Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
5982	Kasse nr. 142			
Kommer fra ..arkiv	**Ekstern rapport nr**	**Oversendt fra**	**Fortrolig pga**	**Fortrolig fra dato:**
Folldal Verk AS	STF36 F84013	Folldal Verk a.s.		

Tittel

Avviksmåling ved Folldal Verk A/S

Forfatter	Dato År	Bedrift (oppdragsgiver og/eller oppdragstaker)
Ludvigsen, Erik	28.11 1984	SINTEF avd. for Bergteknikk

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Dovre	Oppland		15193	Røros

Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Boring		Tverrfjellet
Råstofgruppe	**Råstofftype**	
Malm/metall	Cu, Zn, S	

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

Avviksmåling av diamantborvifter i tverrslag 6

1 duplikat

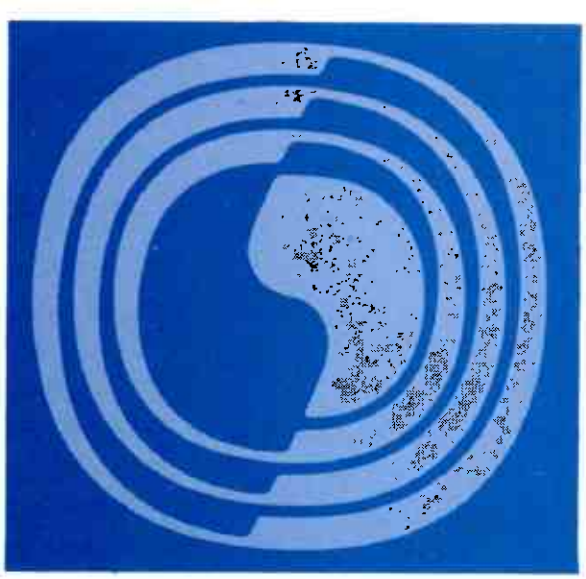
STF36 F84013

Avviksmåling ved Folldal Verk A/S

1984-11-28

SINTEF

Avdeling for bergteknikk



RAPPORT

RAPPORT

SINTEF RAPPORT

STIFTELSEN FOR INDUSTRIELL OG TEKNISK
FORSKNING VED NORGES TEKNISKE HØGSKOLE

7034 TRONDHEIM — NTH

TLF.: (07) 59 30 00
TELEX: 55620 SINTF N

RAPPORTNUMMER
STF36 F84013

TILGJENGELIGHET
Fortrolig

RAPPORTENS TITTEL	DATO
AVVIKSMÅLING VED FOLLDAL VERK A/S	1984-11-28
	ANTALL SIDER OG BILAG: 74
SAKSBEARBEIDER/FORF.: Erik Ludvigsen/Viktor Tokle	ANSV. SIGN.: Erik Ludvigsen
AVDELING: Bergteknikk avd. 36	PROSJEKTNUMMER: 366001.01, .02 og .03

OPPDRAGSGIVER	OPPDR. GIVERS REF.
Folldal Verk A/s	Milosh Motys

EKSTRAKT

Avviksmåling av diamantborvifter i tverrslag 6.

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 5. meter langs hullet.

Avviket i bunnen av hullene er:

Hull nr.	dyp	Δx	Δy	Δz	total-avvik
1036 G	67	1.2	3.4	0.4	3.7
1037 G	71	0.8	1.6	0.6	1.8
1038 G	67	0.3	0.8	0.1	0.9
1039 G	47	0.2	0.5	0.1	0.6
1040 G	42.0	0.4	1.5	0.2	1.5
1041 G	40.0	0.1	0.1	0.0	0.1
1042 G	37.0	0.4	0.1	0.1	0.5
1043 G	ikke målt				
1044 G	- " -				
1045 G	60	0.3	0.2	0.4	0.5
1046 G	81	1.0	1.9	0.7	2.2
1047 G	79.0	0.4	1.0	0.5	1.2
1048 G	ikke målt				
1049 G	35.0	0.1	0.3	0.3	0.4
1050 G	25.0	0.4	0.7	0	0.8
1051 G	25.0	0.1	0.1	0.1	0.1
1052 G	35.0	0.6	1.1	0.4	1.4
1053 G	35.0	0.1	1.9	0.1	2.2
1054 G	75.0	0.2	0.7	0.4	0.9
1055 G	55.0	0.8	2.3	0.2	2.5
1056 G	52.0	0.1	1.5	1.9	2.4
1057 G	60.0	0.4	2.1	1.0	2.4
1058 G	60.0	0.1	4.2	0.2	4.3
1059 G	48.0	0.1	1.0	0.5	1.2
1060 G	40.0	0.2	0.1	0.2	0.3

Hull nr.	dyp	Δx	Δy	Δz	total-avvik
1061 G	30.0	0.0	0.8	0.2	0.8
1062 G					
1063 G					
1064 G	40.0	0.2	1.2	0.2	1.2
1065 G					
1066 G	40.0	0.1	1.1	0.3	1.2
1067 G	62.0	0.2	2.4	1.0	2.6
1068 G	55.0	0.0	0.9	0.2	0.9
1069 G	47.0	0.3	0.8	0.1	0.9
1070 G	35.0	0.0	0.1	0.0	0.1
1071 G	15.0	0.1	0.0	0.0	0.1
1072 G	40.0	0.1	0.4	0.0	0.4
1073 G					
1074 G					
1075 G	25.0	0.2	1.1	0.0	1.1

På grunnlag av en referanseretning er de målte retningene overført til gruvenettet. 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.

Hullene som er målt er korte. Store deler av hullene går i magnetiske forstyrrede områder. Borhullsavviket i horisontalplanet er derfor usikkert.

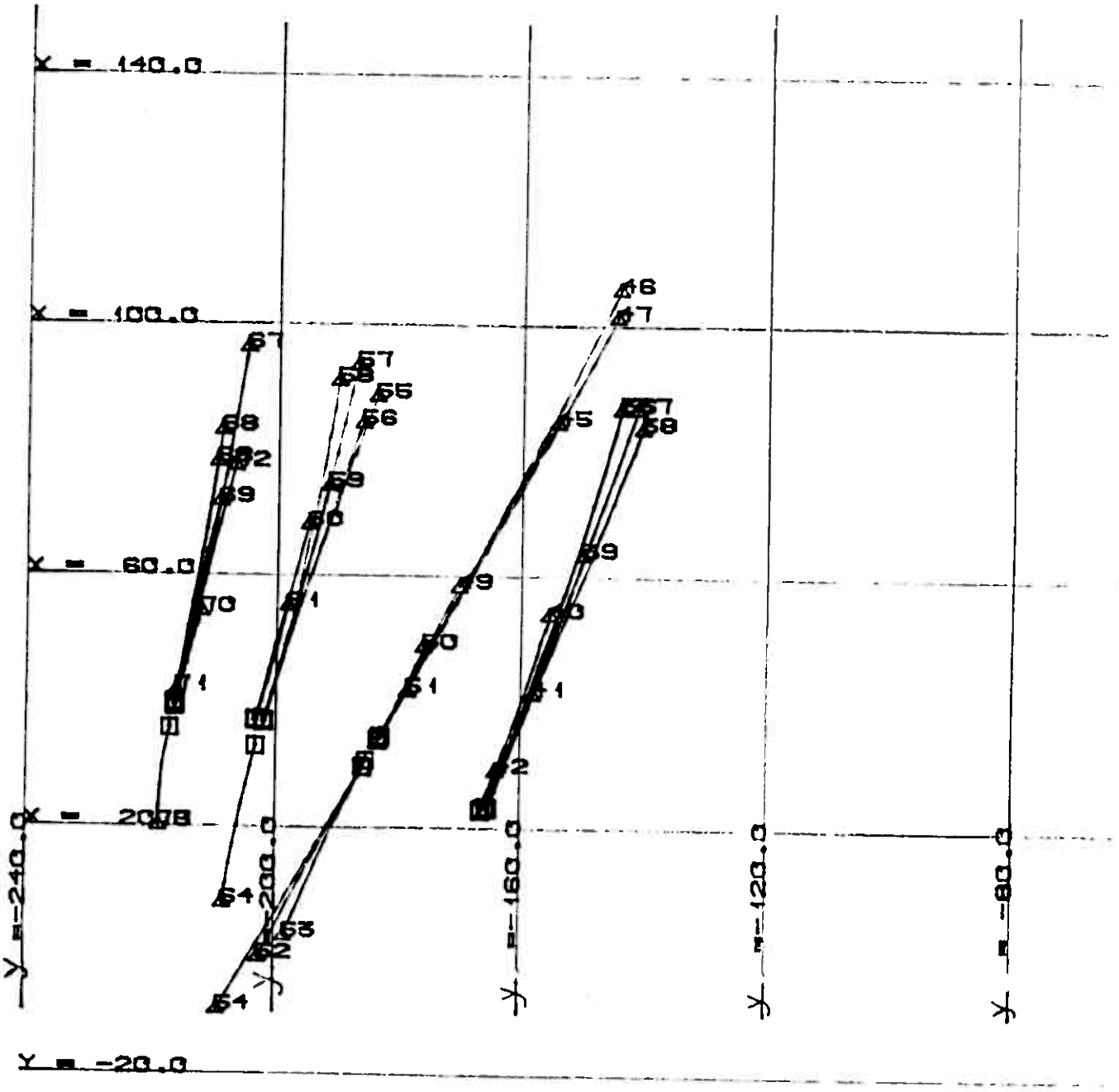
I tabells form er for hvert borhull avviksvinkelen i hvert målepunkt forskjellen mellom avviksvinkelen i to etterfølgende målepunkter, avviket i akseretningene og totalavviket ført opp. Totalavviket er definert som lengden

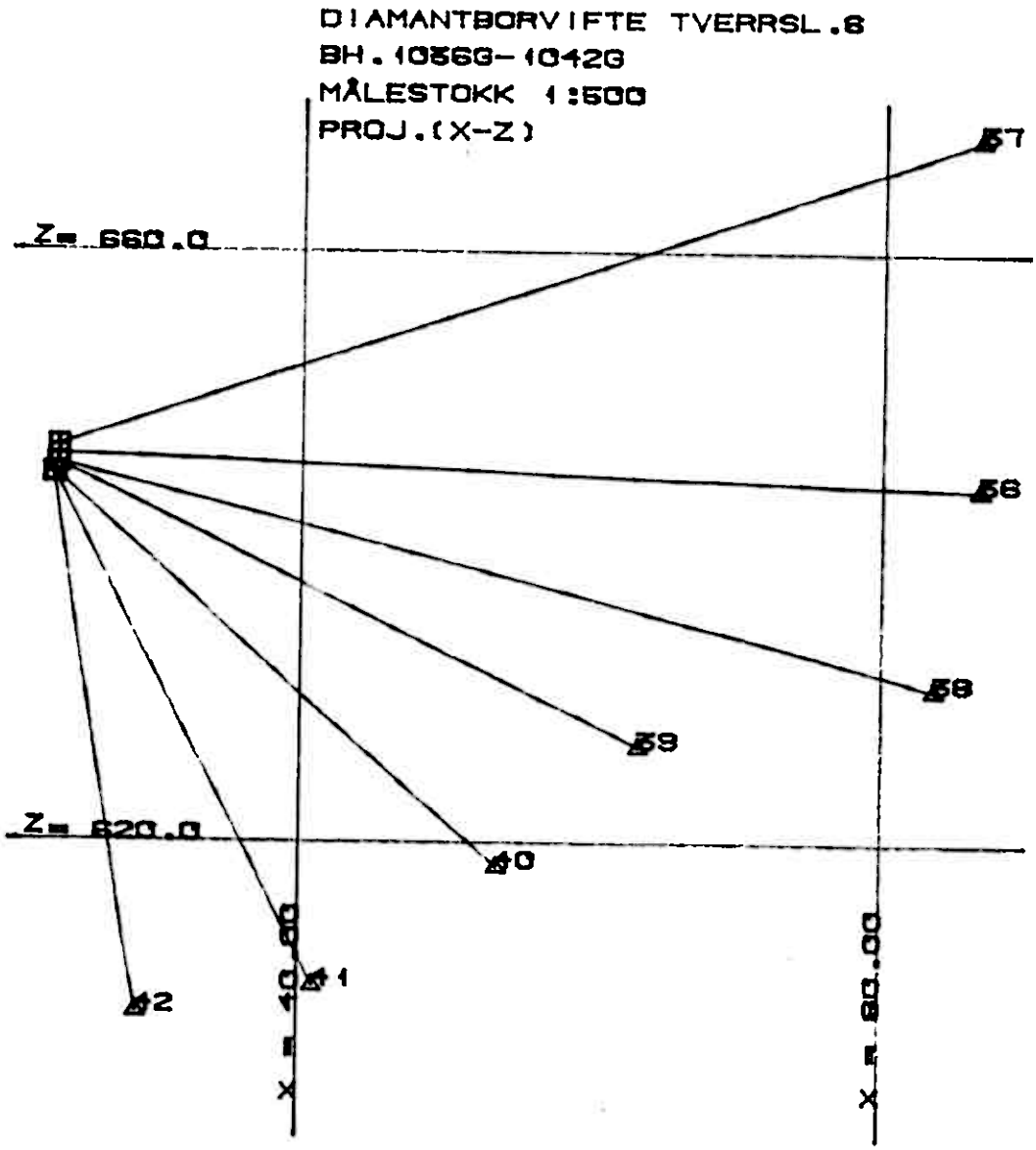
av vektoren fra hullbunnen, slik den er bestemt ved avviksmålingene, til bunnen av hullet om det ikke hadde vært avvik.

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

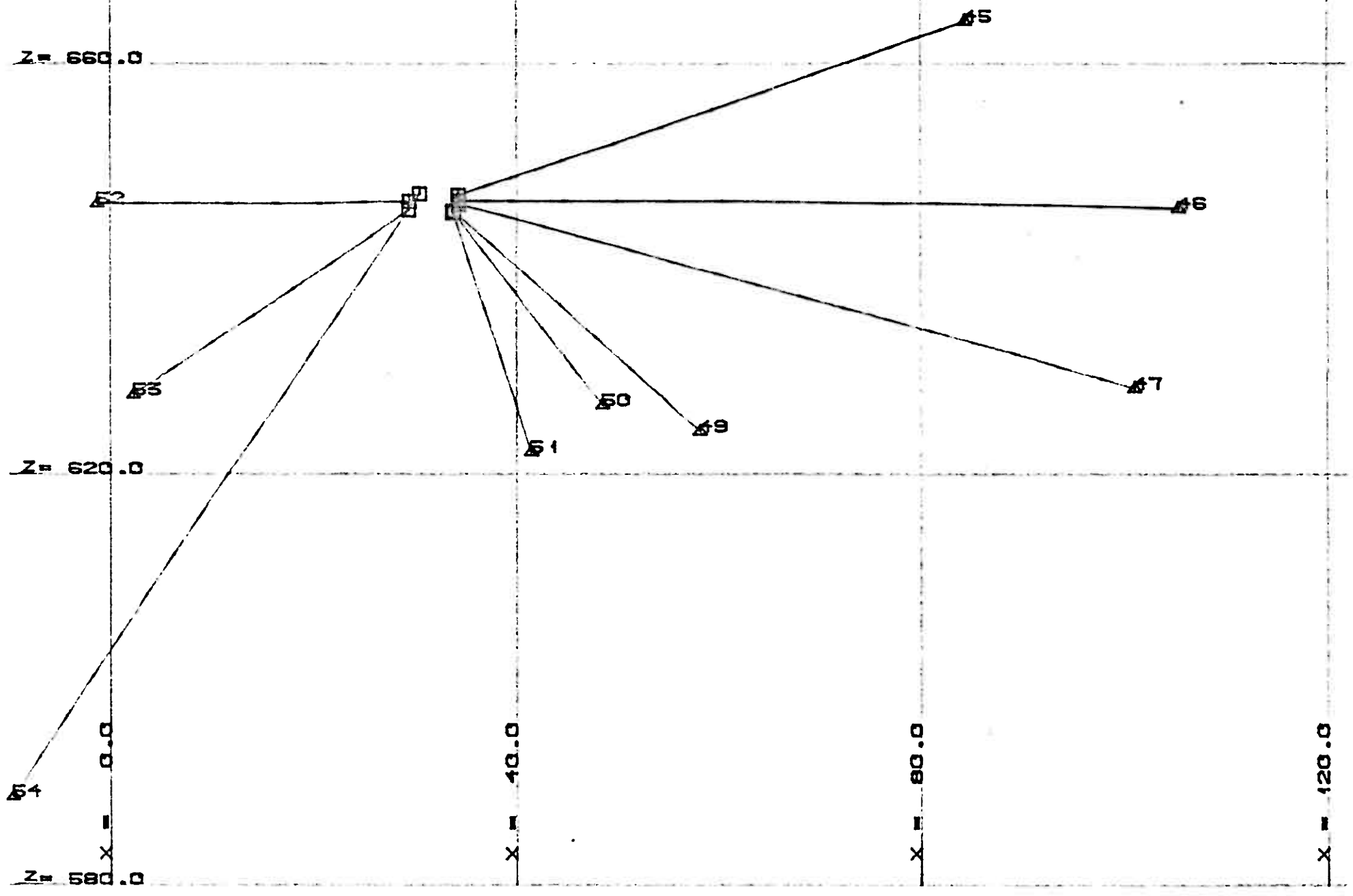
AVVIKSMÅLING AV BORHULL

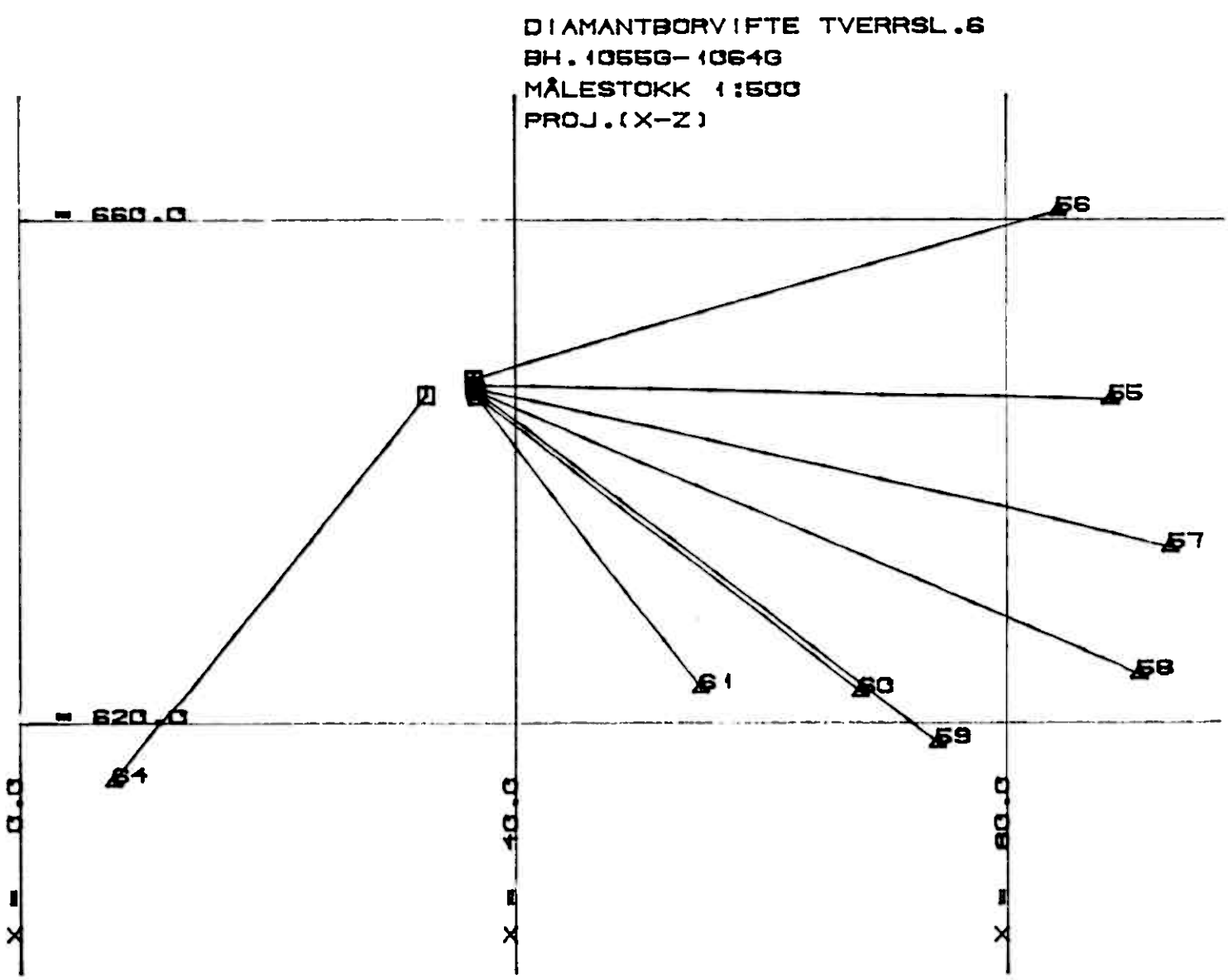
DIAMANTBORVIFTER I TVERRSL 6.
MÅLESTOKK 1:1000




DIAMANTBORVIFTE TVERRSL.6
BH. 10566-10426
MÅLESTOKK 1:500
PROJ.(X-Z)
Z= 660.0
Z= 620.0
X= 40.00
X= 80.00
#7
#6
#8
#9
#0
#1
#2

DIAMANTBORVIFTE TVERRSL.6
BH. 1045G-1054G
MÅLESTOKK 1:500
PROJ.(X-Z)

