|-------------|---------|---------|---------------|---------|--|
| MEASURED DATA |             |         |         | COMPUTED DATA |         |  |
| MEASURED      | INCLINATION | AZIMUTH | X-KOORD | Y-KOORD       | Z-KOORD |  |
| (M)           | 360 DEG     | 400 GRD | (M)     | (M)           | (M)     |  |
| *****         |             |         |         |               |         |  |
| 0.            | 104.0       | 11.83   | -119.84 | 194.63        | 556.70  |  |
| 6.            | 104.0       | 11.37   | -114.11 | 195.68        | 560.12  |  |
| 12.           | 104.0       | 10.23   | -108.38 | 196.66        | 561.60  |  |
| 18.           | 103.8       | 9.72    | -102.62 | 197.57        | 563.03  |  |
| 24.           | 103.6       | 9.28    | -96.86  | 198.44        | 564.47  |  |
| *****         |             |         |         |               |         |  |
| 30.           | 103.5       | 9.21    | -91.09  | 199.28        | 565.87  |  |
| 36.           | 103.0       | 9.40    | -85.31  | 200.14        | 567.25  |  |
| 42.           | 102.3       | 9.79    | -79.52  | 201.01        | 568.56  |  |
| 48.           | 101.9       | 10.04   | -73.72  | 201.92        | 569.82  |  |
| 54.           | 101.9       | 10.10   | -67.93  | 202.85        | 571.14  |  |
| 60.           | 101.5       | 10.29   | -62.13  | 203.79        | 572.47  |  |
| 66.           | 101.0       | 10.67   | -56.32  | 204.75        | 573.74  |  |
| 72.           | 101.0       | 11.08   | -50.52  | 205.75        | 574.99  |  |
| 78.           | 101.1       | 11.06   | -44.72  | 206.77        | 576.24  |  |
| 84.           | 101.2       | 11.50   | -38.92  | 207.81        | 576.97  |  |
| 90.           | 101.3       | 11.50   | -33.13  | 208.86        | 578.17  |  |
| 96.           | 101.2       | 12.01   | -27.35  | 209.94        | 579.24  |  |
| 102.          | 101.3       | 12.01   | -21.57  | 211.05        | 580.43  |  |
| 108.          | 101.9       | 12.33   | -15.80  | 212.16        | 581.62  |  |
| 114.          | 101.5       | 12.58   | -10.04  | 213.31        | 582.81  |  |
| 118.          | 101.2       | 13.28   | -9.08   | 213.50        | 583.65  |  |

## FOLLDAL VERK A/S

BORHULL NR : 10 16G

MÅLEDATO : 4 . 2 . 85

ADD . KONSTANT : 2 15 . 500



# DEV I A T I O N   C A L C U L A T I O N .

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---NAME.....: FOLLOAL VERK A/S

---HOLE NO.....: 1017G

---DATE.....: 4.2.85

DEVIATION ANGLE.(GRD)

DEVIATION.

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| DEPTH  | DEV. ANGLE | DIF.  | DX   | DY   | DZ   | TOT. DEV. | POINT |
|--------|------------|-------|------|------|------|-----------|-------|
| .00    | *          | *     | .00  | .00  | .00  | .00       | 1     |
| 3.00   | .01        | *     | .00  | .00  | .00  | .00       | 2     |
| 6.00   | .01        | .00   | .00  | .00  | .00  | .00       | 3     |
| 12.00  | .01        | .00   | .00  | .00  | .00  | .00       | 4     |
| 18.00  | .01        | .00   | .00  | .00  | .00  | .00       | 5     |
| 24.00  | .01        | .00   | .00  | .00  | .00  | .00       | 6     |
| 30.00  | 1.67       | 1.65  | .02  | .08  | .01  | .08       | 7     |
| 36.00  | .55        | -1.12 | .05  | .25  | .03  | .26       | 8     |
| 42.00  | .67        | .12   | .09  | .46  | .08  | .47       | 9     |
| 48.00  | 1.24       | .57   | .15  | .72  | .18  | .75       | 10    |
| 54.00  | .75        | -.49  | .22  | 1.07 | .28  | 1.13      | 11    |
| 60.00  | .49        | -.26  | .31  | 1.47 | .39  | 1.56      | 12    |
| 66.00  | .76        | .27   | .39  | 1.94 | .51  | 2.04      | 13    |
| 72.00  | .60        | -.16  | .49  | 2.47 | .64  | 2.59      | 14    |
| 78.00  | .56        | -.04  | .59  | 3.05 | .77  | 3.20      | 15    |
| 84.00  | .75        | .19   | .70  | 3.69 | .89  | 3.86      | 16    |
| 90.00  | .89        | .14   | .82  | 4.39 | 1.05 | 4.59      | 17    |
| 96.00  | .72        | -.17  | .94  | 5.16 | 1.23 | 5.39      | 18    |
| 102.00 | 1.08       | .36   | 1.06 | 5.99 | 1.37 | 6.24      | 19    |
| 108.00 | .43        | -.65  | 1.18 | 6.88 | 1.47 | 7.14      | 20    |
| 114.00 | .79        | .35   | 1.31 | 7.83 | 1.58 | 8.09      | 21    |
| 120.00 | .47        | -.32  | 1.43 | 8.84 | 1.68 | 9.11      | 22    |

