



MS
Norex AS
Postboks 70
N - 8230 SULITJELMA

A/S Bidjovagge Gruber
Boks 160
9520 Kautokeino

Sulitjelma, 13-07-1990

17. JUL 1990

VEDR: AVVIKSMÅLING AV DIAMANTBORHULL

Vedlagt følger vår endelige rapport fra avviksmålingen av borhullene.

Jeg beklager at rapporteringen har tatt såpass lang tid, men dette skyldes at vi var avhengig av å prosessere data i Bergen, innimellom vårt arbeide der.

Jeg håper at resultatet er tilfredsstillende, og takker for oppdraget.

Vennlig hilsen
Norex AS

Rune Stien
Rune Stien

Tlf: +47 81 40700
Telefax: +47 81 40305
Telex: 64065 SUA-N

Mobiltelefoner:
Perry: 090 94636 Olav: 090 94634
Rune: 090 94637

Bank: 4555.05.01515
Sparebanken Nordland
N - 8200 FAUSKE

A/S Bidjovagge Gruber
Boks 160
9520 Kautokeino

Sulitjelma, 13-07-1990

VEDR: AVVIKSMÅLING AV DIAMANTBORHULL

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Vennlig hilsen
Norex AS

Rune Stien

NOREX ASPostboks 70
N 8230 Sulitjelma

Faktura nr. 0045

Sulitjelma, 13. juli 1990

A/S Bidjovagge GruberPostboks 160
9520 KautokeinoDeres ref: Markus Ekberg
Bestilling av 18.05.1990

Vår ref: Rune Stien

AVVIKSMÅLING AV DIAMANTBORHULL

Måling av borhull inkl. rapportering: 5 dager à 5.000,-	kr 25.000,-
Instrumentleie: 5 dager à 2.500,-	kr 12.500,-
Reise/transport: 2 reisedager à 3.500,- og 2 dager 50% instr.leie à kr 1.250,-	kr 9.500,-
Kjøring T/R Sulitjelma - Bidjovagge totalt 1.734 km à kr. 3,-	kr 5.202,-
Diett 7 døgn à 385,-	kr. 2.695,-
Fergebilletter	kr 92,-
Bompenger	kr 80,-
<hr/>	
Sum	kr 55.069,-
20% moms	kr 11.013,80
<hr/>	
Totalt	kr 66.082,80
=====	

Bank: 4555.05.01515
Sparebanken Nordland
N - 8200 FauskeTlf.: 081 - 40700
Telefax: 081 - 40305
Telex: 64065Forfallsdato: 27.07.90
Ved betaling etter forfall
påløper 2% rente pr. mnd.

Sulitjelma, 13-07-1990

Rapport
vedrørende avviksmåling
av 12 diamantborhull
i
Bidjovagge

6. - 10. juni 1990

Tlf: +47 81 40700
Telefax: +47 81 40305
Telex: 64065 SUA-N

Mobiltelefoner:
Perry: 090 94636 Olav: 090 94634
Rune: 090 94637

Bank: 4555.05.01515
Sparebanken Nordland
N - 8200 FAUSKE

Avviksmåling av diamantborhull 6. - 10. juni 1990

Det ble i dagene 6. - 10. juni 1990 avviksmålt tilsammen 12 diamantborhull i graven i Bidjovagge, nærmere bestemt i C-bilstollen.

Gjennomføring

Det ble benyttet instrumentet Reflex Fotobor ved målingene. Vi forsøkte først å slippe instrumentet ned i hullene ved hjelp av vinsj, men på grunn av stort vanntrykk i hullene gikk ikke dette. En liten diamantbormaskin fra Terje O. Holmen ble deretter flyttet fra profil til profil og instrumentet ble ført ned i hullene ved hjelp av denne.

Stort sett ble alle hull målt med 3 m mellom hvert målepunkt, men enkelte ble også målt med 6 m mellom målepunktene. Dette går fram av koordinatlistene for hvert enkelt hull.

Resultater

Alle hulldata er presentert i denne rapporten som koordinater, retningsvinkel og fallvinkel for hvert målepunkt. I tillegg har jeg plottet ut en horisontalprojeksjon og en vertikalprojeksjon av hvert hull. Vertikalprojeksjonen har samme retning som hullets utgangsretning.

Hull 144I ble målt bare til 42 m, da dette ikke var ferdigboret. Har brukt de samme koordinater i startpunktet som hull 144G.

Hull 142B ble målt til 111 m, da var hullet tett, trolig av ras.

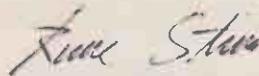
Hull 144G ble målt til 144 m. Da røk fjellfestet til bormaskinen og målingen måtte avbrytes.

Hull 146A måtte avbrytes ved 123 m, da det skulle skytes i bilstollen.

Hull 148K ble målt til 165 m, da var det ikke flere diamantborrør på borplassen.

Forøvrig vises til koordinatlistene og plot.

Sulitjelma, 13. juli 1990,
Norex AS


Rune Stien

PROFIL
51420

DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 08.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S142B
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1422.03	806.66	557.3	43.29	88.11

POSITION AT 120 M

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1419.12	897.5	478.99	39.32	88.3

LOCAL COORDINATES AT 120 M

Y-LOC= .06 M TO THE RIGHT
Z-LOC= 5.34 M UPWARDS

RESULTS

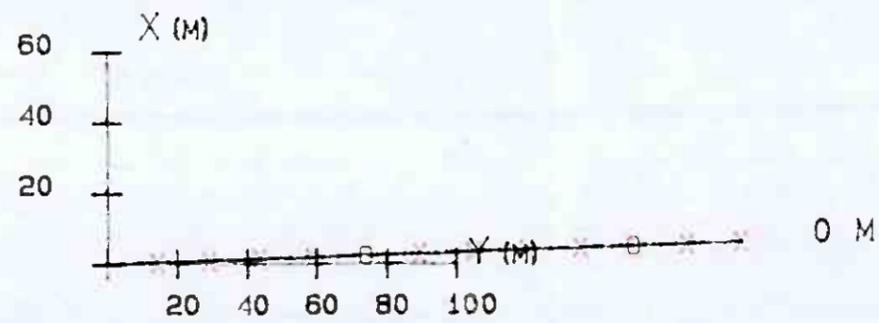
STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1422.03	806.66	557.3	43.29	88.11
3	-1421.96	808.84	555.24	43.29	88.11
6	-1421.89	811.02	553.18	43.16	88.14
9	-1421.82	813.21	551.13	43.1	88.11
12	-1421.75	815.4	549.08	43.05	88.1
15	-1421.68	817.59	547.03	42.98	88.1
* 15	10.93	-.01	.03		
18	-1421.6	819.78	544.98	42.95	88.1
21	-1421.53	821.97	542.94	42.88	88.09
24	-1421.46	824.17	540.9	42.35	88.1
27	-1421.38	826.39	538.88	42.46	88.06
30	-1421.31	828.6	536.85	42.35	88.04
* 30	21.95	-.01	.17		
33	-1421.23	830.81	534.83	41.61	88.09
36	-1421.15	833.06	532.84	41.04	88.01
39	-1421.07	835.32	530.87	39.9	87.95
42	-1420.99	837.62	528.94	39.6	87.86
45	-1420.91	839.93	527.03	39.64	87.94
* 45	33.29	-.04	.8		
48	-1420.82	842.24	525.12	39.65	87.99
51	-1420.75	844.54	523.2	39.65	88.09
54	-1420.67	846.85	521.29	39.7	88.11
57	-1420.6	849.16	519.37	39.76	88.13
60	-1420.52	851.46	517.45	39.76	88.15
* 60	44.83	-.05	1.75		
63	-1420.45	853.77	515.53	39.75	88.16
66	-1420.38	856.07	513.62	39.86	88.18
69	-1420.3	858.38	511.69	39.82	88.18
72	-1420.23	860.68	509.77	39.83	88.2