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= 620.0
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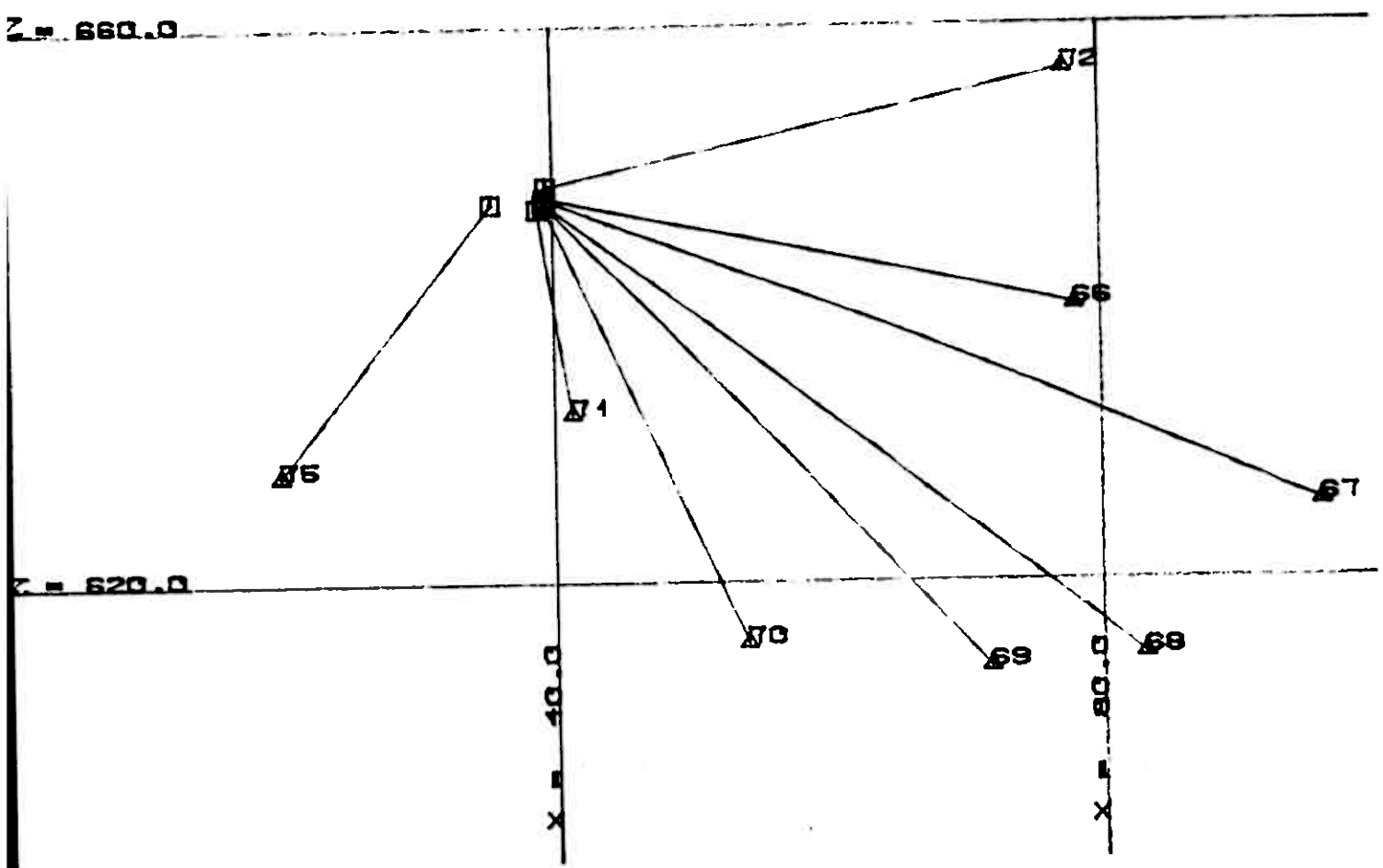
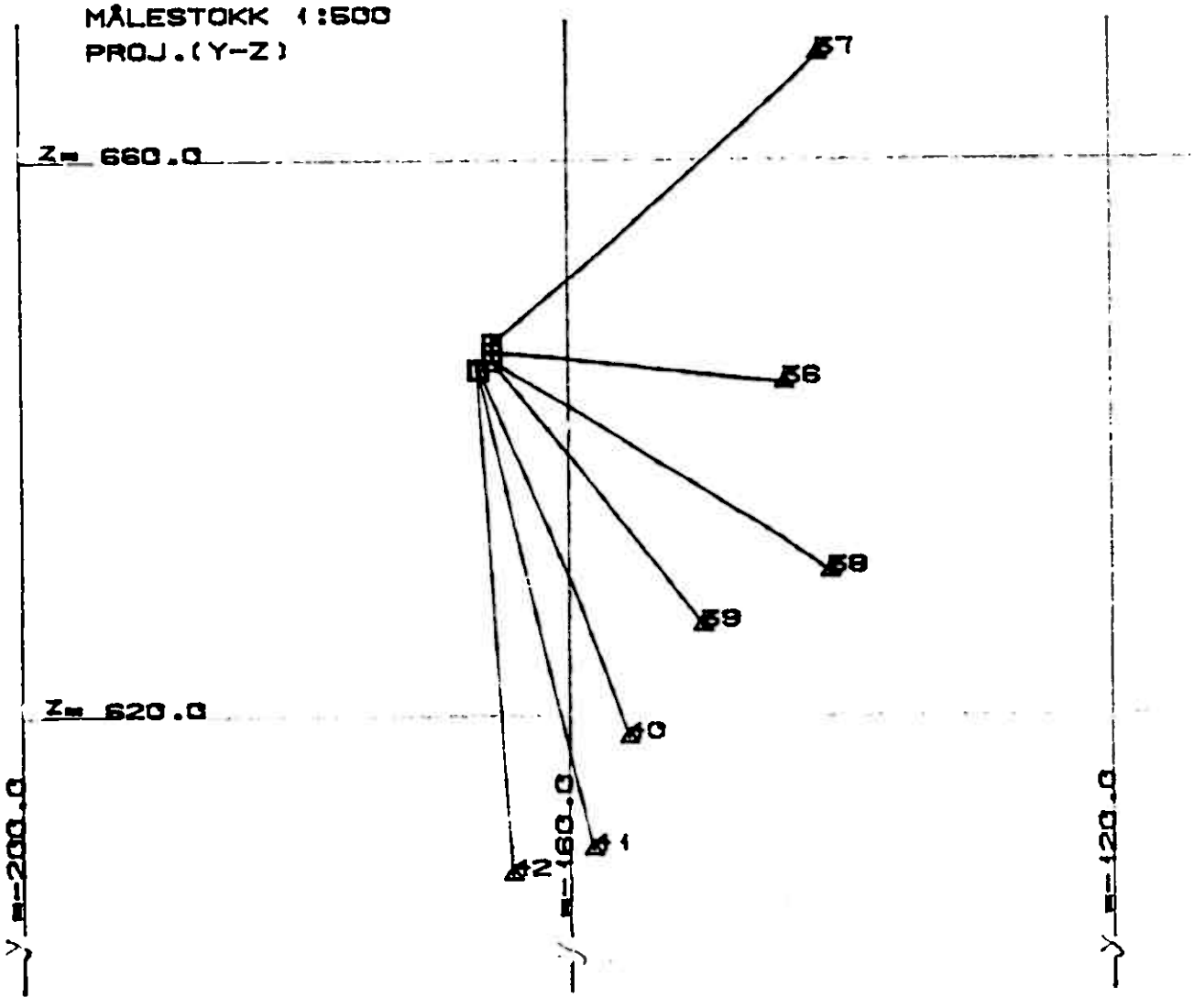
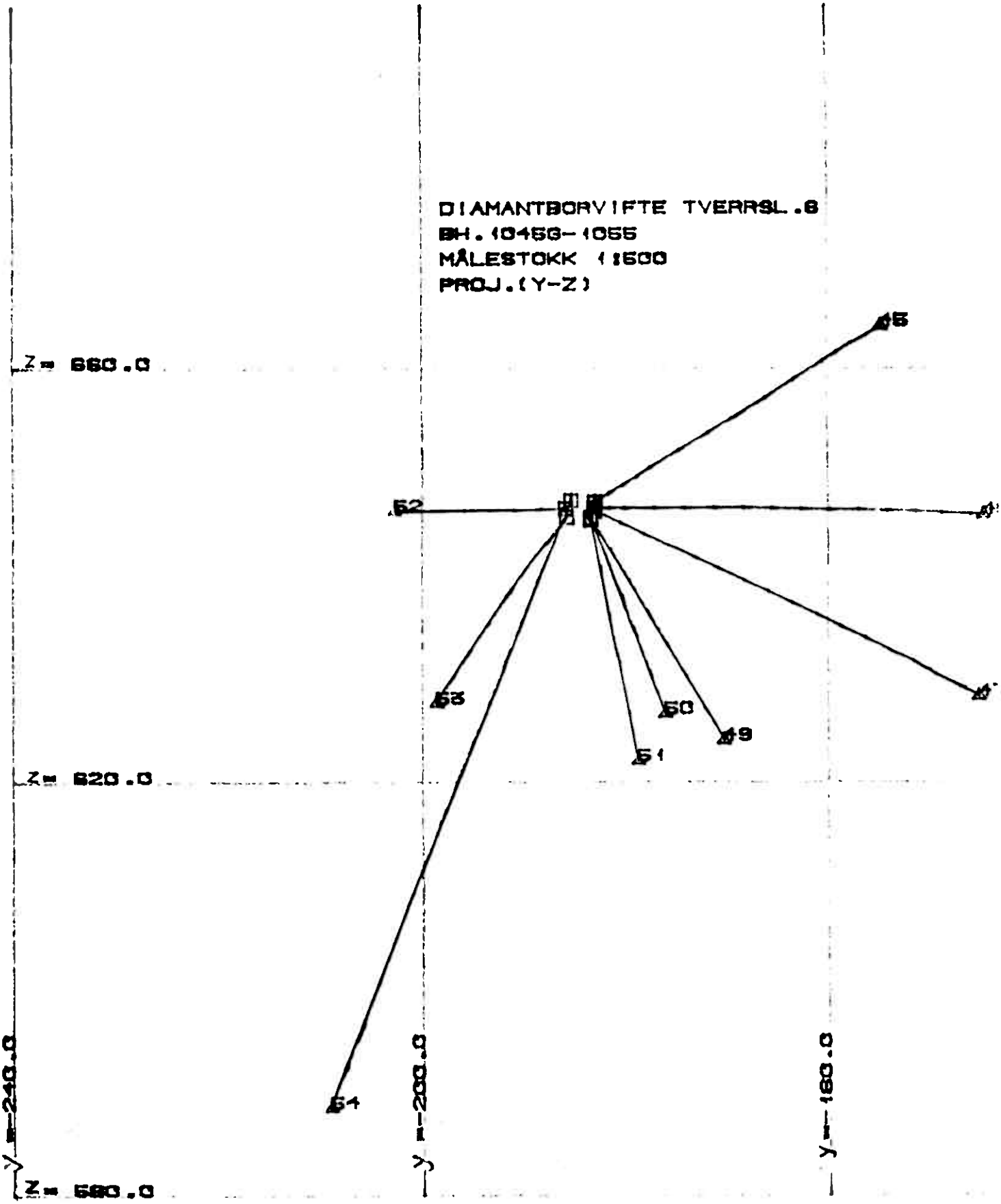
X = 40.0
X = 80.0
1
64
61
60
59
55
56
57
58

DIAMANTBORVIFTE TVERRSL.6
BH. 10660-10750
MÅLESTOKK 1:500
PROJ.(X-Z)



DIAMANTBORVIFTER TVERRSL. 6.
BH. 1035G-1042G
MÅLESTOKK 1:500
PROJ. (Y-Z)

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BH.10459-1055
MÅLESTOKK 1:500
PROJ.(Y-Z)
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Z= 620.0
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Y=-200.0
Y=-160.0
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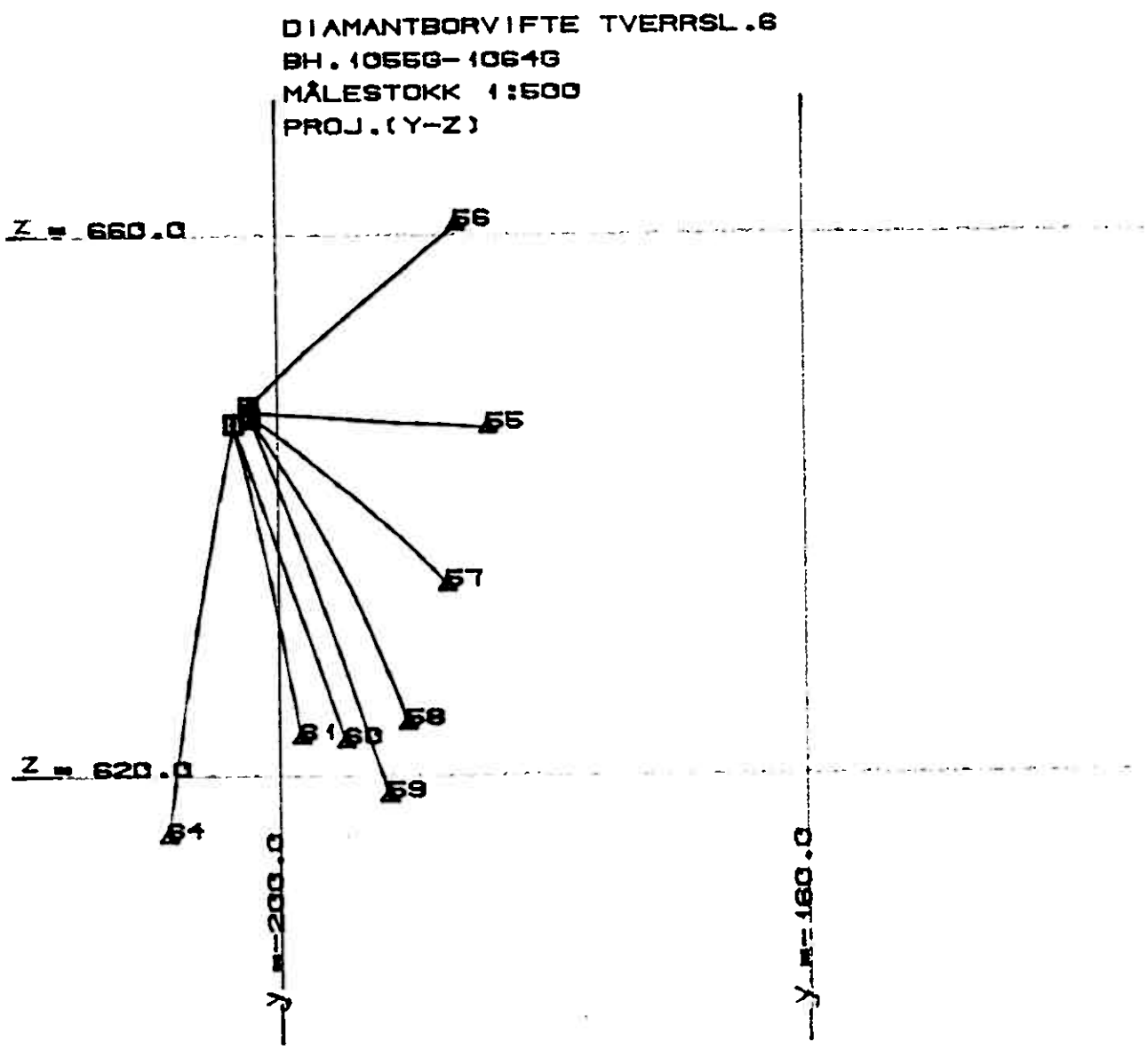
52
53
50
49
51
54


DIAMANTBORVIFTE TVERRSL.6
BH.10559-10646
MÅLESTOKK 1:500
PROJ.(Y-Z)
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Z = 620.0
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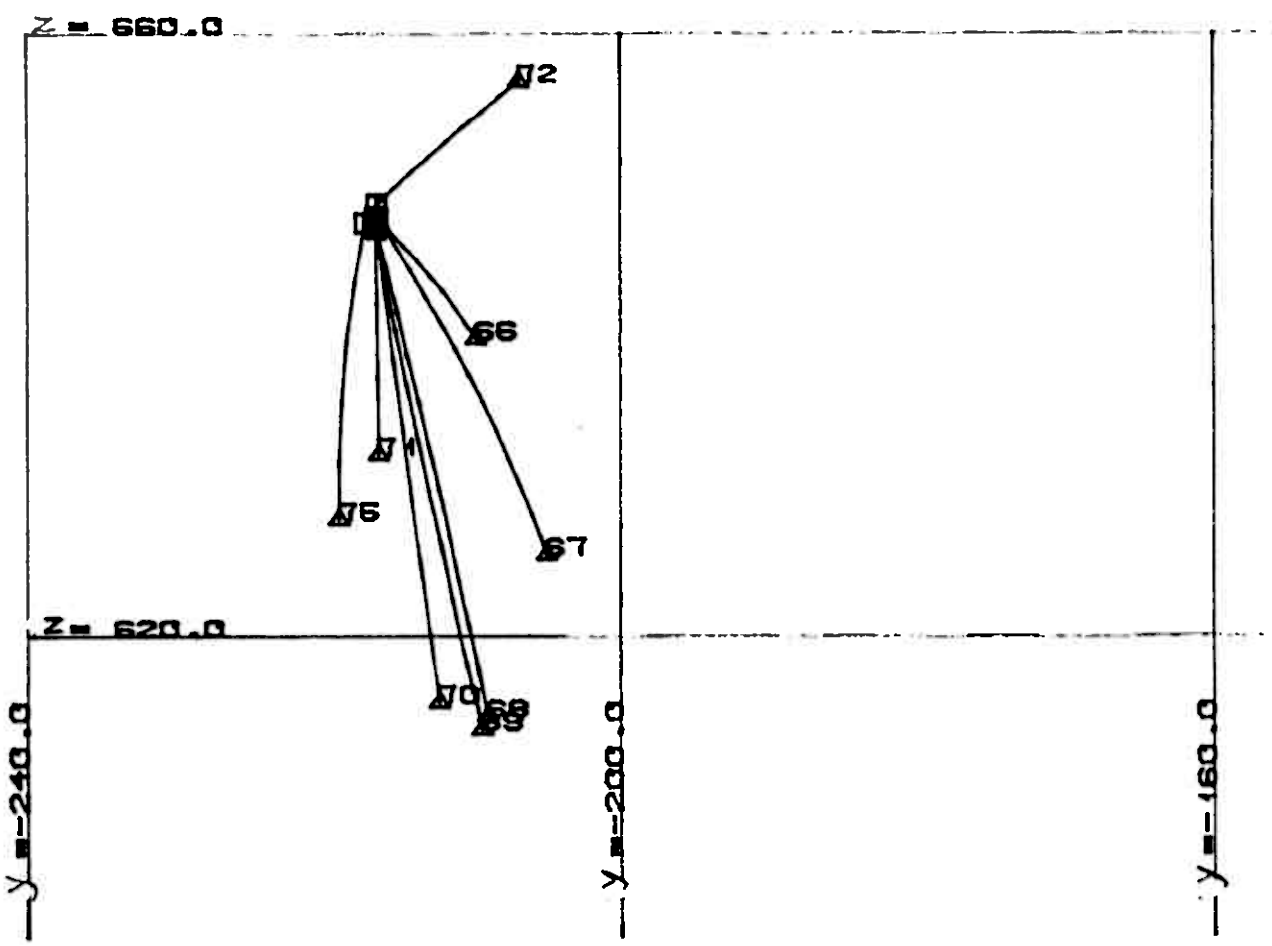
55
57
58
61
60
59
64
y = 200.0
y = 180.0

DIAMANTBORVIFTE TVERRSL.6
BH.1066G-1075G
MÅLESTOKK 1:500
PROJ.(Y-Z)

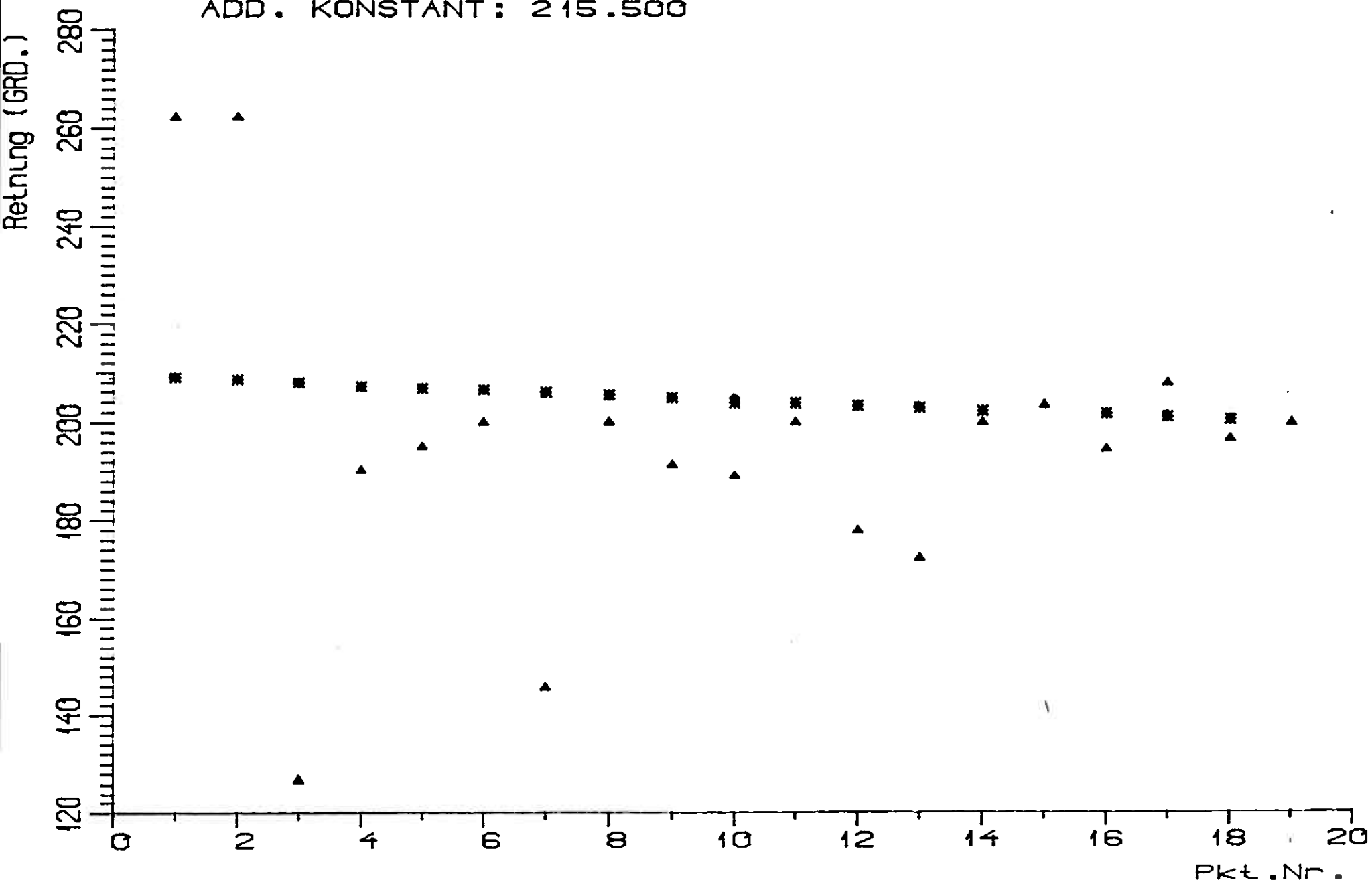


FOLLDAL VERK A/S

BORHULL NR : 1036G

MÅLEDATO : 2.5.84

ADD. KONSTANT: 215.500



10366.

---DATE.....: 2.5.84

DEVIATION ANGLE.(GRD) DEVIATION.