# DEVIATION CALCULATION.

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---NAME.....: FOLLDAL VERK A/S  
---HOLE NO.....: 10176  
---DATE.....: 4.2.85  
---CALCULATION METHOD: CURD ANGLE

FOLLDAL VERK A/S

10176

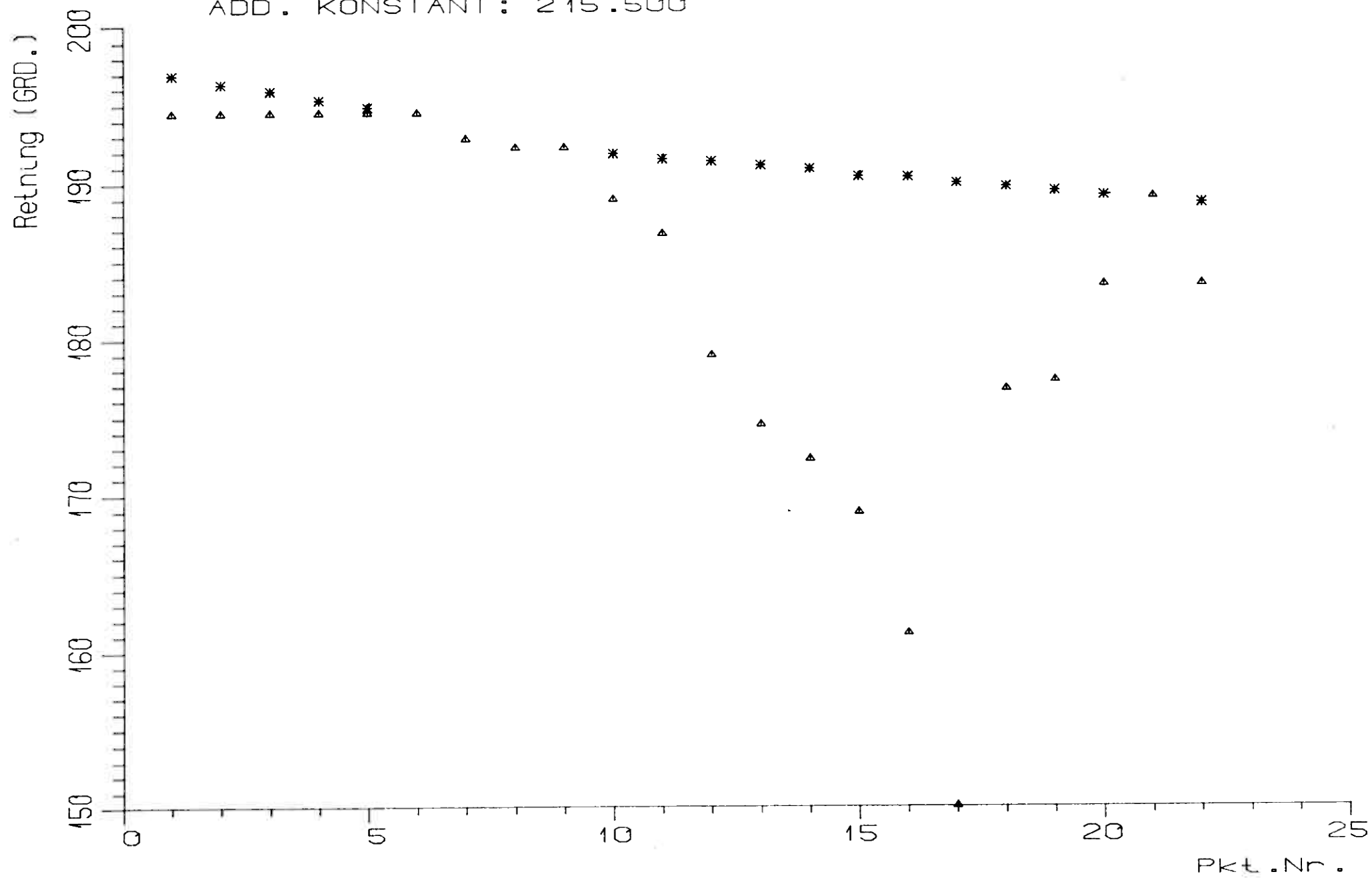
| *****         |             |         |               |         |         |  |
|---------------|-------------|---------|---------------|---------|---------|--|
| MEASURED DATA |             |         | COMPUTED DATA |         |         |  |
| MEASURED      | INCLINATION | AZIMUTH | X-KOORD       | Y-KOORD | Z-KOORD |  |
| DEPTH         |             |         |               |         |         |  |
| (M)           | 360 DEG     | 400 GRD | (M)           | (M)     | (M)     |  |
| *****         |             |         |               |         |         |  |
| 0.            | 98.0        | 12.54   | -119.83       | 194.63  | 558.67  |  |
| 3.            | 98.0        | 12.44   | -116.91       | 195.21  | 559.09  |  |
| 6.            | 98.0        | 12.44   | -114.00       | 195.78  | 559.51  |  |
| 12.           | 98.0        | 12.44   | -108.17       | 196.94  | 560.34  |  |
| 18.           | 98.0        | 12.44   | -102.34       | 198.09  | 561.18  |  |
| 24.           | 98.0        | 12.44   | -96.51        | 199.25  | 562.01  |  |
| 30.           | 97.8        | 10.78   | -90.67        | 200.32  | 562.83  |  |
| 36.           | 97.8        | 10.22   | -84.81        | 201.30  | 563.65  |  |
| 42.           | 97.2        | 10.22   | -78.93        | 202.25  | 564.43  |  |
| 48.           | 97.0        | 8.99    | -73.05        | 203.15  | 565.17  |  |
| 54.           | 97.0        | 8.24    | -67.15        | 203.95  | 565.91  |  |
| 60.           | 96.9        | 7.76    | -61.24        | 204.70  | 566.63  |  |
| 66.           | 96.8        | 7.01    | -55.32        | 205.39  | 567.35  |  |
| 72.           | 96.7        | 6.41    | -49.40        | 206.01  | 568.05  |  |
| 78.           | 96.8        | 5.86    | -43.46        | 206.59  | 568.76  |  |
| 84.           | 96.8        | 5.10    | -37.53        | 207.10  | 569.47  |  |
| 90.           | 96.2        | 4.51    | -31.58        | 207.55  | 570.15  |  |
| 96.           | 96.3        | 3.79    | -25.63        | 207.94  | 570.80  |  |
| 102.          | 97.0        | 3.04    | -19.68        | 208.26  | 571.49  |  |
| 108.          | 97.0        | 2.60    | -13.73        | 208.52  | 572.23  |  |
| 114.          | 97.0        | 1.81    | -7.78         | 208.73  | 572.96  |  |
| 120.          | 97.0        | 1.33    | -1.83         | 208.87  | 573.69  |  |