75	-1420.16	862.98	507.85	39.81	88.21
* 75	56.35	-.03	2.66		
78	-1420.09	865.28	505.93	39.79	88.22
81	-1420.02	867.59	504.01	39.65	88.22
84	-1419.94	869.9	502.09	39.7	88.22
87	-1419.87	872.2	500.18	39.66	88.23
90	-1419.8	874.51	498.26	39.81	88.23
* 90	67.89	-.01	3.6		
93	-1419.73	876.82	496.34	39.94	88.25
96	-1419.66	879.11	494.42	40.01	88.25
99	-1419.59	881.41	492.49	40.12	88.26
102	-1419.52	883.7	490.55	40.09	88.29
105	-1419.46	886	488.62	40.11	88.29
* 105	79.38	.02	4.46		
108	-1419.39	888.29	486.69	40.21	88.3
111	-1419.32	890.58	484.75	39.99	88.34
120	-1419.12	897.5	478.99	39.32	88.3
* 120	90.88	.06	5.34		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S142B
08.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1422.1 M
Y= 806.6 M
SCALE 1: 1000

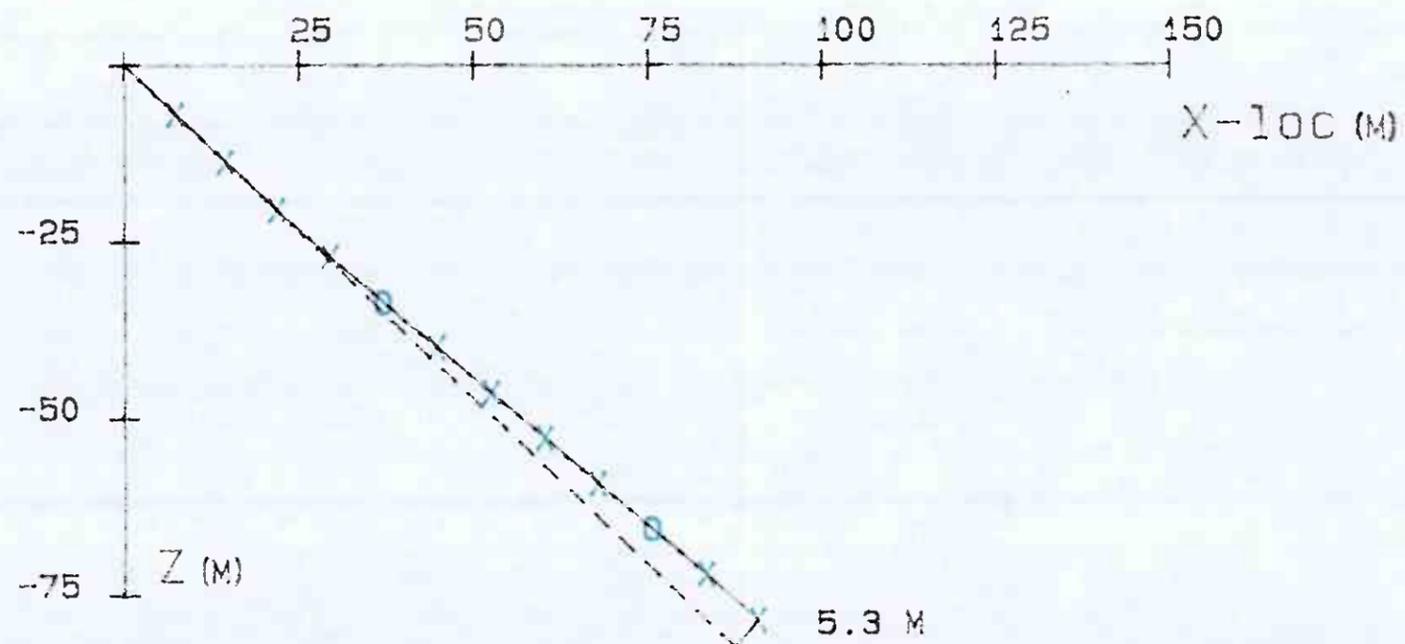
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S142B
08.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 08.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S142C
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1421.92	806.52	557.3	53.29	90.42

POSITION AT 177 M

X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1423.52	918.19	420.03	50.45	91.1

LOCAL COORDINATES AT 177 M

Y-LOC= .75 M TO THE RIGHT
Z-LOC= 7.51 M UPWARDS

RESULTS

STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1421.92	806.52	557.3	53.29	90.42
3	-1421.94	808.31	554.89	53.27	90.42
6	-1421.95	810.1	552.49	53.1	90.44
9	-1421.97	811.9	550.09	53.08	90.41
12	-1421.98	813.7	547.69	53.05	90.42
15	-1421.99	815.51	545.29	52.94	90.42
* 15	8.99	-.01	.03		
18	-1422.01	817.32	542.9	52.86	90.42
21	-1422.02	819.13	540.5	52.79	90.43
24	-1422.02	820.94	538.11	52.73	90.18
27	-1422.03	822.76	535.73	52.8	90.18
30	-1422.04	824.57	533.34	52.49	90.17
* 30	18.05	-.03	.15		
33	-1422.04	826.4	530.96	52.47	90.16
36	-1422.05	828.22	528.58	52.28	90.16
39	-1422.05	830.06	526.21	52.11	90.16
42	-1422.06	831.9	523.84	51.82	90.17
45	-1422.06	833.76	521.48	50.71	90.18
* 45	27.24	-.07	.43		
48	-1422.08	835.66	519.16	51.19	90.36
51	-1422.1	837.54	516.82	51.02	90.79
54	-1422.13	839.42	514.49	50.68	90.83
57	-1422.15	841.32	512.17	50.62	90.76
60	-1422.18	843.23	509.85	50.29	90.76
* 60	36.71	-.02	1.07		
63	-1422.21	845.14	507.54	50.17	90.78
66	-1422.23	847.06	505.23	50.13	90.78
69	-1422.26	848.99	502.93	50.22	90.78
72	-1422.29	850.91	500.63	49.87	90.83

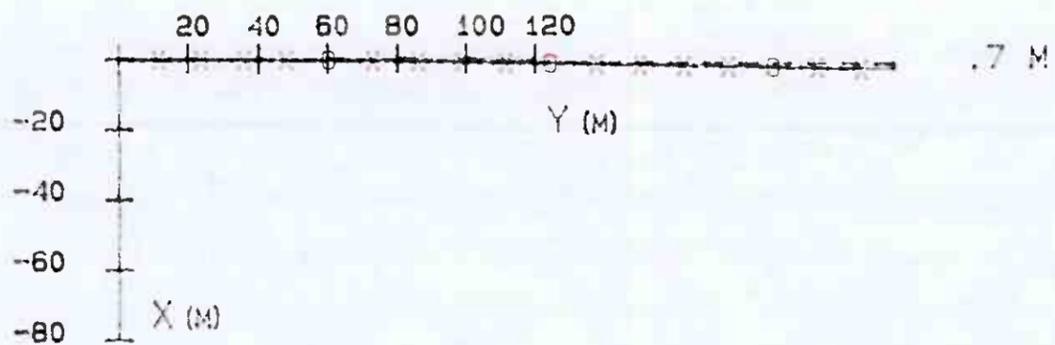
75	-1422.32	852.84	498.33	50.04	90.83
* 75	46.32	.04	1.9		
78	-1422.35	854.76	496.03	49.98	90.9
81	-1422.38	856.69	493.74	50.02	90.91
84	-1422.41	858.62	491.44	50	90.95
87	-1422.44	860.55	489.14	50.08	90.94
90	-1422.47	862.47	486.84	50.14	90.99
* 90	55.96	.12	2.75		
93	-1422.51	864.4	484.53	50.13	91.01
96	-1422.54	866.32	482.23	50.16	91
99	-1422.58	868.24	479.93	50.18	91
102	-1422.61	870.16	477.62	50.14	90.99
105	-1422.64	872.08	475.32	50.2	91.04
* 105	65.57	.22	3.58		
108	-1422.68	874	473.01	50.16	91.05
111	-1422.71	875.92	470.71	50.13	91.07
114	-1422.75	877.85	468.41	50.09	91.07
117	-1422.79	879.77	466.11	50.1	91.07
120	-1422.82	881.69	463.81	50.1	91.07
* 120	75.18	.33	4.4		
123	-1422.86	883.62	461.5	50.09	91.07
126	-1422.9	885.54	459.2	50.16	91.09
129	-1422.93	887.46	456.9	50.24	91.12
132	-1422.97	889.38	454.59	50.23	91.14
135	-1423.01	891.3	452.29	50.22	91.11
* 135	84.79	.44	5.22		
138	-1423.05	893.22	449.98	50.14	91.11
141	-1423.08	895.14	447.68	50.13	91.08
144	-1423.12	897.06	445.38	50.11	91.08
147	-1423.16	898.99	443.07	50.09	91.08
150	-1423.19	900.91	440.77	50.01	91.07
* 150	94.4	.55	6.05		
153	-1423.23	902.84	438.47	50.03	91.06