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	MEAS
.00	*	*	.00	.00	.00	.00	1
3.00	.41	*	.00	.01	.00	.01	2
6.00	.38	-.03	.01	.04	.00	.04	3
9.00	.38	.00	.03	.08	.00	.08	4
12.00	.67	.29	.05	.14	.01	.15	5
15.00	.37	-.30	.08	.21	.04	.23	6
18.00	.47	.10	.12	.31	.07	.34	7
24.00	.34	-.12	.20	.53	.12	.58	8
30.00	.36	.02	.29	.79	.17	.86	9
36.00	.41	.05	.40	1.08	.22	1.18	10
42.00	.38	-.03	.52	1.41	.27	1.53	11
45.00	.33	-.05	.58	1.59	.30	1.72	12
48.00	.41	.08	.65	1.78	.33	1.93	13
51.00	.36	-.05	.73	2.00	.35	2.16	14
54.00	.66	.29	.81	2.23	.37	2.40	15
57.00	.44	-.21	.89	2.47	.37	2.66	16
60.00	.37	-.07	.98	2.74	.37	2.93	17
63.00	.53	.16	1.08	3.02	.37	3.23	18
67.00	.39	-.14	1.22	3.42	.40	3.65	19

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 10366
---DATE.....: 2.5.84
---CALCULATION METHOD: CURVATURE

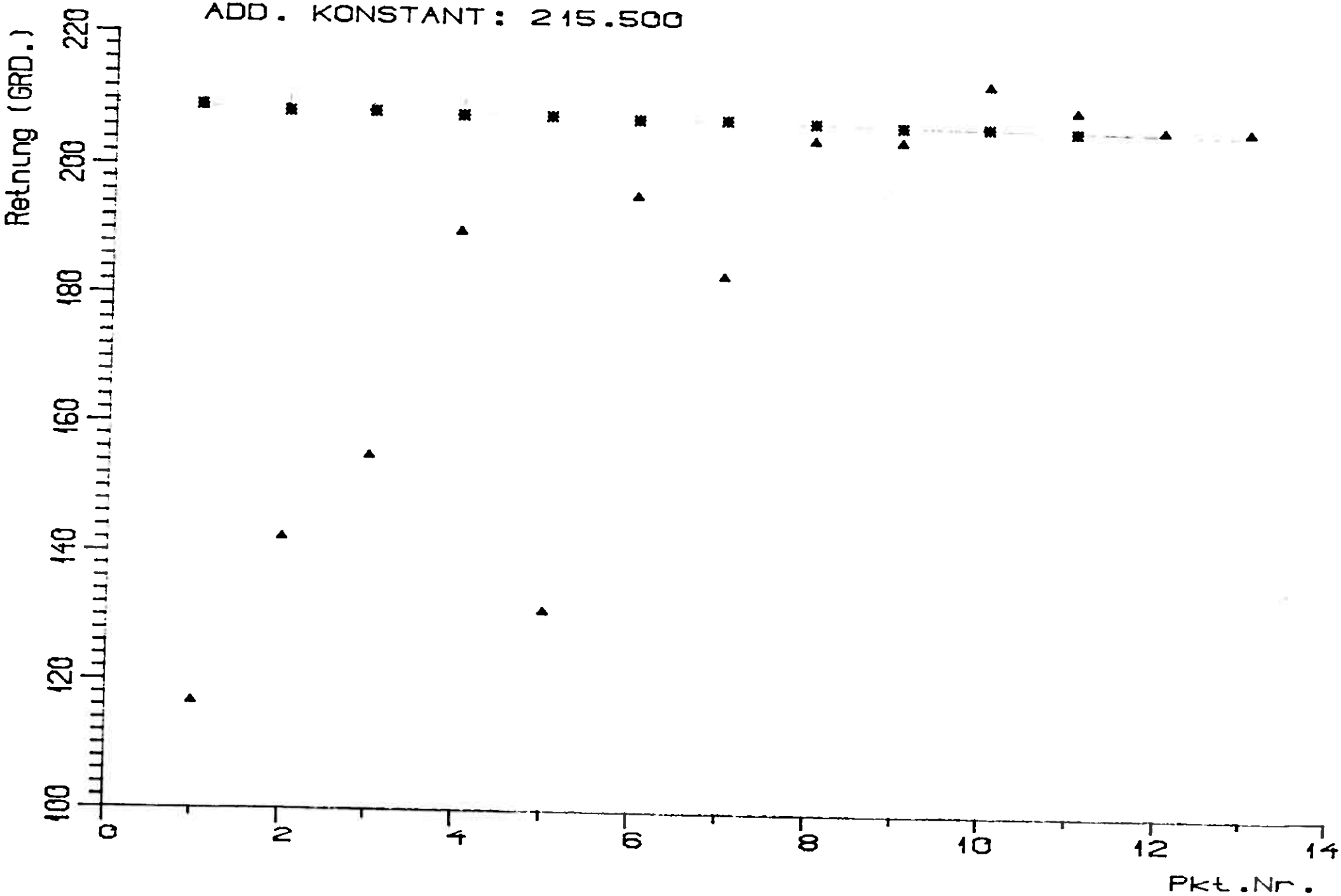
FULLDAL VERK A/S 10366

MEASURED DEPTH (M)	INCLINATION 360 DEG	INCLINATION 400 GRD	AZIMUTH	X-KOORD (M)	Y-KOORD (M)	Z-KOORD (M)
0.	88.5	24.16	23.31	-165.52	646.10	
3.	88.5	23.75	26.09	-164.42	646.02	
6.	88.5	23.37	28.89	-163.34	645.94	
9.	88.5	22.99	31.69	-162.27	645.86	
12.	88.0	22.62	34.50	-161.22	645.77	
15.	88.0	22.25	37.31	-160.18	645.68	
18.	88.0	21.78	40.14	-159.17	645.56	
24.	88.0	21.44	45.71	-157.17	645.35	
30.	88.0	21.08	51.45	-155.29	645.14	
36.	88.0	20.67	57.13	-153.27	644.93	
42.	88.0	20.29	62.82	-151.38	644.72	
45.	88.0	19.95	65.67	-150.45	644.62	
48.	88.0	19.54	68.53	-149.53	644.51	
51.	88.0	19.18	71.39	-148.63	644.41	
54.	88.5	18.83	74.25	-147.75	644.32	
57.	88.5	18.39	77.12	-146.89	644.24	
60.	88.5	18.02	80.00	-146.04	644.16	

: G

MÅLEDATO : 2.5.84

ADD. KONSTANT : 215.500



1037 G

---DATE.....: 2.5.84

DEVIATION ANGLE.(GRD) DEVIATION.

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	FOOT
.00	*	*	.00	.00	.00	.00	
6.00	.85	*	.02	.03	.02	.04	
12.00	.09	-.76	.05	.08	.06	.12	
18.00	.51	.41	.10	.15	.11	.21	
24.00	.01	-.49	.15	.24	.17	.33	
30.00	.36	.35	.22	.35	.23	.47	
36.00	.11	-.25	.28	.47	.29	.62	
42.00	.38	.27	.36	.60	.36	.79	
48.00	.36	-.02	.45	.77	.42	.99	
54.00	.22	-.14	.53	.96	.47	1.19	I
60.00	.47	.25	.63	1.17	.50	1.42	I
66.00	.29	-.17	.72	1.38	.54	1.65	I
71.00	.01	-.28	.80	1.55	.57	1.84	I

D E V I A T I O N C A L C U L A T I O N.

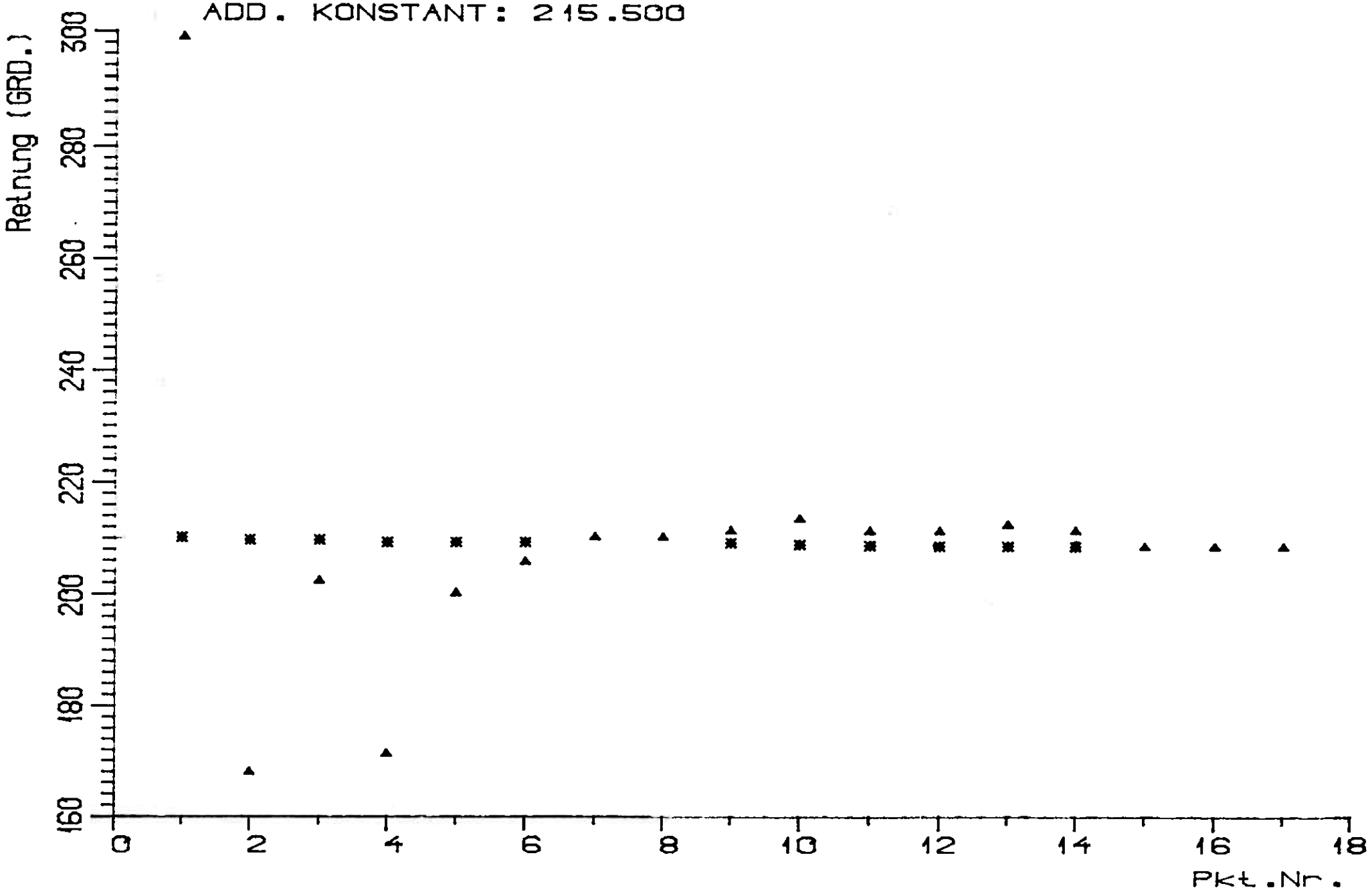
---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 10376
---DATE.....: 2.5.84
---CALCULATION METHOD: CURV ANGLE

FULLDAL VERK A/S 10376

MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	107.6	24.64	23.22	-165.51	646.70
6.	107.2	23.88	28.53	-163.38	648.49
12.	107.2	23.98	33.87	-161.28	650.22
18.	107.0	23.50	39.21	-159.19	652.03
24.	107.0	23.50	44.56	-157.12	653.79
30.	107.0	23.12	49.91	-155.06	655.54
36.	106.9	23.12	55.28	-153.02	657.29
42.	107.0	22.74	60.65	-151.00	659.04
48.	107.0	22.36	66.03	-149.01	660.79
54.	107.2	22.36	71.42	-147.04	662.56
60.	107.3	21.88	76.80	-145.09	664.34
66.	107.2	22.17	82.20	-143.14	666.12
71.	107.2	22.17	86.69	-141.51	667.59

MÅLEDATO : 03.84

ADD. KONSTANT: 215.500



1038 G

---DATE.....: 03.84

DEVIATION ANGLE.(GRD) DEVIATION.

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	
.00	*	*	.00	.00	.00	.00	
3.00	.43	*	.00	.01	.00	.01	
9.00	.01	-.42	.02	.05	.00	.05	
15.00	.70	.69	.05	.10	.01	.12	
21.00	.33	-.37	.09	.17	.03	.20	
27.00	.22	-.11	.12	.25	.07	.29	
33.00	.94	.72	.14	.29	.10	.34	
39.00	.56	-.38	.15	.30	.12	.35	
45.00	.87	.31	.17	.34	.12	.40	
48.00	.33	-.54	.19	.39	.12	.45	
51.00	.11	-.22	.22	.45	.12	.52	
54.00	.16	.05	.24	.51	.12	.58	
57.00	.44	.29	.27	.58	.10	.65	
60.00	.35	-.09	.29	.65	.07	.72	
63.00	.11	-.24	.31	.73	.03	.79	
65.00	.22	.11	.32	.78	.00	.85	
67.00	.01	-.21	.34	.84	.03	.90	

D E V I A T I O N C A L C U L A T I O N.

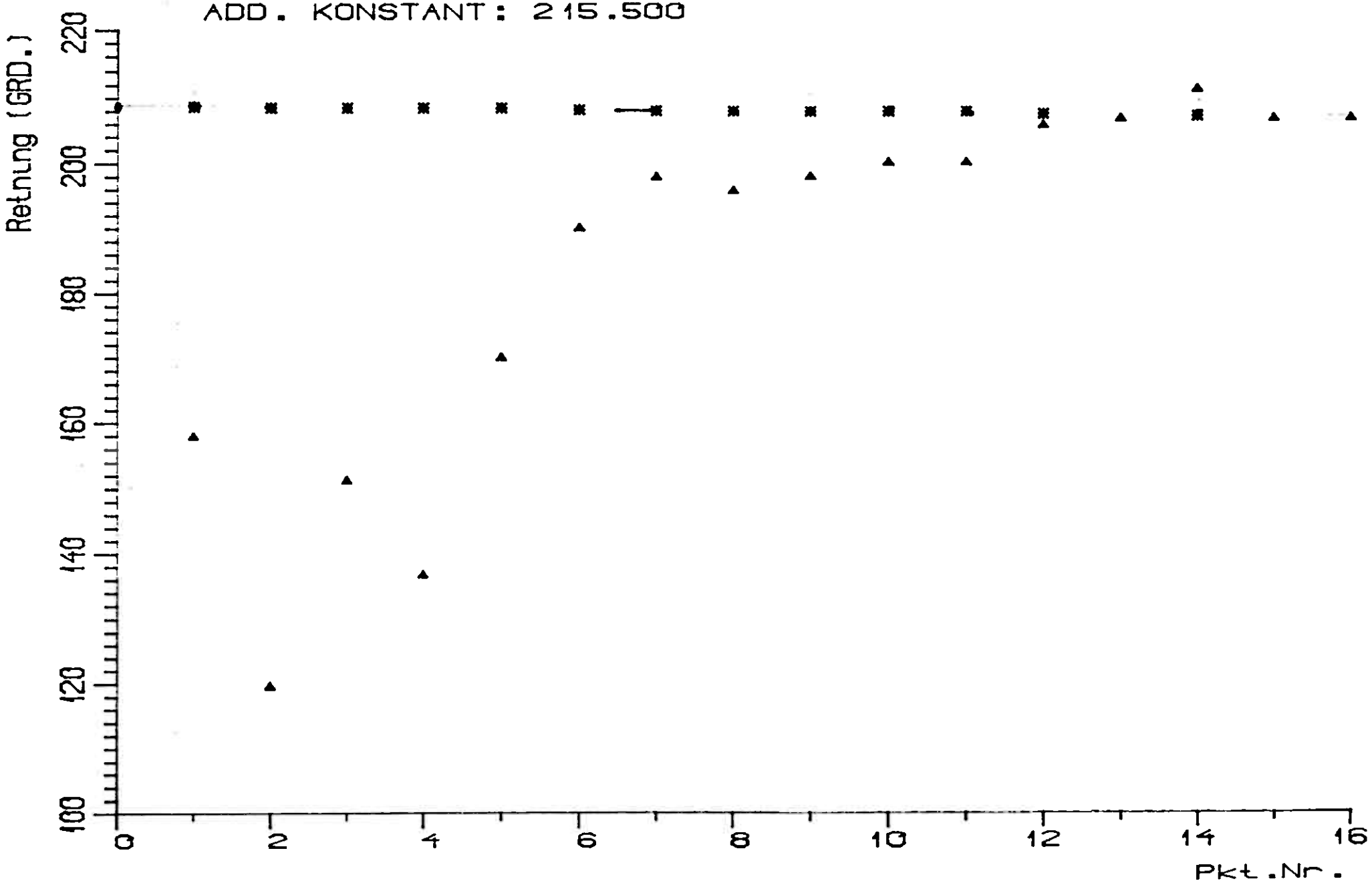
---NAME.....: FULLDAL VERK A/S
---HULE NO.....: 10386
---DATE.....: 03.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK A/S 10386

MEASURED DEPTH	MEASURED DATA: INCLINATION 360 DEG	MEASURED DATA: AZIMUTH 400 GRD	COMPUTED DATA: X-KOORD	COMPUTED DATA: Y-KOORD	COMPUTED DATA: Z-KOORD
(M)			(M)	(M)	(M)
0.	77.0	25.61	23.18	-165.55	645.54
3.	77.0	25.17	25.87	-164.42	644.87
9.	77.0	25.17	31.27	-162.17	643.52
15.	77.5	24.72	36.68	-159.93	642.19
21.	77.2	24.72	42.09	-157.71	640.88
27.	77.0	24.72	47.51	-155.50	639.54
33.	77.5	25.50	52.91	-153.25	638.22
39.	77.0	25.50	58.30	-150.97	636.89
45.	77.0	24.61	63.70	-148.73	635.54
48.	77.0	24.28	66.41	-147.63	634.87
51.	77.0	24.17	69.12	-146.55	634.19
54.	76.9	24.06	71.84	-145.47	633.51
57.	76.5	24.06	74.55	-144.39	632.82
60.	76.2	23.94	77.26	-143.32	632.12
63	76.2	23.83	79.97	-142.25	631.40

MÅLEDATO : 03.84

ADD. KONSTANT : 215.500



1039 G

---DATE.....: 03.84

DEVIATION ANGLE.(GRD) DEVIATION.

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
3.00	.28	*	.00	.00	.00	.01	2
6.00	.56	.27	.00	.01	.00	.01	3
9.00	.33	-.22	.01	.02	.00	.02	4
12.00	.22	-.11	.01	.03	.00	.03	5
15.00	.26	.04	.01	.04	.01	.04	6
18.00	.17	-.09	.02	.07	.02	.07	7
24.00	.09	-.09	.03	.13	.04	.14	8
27.00	.09	.00	.04	.16	.05	.17	9
30.00	.56	.47	.05	.19	.05	.21	10
33.00	.01	-.55	.07	.23	.03	.24	11
36.00	.35	.34	.10	.27	.02	.28	12
39.00	.77	.42	.12	.33	.01	.35	13
42.00	.49	-.28	.15	.40	.01	.43	14
45.00	.44	-.05	.17	.47	.02	.51	15
47.00	1.11	.68	.18	.53	.05	.56	16

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FOLLDAL VERK A/S
---HOLE NO.....: 10396
---DATE.....: 03.84
---CALCULATION METHOD: CORD ANGLE

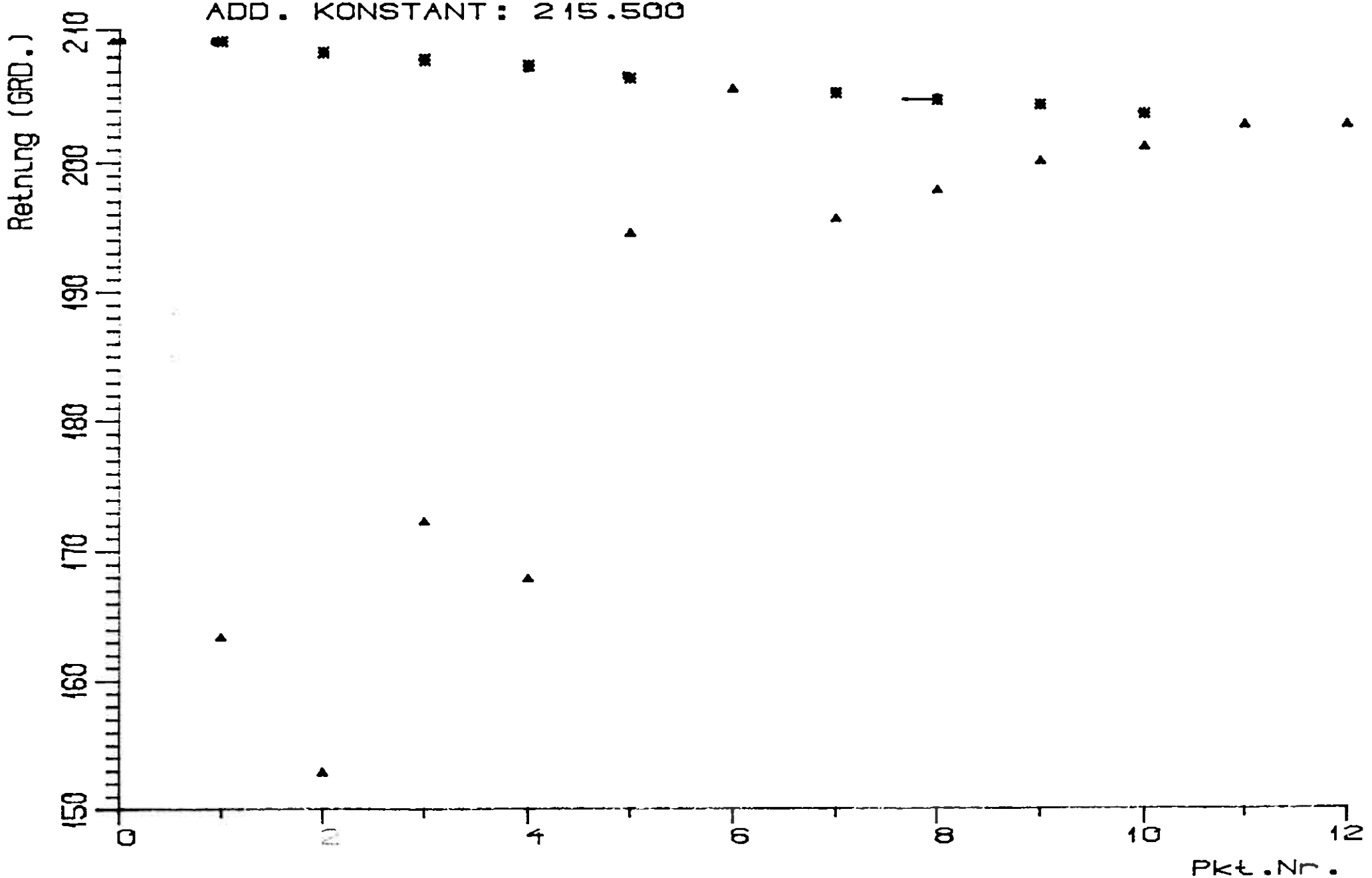
FOLLDAL VERK A/S 10396

MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	66.2	24.17	23.16	-165.56	645.54
3.	66.0	23.98	25.71	-164.55	644.28
6.	66.5	23.98	28.26	-163.54	643.02
9.	66.2	23.98	30.82	-162.53	641.87
12.	66.0	23.98	33.37	-161.52	640.65
15.	66.0	23.69	35.92	-160.52	639.43
18.	66.0	23.59	38.48	-159.52	638.21
24.	66.0	23.40	43.59	-157.55	635.77
27.	66.0	23.31	46.15	-156.57	634.55
30.	66.5	23.31	48.71	-155.58	633.34
33.	66.5	23.31	51.28	-154.60	632.15
36.	66.5	22.93	53.85	-153.62	630.97

BORHULL N :

MÅLEDATO : 03.84

ADD. KONSTANT : 215.500



1040 G

---DATE.....: 03.84

DEVIATION ANGLE.(GRD) DEVIATION.