## FOLLDAL VERK A/S

BORHULL NR : 1017G

MÅLEDATO : 4.2.85

ADD. KONSTANT : 215.500



# DEV I A T I O N   C A L C U L A T I O N .

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---NAME.....: FULLDAI VERK A/S

---HOLE NO.....: 10186

---DATE.....: 4.2.85

DEVIATION ANGLE (GRD)

DEVIATION.

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| DEPTH  | DEV. ANGLE | DIF.  | OX  | OY   | OZ   | TOT. DEV. | POINT |
|--------|------------|-------|-----|------|------|-----------|-------|
| 0.00   | *          | *     | .00 | .00  | .00  | .00       | 1     |
| 6.00   | 1.14       | *     | .00 | .05  | .02  | .05       | 2     |
| 12.00  | 1.19       | .05   | .00 | .20  | .08  | .22       | 3     |
| 18.00  | 1.19       | .00   | .01 | .46  | .15  | .48       | 4     |
| 24.00  | 1.10       | -.09  | .03 | .81  | .19  | .84       | 5     |
| 30.00  | .01        | -1.09 | .05 | 1.22 | .23  | 1.25      | 6     |
| 36.00  | .56        | .54   | .07 | 1.63 | .30  | 1.66      | 7     |
| 42.00  | .11        | -.44  | .09 | 2.04 | .38  | 2.08      | 8     |
| 48.00  | .11        | .00   | .11 | 2.46 | .47  | 2.50      | 9     |
| 54.00  | .72        | .61   | .13 | 2.83 | .57  | 2.89      | 10    |
| 60.00  | .40        | -.32  | .14 | 3.16 | .67  | 3.23      | 11    |
| 66.00  | .69        | .29   | .14 | 3.46 | .82  | 3.56      | 12    |
| 72.00  | .93        | .24   | .14 | 3.75 | .95  | 3.87      | 13    |
| 78.00  | .50        | -.43  | .14 | 4.00 | 1.05 | 4.13      | 14    |
| 84.00  | .17        | -.33  | .15 | 4.21 | 1.14 | 4.37      | 15    |
| 90.00  | .33        | .17   | .15 | 4.41 | 1.23 | 4.58      | 16    |
| 96.00  | .40        | .97   | .14 | 4.56 | 1.32 | 4.75      | 17    |
| 102.00 | .16        | -.23  | .14 | 4.70 | 1.41 | 4.91      | 18    |
| 108.00 | .23        | .12   | .13 | 4.82 | 1.50 | 5.05      | 19    |
| 114.00 | .57        | .29   | .13 | 4.92 | 1.62 | 5.18      | 20    |
| 120.00 | .56        | -.01  | .11 | 5.01 | 1.80 | 5.33      | 21    |
| 123.00 | 1.11       | .55   | .10 | 5.04 | 1.89 | 5.38      | 22    |
| 126.00 | .02        | -1.09 | .09 | 5.04 | 1.99 | 5.42      | 23    |
| 129.00 | .02        | .00   | .08 | 5.03 | 2.09 | 5.43      | 24    |
| 132.00 | 1.11       | 1.10  | .07 | 5.03 | 2.16 | 5.48      | 25    |
| 134.00 | 1.24       | .13   | .07 | 5.02 | 2.21 | 5.49      | 26    |