156	-1423.26	904.77	436.17	50.04	91.06
159	-1423.3	906.69	433.87	50.08	91.06
162	-1423.34	908.62	431.57	50.18	91.08
165	-1423.37	910.54	429.27	50.3	91.09
* 165	104.03	.66	6.89		
168	-1423.41	912.45	426.96	50.33	91.1
177	-1423.52	918.19	420.03	50.45	91.1
* 177	111.68	.75	7.51		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S142C
08.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1422 M
Y= 806.5 M
SCALE 1: 1000

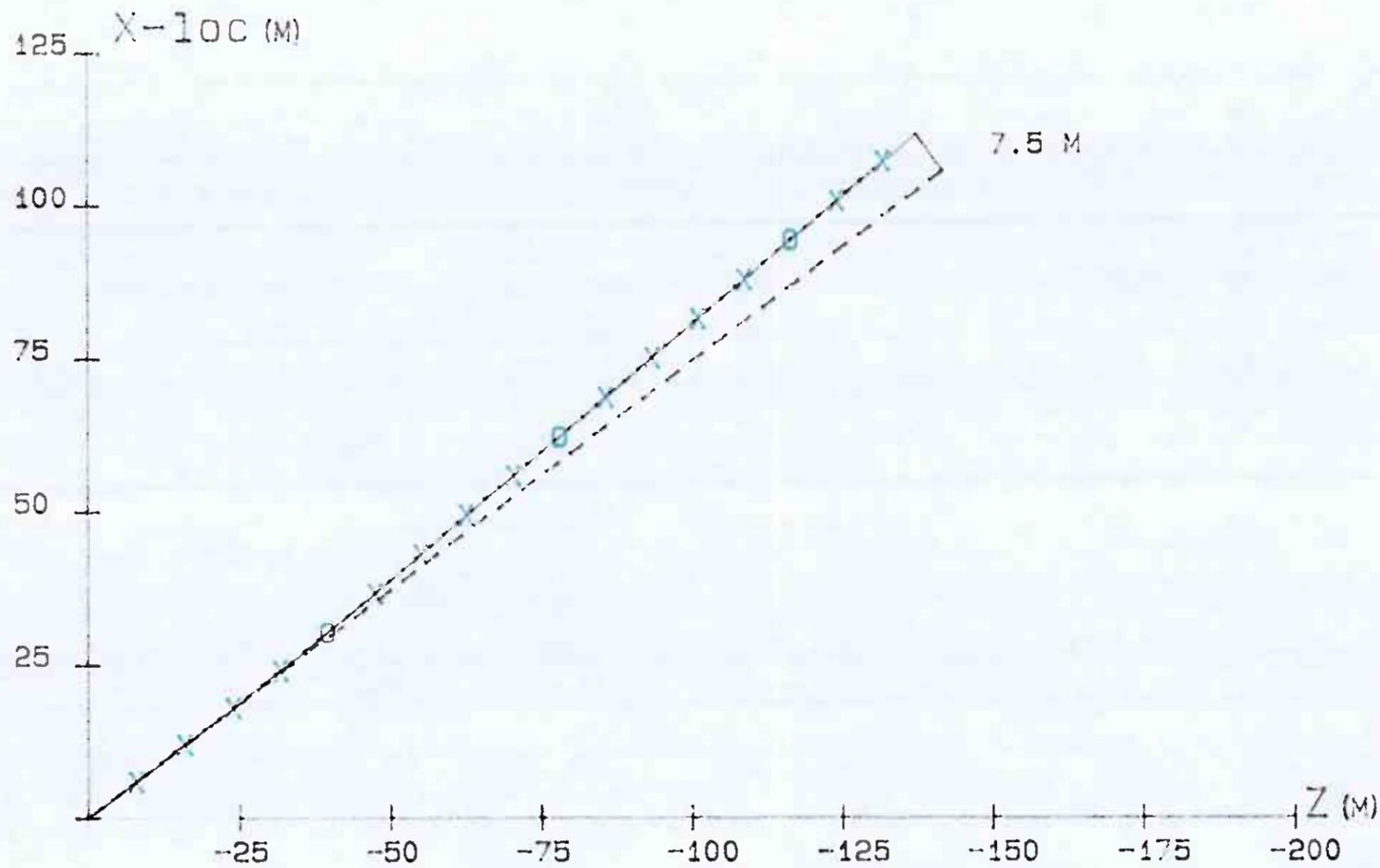
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S142C
08.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-10cZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



PROFIL

S/440

DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 060690
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S144F
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION
X (M) Y (M) Z (M) DIP (DEG.) DIR. (DEG.)
-1440.01 805.88 554.7 44.5 87.68

POSITION AT 150 M
X (M) Y (M) Z (M) DIP (DEG.) DIR. (DEG.)
-1436.31 913.93 450.73 43.65 88.56

LOCAL COORDINATES AT 150 M
Y-LOC= .67 M TO THE RIGHT
Z-LOC= 1.62 M UPWARDS

RESULTS

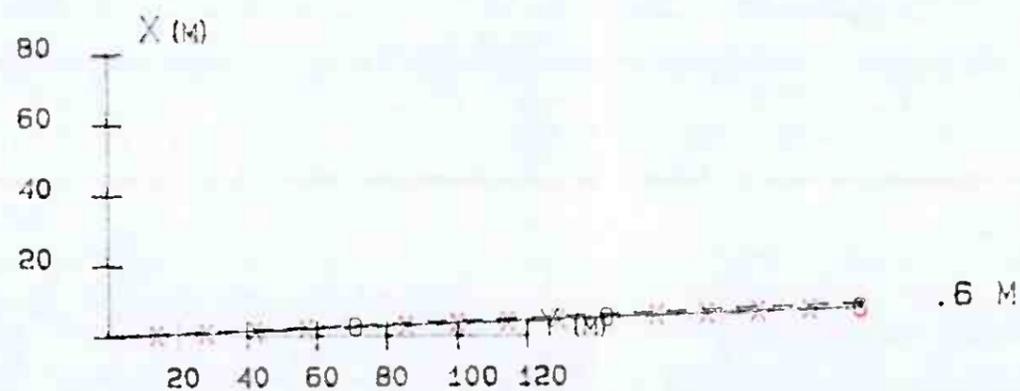
STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1440.01	805.88	554.7	44.5	87.68
3	-1439.93	808.01	552.59	44.64	87.67
6	-1439.85	810.15	550.48	44.55	87.9
12	-1439.69	814.42	546.27	44.59	87.93
18	-1439.54	818.69	542.07	44.12	87.94
24	-1439.38	823	537.89	44.09	87.88
* 24	17.13	.06	.02		
30	-1439.22	827.31	533.72	43.92	87.89
36	-1439.06	831.62	529.55	43.93	87.86
42	-1438.91	835.94	525.39	43.94	87.94
48	-1438.75	840.26	521.23	43.92	87.97
54	-1438.6	844.58	517.06	44.05	87.96
* 54	38.72	.15	.3		
60	-1438.45	848.88	512.89	44.05	88
66	-1438.3	853.19	508.71	44.07	88
72	-1438.15	857.5	504.54	43.95	88
78	-1438	861.82	500.38	43.83	88.01
84	-1437.85	866.15	496.23	43.52	87.98
* 84	60.31	.27	.57		
90	-1437.7	870.5	492.1	43.35	87.97
96	-1437.54	874.86	487.98	43.32	87.97
102	-1437.39	879.22	483.86	43.52	87.93
108	-1437.23	883.57	479.73	43.5	87.93
114	-1437.07	887.91	475.59	43.61	87.97
* 114	82.08	.38	1.11		
120	-1436.92	892.24	471.45	43.69	88.02
126	-1436.77	896.58	467.31	43.45	88.04
132	-1436.64	900.93	463.18	43.64	88.23
138	-1436.52	905.27	459.03	43.8	88.6