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	PLOT
.00	*	*	.00	.00	.00	.00	
6.00	.67	*	.00	.03	.01	.03	
12.00	.46	-.20	.02	.11	.03	.12	
18.00	.94	.47	.01	.23	.10	.25	
21.00	.89	-.05	.01	.32	.14	.35	
24.00	.72	-.17	.03	.43	.16	.46	
27.00	.31	-.41	.06	.56	.18	.59	
30.00	.46	.16	.10	.71	.20	.74	
33.00	.28	-.18	.15	.86	.20	.90	
36.00	.56	.27	.21	1.04	.21	1.08	
39.00	.74	.18	.28	1.24	.21	1.29	
42.00	.01	-.73	.35	1.46	.22	1.52	

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FOLLDAL VERK A/S
---HOLE NO.....: 10406
---DATE.....: 03.84
---CALCULATION METHOD: CORD ANGLE

FOLLDAL VERK A/S 10406

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG 400 GRD		(M)	(M)	(M)
0.	51.2 24.60		22.96	-166.55	644.87
6.	51.0 23.79		27.30	-164.82	641.10
12.	50.8 23.25		31.54	-163.14	637.32
18.	50.0 22.88		35.56	-161.58	633.58
21.	50.5 21.98		38.13	-160.70	631.58
24.	50.6 21.86		40.31	-159.94	629.6[illegible]
27.	50.8 20.79		42.51	-159.19	627.[illegible]
30.	51.0 20.26		44.72	-158.45	625.86
33.	51.1 19.93		46.93	-157.72	623.99
36.	51.1 19.21		49.16	-157.02	622.11
39.	51.0 18.28		51.39	-156.34	620.22
42.	51.0 18.28		53.63	-155.68	618.34

MÅLEDATO : 27.9.84

ADD. KONSTANT: 215.500

---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. /041G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.02	*	.00	.00	.00	.00	2
10.00	.09	.07	.00	.00	.00	.00	3
15.00	.01	-.08	.00	.01	.00	.01	4
20.00	.07	.06	.01	.01	.00	.02	5
25.00	.01	-.06	.01	.02	.00	.03	6
30.00	.11	.10	.02	.04	.00	.04	7
35.00	.01	-.10	.03	.06	.00	.06	8
40.00	.15	.14	.04	.08	.00	.09	9

D E V I A T I O N C A L C U L A T I O N.

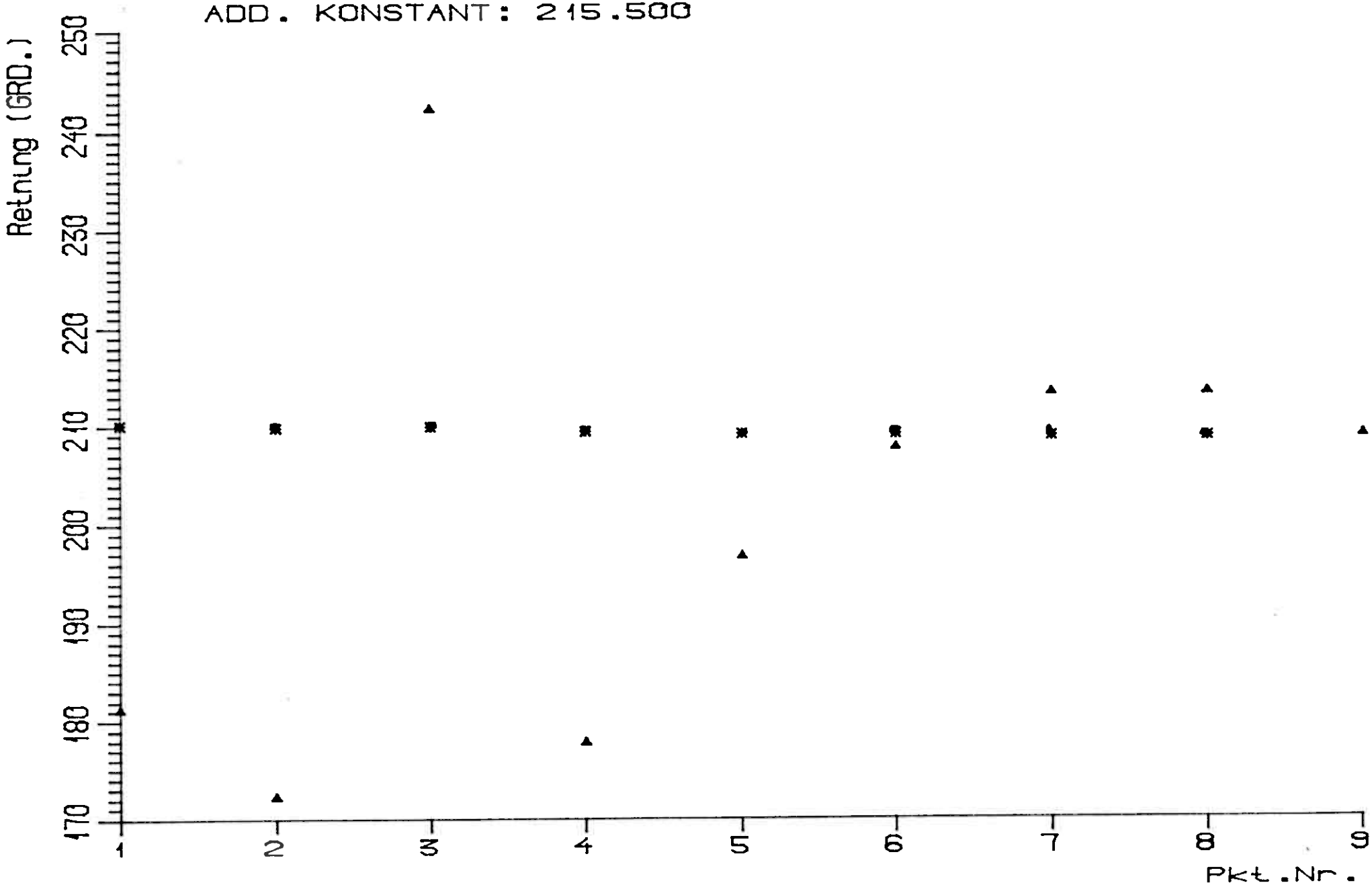
---NAME.....: FV
---HOLE NO.....: 1041G
---DATE.....: 27.9.84
---CALCULATION METHOD: CORD ANGLE

FV 1041G

MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
	MEASURED DATA		COMPUTED DATA		
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	30.0	26.93	22.86	-166.61	644.86
5.	30.0	26.89	25.14	-165.59	640.53
10.	30.0	27.07	27.42	-164.56	636.20
15.	30.0	27.07	29.70	-163.53	631.87
20.	30.0	27.21	31.97	-162.50	627.54
25.	30.0	27.21	34.25	-161.46	623.21
30.	30.0	27.43	36.52	-160.42	618.88
35.	30.0	27.43	38.79	-159.38	614.55
40.	30.0	27.72	41.06	-158.33	610.22

MÅLEDATO : 27.9.84

ADD. KONSTANT: 215.500



---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1042 G

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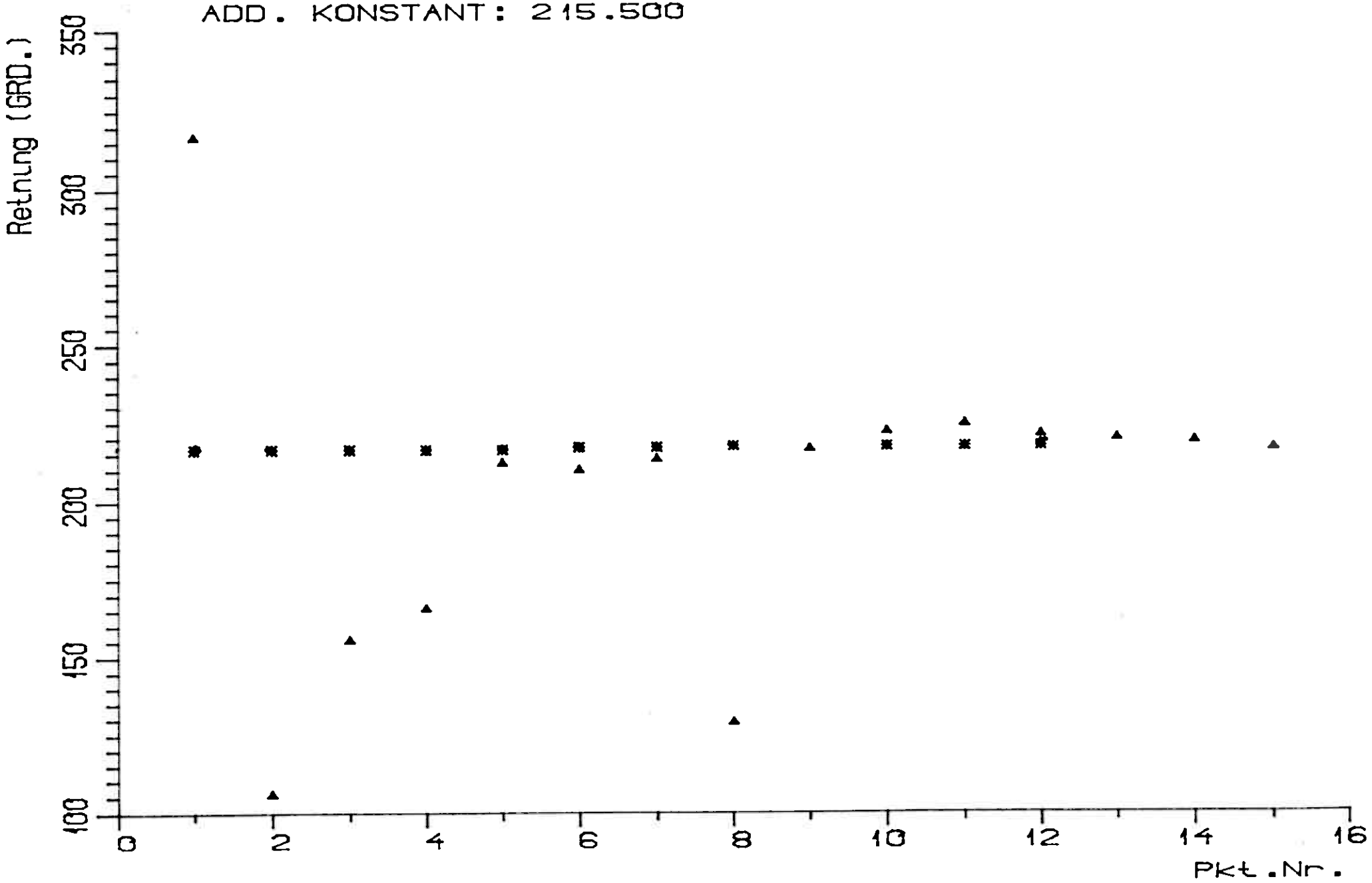
DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	PUNK
.00	*	*	.00	.00	.00	.00	1
5.00	.56	*	.02	.01	.00	.02	2
10.00	.22	-.33	.05	.02	.01	.06	3
15.00	.24	.02	.09	.02	.02	.09	4
20.00	.04	-.19	.13	.03	.02	.14	5
25.00	.56	.51	.20	.04	.03	.20	6
30.00	.05	-.51	.28	.06	.05	.29	7
35.00	.56	.51	.39	.09	.07	.40	8
37.00	.56	.00	.43	.10	.08	.45	9

MEASURED DEPTH	MEASURED DATA INCLINATION	AZIMUTH	COMPUTED DATA X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	9.5	25.63	22.83	-166.64	644.85
5.	10.0	25.31	23.61	-166.31	639.92
10.	9.8	25.44	24.41	-165.98	635.00
15.	10.0	24.93	25.20	-165.65	630.07
20.	10.0	24.67	26.00	-165.32	625.15
25.	10.5	24.67	26.83	-164.98	620.23
30.	10.5	24.42	27.67	-164.64	615.31
35.	11.0	24.36	28.53	-164.29	610.40
37.	10.5	24.39	28.88	-164.15	608.43

MÅLEDATO : 2.5.84

ADD. KONSTANT: 215.500



1046G

---DATE.....: 2.5.84

DEVIATION ANGLE.(GRD) DEVIATION.

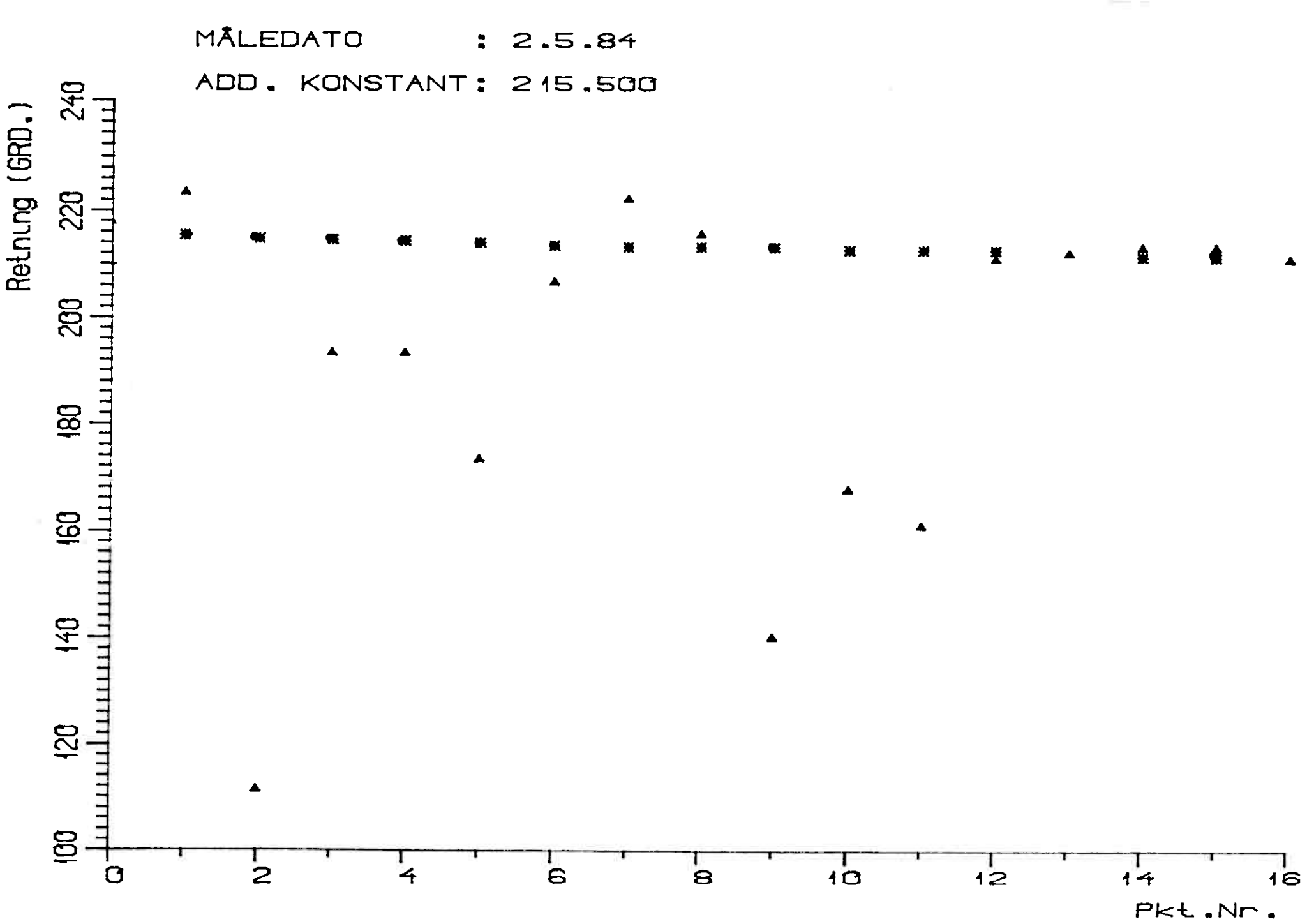
DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
3.00	.51	*	.01	.01	.00	.01	2
6.00	.25	-.26	.02	.03	.01	.04	3
9.00	.04	-.22	.03	.05	.02	.06	4
12.00	.22	.19	.04	.08	.02	.09	5
18.00	.79	.57	.04	.09	.03	.10	6
24.00	.01	-.78	.02	.07	.05	.09	7
30.00	.38	.37	.00	.04	.07	.08	8
36.00	1.16	.78	.02	.03	.12	.13	9
42.00	.97	-.19	.05	.03	.21	.22	10
48.00	.22	-.75	.11	.01	.30	.32	11
51.00	.01	-.21	.13	.03	.34	.37	12
54.00	2.27	2.25	.18	.09	.38	.43	13
57.00	1.12	-1.15	.24	.19	.39	.50	14
60.00	2.16	1.04	.26	.21	.41	.53	15

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK N/S
---HOLE NO.....: 1045G
---DATE.....: 2.5.84
---CALCULATION METHOD: CURVATURE

FULLDAL VERK N/S 1045G

MEASURED DEPTH (M)	INCLINATION 360 DEG 400 GRD	AZIMUTH 360 DEG 400 GRD	COMPUTED DATA X-KOORD (M)	Y-KOORD (M)	Z-KOORD (M)
0.	106.0	32.50	34.33	-183.10	647.12
3.	106.0	31.97	36.85	-181.71	647.95
6.	106.2	31.97	39.38	-180.32	648.78
9.	106.2	31.97	41.90	-178.93	649.62
12.	106.0	31.97	44.43	-177.54	650.45
18.	106.2	32.76	49.46	-174.74	652.12
24.	106.2	32.76	54.48	-171.90	653.79
30.	106.2	33.16	59.49	-169.05	655.47
36.	106.8	32.17	64.50	-166.23	657.17
42.	107.0	33.16	69.50	-163.41	658.91
48.	106.8	33.16	74.48	-160.55	660.66


MÅLEDATO : 2.5.84
ADD. KONSTANT: 215.500
Retning (GRD.)
100
120
140
160
180
200
220
240
0
2
4
6
8
10
12
14
16
Pkt.Nr.

---DATE.....: 2.5.84 1046 G

DEVIATION ANGLE.(GRD) DEVIATION.

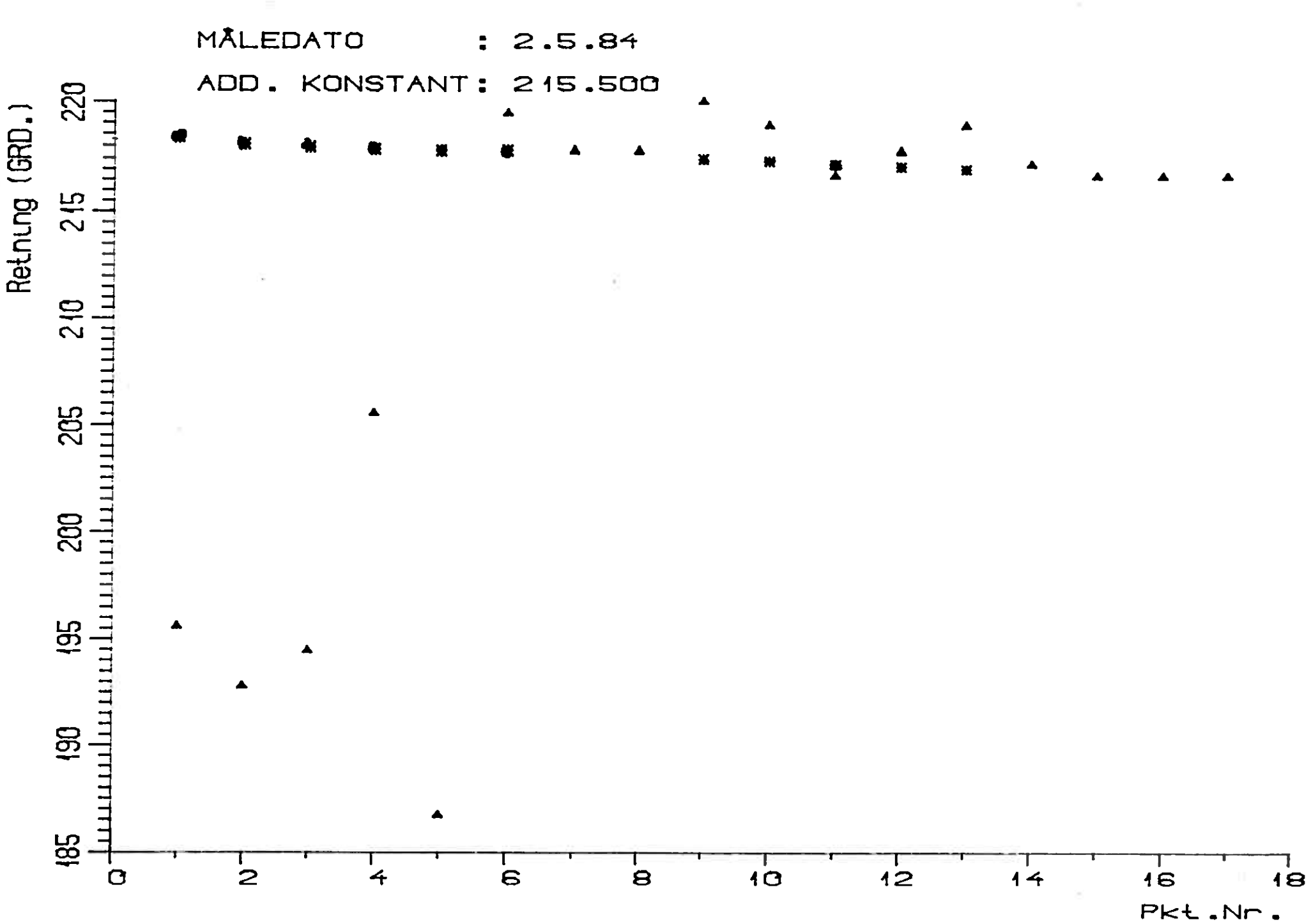
DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
3.00	.01	*	.00	.00	.00	.00	2
6.00	.22	.21	.00	.00	.00	.01	3
12.00	.22	.00	.02	.03	.00	.04	4
18.00	.33	.11	.05	.08	.00	.10	5
24.00	.71	.38	.10	.17	.02	.20	6
30.00	.50	-.21	.15	.29	.04	.33	7
36.00	.89	.39	.23	.42	.08	.49	8
42.00	.44	-.44	.31	.55	.15	.64	9
48.00	.46	.01	.39	.69	.19	.82	10
54.00	.01	-.44	.48	.86	.25	1.01	11
60.00	.56	.54	.57	1.02	.32	1.22	12
66.00	.56	.00	.67	1.21	.43	1.45	13
72.00	.56	.00	.80	1.45	.53	1.74	14
78.00	.01	-.54	.94	1.71	.64	2.05	15
81.00	.56	.54	1.02	1.85	.69	2.22	16

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDRL VERK A/S
---HOLE NO.....: 1046G
---DATE.....: 2.5.84
---CALCULATION METHOD: CURV ANGLE

FULLDRL VERK A/S 1046G

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH (M)	INCLINATION 360 DEG	AZIMUTH 400 GRD	X-COORD (M)	Y-COORD (M)	Z-COORD (M)
0.	90.0	33.28	34.31	-183.17	646.56
3.	90.0	33.28	36.91	-181.67	646.56
6.	90.0	33.06	39.51	-180.18	646.56
12.	90.0	32.83	44.73	-177.21	646.55
18.	90.0	32.50	49.95	-174.27	646.55
24.	89.6	31.94	55.20	-171.36	646.54
30.	90.0	31.72	60.47	-168.48	646.52
36.	89.2	31.72	65.74	-165.61	646.48
42.	89.6	31.72	71.01	-162.74	646.41
48.	89.5	31.28	76.29	-159.90	646.37
54.	89.5	31.28	81.58	-157.07	646.31
60.	89.0	31.28	86.87	-154.23	646.24
66.	89.0	30.72	92.17	-151.43	646.13
72.	89.0	30.17	97.50	-148.67	646.03


MÅLEDATO : 2.5.84
ADD. KONSTANT: 215.500
Retning (GRD.)
185
190
195
200
205
210
215
220
0
2
4
6
8
10
12
14
16
18
Pkt.Nr.