# DEVIATION CALCULATION

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---NAME.....: FULDAL VERK A/S

---HOLE NO.....: 1018G

---DATE.....: 4.2.85

---CALCULATION METHOD: CORD ANGLE

FULDAL VERK A/S

1018G

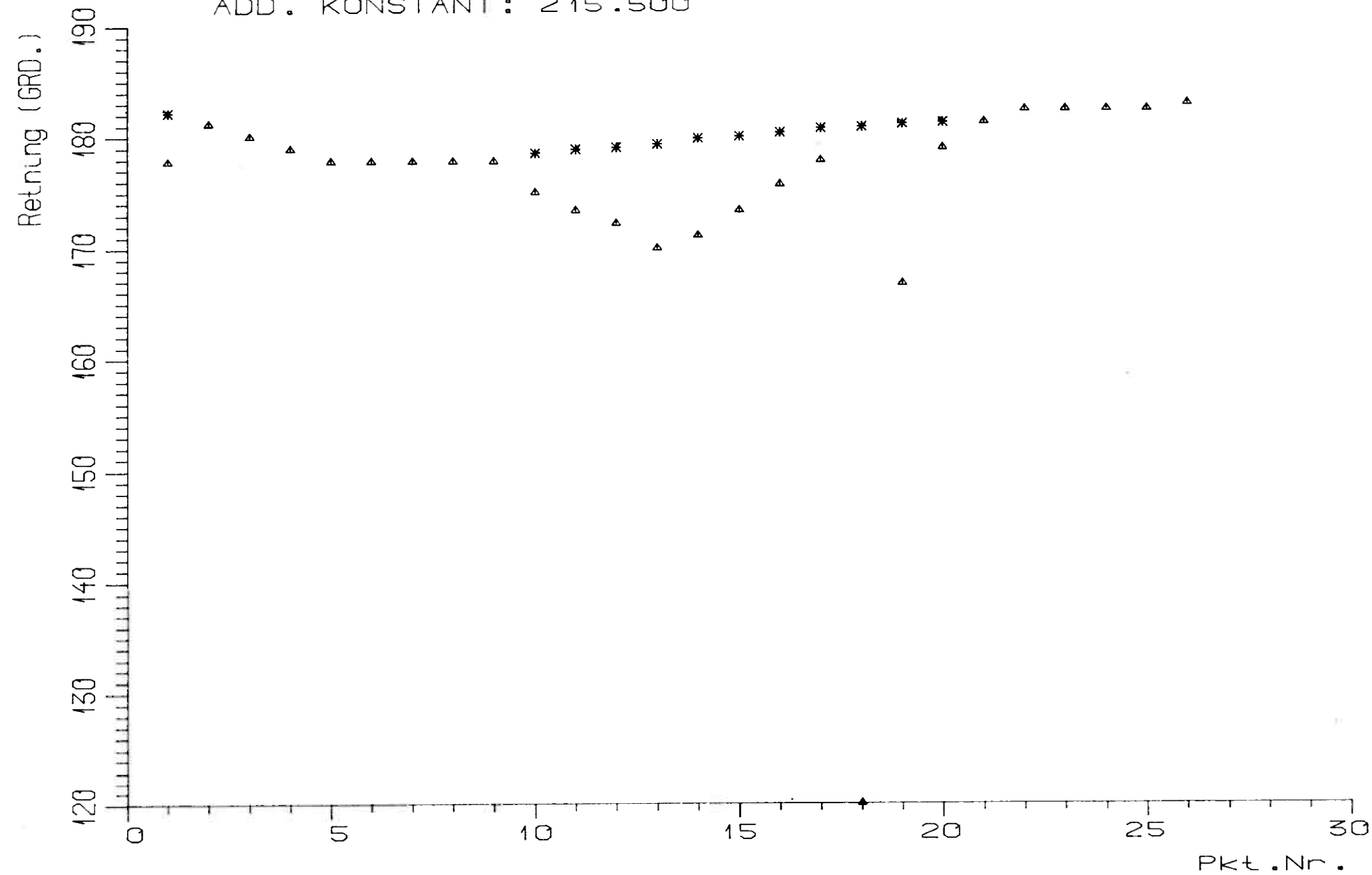
| MEASURED DATA |             |         |         | COMPUTED DATA |         |  |
|---------------|-------------|---------|---------|---------------|---------|--|
| MEASURED      | INCLINATION | AZIMUTH | X-KOORD | Y-KOORD       | Z-KOORD |  |
| DEPTH         |             |         |         |               |         |  |
| (M)           | 360 DEG     | 490 GRD | (M)     | (M)           | (M)     |  |
| 0.            | 96.9        | 397.87  | -119.81 | 194.59        | 558.64  |  |
| 5.            | 96.5        | 396.61  | -113.86 | 194.32        | 559.34  |  |
| 12.           | 96.1        | 395.50  | -107.90 | 193.95        | 560.09  |  |
| 18.           | 96.5        | 394.39  | -101.96 | 193.48        | 560.88  |  |
| 24.           | 96.5        | 393.28  | -96.02  | 192.99        | 561.34  |  |
| 30.           | 96.5        | 393.28  | -90.10  | 192.28        | 562.02  |  |
| 36.           | 96.0        | 393.28  | -84.17  | 191.65        | 562.67  |  |
| 42.           | 96.1        | 393.28  | -78.23  | 191.02        | 563.41  |  |
| 48.           | 96.0        | 393.28  | -72.30  | 190.39        | 563.74  |  |
| 54.           | 96.0        | 394.00  | -66.36  | 189.79        | 564.26  |  |
| 60.           | 95.8        | 394.33  | -60.42  | 189.25        | 565.13  |  |