141	-1436.47	907.43	456.95	43.76	88.55
* 141	101.61	.56	1.51		
150	-1436.31	913.93	450.73	43.65	88.56
* 150	108.11	.67	1.62		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144F
060690

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1440.1 M
Y= 805.8 M
SCALE 1: 1000

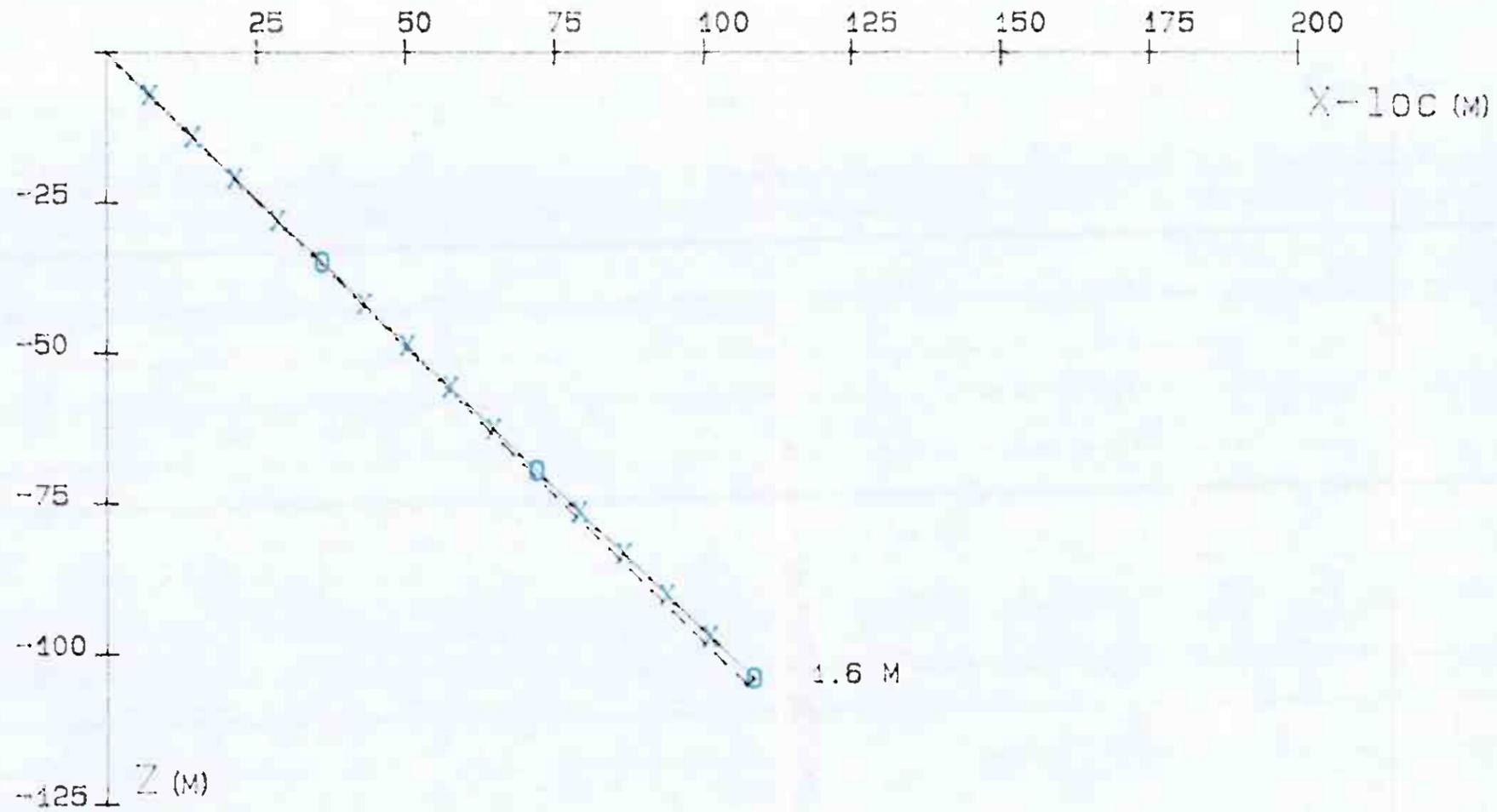
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144F
060690

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 06.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S1446
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION				
X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1440.01	805.88	554.7	36.19	87.19

POSITION AT 153 M				
X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1434.45	929.5	464.72	36.16	87.63