DEVIATION ANGLE.(GRD) DEVIATION. 1047G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POIN
.00	*	*	.00	.00	.00	.00	1
5.00	.43	*	.01	.01	.01	.02	2
10.00	.57	.14	.02	.03	.02	.04	3
15.00	.24	-.33	.04	.06	.01	.07	4
20.00	.23	-.01	.05	.09	.00	.11	5
25.00	.22	-.01	.07	.13	.01	.15	6
30.00	.22	.00	.09	.17	.02	.19	
35.00	.01	-.21	.11	.20	.03	.23	8
40.00	.33	.31	.13	.25	.05	.29	9
45.00	.08	-.24	.17	.32	.07	.37	10
50.00	.14	.05	.20	.39	.09	.45	11
55.00	.11	-.03	.24	.47	.10	.54	12
60.00	.11	.00	.29	.55	.12	.64	13
65.00	1.13	1.02	.32	.64	.18	.74	14
70.00	.54	-.59	.36	.75	.28	.87	15
75.00	.01	-.53	.40	.87	.38	1.03	16
79.00	.01	.00	.43	.97	.46	1.16	17

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 1047G
---DATE.....: 2.5.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK A/S 1047G

MEASURED DEPTH	MEASURED DATA		COMPUTED DATA			
MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD	
(M)	360 DEG	400 GRD	(M)	(M)	(M)	
0.	77.2	33.83	34.33	-183.14	646.22	
5.	77.5	33.56	38.54	-180.68	645.13	
10.	77.0	33.44	42.76	-178.23	644.02	
15.	77.2	33.36	46.98	-175.78	642.91	
20.	77.0	33.31	51.20	-173.35	641.79	
25.	77.2	33.31	55.42	-170.91	640.67	
30.	77.0	33.29	59.64	-168.48	639.56	
35.	77.0	33.26	63.87	-166.05	638.44	
40.	77.0	32.94	68.09	-163.63	637.31	
45.	77.0	32.86	72.33	-161.22	636.18	
50.	77.0	32.72	76.57	-158.82	635.06	
55.	77.0	32.61	80.81	-156.43	633.93	
60.	77.0	32.50	85.06	-154.04	632.81	
65.	76.0	32.72	89.30	-151.66	631.64	

MÅLEDATO : 27.9.84

ADD. KONSTANT: 215.500

---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 10496

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	PLAN
.00	*	*	.00	.00	.00	.00	
5.00	.34	*	.01	.01	.01	.01	
10.00	.15	-.19	.01	.02	.03	.04	
15.00	.36	.20	.02	.05	.06	.09	
20.00	.46	.11	.05	.10	.12	.16	
25.00	.30	-.16	.07	.17	.18	.25	
30.00	.08	-.22	.08	.24	.24	.34	
35.00	.44	.36	.08	.32	.29	.44	

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FOLLDAL VERK A/S
---HOLE NO.....: 10496
---DATE.....: 27.9.84
---CALCULATION METHOD: CURD ANGLE

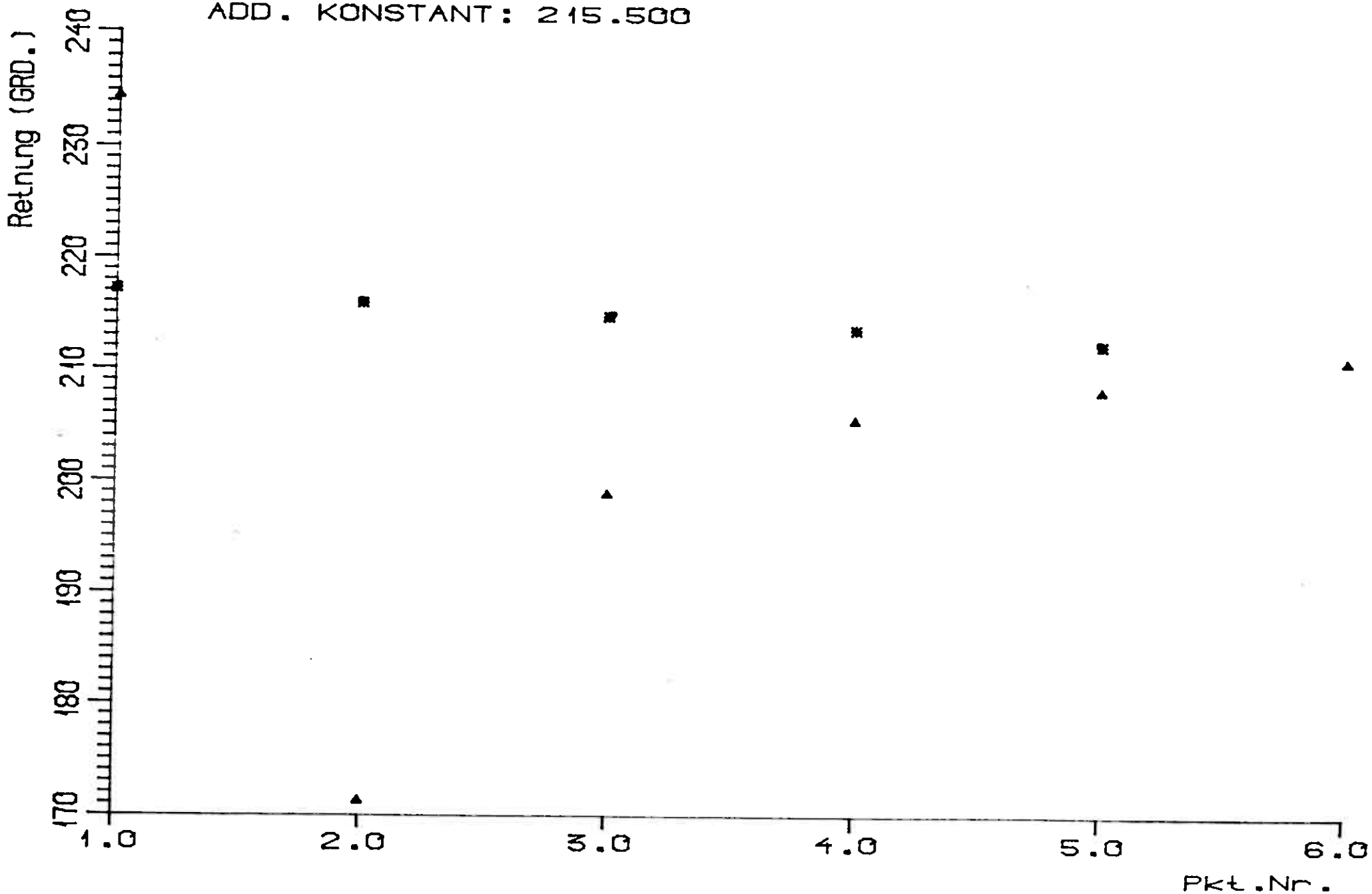
FOLLDAL VERK A/S 10496

MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	52.8	32.00	33.86	-183.53	645.52
5.	52.5	31.91	37.34	-181.62	642.49
10.	52.5	31.72	40.82	-179.72	639.44
15.	52.2	31.56	44.30	-177.83	636.39
20.	51.8	31.40	47.77	-175.96	633.31
25.	52.0	31.15	51.24	-174.10	630.23
30.	52.0	31.06	54.72	-172.25	627.15
35.	52.0	30.90	58.21	-170.42	624.07

BORHULL NR : 1050G

MÅLEDATO : 27.9.84

ADD. KONSTANT : 215.500



---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1050 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	PUTT
.00	*	*	.00	.00	.00	.00	1
5.00	.83	*	.02	.02	.01	.03	2
10.00	.73	-.10	.08	.10	.02	.13	3
15.00	.73	.00	.15	.23	.02	.27	4
20.00	.84	.11	.25	.41	.02	.48	5
25.00	.91	.07	.37	.66	.02	.75	6

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULDAL VERK H/S
---HOLE NO.....: 105606
---DATE.....: 27.9.84
---CALCULATION METHOD: COMP ANGLE

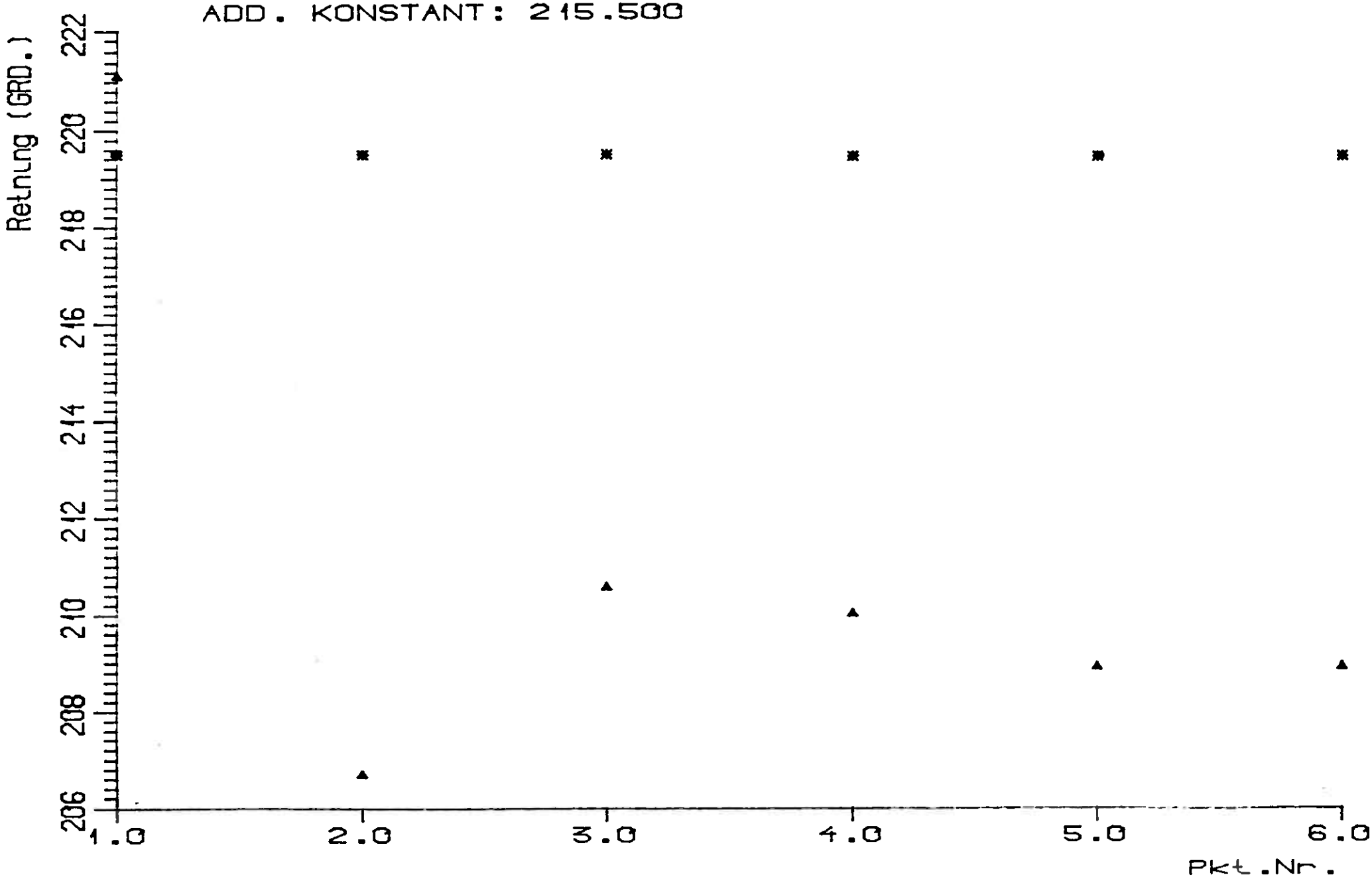
FULDAL VERK H/S 105606

MEASURED DEPTH (M)	INCLINATION 360 DEG	AZIMUTH 400 GRD	X-KOORD (M)	Y-KOORD (M)	Z-KOORD (M)
0.	41.0	32.67	33.89	-183.55	645.48
5.	41.2	31.44	36.68	-181.97	641.71
10.	41.2	30.33	39.59	-180.43	637.95
15.	41.0	29.26	42.53	-178.95	634.14
20.	41.0	28.09	45.48	-177.52	630.40
25.	41.0	26.61	48.46	-176.16	626.63

BORHULL NR : 1051G

MÅLEDATO : 27.9.84

ADD. KONSTANT: 215.500



---DATE.....: 27.9.84

DEVIATION ANGLE (GRD) DEVIATION. 1051 G

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DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POIN
.00	*	*	.00	.00	.00	.00	1
5.00	.12	*	.00	.00	.00	.00	2
10.00	.33	.21	.00	.00	.00	.00	3
15.00	.02	-.31	.01	.02	.01	.02	4
20.00	.01	-.01	.02	.03	.01	.04	5
25.00	.11	.10	.03	.04	.02	.05	6

D E V 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.....: 10516
---DATE.....: 27.9.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK A/S 10516

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	21.2	35.10	33.77	-183.56	645.44
5.	21.3	34.99	35.31	-182.61	640.78
10.	21.0	34.99	36.85	-181.67	636.11
15.	21.0	34.93	38.38	-180.73	631.45
20.	21.0	34.93	39.91	-179.80	626.78
25.	21.1	34.93	41.44	-178.86	622.11

MÅLEDATO : 27.9.84

ADD. KONSTANT : 215.500

---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1052 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.
.00	*	*	.00	.00	.00	.00
5.00	.71	*	.01	.02	.00	.03
10.00	.71	.00	.06	.10	.00	.11
15.00	1.19	.48	.12	.21	.04	.25
20.00	.81	-.38	.21	.36	.13	.44
25.00	.71	-.10	.33	.57	.22	.69
30.00	.70	-.02	.47	.83	.31	1.00
35.00	.56	-.14	.63	1.13	.39	1.35

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK H/S
---HOLE NO.....: 1052G
---DATE.....: 27.9.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK H/S 1052G

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG 400 GRD		(M)	(M)	(M)
0.	89.0 234.02		29.52	-186.02	646.48
5.	89.0 233.31		25.20	-188.54	646.[illegible]
10.	89.0 232.60		20.86	-191.01	646.39
15.	90.0 232.17		16.49	-193.45	646.26
20.	90.0 231.36		12.10	-195.84	646.26
25.	90.0 230.54		7.68	-198.18	646.26
30.	90.0 229.94		3.23	-200.47	646.26
35.	90.0 229.39		-1.23	-202.72	646.26

MÅLEDATO : 27.9.84

ADD. KONSTANT: 215.500

---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1053 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POI
.00	*	*	.00	.00	.00	.00	
5.00	.88	*	.02	.03	.00	.03	
10.00	1.36	.48	.08	.14	.00	.16	
15.00	2.90	1.54	.20	.40	.01	.45	
20.00	.69	-2.21	.37	.74	.02	.82	
25.00	1.64	.95	.55	1.11	.02	1.24	
30.00	.02	-1.62	.76	1.54	.02	1.71	
35.00	.95	.94	.96	1.93	.02	2.15	

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HULL NO.....: 1053G
---DATE.....: 27.9.84
---CALCULATION METHOD: CURV ANGLE

FULLDAL VERK A/S 1053G

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG 400 GRD		(M)	(M)	(M)
0.	59.0	232.60	29.47	-185.89	645.00
5.	59.0	231.57	25.72	-187.96	643.19
10.	59.0	229.98	21.92	-189.95	640.53
15.	58.8	226.61	18.06	-191.79	637.95
20.	58.9	227.40	14.16	-193.55	635.36
25.	59.0	225.58	10.24	-195.28	632.78
30.	59.0	225.58	6.29	-196.95	630.21
35.	59.0	226.61	2.36	-198.66	627.63

BORHULL NR : TVE 1054G

MÅLEDATO : 27.9.84

ADD. KONSTANT : 0.033

---DATE.....: 27.9.84

DEVIATION DOSE (GRD) DEVIATION: 1054G

DEPTH	DEV ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.000	.000	.000	.00	1
5.00	.25	*	.003	.000	.000	.00	
10.00	.37	.01	.009	.001	.004	.01	3
15.00	.55	.19	.004	.013	.001	.03	4
20.00	.84	-.52	.024	.035	.004	.07	5
25.00	.34	.30	.044	.051	.006	.11	6
30.00	.23	-.11	.053	.071	.012	.13	7
35.00	.06	-.15	.061	.084	.017	.15	8
40.00	.13	.18	.070	.097	.021	.18	9
45.00	.69	.66	.082	.122	.030	.24	10
50.00	.25	-.84	.086	.129	.036	.33	11
55.00	.24	.18	.093	.137	.041	.43	12
60.00	.11	-.22	.102	.145	.047	.54	13
65.00	.05	.04	.105	.154	.052	.64	14
70.00	.06	.01	.108	.162	.060	.75	15
75.00	.04	-.01	.120	.171	.043	.86	16

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: TVE 1054G
---HOLE NO.....: TVE 1054G
---DATE.....: 27.9.84
---CALCULATION METHOD: LONG ANGLE

TVE 1054G TVE 1054G

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	39.0	234.58	30.56	-185.45	647.22
5.	39.0	234.58	27.87	-187.08	643.33
10.	38.8	234.38	25.17	-188.70	639.45
15.	38.5	234.29	22.48	-190.30	635.59
20.	38.5	234.23	19.81	-191.90	631.63
25.	38.8	234.13	17.13	-193.50	627.73
30.	39.0	234.05	14.43	-195.10	623.84
35.	39.0	233.95	11.72	-196.70	619.95
40.	38.8	233.88	9.01	-198.30	616.06
45.	38.8	233.80	6.34	-199.87	612.14
50.	38.8	233.73	3.68	-201.43	608.20
55.	38.8	233.36	1.02	-202.97	604.26
60.	38.8	233.36	-1.64	-204.52	600.32
65.	38.8	233.43	-4.31	-206.06	596.38
70.	38.8	233.34	-6.97	-207.60	592.44

BORHULL NR : 1055G

MÅLEDATO : 27.9.84

ADD. KONSTANT : 215.500

---DATE.....: 27.9.84

DEVIATION ANGLE (GRD) DEVIATION. 10556

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.55	*	.01	.02	.00	.02	2
10.00	.53	.08	.03	.03	.00	.05	3
15.00	.57	-.06	.06	.21	.00	.21	4
20.00	1.20	.63	.11	.34	.04	.36	5
25.00	.71	-.49	.17	.52	.11	.56	6
30.00	.89	.18	.24	.75	.13	.80	7
35.00	.25	-.64	.33	1.01	.13	1.07	8
40.00	.51	.25	.42	1.29	.13	1.37	9
45.00	.25	-.25	.53	1.61	.13	1.70	10
50.00	.64	.39	.64	1.94	.15	2.05	11
55.00	1.24	.60	.78	2.33	.17	2.47	12

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 10556
---DATE.....: 27.9.84
---CALCULATION METHOD: CORD ANGLE