| 66.           | 95.2        | 394.50  | -54.47  | 188.73        | 565.46  |  |
| 72.           | 96.0        | 394.78  | -48.52  | 188.22        | 566.13  |  |
| 78.           | 96.0        | 395.28  | -42.57  | 187.76        | 566.57  |  |
| 84.           | 96.0        | 395.44  | -36.62  | 187.32        | 567.59  |  |
| 90.           | 96.0        | 395.78  | -30.67  | 186.91        | 568.19  |  |
| 96.           | 96.1        | 396.17  | -24.71  | 186.53        | 568.65  |  |
| 102.          | 96.0        | 396.28  | -18.75  | 186.18        | 569.47  |  |
| 108.          | 96.0        | 396.56  | -12.80  | 185.85        | 570.11  |  |
| 114.          | 95.5        | 396.67  | -6.84   | 185.53        | 570.72  |  |
| 120.          | 95.0        | 396.61  | -0.87   | 185.21        | 571.28  |  |
| 123.          | 95.0        | 397.72  | 2.12    | 185.08        | 571.58  |  |
| 126.          | 95.0        | 397.72  | 5.10    | 184.97        | 571.74  |  |
| 129.          | 95.0        | 397.72  | 8.09    | 184.87        | 572.35  |  |
| 132.          | 96.0        | 397.72  | 11.07   | 184.75        | 572.34  |  |
| 134.          | 95.0        | 398.28  | 13.06   | 184.70        | 572.53  |  |

# FOLLDAL VERK A/S

BORHULL NR : 1018G

MÅLEDATO : 4.2.85

ADD. KONSTANT : 215.500



# DEV I A T I O N   C A L C U L A T I O N .

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---NAME.....: FOLDAL VERR A/S

---HOLE NO.....: 10206

---DATE.....: 11.3.85

DEVIATION ANGLE.(GRD)

DEVIATION.