LOCAL COORDINATES AT 153 M
Y-LOC= .47 M TO THE RIGHT
Z-LOC= .47 M UPWARDS

RESULTS

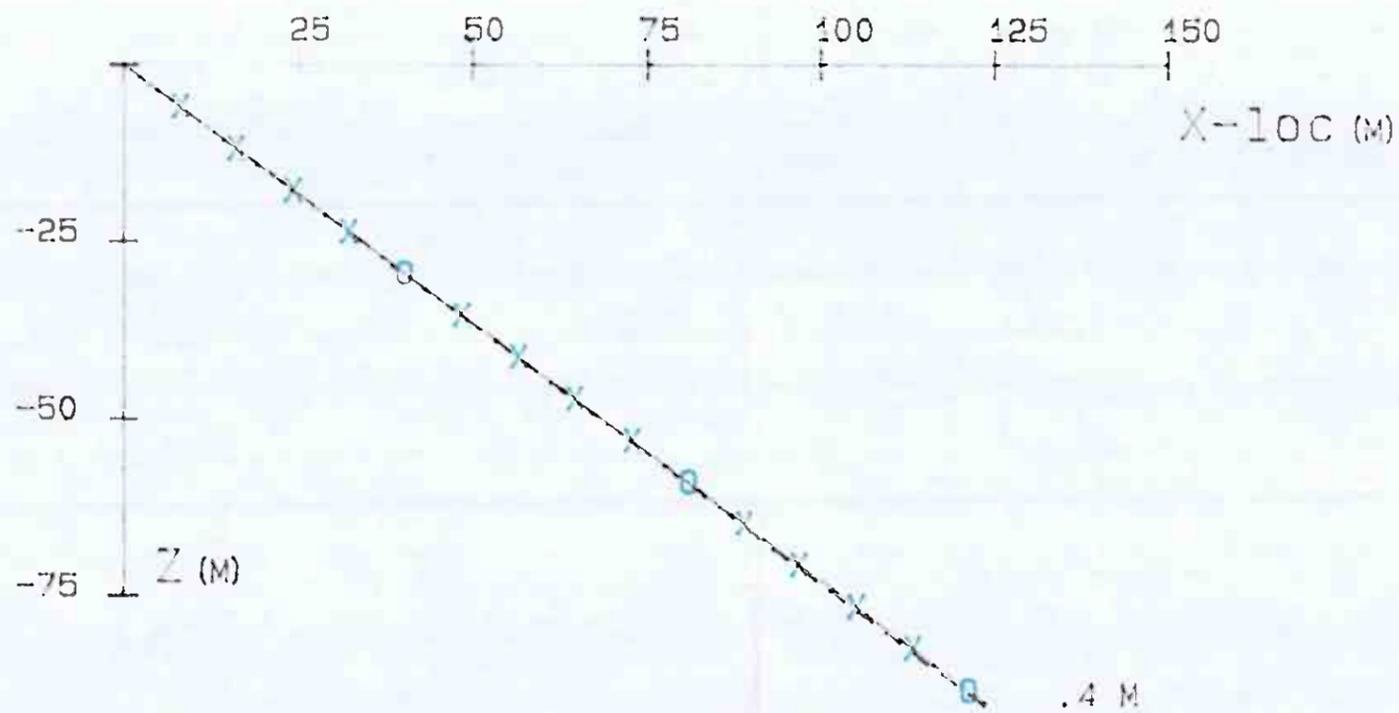
STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1440.01	805.88	554.7	36.19	87.19
3	-1439.9	808.29	552.92	36.2	87.19
6	-1439.78	810.71	551.15	36.2	87.21
12	-1439.54	815.55	547.61	36.19	87.2
18	-1439.31	820.38	544.06	36.19	87.21
24	-1439.07	825.22	540.52	36.18	87.22
* 24	19.36	0	0		
30	-1438.84	830.06	536.98	36.17	87.22
36	-1438.61	834.9	533.44	36.06	87.27
42	-1438.38	839.74	529.91	36.03	87.32
48	-1438.15	844.59	526.38	36.01	87.32
54	-1437.93	849.44	522.85	36.07	87.33
* 54	43.61	.04	.05		
60	-1437.7	854.28	519.32	36.11	87.36
66	-1437.48	859.12	515.78	36.09	87.39
72	-1437.26	863.97	512.25	36.05	87.41
78	-1437.05	868.81	508.72	35.94	87.41
84	-1436.83	873.67	505.2	35.82	87.41
* 84	67.86	.12	.13		
90	-1436.61	878.53	501.69	35.72	87.43
96	-1436.4	883.39	498.18	35.87	87.54
102	-1436.19	888.25	494.66	35.88	87.58
108	-1435.98	893.11	491.15	35.87	87.54
114	-1435.78	897.97	487.63	35.82	87.55
* 114	92.18	.26	.32		
120	-1435.57	902.82	484.12	35.87	87.54
126	-1435.36	907.68	480.6	35.89	87.55
132	-1435.15	912.54	477.08	35.96	87.56
138	-1434.95	917.39	473.56	36.04	87.6

144	-1434.75	922.23	470.03	36.11	87.62
* 144	116.47	.42	.46		
153	-1434.45	929.5	464.72	36.16	87.63
* 153	123.74	.47	.47		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144G
06.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
 CUSTOMER REFERENCE: Marcus Ekberg
 SURVEYOR: Rune Stien
 DATE: 07.06.90
 PLACE: Bidjovagge
 COUNTRY: Norge
 DRILL HOLE: S144H
 HOLE DIAMETER (MM): 46
 NO CASING

COLLAR POSITION

X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1440.02	805.77	554.7	51.3	87.23

POSITION AT 186 M

X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1434.22	928.16	414.84	46.38	87.28

LOCAL COORDINATES AT 186 M

Y-LOC= .11 M TO THE RIGHT
 Z-LOC= 8.18 M UPWARDS

RESULTS

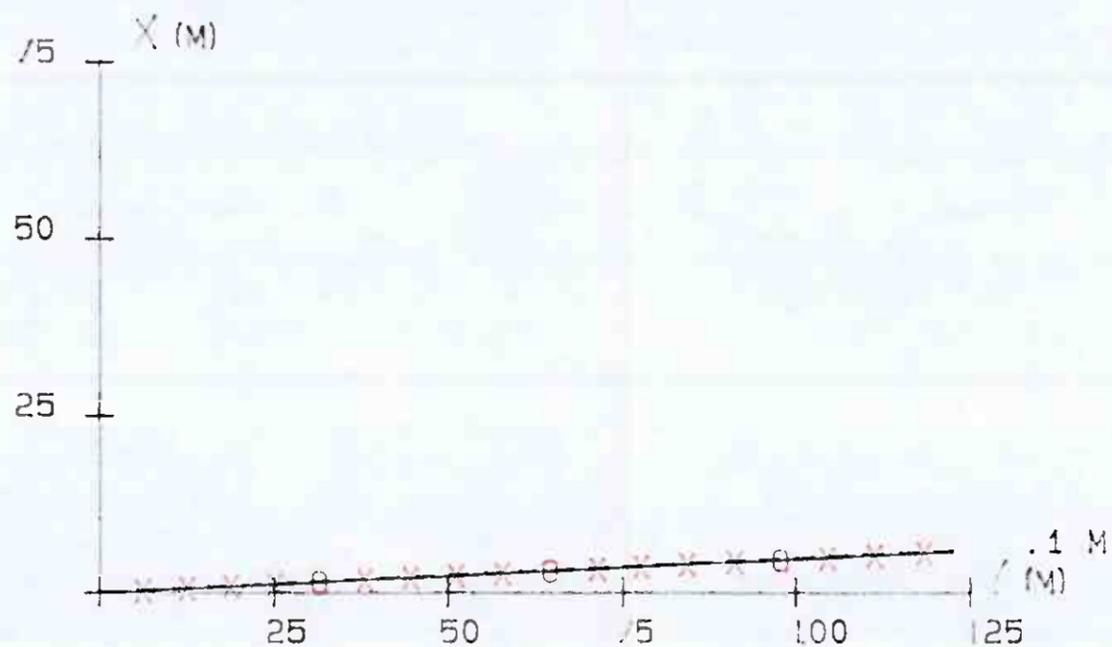
STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1440.02	805.77	554.7	51.3	87.23
3	-1439.93	807.64	552.35	51.28	87.22
6	-1439.84	809.51	550.01	51.23	87.23
9	-1439.75	811.39	547.67	51.24	87.25
15	-1439.57	815.14	542.99	51.21	87.26
21	-1439.39	818.9	538.32	51.02	87.26
* 21	13.14	0	.02		
27	-1439.21	822.67	533.66	50.94	87.25
33	-1439.03	826.45	529	50.72	87.25
39	-1438.85	830.25	524.36	50.49	87.25
45	-1438.67	834.07	519.74	49.85	87.27
51	-1438.48	837.94	515.16	49.54	87.28
* 51	32.21	.01	.42		
57	-1438.3	841.84	510.6	49.4	87.28
63	-1438.11	845.74	506.04	49.21	87.27
69	-1437.93	849.66	501.51	48.97	87.26
72	-1437.83	851.62	499.24	48.85	87.25
75	-1437.74	853.6	496.98	48.5	87.23
* 75	47.88	.02	1.28		
78	-1437.64	855.58	494.74	48.35	87.18
81	-1437.54	857.57	492.49	48.33	87.18
84	-1437.44	859.56	490.25	48.31	87.17
87	-1437.34	861.56	488.01	48.2	87.16
90	-1437.25	863.55	485.78	48.21	87.15
* 90	57.85	.01	2.06		
93	-1437.15	865.55	483.54	48.23	87.15
99	-1436.95	869.55	479.07	48.01	87.17
105	-1436.75	873.56	474.61	48.14	87.21
111	-1436.56	877.55	470.13	48.28	87.25

117	-1436.37	881.54	465.66	48.19	87.25
* 117	75.86	.01	3.53		
123	-1436.18	885.54	461.19	48.03	87.26
129	-1435.99	889.55	456.73	47.98	87.36
135	-1435.81	893.56	452.27	48.06	87.42
141	-1435.63	897.56	447.8	48.02	87.41
147	-1435.45	901.58	443.35	47.81	87.42
* 147	95.92	.05	5.24		
153	-1435.27	905.6	438.9	47.81	87.41
159	-1435.08	909.63	434.46	47.47	87.41
165	-1434.9	913.69	430.05	46.84	87.33
171	-1434.71	917.81	425.69	46.18	87.35
177	-1434.51	921.96	421.36	46.32	87.33
* 177	116.32	.11	7.41		
186	-1434.22	928.16	414.84	46.38	87.28
* 186	122.53	.11	8.18		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144H
07.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1440.1 M
Y= 805.7 M
SCALE 1: 1000