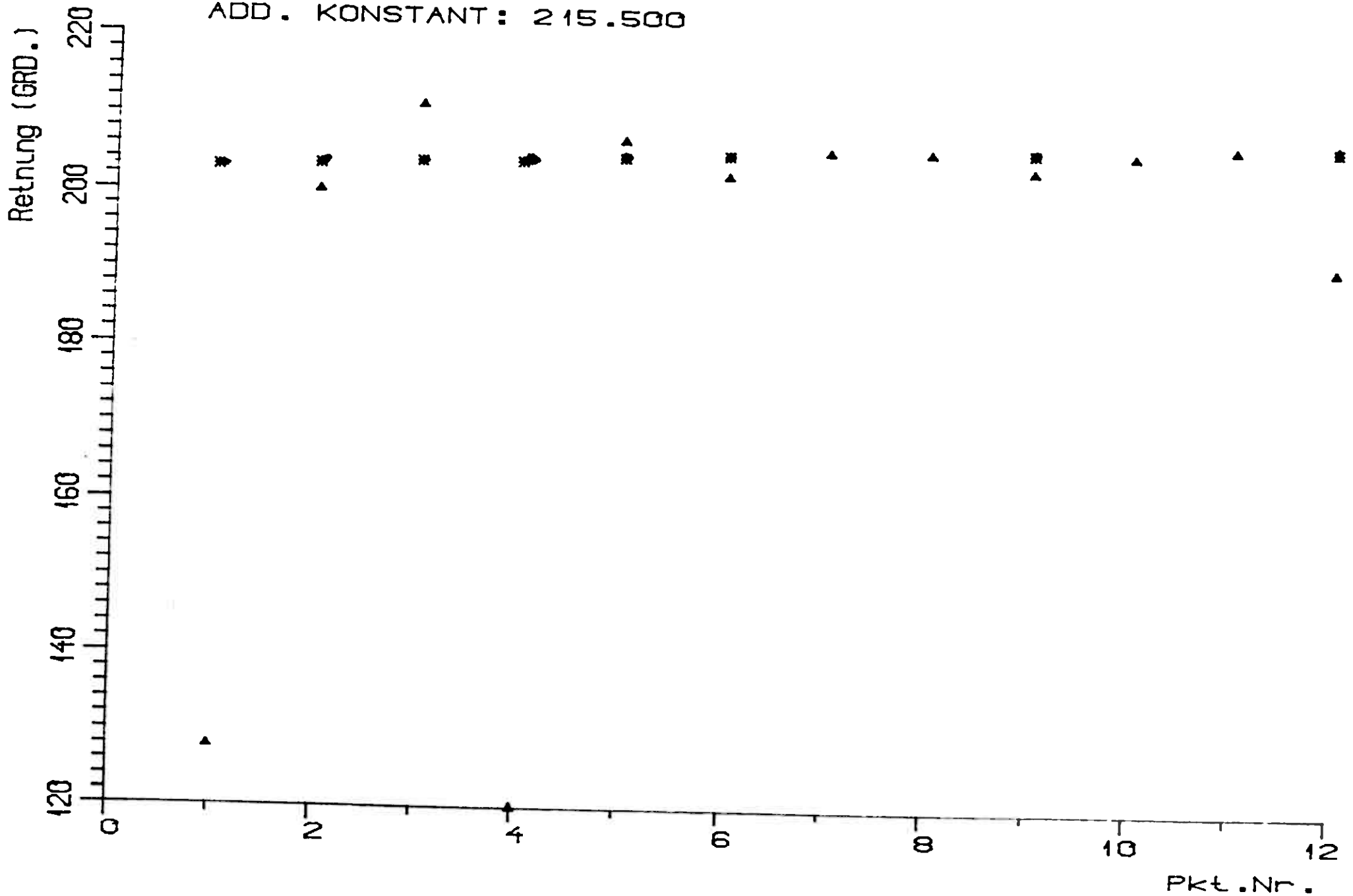
FULLDAL VERK A/S 10556

MEASURED DEPTH (M)	INCLINATION 360 DEG	AZIMUTH 400 GRD	X-COORD (M)	Y-COORD (M)	Z-COORD (M)
	MEASURED DATA		COMPUTED DATA		
0.	89.0	18.60	36.59	-202.21	646.86
5.	89.0	19.15	41.37	-200.75	646.77
10.	89.0	19.79	46.13	-199.24	646.69
15.	89.0	20.36	50.89	-197.69	646.60
20.	88.0	20.80	55.63	-196.11	646.47
25.	88.5	21.25	60.35	-194.49	646.32
30.	89.0	21.94	65.07	-192.82	646.21
35.	89.0	22.20	69.77	-191.12	646.12
40.	89.0	22.71	74.46	-189.40	646.03
45.	89.0	22.96	79.14	-187.64	645.95
50.	88.5	23.28	83.82	-185.87	645.84
55.	89.0	24.39	88.47	-184.04	645.73

BORHULL NR : 1056G

MÅLEDATO : 27.9.84

ADD. KONSTANT : 215.500



---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1056 G

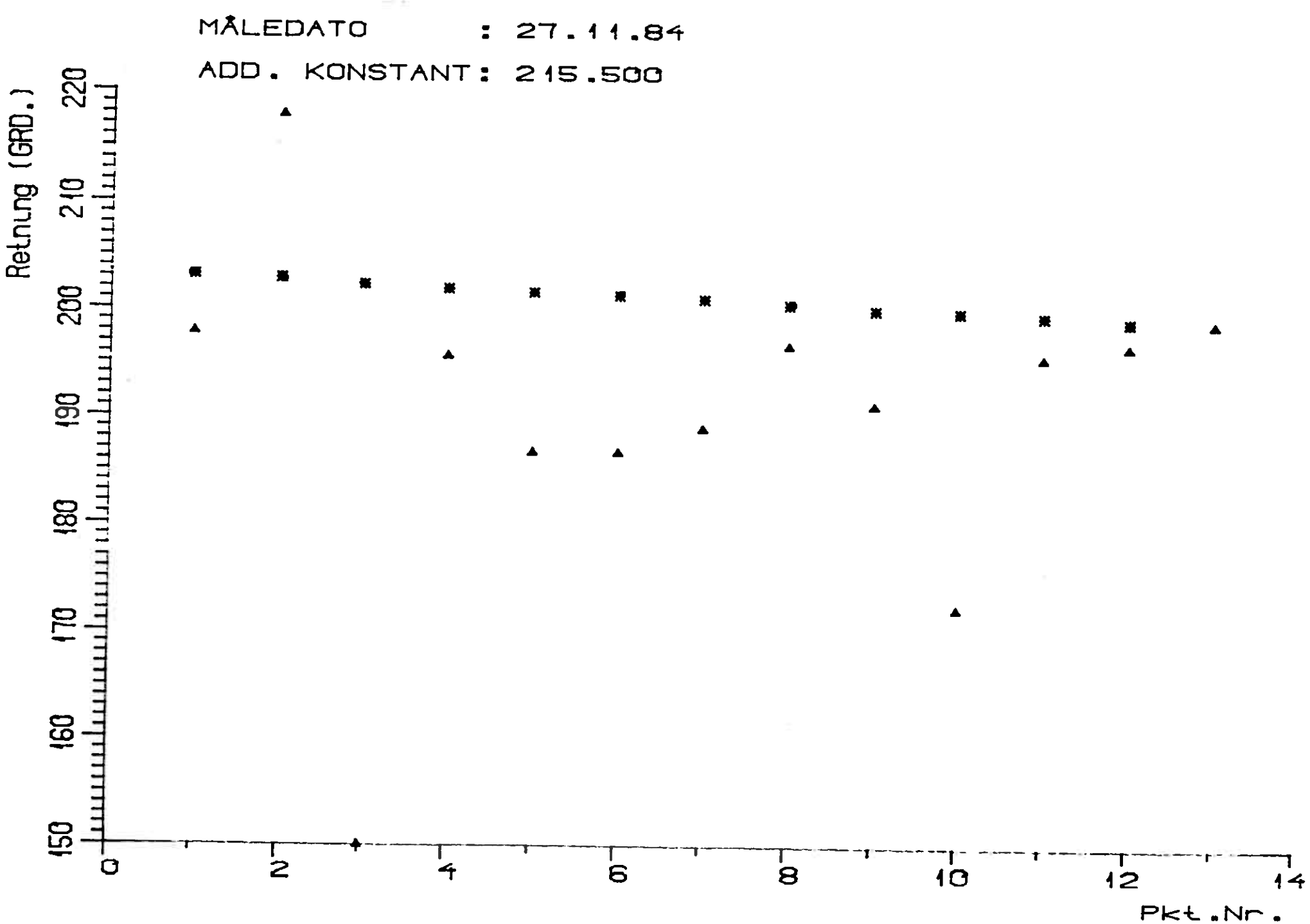
DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	2.25	*	.02	.02	.08	.09	2
10.00	.38	-1.87	.05	.08	.25	.27	3
15.00	.92	-.37	.08	.15	.42	.45	4
20.00	.61	.60	.10	.24	.59	.64	5
25.00	1.20	.59	.12	.38	.80	.89	6
30.00	.77	-.43	.13	.56	1.03	1.18	7
35.00	.91	-.76	.13	.75	1.24	1.46	8
40.00	.69	.59	.12	.96	1.43	1.72	9
45.00	.50	-.10	.11	1.16	1.61	1.99	10
50.00	1.10	.60	.09	1.39	1.80	2.28	11
52.00	.23	-.87	.08	1.50	1.88	2.41	12

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK H/S
---HOLE NO.....: 10566
---DATE.....: 27.9.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK H/S 10566

MEASURED DEPTH	INCLINATION 360 DEG	INCLINATION 400 GRD	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)			(M)	(M)	(M)	(M)
0.	107.0	18.60	36.59	-202.19		647.35
5.	106.8	18.99	41.10	-200.79		648.73
10.	105.0	19.39	45.71	-199.36		650.02
15.	105.0	19.39	50.32	-197.91		651.32
20.	105.0	20.02	54.92	-196.44		652.61
25.	104.8	20.50	59.52	-194.92		653.86
30.	104.5	21.06	64.11	-193.37		655.10
35.	104.5	21.06	68.69	-191.80		656.35
40.	105.0	21.29	73.26	-190.22		657.62
45.	104.6	21.06	77.83	-188.64		658.90
50.	104.8	22.17	82.39	-187.03		660.17
52.	104.8	22.40	84.20	-186.37		660.68


MÅLEDATO : 27.11.84
ADD. KONSTANT: 215.500
Retning (GRD.)
150
160
170
180
190
200
210
220
0
2
4
6
8
10
12
14
Pkt.Nr.

---DATE.....: 27.11.84

DEVIATION ANGLE (GRD) DEVIATION. 10576

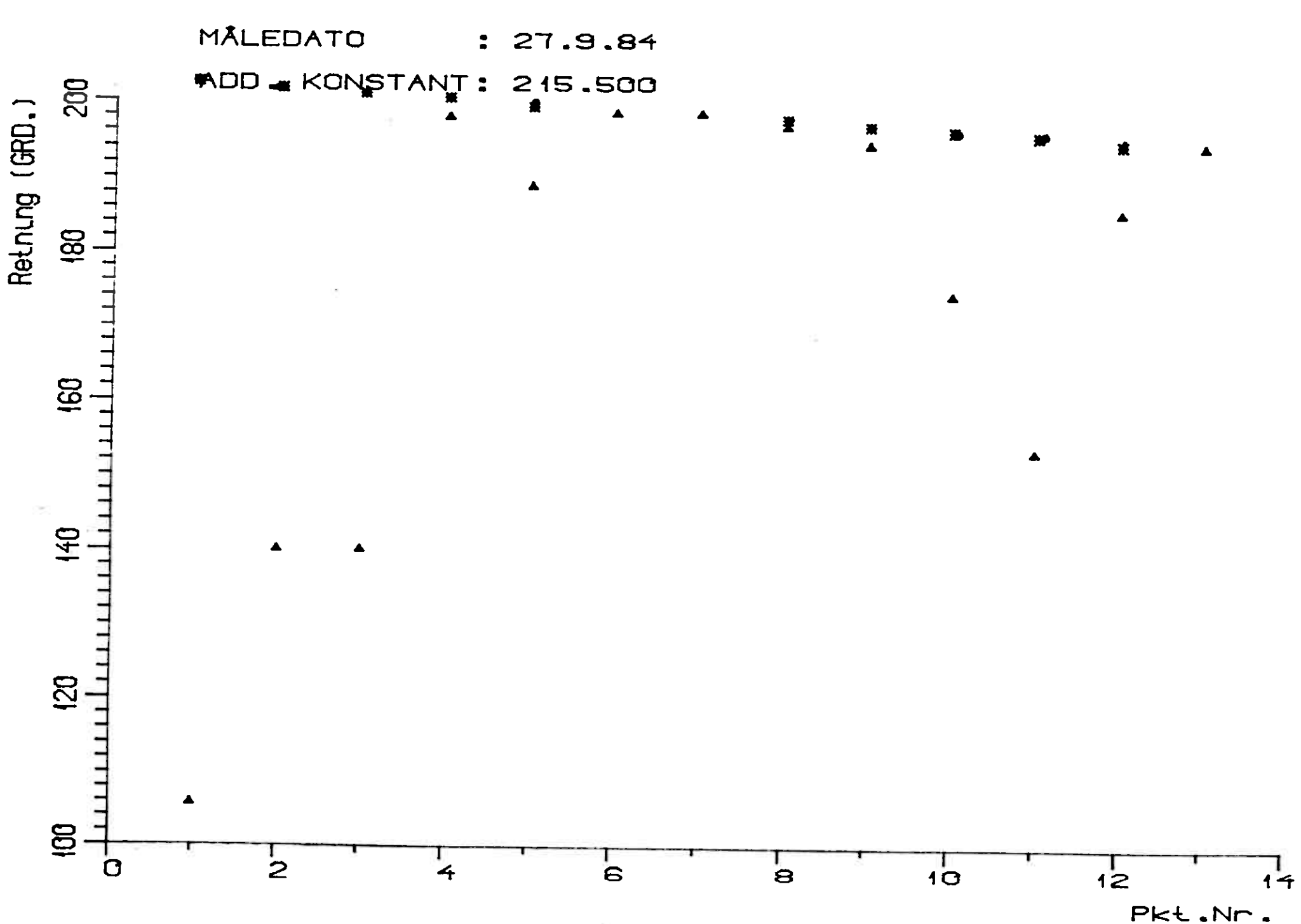
DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.39	*	.00	.01	.00	.02	2
10.00	1.04	.66	.01	.05	.02	.07	3
15.00	.44	-.60	.03	.15	.09	.18	4
20.00	.33	-.11	.04	.27	.17	.32	5
25.00	.27	-.05	.07	.40	.24	.47	6
30.00	.27	.00	.09	.56	.32	.65	7
35.00	.49	.22	.13	.75	.40	.86	8
40.00	.33	-.16	.18	.97	.47	1.09	9
45.00	.28	-.16	.22	1.21	.56	1.35	10
50.00	.95	.67	.27	1.48	.69	1.65	11
55.00	.43	-.51	.31	1.78	.85	1.99	12
60.00	.60	.16	.37	2.10	.99	2.35	13

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK B/S
---HOLE NO.....: 10576
---DATE.....: 27.11.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK B/S 10576

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	78.9	18.71	36.68	-202.15	646.61
5.	79.0	18.33	41.35	-200.75	645.65
10.	78.2	17.78	46.00	-199.37	644.66
15.	78.0	17.39	50.74	-198.04	643.63
20.	78.0	17.06	55.51	-196.73	642.59
25.	78.0	16.78	60.23	-195.45	641.55
30.	78.0	16.50	64.95	-194.18	640.51
35.	78.0	16.00	69.68	-192.95	639.47
40.	78.0	15.56	74.42	-191.75	638.43
45.	77.8	15.39	79.17	-190.57	637.38
50.	77.0	15.06	83.91	-189.42	636.29
55.	77.0	14.61	88.65	-188.29	635.17
60.	77.5	14.39	93.40	-187.19	634.06


MÅLEDATO : 27.9.84
ADD - KONSTANT : 215.500
Retning (GRD.)
100
120
140
160
180
200
0
2
4
6
8
10
12
14
Pkt.Nr.

---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1058 G

DEPTH	DEV.ANGLE.	DIF.	DX	DY	DZ	TOT.DEV.	POINT #
.00	*	*	.00	.00	.00	.00	1
5.00	1.40	*	.12	.05	.00	.05	2
10.00	.66	-.74	.05	.18	.00	.19	3
15.00	.52	-.15	.13	.36	.00	.37	4
20.00	1.10	.59	.17	.58	.00	.62	5
25.00	.98	-.12	.26	.90	.02	.94	6
30.00	.56	-.43	.35	1.24	.04	1.29	7
35.00	.81	.25	.44	1.61	.02	1.67	8
40.00	.98	.17	.52	2.03	.04	2.10	9
45.00	.58	-.39	.60	2.51	.12	2.58	10
50.00	1.22	.64	.71	3.03	.16	3.11	11
55.00	.91	-.31	.84	3.59	.17	3.69	12
60.00	.40	-.51	.97	4.21	.20	4.32	13

D E V I A T I O N C A L C U L A T I O N.

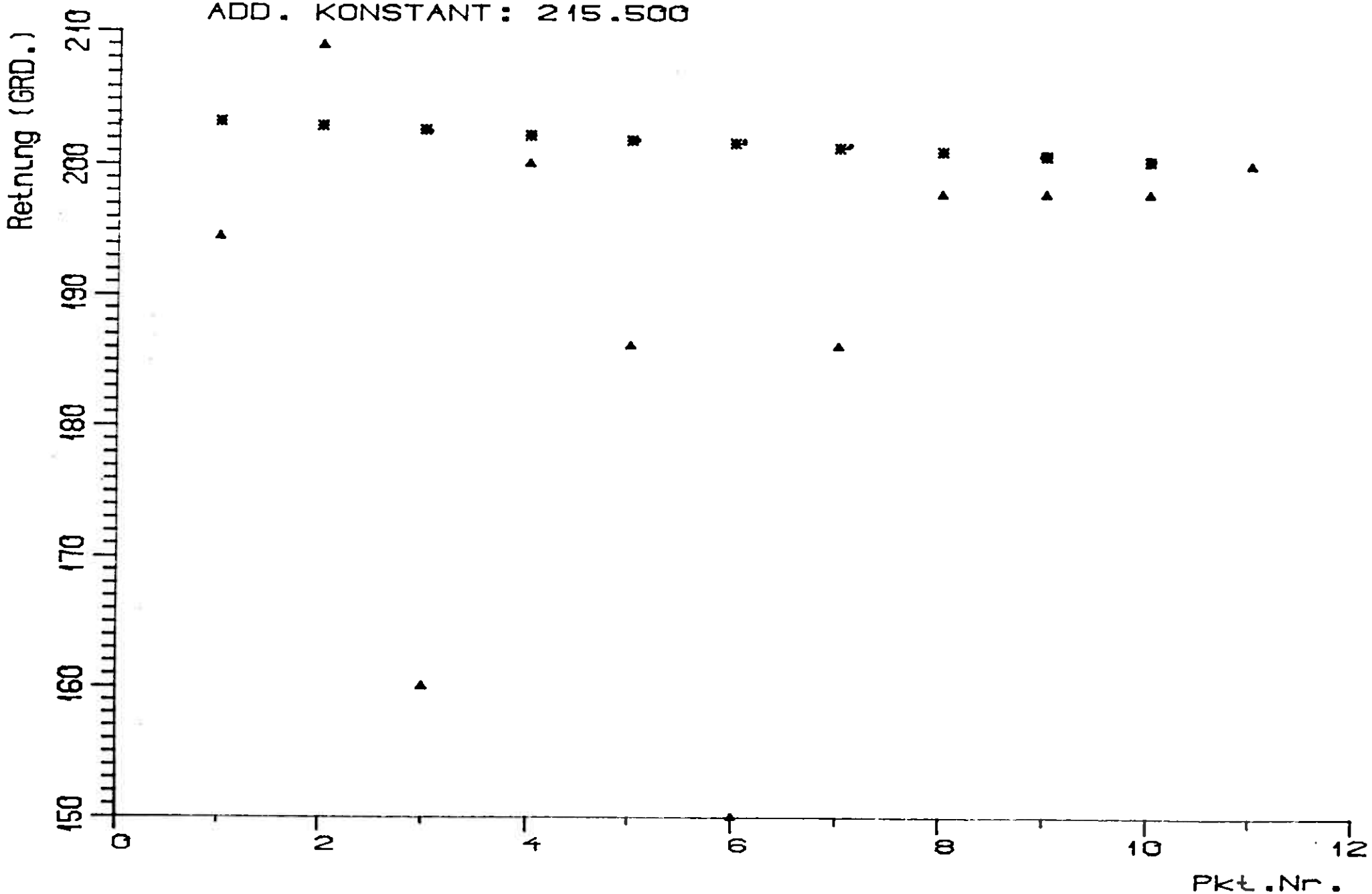
---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 10586
---DATE.....: 27.9.84
---CALCULATION METHOD: LONG ANGLE

FULLDAL VERK A/S 10586

MEASURED DEPTH	INCLINATION	AZIMUTH	COMPUTED DATA X-COORD	Y-COORD	Z-COORD
(M)	360 DEG 400 GRD		(M)	(M)	(M)
0.	68.0	18.67	36.67	-202.14	646.47
5.	68.0	17.17	41.12	-200.85	644.69
10.	68.0	16.45	45.60	-199.64	642.73
15.	68.0	15.90	50.08	-198.48	640.85
20.	68.0	14.71	54.59	-197.37	638.98
25.	68.5	13.83	59.11	-196.34	637.13
30.	68.0	13.83	63.65	-195.34	635.28
35.	67.5	13.20	68.17	-194.37	633.38
40.	67.0	12.33	72.69	-193.45	631.45
45.	67.0	11.69	77.21	-192.58	629.49
50.	68.0	11.13	81.76	-191.76	627.58
55.	67.8	10.18	86.32	-190.99	625.70
60.	67.5	9.94	90.89	-190.26	623.80

MÅLEDATO : 27.9.84

ADD. KONSTANT : 215.500



---DATE.....: 27.9.84

DEVIATION ANGLE.(GRD) DEVIATION. 1059 G

****

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.27	*	.00	.01	.00	.01	2
10.00	.23	-.04	.01	.04	.00	.04	3
15.00	.65	.42	.02	.07	.02	.10	4
20.00	.64	-.02	.00	.18	.07	.19	5
25.00	.15	-.48	.02	.29	.14	.32	6
30.00	.35	.19	.04	.41	.22	.47	7
35.00	.19	-.16	.06	.56	.31	.64	8
40.00	.27	.08	.08	.72	.39	.82	9
45.00	.38	.11	.09	.90	.47	1.02	10
48.00	.31	-.07	.09	1.02	.51	1.15	11

D E V I A T I O N C A L C U L A T I O N.