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| DEPTH  | DEV. ANGLE | DIF.  | DX   | DY    | DZ   | TOT. DEV. | POINT |
|--------|------------|-------|------|-------|------|-----------|-------|
| .00    | *          | *     | .00  | .00   | .00  | .00       | 1     |
| 6.00   | 1.06       | *     | .01  | .05   | .02  | .05       | 2     |
| 12.00  | 1.22       | .16   | .03  | .19   | .07  | .21       | 3     |
| 18.00  | .02        | -1.20 | .05  | .39   | .15  | .42       | 4     |
| 24.00  | .02        | .00   | .08  | .58   | .24  | .63       | 5     |
| 30.00  | 1.09       | 1.07  | .12  | .83   | .32  | .90       | 6     |
| 36.00  | .22        | -.86  | .17  | 1.13  | .41  | 1.21      | 7     |
| 42.00  | 1.14       | .92   | .23  | 1.47  | .53  | 1.58      | 8     |
| 48.00  | .22        | -.92  | .30  | 1.87  | .67  | 2.01      | 9     |
| 54.00  | .11        | -.11  | .36  | 2.27  | .83  | 2.44      | 10    |
| 60.00  | .52        | .41   | .43  | 2.69  | 1.00 | 2.90      | 11    |
| 66.00  | .47        | -.05  | .51  | 3.15  | 1.19 | 3.41      | 12    |
| 72.00  | .27        | -.20  | .60  | 3.64  | 1.36 | 3.93      | 13    |
| 78.00  | .64        | .37   | .70  | 4.16  | 1.51 | 4.48      | 14    |
| 84.00  | .01        | -.63  | .82  | 4.71  | 1.64 | 5.05      | 15    |
| 90.00  | .56        | .54   | .94  | 5.25  | 1.75 | 5.61      | 16    |
| 96.00  | .50        | -.05  | 1.07 | 5.82  | 1.83 | 6.19      | 17    |
| 102.00 | .02        | -.49  | 1.35 | 6.00  | 2.00 | 7.40      | 18    |
| 120.00 | 2.17       | 2.16  | 1.70 | 8.37  | 2.16 | 8.81      | 19    |
| 123.00 | .56        | -1.62 | 1.80 | 8.76  | 2.21 | 9.22      | 20    |
| 126.00 | 1.09       | .53   | 1.91 | 9.18  | 2.28 | 9.65      | 21    |
| 129.00 | .33        | -.76  | 2.02 | 9.62  | 2.35 | 10.11     | 22    |
| 132.00 | .01        | -.33  | 2.14 | 10.07 | 2.44 | 10.57     | 23    |
| 133.00 | .11        | .10   | 2.17 | 10.21 | 2.46 | 10.73     | 24    |
| 135.00 | .01        | -.10  | 2.25 | 10.51 | 2.52 | 11.04     | 25    |

# DEV I A T I O N   C A L C U L A T I O N.

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---NAME.....: FOLDAL VERK A/S  
---HOLE NO.....: 10206  
---DATE.....: 11.3.85  
---CALCULATION METHOD: CORD ANGLE