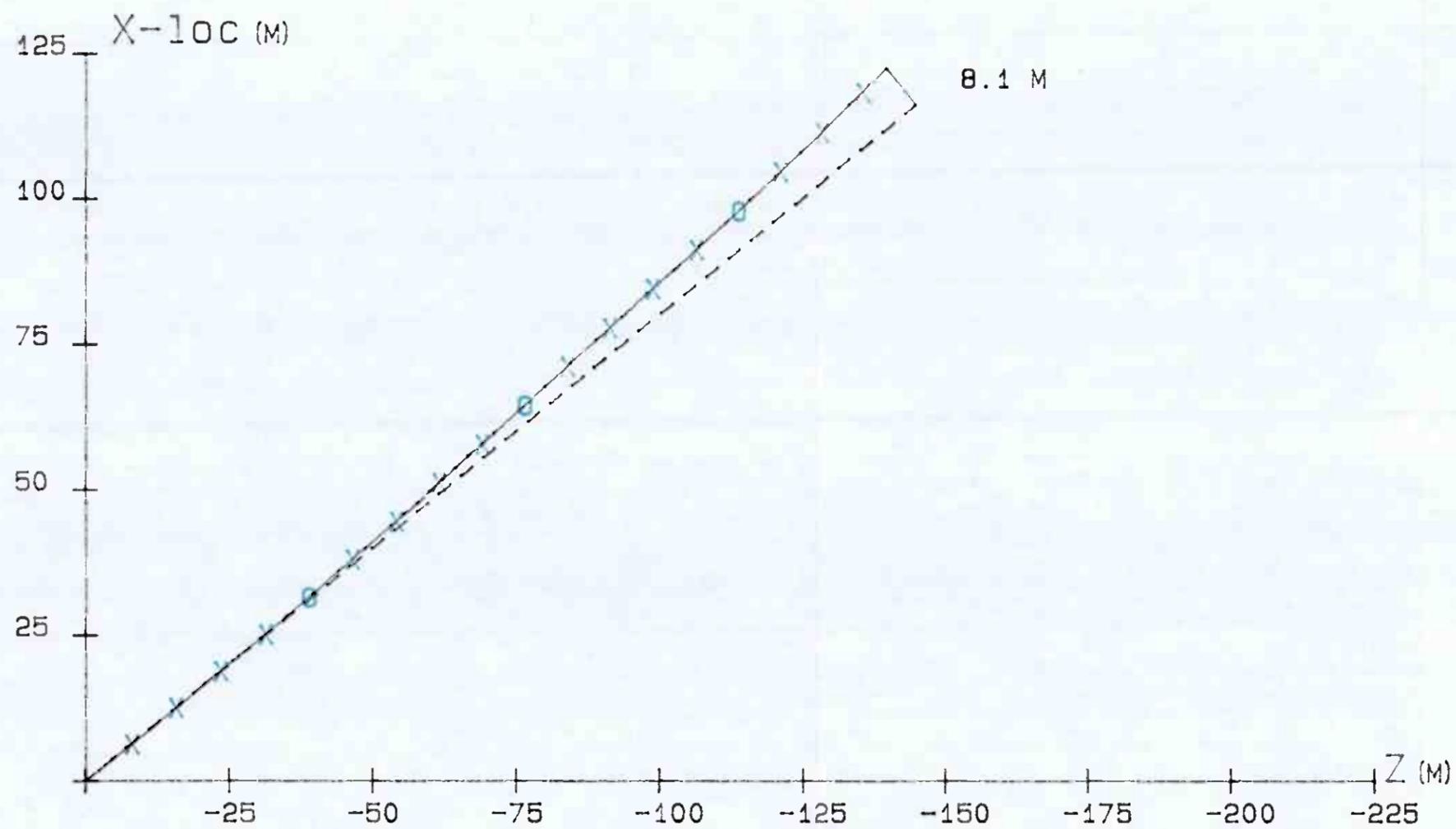
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144H
07.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 06.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S144I
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1440.01	805.88	554.7	29.99	89.99

POSITION AT 51 M

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1440.02	850.26	529.58	28.24	89.99

LOCAL COORDINATES AT 51 M

Y-LOC= 0 M TO THE RIGHT
Z-LOC= .43 M UPWARDS

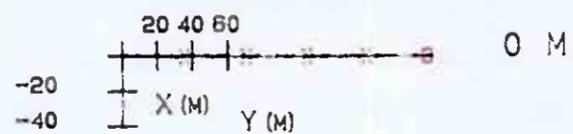
RESULTS

STATION (M)	X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
0	-1440.01	805.88	554.7	29.99	89.99
3	-1440.01	808.47	553.2	29.93	89.99
6	-1440.02	811.07	551.7	29.93	90.01
9	-1440.02	813.67	550.2	29.96	90.01
15	-1440.02	818.87	547.21	29.76	90.02
21	-1440.02	824.08	544.23	29.76	89.98
* 21	18.2	0	.03		
27	-1440.02	829.29	541.25	29.79	90.01
30	-1440.02	831.89	539.76	29.69	90.02
33	-1440.02	834.5	538.27	29.3	90.03
36	-1440.02	837.12	536.81	29.14	90
39	-1440.02	839.74	535.34	28.83	89.99
* 39	33.86	0	.17		
42	-1440.02	842.36	533.9	28.84	89.98
51	-1440.02	850.26	529.58	28.24	89.99
* 51	44.38	0	.43		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144I
06.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1440.1 M
Y= 805.8 M
SCALE 1: 1000

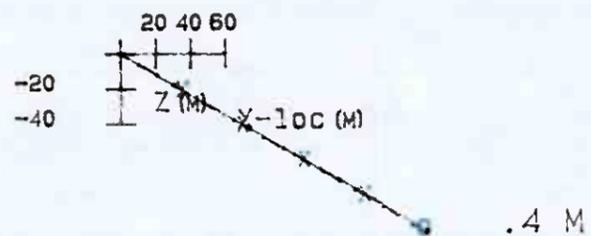
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S144I
06.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



PROFIL
51460

DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
 CUSTOMER REFERENCE: Marcus Ekberg
 SURVEYOR: Rune Stien
 DATE: 09.06.90
 PLACE: Bidjovagge
 COUNTRY: Norge
 DRILL HOLE: S146A
 HOLE DIAMETER (MM): 46
 NO CASING

COLLAR POSITION

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1460	802	540 ^{553.9}	44.6	89.99

POSITION AT 132 M

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1460.13	895.8	447.13	44.39	90.2