****

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 1059G
---DATE.....: 27.9.84
---CALCULATION METHOD: LORD ANGLE

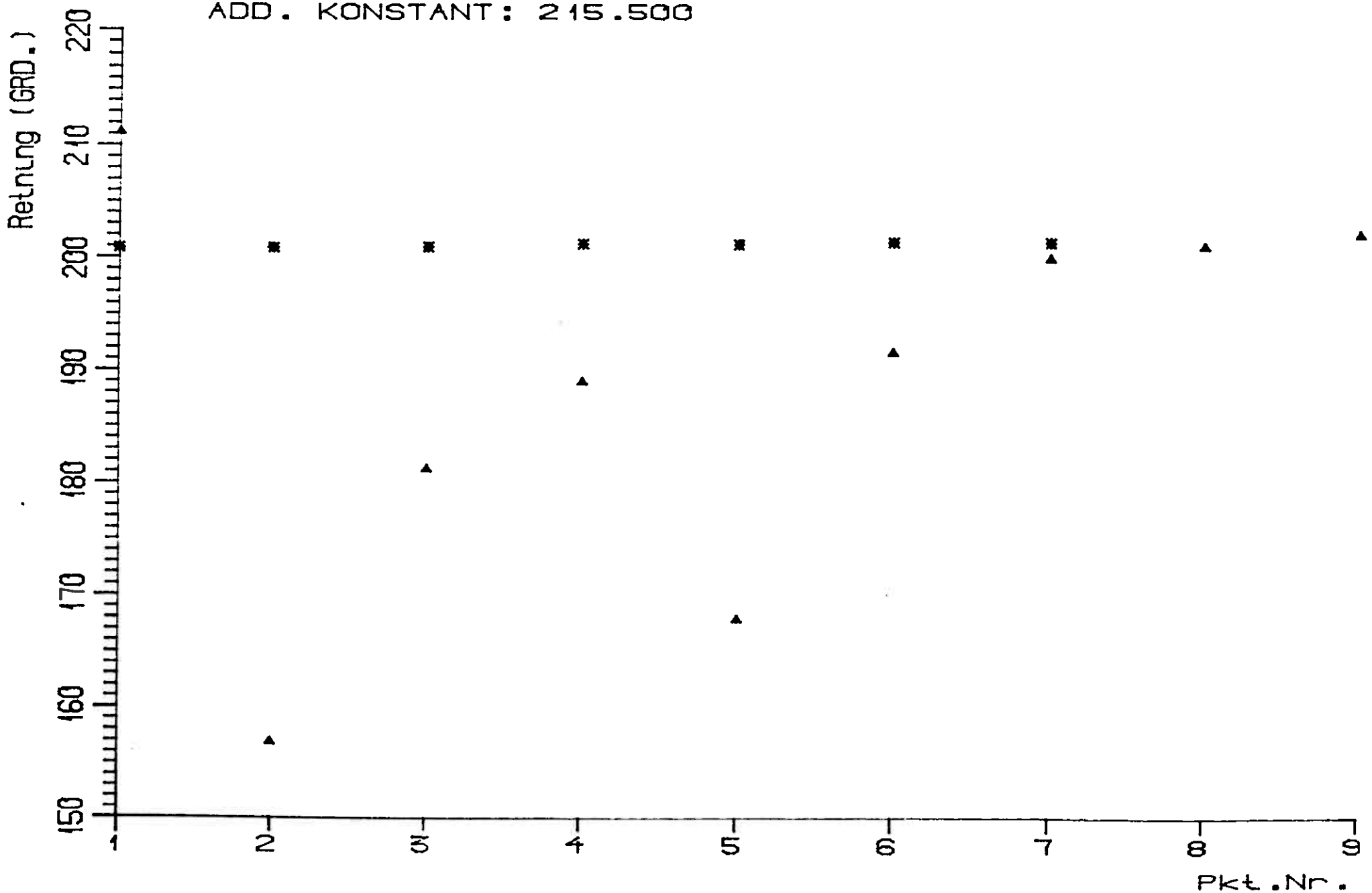
FULLDAL VERK A/S 1059G

MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	55.0	18.79	36.73	-202.12	646.43
5.	55.0	18.45	40.65	-200.94	643.57
10.	55.0	18.17	44.58	-199.78	640.79
15.	54.5	17.74	48.56	-198.65	637.81
20.	54.0	17.36	52.48	-197.54	634.89
25.	54.0	17.17	56.39	-196.46	631.95
30.	53.8	16.83	60.28	-195.39	629.01
35.	53.8	16.60	64.09	-194.34	626.09
40.	53.8	16.26	67.99	-193.31	623.10
45.	54.0	15.88	71.91	-192.31	620.16
48.	54.0	15.50	74.26	-191.71	618.39

BORHULL NR : 1060G

MÅLEDATO : 10.10.84

ADD. KONSTANT : 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE (GRD) DEVIATION. 1060 G

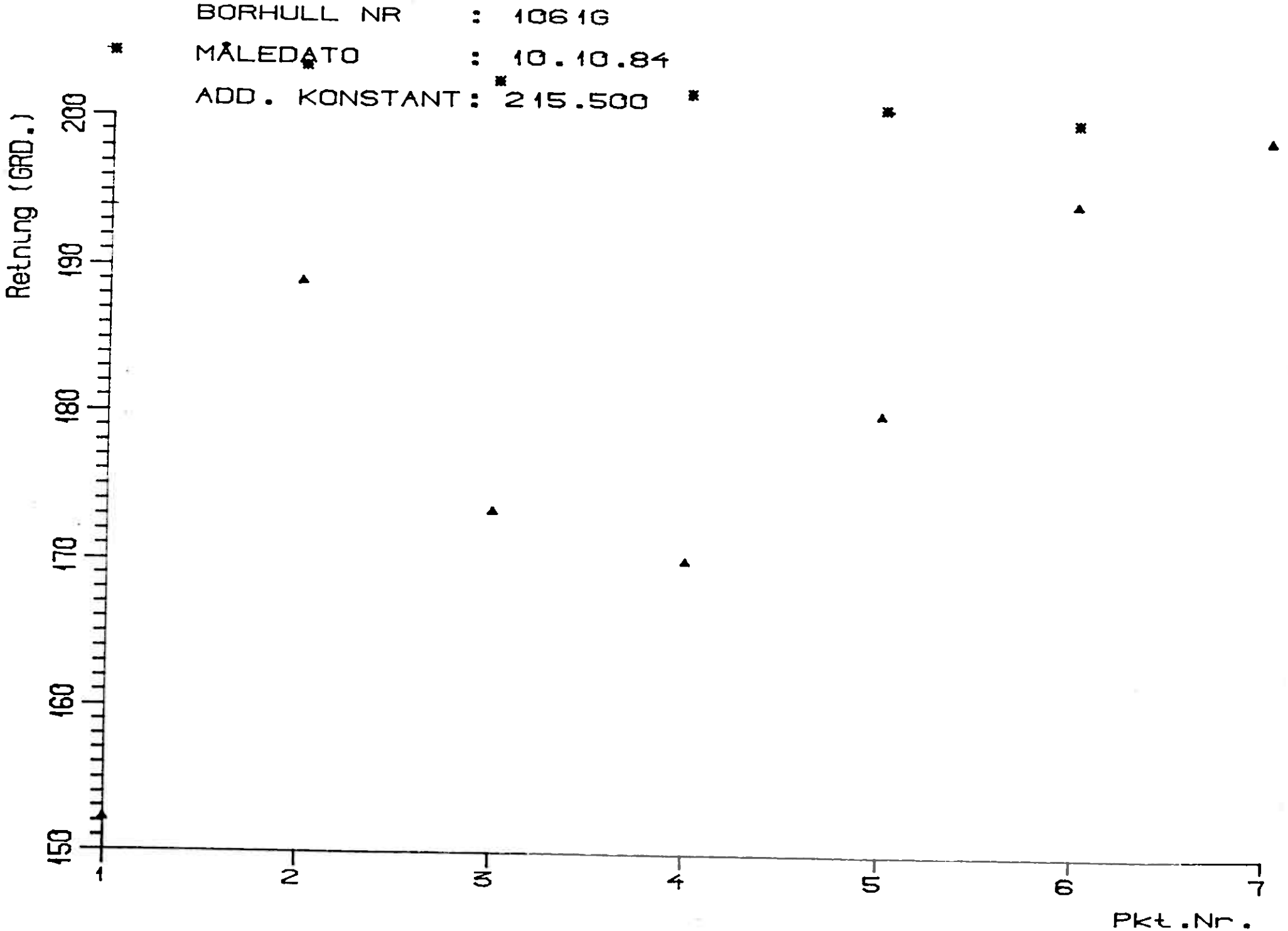
DEPTH	DEV. ANGLE	DIF.	DX	DY	DZ	TOT. DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.24	*	.00	.00	.01	.01	2
10.00	.12	-.12	.01	.01	.02	.02	3
15.00	.29	.17	.02	.01	.03	.04	4
20.00	.01	-.28	.04	.01	.04	.05	5
25.00	.23	.21	.05	.03	.06	.08	6
30.00	.22	.00	.07	.06	.08	.12	7
35.00	.94	.72	.12	.07	.13	.19	8
40.00	.89	-.05	.19	.10	.22	.31	9

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 106B6
---DATE.....: 10.10.84
---CALCULATION METHOD: CURVATURE

FULLDAL VERK A/S 106B6

MEASURED DEPTH (M)	INCLINATION 360 DEG	AZIMUTH 400 GRD	X-KOORD (M)	Y-KOORD (M)	Z-KOORD (M)
0.	54.2	16.45	36.80	-203.38	646.01
5.	54.0	16.33	40.71	-202.35	643.08
10.	54.1	16.39	44.63	-201.32	640.14
15.	54.0	16.72	48.54	-200.28	637.21
20.	54.0	16.72	52.45	-199.23	634.27
25.	54.0	17.00	56.35	-198.17	631.33
30.	53.8	17.00	60.25	-197.10	628.38
35.	53.9	16.61	64.12	-196.05	625.40
40.	54.0	17.72	67.97	-194.99	622.39


BORHULL NR : 1061G
MÅLEDATO : 10.10.84
ADD. KONSTANT : 215.500
Retning (GRD.)
200
190
180
170
160
150
1
2
3
4
5
6
7
Pkt.Nr.

---DATE.....: 10.10.84

DEVIATION ANGLE (GRD) DEVIATION: 1061 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	PUNKT
.00	*	*	.00	.00	.00	.00	1
5.00	.28	*	.01	.03	.01	.03	
10.00	.42	-.15	.02	.10	.04	.11	3
15.00	.47	-.15	.02	.22	.07	.23	4
20.00	.57	.10	.01	.37	.10	.39	5
25.00	.61	.04	.00	.57	.13	.59	6
30.00	.68	.07	.01	.82	.18	.84	7

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 1061G
---DATE.....: 10.10.84
---CALCULATION METHOD: LUND ANGLE

FULLDAL VERK A/S 1061G

MEASURED DEPTH (M)	INCLINATION	AZIMUTH 360 DEG 400 GRD	COMPUTED DATA X-KOORD (M)	Y-KOORD (M)	Z-KOORD (M)
0.	34.5	19.79	36.00	-203.38	646.02
5.	33.0	18.91	39.61	-202.43	642.15
10.	35.0	17.92	42.83	-201.53	638.26
15.	33.9	17.17	45.80	-200.68	634.38
20.	35.9	16.25	48.29	-199.86	630.49
25.	38.6	15.34	51.34	-199.09	626.60
30.	34.5	14.39	54.98	-198.37	622.70

BORHULL NR : 1064G

MÅLEDATO : 27.9.84

ADD. KONSTANT : 215.500

---DATE.....: 27.9.84

DEVIATION TOOL E.(GRD) DEVIATION: 1064

DEPTH	DEV.TOOLF	DIF.	DX	DY	DZ	TOT.DEV.	POINT #
.00	*	*	.00	.00	.00	.00	1
5.00	.53	*	.51	.02	.00	.02	2
10.00	.29	-.35	.12	.03	.00	.04	3
15.00	.45	.16	.04	.12	.00	.18	4
20.00	.41	-.04	.02	.29	.00	.30	5
25.00	.77	.36	.09	.45	.01	.46	6
30.00	.91	.15	.11	.55	.03	.67	7
35.00	.35	-.56	.14	.92	.05	.93	8
40.00	.59	.23	.17	1.20	.08	1.21	9

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FOLLDAL VEN. 8/5
---HOLE NO.....: 10646
---DATE.....: 27.9.84
---CALCULATION METHOD: CURV ANGLE

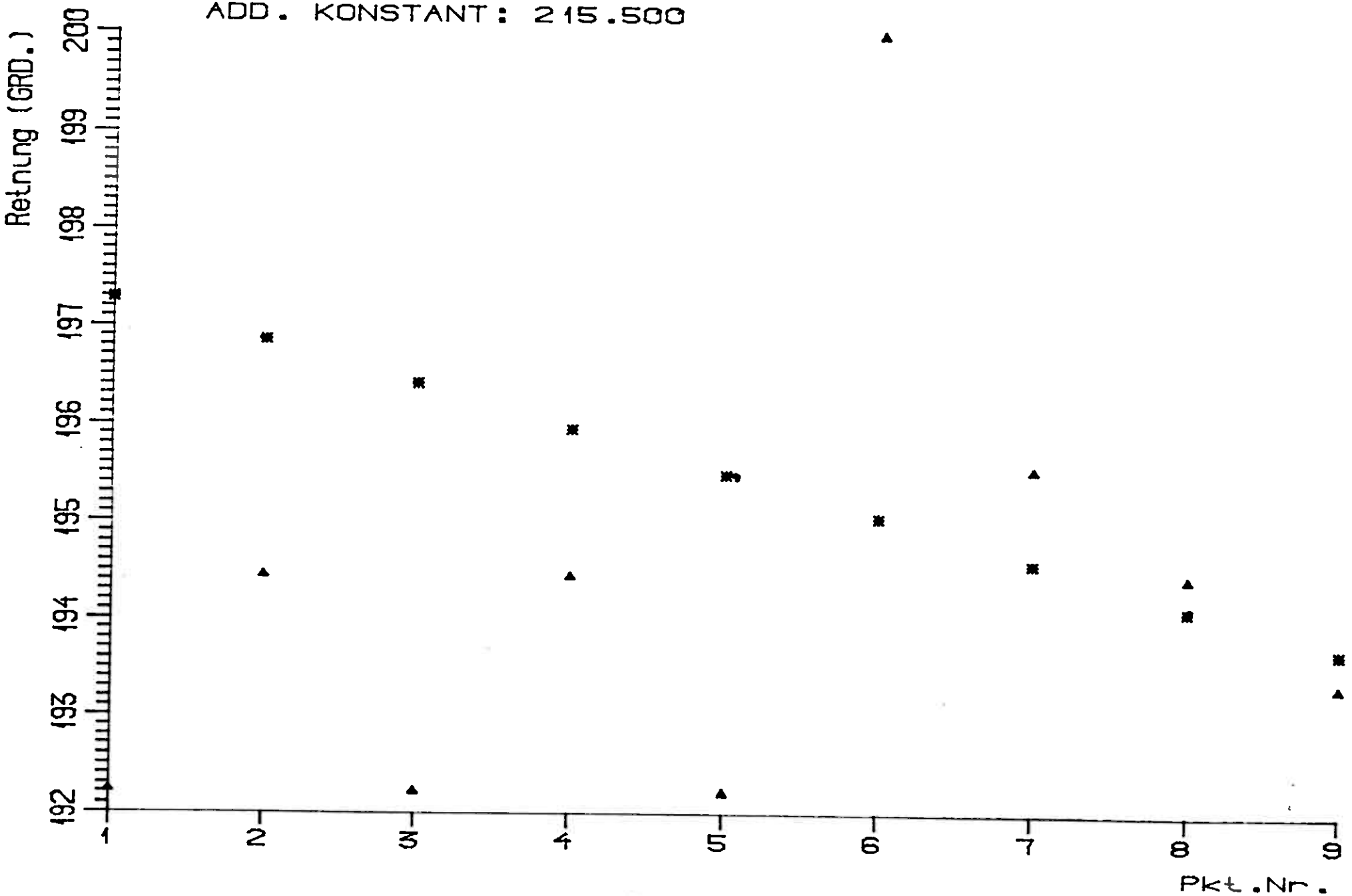
FOLLDAL VENN 8/5 10646

MEASURED DEPTH (M)	MEASURED INCLINATION 360 DEG 400 GRD	MEASURED AZIMUTH 360 DEG 400 GRD	COMPUTED DATA X-COORD (M)	COMPUTED DATA Y-COORD (M)	COMPUTED DATA Z-COORD (M)
0.	40.0	215.98	32.03	-203.38	646.12
5.	40.0	214.99	29.55	-204.07	642.29
10.	40.0	214.55	26.44	-204.81	638.46
15.	40.0	213.85	23.38	-205.52	634.63
20.	40.0	213.21	20.15	-206.20	630.80
25.	39.5	212.39	17.03	-206.84	626.96
30.	39.8	211.66	13.84	-207.42	623.11
35.	39.5	210.87	10.45	-207.97	619.26
40.	39.5	209.96	6.93	-208.49	615.40

BORHULL NR : 1066G

MÅLEDATO : 10.10.84

ADD. KONSTANT : 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE.(GRD) DEVIATION. 1066G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.42	*	.00	.02	.00	.02	2
10.00	.43	.07	.01	.07	.01	.07	3
15.00	.45	-.04	.02	.15	.03	.15	4
20.00	.51	.06	.05	.27	.03	.27	5
25.00	1.19	.68	.07	.42	.08	.43	6
30.00	.46	-.73	.08	.61	.16	.64	7
35.00	.43	.03	.10	.84	.25	.88	8
40.00	.42	-.06	.13	1.10	.34	1.15	9

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FÜLLDAL VERK A75
---HOLE NO.....: 10666
---DATE.....: 10.10.84
---CALCULATION METHOD: LORD ANGLE

FULLDAL VERK A75 10666

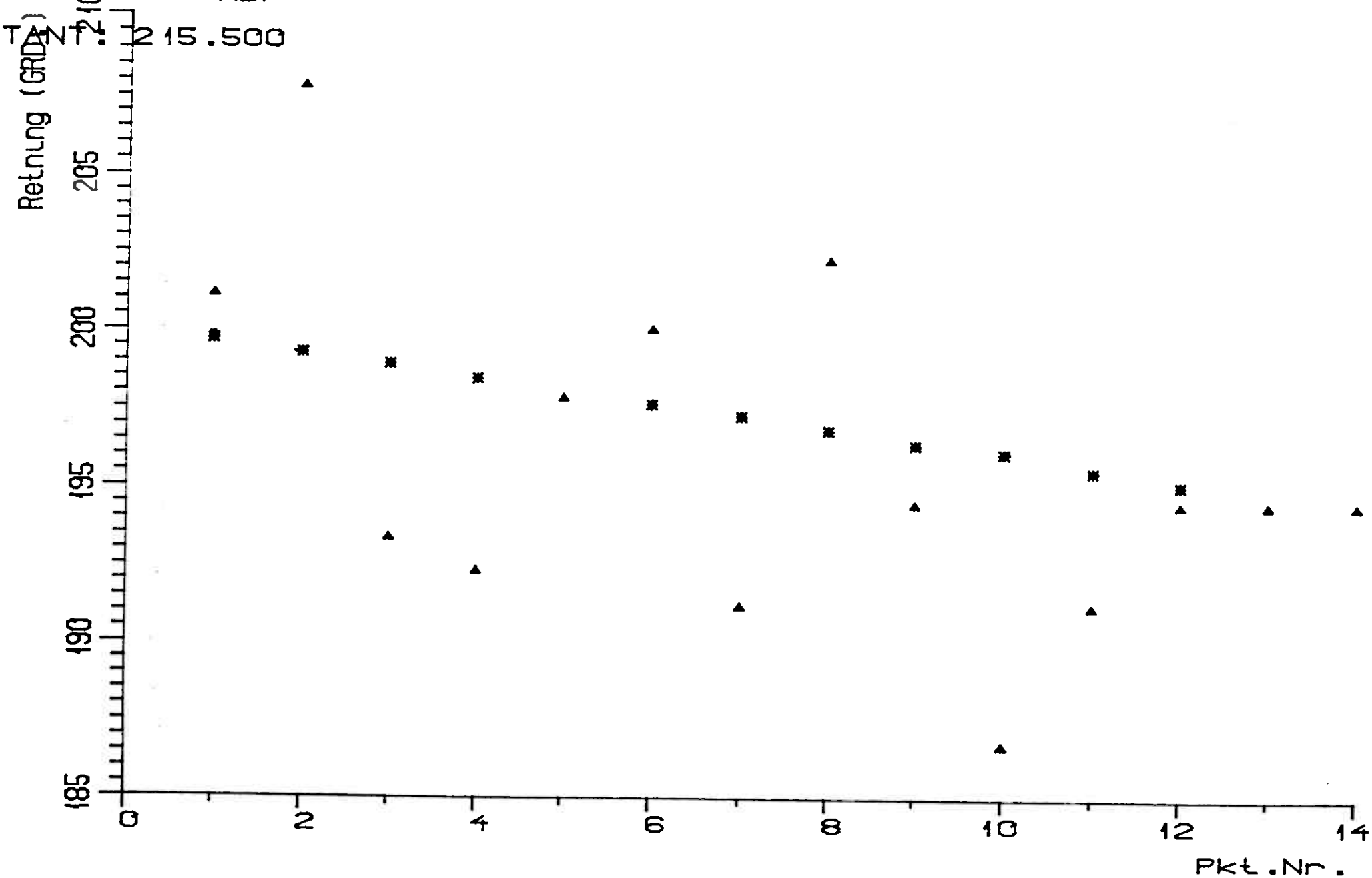
MEASURED DEPTH (M)	INCLINATION 360 DEG	INCLINATION 400 GRD	AZIMUTH	X-KOORD (M)	Y-KOORD (M)	Z-KOORD (M)
0.	79.0	12.79	351.42	-216.53		647.86
5.	79.0	12.36	44.23	-215.56		646.70
10.	78.8	11.92	43.85	-214.63		645.74
15.	78.8	11.46	53.87	-213.74		644.77
20.	78.9	11.00	58.78	-212.88		643.81
25.	78.9	10.57	61.54	-212.05		642.81
30.	79.0	10.16	58.46	-211.25		641.77
35.	79.0	9.81	43.19	-210.51		640.73
40.	78.8	9.20	28.82	-209.79		639.68

BORHULL NR : 1067G

MÅLEDATO : 10.10.84

ADR4

INSTANT: 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE (GRD) DEVIATION. 10676

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.46	*	.00	.02	.00	.02	2
10.00	.34	-.12	.02	.07	.00	.07	3
15.00	.45	.11	.03	.14	.00	.15	4
20.00	.62	.17	.05	.25	.00	.27	5
25.00	.15	-.47	.08	.41	.00	.42	6
30.00	1.16	1.01	.12	.58	.04	.59	7
35.00	.41	-.75	.13	.78	.12	.80	8
40.00	1.19	.78	.13	1.02	.25	1.05	9
45.00	.24	-.95	.13	1.28	.41	1.35	10
50.00	.53	.29	.13	1.58	.57	1.68	11
55.00	.33	-.15	.13	1.91	.73	2.05	12
60.00	.63	.24	.14	2.28	.90	2.45	13
62.00	.01	-.61	.15	2.43	.96	2.62	14

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDHL VERK A/S
---HOLE NO.....: 10676
---DATE.....: 10.10.84
---CALCULATION METHOD: LORD ANGLE