FOLDAL VERK A/S

10206

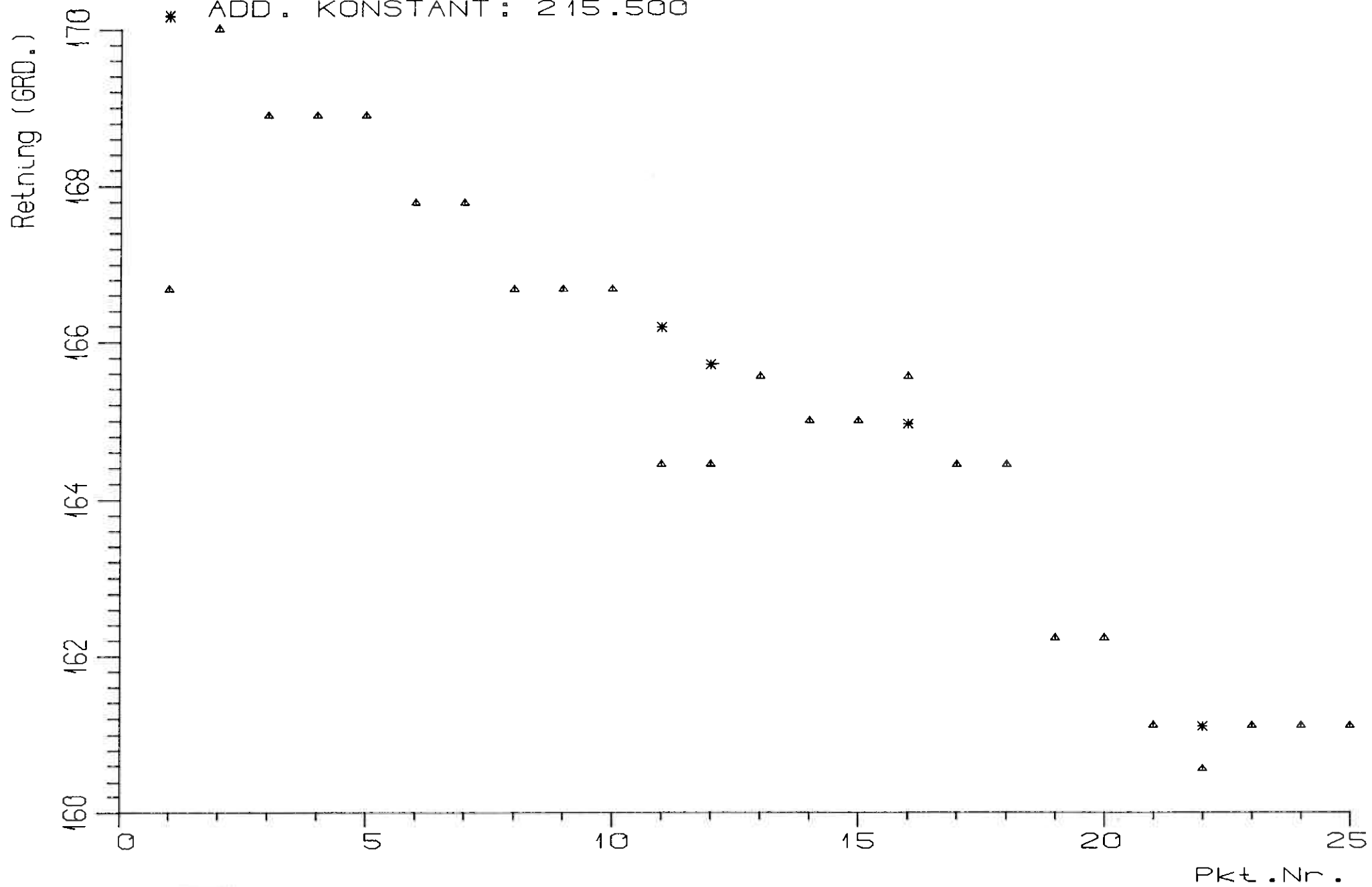
| MEASURED DATA |             |         |         | COMPUTED DATA |         |  |
|---------------|-------------|---------|---------|---------------|---------|--|
| DEPTH         | INCLINATION | AZIMUTH | X-KOORD | Y-KOORD       | Z-KOORD |  |
| (M)           | 360 DEG     | 400 GRD | (M)     | (M)           | (M)     |  |
| 0.            | 102.8       | 386.53  | -119.81 | 194.59        | 558.64  |  |
| 6.            | 102.5       | 385.50  | -114.09 | 193.32        | 559.95  |  |
| 12.           | 102.0       | 384.39  | -108.39 | 191.94        | 561.20  |  |
| 18.           | 102.0       | 384.39  | -102.70 | 190.52        | 562.47  |  |
| 24.           | 102.0       | 384.39  | -97.01  | 189.09        | 563.72  |  |
| 30.           | 102.0       | 383.28  | -91.33  | 187.62        | 564.96  |  |
| 36.           | 101.8       | 383.28  | -85.66  | 186.10        | 566.20  |  |
| 42.           | 101.5       | 382.17  | -79.99  | 184.52        | 567.43  |  |
| 48.           | 101.3       | 382.17  | -74.34  | 182.89        | 568.66  |  |
| 54.           | 101.2       | 382.17  | -68.69  | 181.27        | 569.77  |  |
| 60.           | 101.0       | 381.69  | -63.03  | 179.62        | 570.92  |  |
| 66.           | 101.0       | 381.21  | -57.39  | 177.93        | 572.12  |  |
| 72.           | 101.2       | 381.06  | -51.75  | 176.21        | 573.27  |  |
| 78.           | 101.5       | 380.50  | -46.15  | 174.46        | 574.41  |  |
| 84.           | 101.5       | 380.50  | -40.54  | 172.69        | 575.60  |  |
| 90.           | 102.0       | 380.46  | -34.94  | 170.91        | 576.81  |  |
| 96.           | 102.0       | 379.94  | -29.35  | 169.12        | 578.07  |  |
| 108.          | 102.0       | 379.94  | -18.19  | 165.48        | 580.55  |  |
| 120.          | 102.0       | 377.72  | -7.10   | 161.65        | 583.06  |  |
| 123.          | 101.5       | 377.72  | -4.34   | 160.64        | 583.67  |  |
| 126.          | 101.5       | 376.61  | -1.59   | 159.61        | 584.27  |  |
| 129.          | 101.2       | 376.61  | 1.16    | 158.55        | 584.96  |  |
| 132.          | 101.2       | 376.61  | 3.91    | 157.50        | 585.44  |  |
| 133.          | 101.1       | 376.61  | 4.82    | 157.14        | 585.64  |  |
| 135.          | 101.1       | 376.61  | 6.65    | 156.44        | 586.02  |  |

# FOLDAL VERK A/S

BORHULL NR : 10206

MÅLEDATO : 11.3.85

\* ADD. KONSTANT : 215.500



# DEVIAION CALCULATION.

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---NAME.....: FOLLOAL VERK A/S

---HOLE NO.....: 10216

---DATE.....: 11.3.85

DEVIATION ANGLE (GRD)

DEVIATION.