LOCAL COORDINATES AT 132 M

Y-LOC= .12 M TO THE RIGHT
 Z-LOC= -.26 M DOWNWARDS

RESULTS

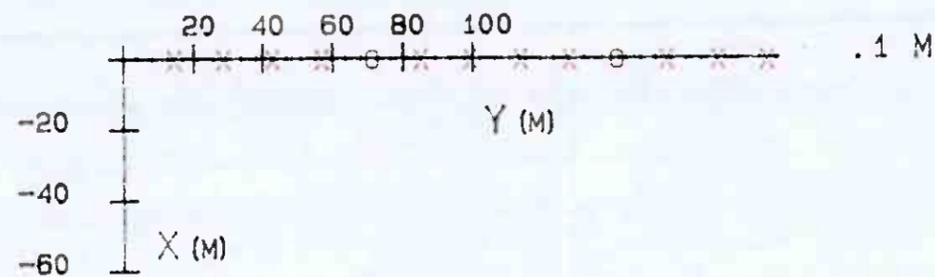
STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1460	802	540	44.6	89.99
3	-1460	804.13	537.89	44.62	89.99
6	-1460.01	806.27	535.78	44.68	90.02
9	-1460	808.4	533.67	44.7	89.96
12	-1460	810.53	531.56	44.69	89.95
15	-1460	812.66	529.45	44.73	89.95
* 15	10.66	-.01	-.02		
18	-1460	814.8	527.34	44.7	89.94
21	-1460	816.93	525.23	44.73	89.95
24	-1460	819.06	523.12	44.77	89.97
27	-1459.99	821.19	521.01	44.8	89.98
30	-1459.99	823.32	518.89	44.79	89.98
* 30	21.32	-.02	-.06		
33	-1459.99	825.45	516.78	44.82	89.99
36	-1460	827.57	514.66	44.83	90.03
39	-1460	829.7	512.55	44.81	90.04
42	-1460	831.83	510.43	44.79	90.03
45	-1460	833.96	508.32	44.81	90.02
* 45	31.96	-.01	-.12		
48	-1460	836.09	506.2	44.8	90.01
51	-1460	838.21	504.09	44.86	90.02
54	-1460	840.34	501.97	44.87	90.01
57	-1460	842.47	499.86	44.91	90
60	-1460	844.59	497.74	44.86	89.97
* 60	42.59	-.01	-.18		
63	-1460	846.72	495.62	44.86	89.98
66	-1460	848.84	493.51	44.83	89.97
69	-1460	850.97	491.39	44.84	89.98
72	-1460	853.1	489.28	44.71	89.94

75	-1460	855.23	487.16	44.6	90.02
* 75	53.23	-.01	-.24		
78	-1460	857.37	485.06	44.59	90.09
81	-1460.01	859.5	482.95	44.63	90.12
84	-1460.01	861.64	480.84	44.68	90.11
87	-1460.01	863.77	478.73	44.64	90.09
90	-1460.02	865.9	476.63	44.65	90.16
* 90	63.9	.01	-.25		
93	-1460.02	868.04	474.52	44.6	90.15
96	-1460.03	870.17	472.41	44.56	90.17
99	-1460.04	872.31	470.3	44.58	90.2
102	-1460.05	874.45	468.2	44.54	90.18
105	-1460.05	876.58	466.09	44.6	90.23
* 105	74.58	.04	-.25		
108	-1460.06	878.72	463.99	44.63	90.21
111	-1460.07	880.86	461.88	44.65	90.21
114	-1460.08	882.99	459.77	44.66	90.22
117	-1460.09	885.12	457.66	44.61	90.19
120	-1460.1	887.26	455.56	44.69	90.24
* 120	85.26	.09	-.26		
123	-1460.1	889.39	453.45	44.64	90.18
132	-1460.13	895.8	447.13	44.39	90.2
* 132	93.8	.12	-.26		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S146A
09.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1460 M
Y= 802 M
SCALE 1: 1000

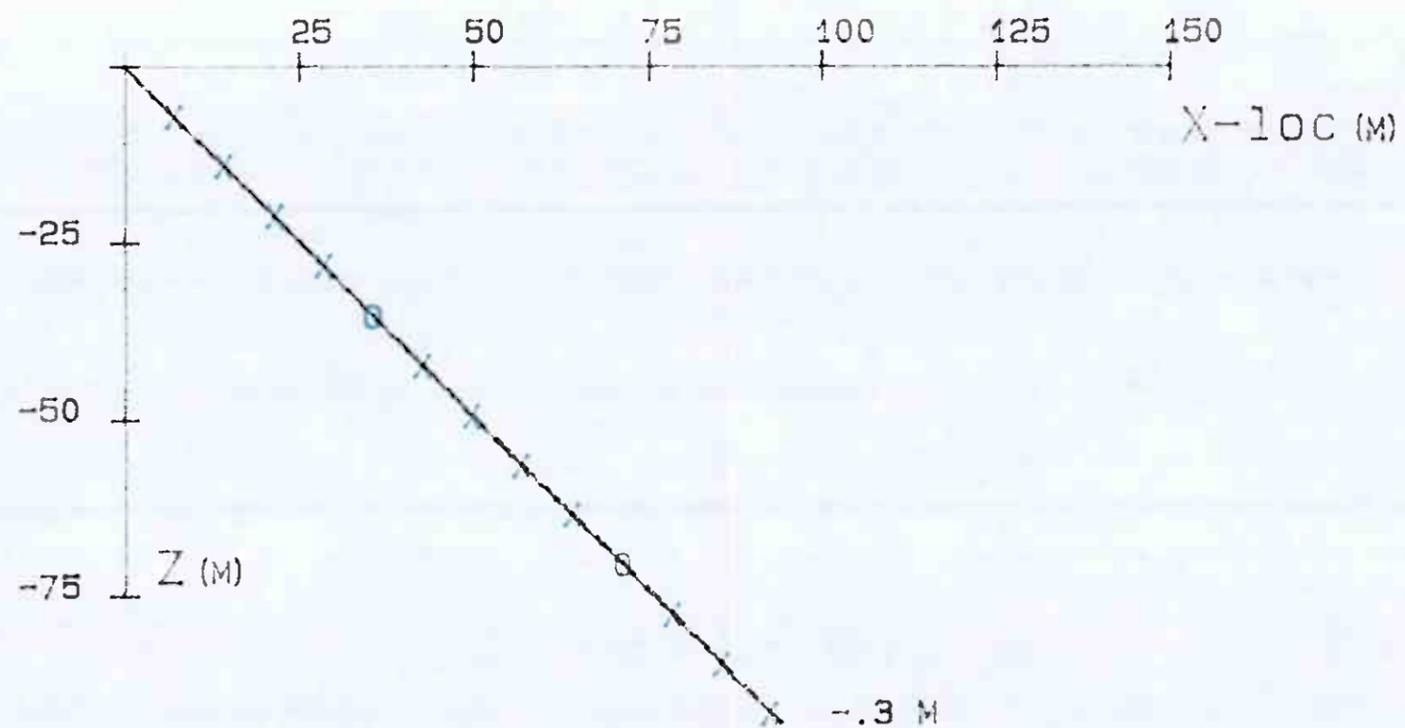
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S146A
09.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 09.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S146B
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1460.04	801.97	553.4	35.39	88.69

POSITION AT 144 M

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1457.77	919.97	470.9	34.95	89.02