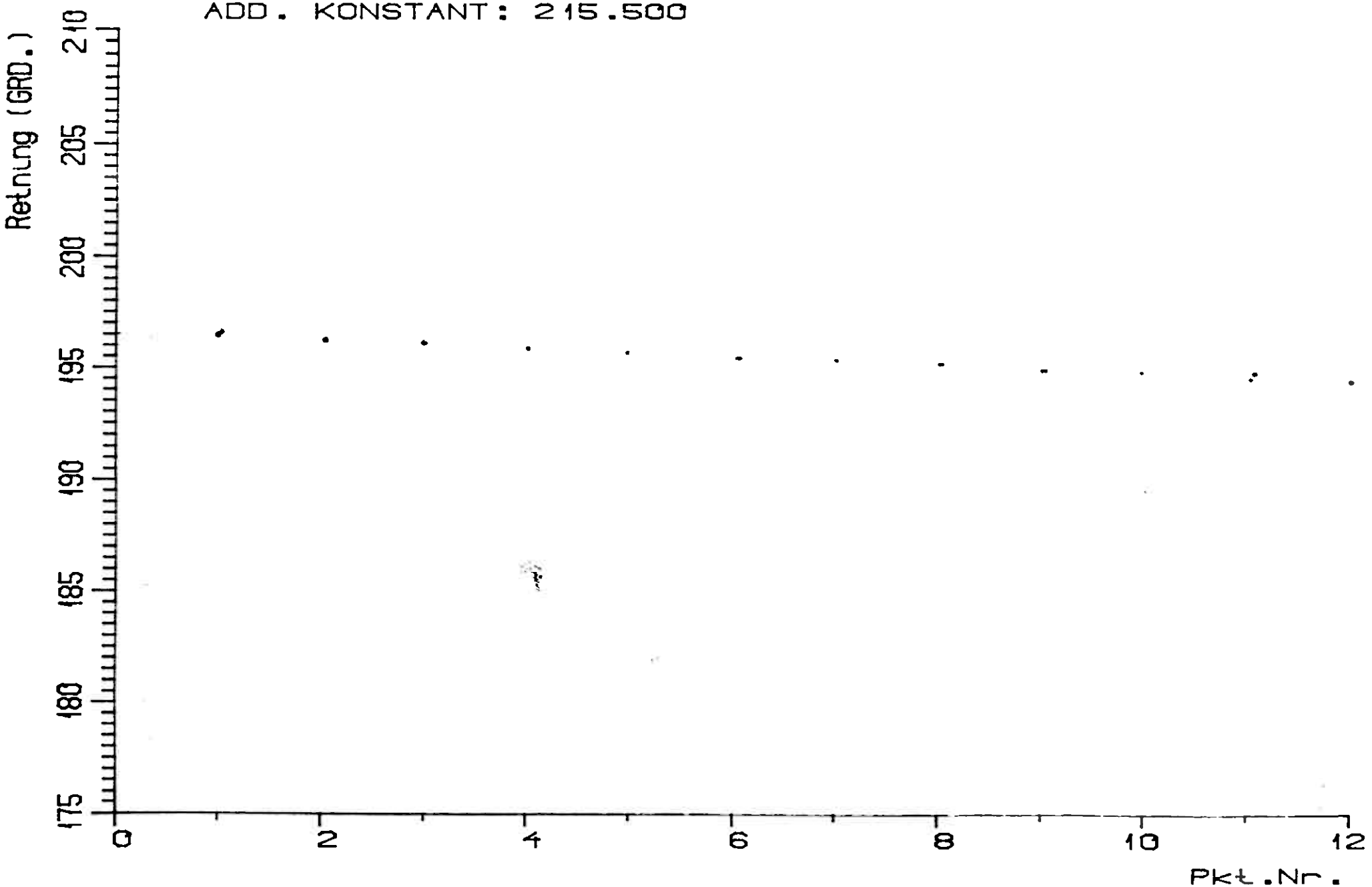
FULLDHL VERK A/S 10676

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	70.0	15.25	33.39	-210.40	647.57
5.	70.0	14.77	43.35	-215.30	645.86
10.	70.0	14.41	48.53	-214.23	644.15
15.	70.0	13.93	53.11	-213.19	642.44
20.	70.0	13.28	57.20	-212.20	640.73
25.	70.0	13.12	62.30	-211.23	639.02
30.	69.0	12.76	66.89	-210.28	637.27
35.	69.0	12.33	71.47	-209.37	635.47
40.	68.0	11.87	76.03	-208.49	633.64
45.	68.0	11.61	80.59	-207.64	631.77
50.	68.0	11.04	85.15	-206.82	629.90
55.	68.0	10.62	89.72	-206.04	628.02
60.	68.0	9.94	94.30	-205.29	626.15
62.	68.0	9.94	96.13	-205.00	625.40

BORHULL NR : 1068G

MÅLEDATO : 10.10.84

ADD. KONSTANT : 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE.(GRD) DEVIATION. 1068G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.36	*	.00	.01	.00	.01	2
10.00	.11	-.25	.01	.05	.00	.05	3
15.00	.20	.09	.02	.13	.00	.09	4
20.00	.16	-.04	.03	.15	.00	.15	5
25.00	.29	.13	.04	.22	.01	.22	6
30.00	.34	.05	.03	.30	.03	.31	7
35.00	.13	-.21	.02	.40	.07	.40	8
40.00	.22	.09	.02	.50	.10	.52	9
45.00	.07	-.16	.01	.62	.14	.64	10
50.00	.25	.18	.01	.75	.17	.77	11
55.00	.07	-.18	.01	.90	.21	.92	12

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLBAL VER. 8/5
---HOLE NO.....: 10686
---DATE.....: 10.10.84
---CALCULATION METHOD: CURVATURE

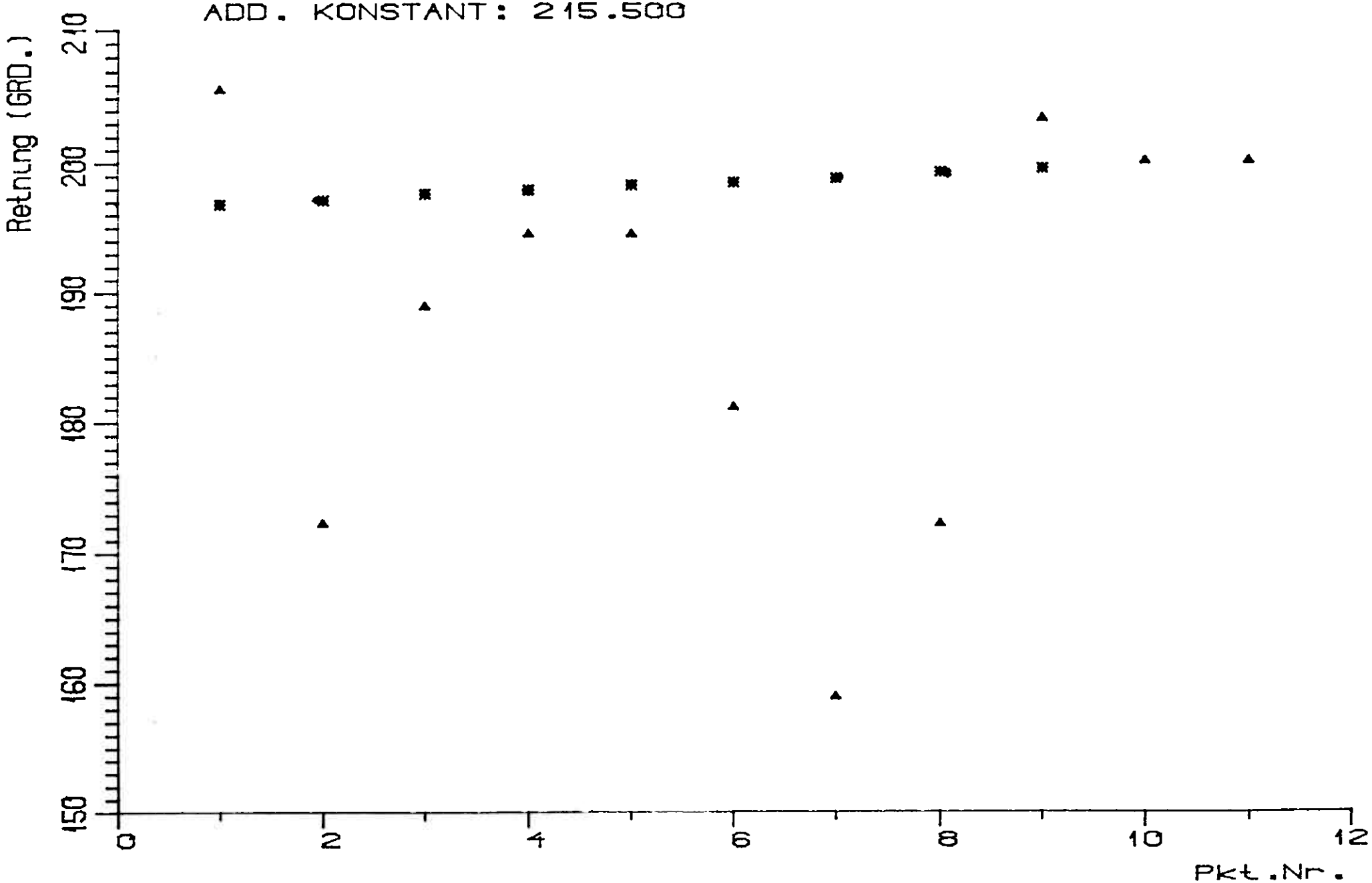
FULLBAL VER. 8/5 10686

MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG 400 GRD		(M)	(M)	(M)
0.	54.8	12.1/	39.49	-216.59	647.26
5.	54.8	11.22	43.13	-215.84	644.37
10.	54.8	11.58	46.80	-215.10	641.39
15.	54.8	11.33	50.48	-214.38	638.44
20.	54.8	11.14	54.17	-213.67	635.50
25.	53.8	10.92	57.79	-212.97	632.56
30.	53.5	10.83	61.43	-212.29	629.59
35.	53.5	10.67	65.06	-211.61	626.64
40.	53.5	10.39	71.14	-210.95	623.54
45.	53.5	10.31	75.11	-210.30	620.67
50.	53.5	10.00	79.08	-209.66	617.70
55.	53.5	9.92	83.05	-209.03	614.72

BORHULL NR : 1069G

MÅLEDATO : 10.10.84

ADD. KONSTANT: 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE (GRD) DEVIATION 1069 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.21	*	.01	.01	.00	.01	2
10.00	.34	.13	.01	.04	.00	.04	3
15.00	.20	-.13	.02	.03	.00	.09	4
20.00	.27	.07	.03	.15	.00	.16	5
25.00	.14	-.13	.05	.24	.00	.24	6
30.00	.60	.47	.08	.33	.02	.34	7
35.00	.33	-.27	.14	.44	.05	.47	8
40.00	.59	.26	.22	.57	.09	.62	9
45.00	.95	.36	.29	.72	.13	.79	10
47.00	.01	-.94	.31	.79	.13	.86	11

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLUHL VERK A/S
---HOLE NO.....: 10696
---DATE.....: 10.10.84
---CALCULATION METHOD: CURVE ANGLE

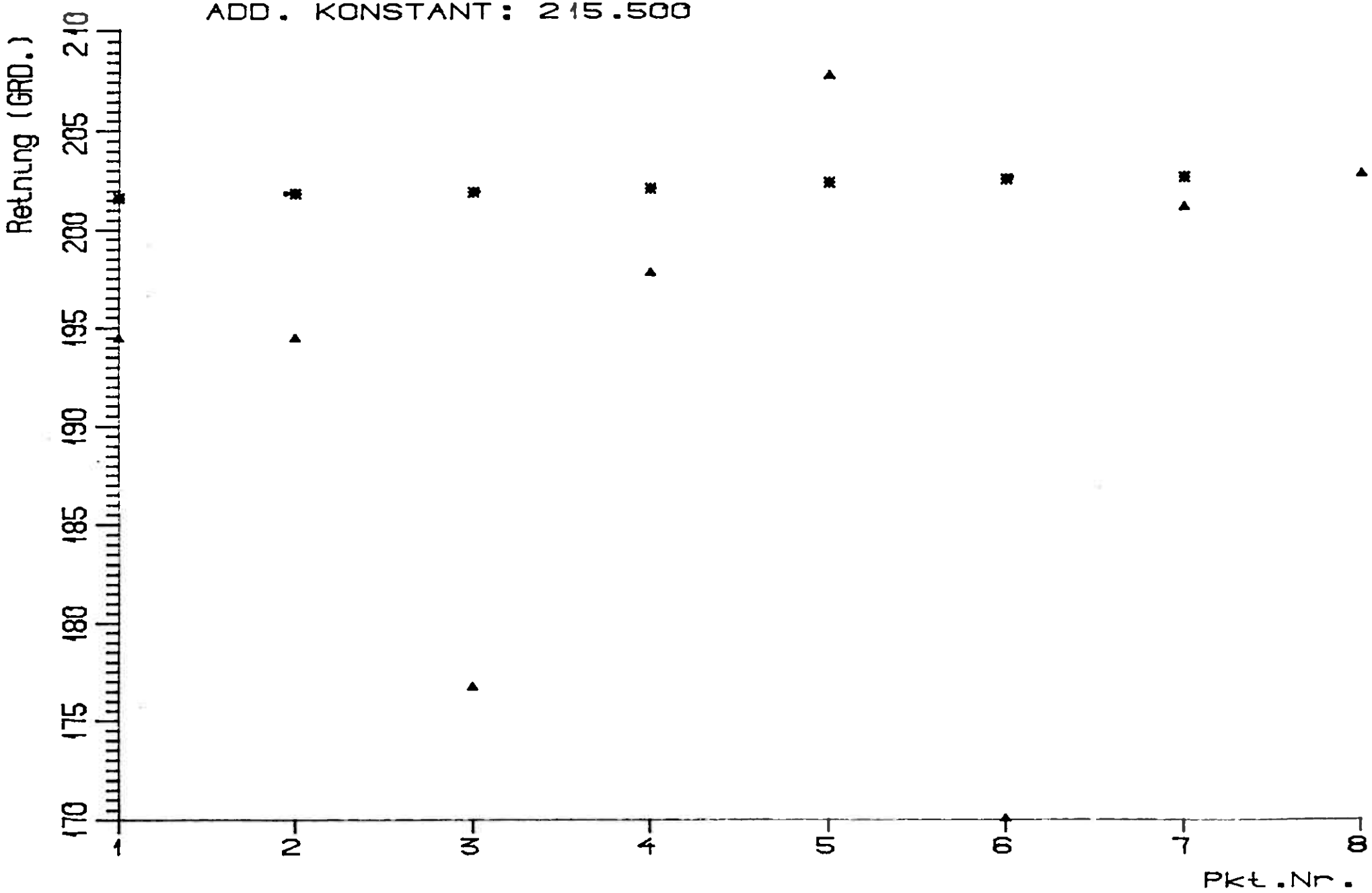
FULLUHL VERK A/S 10696

MEASURED DEPTH (M)	INCLINATION 360 DEG 400 GRD	AZIMUTH 360 DEG 400 GRD	COMPUTED DATA X-COORD (M)	Y-COORD (M)	Z-COORD (M)
0.	45.0	12.31	0.00	-216.58	647.21
5.	45.0	12.60	42.81	-215.99	643.67
10.	45.0	13.87	45.27	-215.19	640.14
15.	45.0	13.36	48.23	-214.46	636.60
20.	45.0	13.74	51.19	-213.71	633.06
25.	44.0	13.93	56.64	-212.95	629.53
30.	44.5	14.26	60.04	-212.18	625.98
35.	44.5	14.74	63.43	-211.39	622.41
40.	44.0	15.02	66.88	-210.58	618.83
45.	44.5	15.56	70.28	-209.75	615.25
47.	44.5	15.56	71.65	-209.41	613.84

BORHULL NR : 1070G

MÅLEDATO : 10.10.84

ADD. KONSTANT : 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE.(GRD) DEVIATION. 1070G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.36	*	.00	.01	.00	.01	2
10.00	.11	-.24	.02	.04	.00	.04	3
15.00	.14	.02	.02	.05	.00	.06	4
20.00	.13	-.01	.03	.07	.00	.08	5
25.00	.07	-.06	.04	.08	.00	.08	6
30.00	.56	.49	.01	.09	.01	.09	7
35.00	.06	-.49	.04	.10	.02	.10	8

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK H/S
---HOLE NO.....: 10706
---DATE.....: 10.10.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK H/S 10706

MEASURED DEPTH (M)	INCLINATION 360 DEG	INCLINATION 400 GRD	AZIMUTH	COMPUTED DATA X-COORD (M)	Y-COORD (M)	Z-COORD (M)
0.	26.0	18.15	39.25	-216.52		647.12
5.	26.0	17.34	41.36	-215.92		642.63
10.	26.1	17.40	43.48	-215.33		638.13
15.	26.0	17.60	45.53	-214.73		633.64
20.	26.0	17.88	47.70	-214.13		629.15
25.	26.0	18.04	49.82	-213.52		624.65
30.	25.5	18.13	51.84	-212.91		620.15
35.	25.5	18.28	53.96	-212.30		615.64

---DATE.....: 10.10.84

DEVIATION ANGLE.(GRD) DEVIATION. /071 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.00	*	.00	.00	.00	.00	2
10.00	1.11	1.11	.04	.00	.01	.04	3
15.00	.56	-.56	.11	.01	.02	.11	4

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK H/S
---HOLE NO.....: 10716
---DATE.....: 10.10.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK H/S 10716

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-KOORD	Y-KOORD	Z-KOORD
(M)	400 DEG	400 GRD	(M)	(M)	(M)
0.	9.0	4.67	38.83	-216.55	640.89
5.	9.0	4.67	39.61	-216.49	641.91
10.	10.0	4.67	40.44	-216.43	636.98
15.	9.5	4.67	41.28	-216.37	632.05

BORHULL NR : 1072G

MÅLEDATO : 10.10.84

ADD. KONSTANT : 215.500

---DATE.....: 10.10.84

DEVIATION ANGLE.(GRD) DEVIATION. 1072 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	.01	*	.00	.00	.00	.00	2
10.00	.31	.30	.00	.01	.00	.01	3
15.00	.19	-.12	.01	.04	.00	.04	4
20.00	.19	.00	.02	.09	.00	.09	5
25.00	.22	.03	.04	.15	.00	.15	6
30.00	.16	-.06	.05	.22	.00	.23	7
35.00	.31	.15	.08	.31	.00	.32	8
40.00	.92	.60	.10	.43	.03	.44	9

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK
---HOLE NO.....: 10726
---DATE.....: 10.10.84
---CALCULATION METHOD: LONG ANGLE

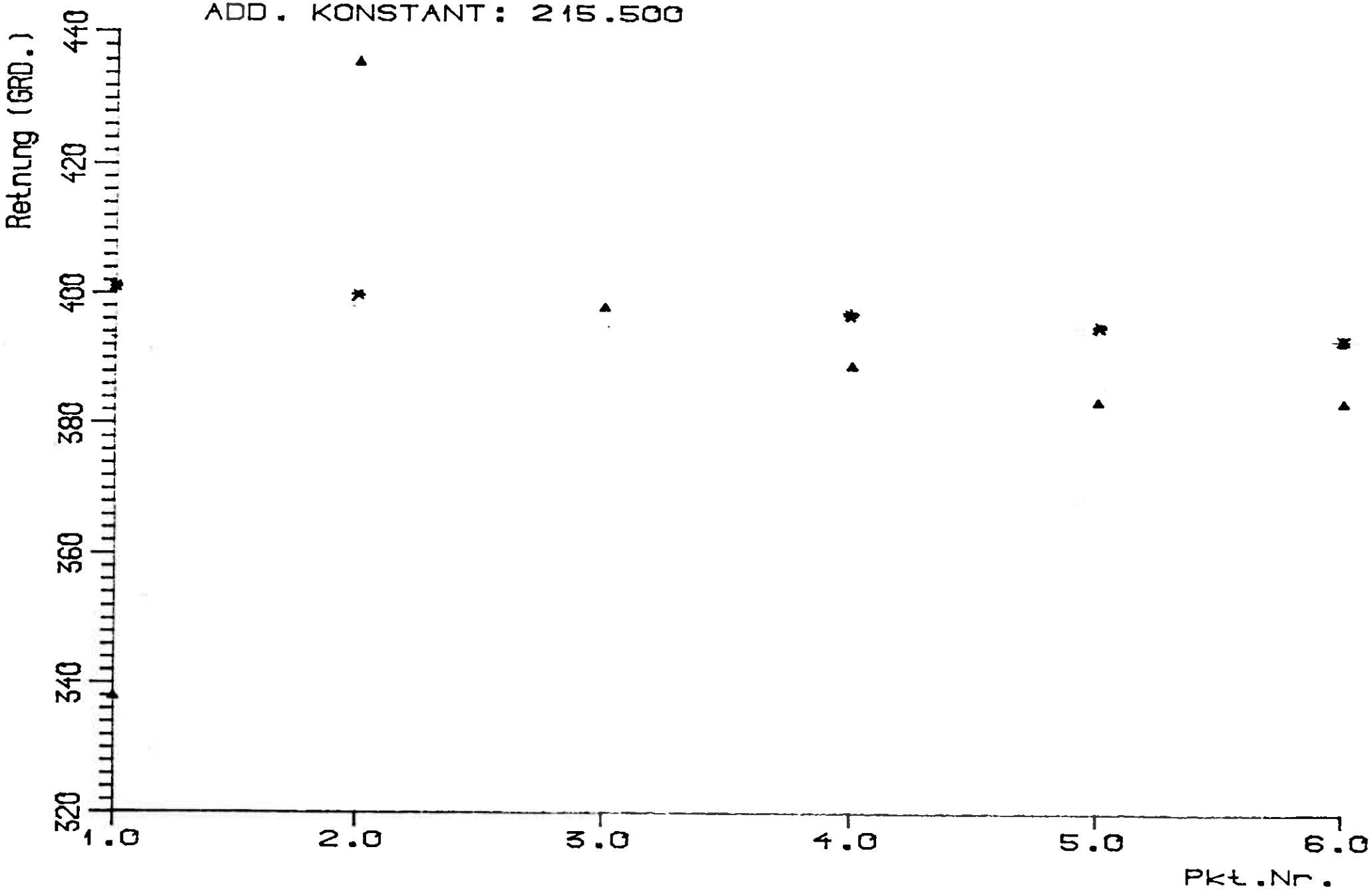
FULLDAL VERK 10726

MEASURED DATA			COMPUTED DATA		
MEASURED DEPTH	INCLINATION	AZIMUTH	X-COORD	Y-COORD	Z-COORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	102.0	14.99	39.48	-216.49	648.50
5.	102.0	14.99	44.24	-215.35	649.53
10.	102.0	15.31	48.99	-214.19	650.57
15.	102.0	15.50	53.74	-213.02	651.61
20.	102.0	15.69	58.49	-211.84	652.65
25.	102.0	15.91	63.23	-210.64	653.69
30.	102.0	16.07	67.95	-209.42	654.73
35.	102.0	16.39	72.70	-208.19	655.77
40.	101.2	16.61	77.43	-206.93	656.78

BORHULL NR : 1075G

MÅLEDATO : 10.10.84

ADD. KONSTANT : 215.500



---DATE.....: 10.10.84

DEVIATION ANGLE (GRD) DEVIATION 1075 G

DEPTH	DEV.ANGLE	DIF.	DX	DY	DZ	TOT.DEV.	POINT
.00	*	*	.00	.00	.00	.00	1
5.00	1.15	*	.01	.04	.00	.04	2
10.00	1.07	-.08	.04	.17	.00	.18	3
15.00	1.28	.21	.02	.39	.01	.40	4
20.00	1.19	-.09	.12	.70	.03	.71	5
25.00	1.16	-.02	.14	1.09	.04	1.11	6

D E V I A T I O N C A L C U L A T I O N.

---NAME.....: FULLDAL VERK A/S
---HOLE NO.....: 1075G
---DATE.....: 10.10.84
---CALCULATION METHOD: CORD ANGLE

FULLDAL VERK A/S 1075G

MEASURED DEPTH	MEASURED DATA: INCLINATION	MEASURED DATA: AZIMUTH	COMPUTED DATA: X-COORD	COMPUTED DATA: Y-COORD	COMPUTED DATA: Z-COORD
(M)	360 DEG	400 GRD	(M)	(M)	(M)
0.	39.4	216.61	34.48	-217.28	647.19
5.	39.0	214.79	32.43	-218.05	643.30
10.	39.0	213.10	29.85	-218.73	639.42
15.	38.5	211.25	26.28	-219.33	635.52
20.	38.8	209.43	23.29	-219.83	631.61
25.	38.8	207.57	20.10	-220.25	627.72