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| DEPTH  | DEV. ANGLE | DIF.  | DX   | DY   | DZ   | TOT. DEV. | POINT |
|--------|------------|-------|------|------|------|-----------|-------|
| 0.00   | *          | *     | .00  | .00  | .00  | .00       | 1     |
| 6.00   | .62        | *     | .01  | .03  | .01  | .03       | 2     |
| 12.00  | .56        | -.06  | .01  | .08  | .04  | .10       | 3     |
| 24.00  | 1.24       | .68   | .05  | .30  | .11  | .33       | 4     |
| 36.00  | 1.24       | .00   | .14  | .66  | .03  | .68       | 5     |
| 48.00  | 2.21       | .97   | .31  | 1.27 | .18  | 1.32      | 6     |
| 60.00  | .59        | -1.62 | .55  | 2.13 | .38  | 2.24      | 7     |
| 72.00  | .33        | -.26  | .79  | 3.02 | .57  | 3.17      | 8     |
| 84.00  | .33        | .00   | 1.03 | 3.90 | .76  | 4.10      | 9     |
| 96.00  | .50        | .16   | 1.27 | 4.76 | .94  | 5.02      | 10    |
| 108.00 | .77        | .27   | 1.47 | 5.51 | 1.13 | 5.82      | 11    |
| 120.00 | .28        | -.49  | 1.66 | 6.22 | 1.32 | 6.57      | 12    |
| 123.00 | .99        | .72   | 1.72 | 6.43 | 1.37 | 6.79      | 13    |
| 126.00 | 1.10       | .11   | 1.77 | 6.63 | 1.41 | 7.01      | 14    |
| 132.00 | .02        | -1.08 | 1.87 | 6.89 | 1.31 | 7.39      | 15    |
| 135.00 | .55        | .53   | 1.91 | 7.15 | 1.35 | 7.56      | 16    |

# DEVIATION CALCULATION.

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---NAME.....: FOLLDAL VERK A/S

---HOLE NO.....: 10216

---DATE.....: 11.3.85

---CALCULATION METHOD: CORD ANGLE

FOLLDAL VERK A/S

10216

| *****         |             |         |               |         |         |   |
|---------------|-------------|---------|---------------|---------|---------|---|
| MEASURED DATA |             |         | COMPUTED DATA |         |         |   |
| -----         |             |         |               |         |         |   |
| MEASURED      | I           | I       | I             | I       | I       | I |
| DEPTH         | INCLINATION | AZIMUTH | X-COORD       | Y-COORD | Z-COORD |   |
| -----         |             |         |               |         |         |   |
| (M)           | 360 DEG     | 400 GRD | (M)           | (M)     | (M)     |   |
| *****         |             |         |               |         |         |   |
| 0.            | 97.1        | 387.22  | -119.80       | 194.59  | 558.62  |   |
| 6.            | 97.0        | 386.61  | -113.97       | 193.37  | 558.25  |   |
| 12.           | 96.5        | 386.61  | -108.14       | 192.13  | 560.06  |   |
| 24.           | 97.0        | 385.50  | -96.51        | 189.54  | 561.47  |   |
| 36.           | 98.0        | 384.94  | -84.93        | 186.80  | 563.00  |   |
| 48.           | 98.2        | 382.72  | -73.43        | 183.82  | 564.73  |   |
| 60.           | 98.0        | 382.17  | -62.00        | 180.58  | 566.71  |   |
| 72.           | 98.0        | 382.50  | -50.57        | 177.33  | 568.69  |   |
| 84.           | 98.0        | 382.17  | -39.14        | 174.07  | 569.76  |   |
| 96.           | 98.0        | 382.67  | -27.71        | 170.83  | 571.43  |   |
| -----         |             |         |               |         |         |   |
| 108.          | 98.0        | 383.44  | -16.24        | 167.71  | 573.10  |   |
| 120.          | 98.0        | 383.17  | -4.77         | 164.63  | 574.77  |   |
| 123.          | 98.0        | 382.17  | -1.71         | 163.83  | 575.16  |   |
| 126.          | 98.0        | 383.28  | .96           | 163.03  | 575.66  |   |
| 132.          | 98.0        | 383.28  | 6.69          | 161.49  | 576.44  |   |
| 135.          | 98.0        | 383.83  | 9.57          | 160.73  | 576.76  |   |

## FOLLDAL VERK A/S

BORHULL NR : 102 1G

MÅLEDATO : 11.3.85

ADD. KONSTANT : 215.500