LOCAL COORDINATES AT 144 M

Y-LOC= .39 M TO THE RIGHT
Z-LOC= 1.12 M UPWARDS

RESULTS

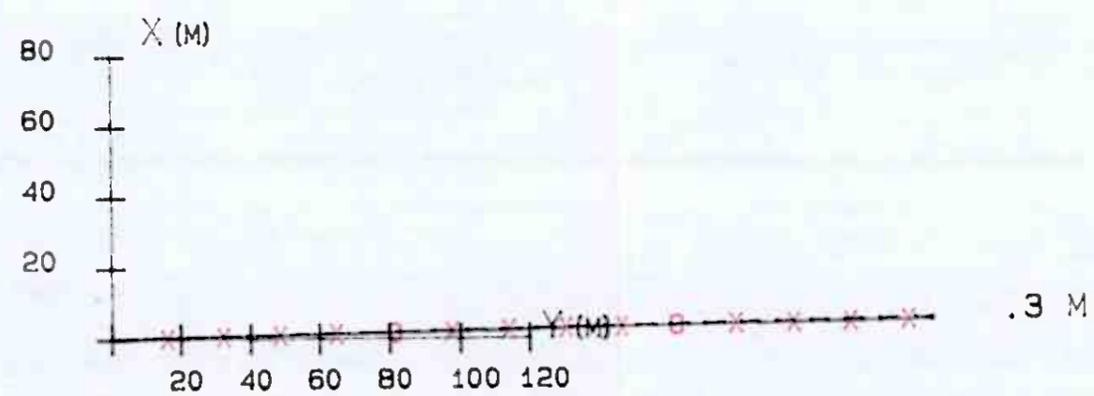
STATION (M)	X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
0	-1460.04	801.97	553.4	35.39	88.69
3	-1459.99	804.41	551.66	35.42	88.69
6	-1459.93	806.85	549.92	35.48	88.7
9	-1459.88	809.3	548.18	35.5	88.69
12	-1459.82	811.74	546.43	35.51	88.69
15	-1459.77	814.18	544.69	35.52	88.71
* 15	12.21	0	-.02		
18	-1459.71	816.62	542.95	35.5	88.73
21	-1459.66	819.06	541.21	35.49	88.73
24	-1459.61	821.5	539.46	35.42	88.73
27	-1459.55	823.95	537.73	35.41	88.74
30	-1459.5	826.39	535.99	35.35	88.74
* 30	24.43	0	-.04		
33	-1459.44	828.84	534.25	35.3	88.74
36	-1459.39	831.29	532.52	35.24	88.73
39	-1459.34	833.74	530.79	35.14	88.74
42	-1459.28	836.19	529.06	35.06	88.73
45	-1459.23	838.64	527.34	35.02	88.74
* 45	36.68	.01	0		
48	-1459.18	841.1	525.61	35.15	88.77
51	-1459.12	843.55	523.89	35.2	88.75
54	-1459.07	846	522.16	35.22	88.78
57	-1459.02	848.45	520.43	35.14	88.8
60	-1458.97	850.9	518.7	35.16	88.85
* 60	48.95	.03	.07		
63	-1458.92	853.36	516.97	35.11	88.85
66	-1458.87	855.81	515.25	35.1	88.87
69	-1458.82	858.26	513.52	35.06	88.84
72	-1458.77	860.72	511.8	35.06	88.81

75	-1458.72	863.17	510.07	34.72	88.64
* 75	61.22	.05	.15		
78	-1458.67	865.64	508.36	34.64	88.94
81	-1458.63	868.11	506.66	34.77	89.01
84	-1458.57	870.57	504.95	34.85	88.76
87	-1458.52	873.03	503.23	34.68	88.8
90	-1458.48	875.5	501.53	34.71	88.93
* 90	73.54	.1	.32		
93	-1458.43	877.96	499.82	34.53	88.91
96	-1458.39	880.43	498.12	34.56	89
99	-1458.35	882.9	496.42	34.5	89
102	-1458.3	885.38	494.72	34.42	89.05
105	-1458.27	887.85	493.02	34.45	89.08
* 105	85.9	.16	.54		
108	-1458.23	890.32	491.32	34.46	89.1
111	-1458.19	892.8	489.62	34.41	89.12
114	-1458.15	895.27	487.93	34.43	89.14
117	-1458.11	897.75	486.23	34.44	89.13
120	-1458.08	900.22	484.54	34.48	89.14
* 120	98.27	.26	.79		
123	-1458.04	902.69	482.84	34.49	89.13
126	-1458	905.16	481.14	34.5	89.12
129	-1457.97	907.64	479.44	34.5	89.12
132	-1457.93	910.11	477.74	34.68	89.12
135	-1457.89	912.57	476.03	34.66	89.08
* 135	110.63	.35	1.02		
144	-1457.77	919.97	470.9	34.95	89.02
* 144	118.02	.39	1.12		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S146B
09.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1460.1 M
Y= 801.9 M
SCALE 1: 1000

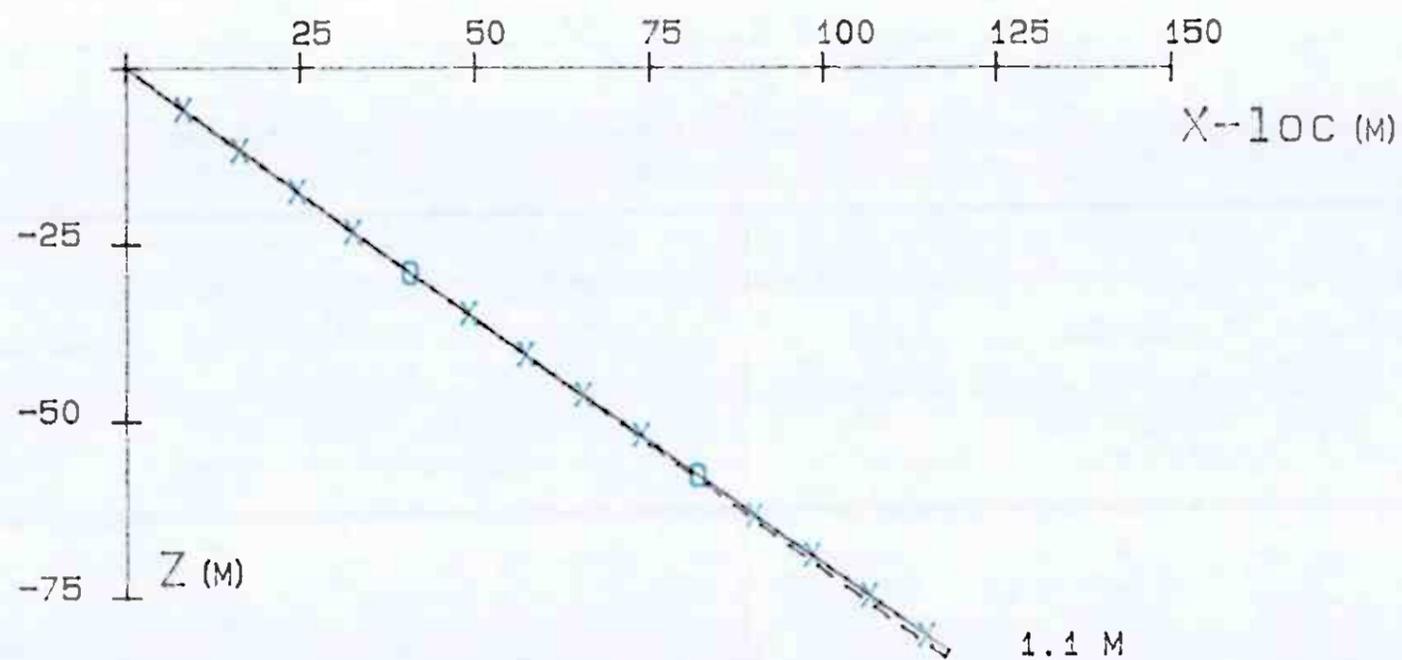
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S146B
09.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 090690
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S146C
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1460.03	801.98	553.3	54.99	88.94

POSITION AT 165 M

X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1458.29	901.78	421.95	51.4	89

LOCAL COORDINATES AT 165 M

Y-LOC= .08 M TO THE RIGHT
Z-LOC= 6.43 M UPWARDS

RESULTS

STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1460.03	801.98	553.3	54.99	88.94
3	-1460	803.7	550.84	54.97	88.94
6	-1459.97	805.42	548.38	54.95	88.95
9	-1459.94	807.14	545.92	54.89	88.95
12	-1459.91	808.86	543.47	54.86	88.95
15	-1459.88	810.59	541.02	55	88.94
* 15	8.61	0	.01		
18	-1459.85	812.31	538.56	54.9	88.99
21	-1459.82	814.04	536.1	54.7	89.01
24	-1459.79	815.77	533.66	53.95	89.02
27	-1459.76	817.53	531.23	54.03	89.03
30	-1459.73	819.29	528.8	53.78	89.09
* 30	17.32	.01	.14		
33	-1459.7	821.07	526.38	53.64	89
36	-1459.67	822.85	523.97	53.65	89.02
39	-1459.64	824.62	521.55	53.55	89.04
42	-1459.61	826.41	519.14	53.44	89.03
45	-1459.58	828.19	516.73	53.09	89.03
* 45	26.22	.02	.5		
48	-1459.55	829.99	514.33	53.1	88.98
51	-1459.51	831.79	511.93	53.09	88.98
54	-1459.48	833.59	509.53	53.06	88.98
57	-1459.45	835.4	507.13	53.11	88.99
60	-1459.42	837.2	504.73	52.95	89.05
* 60	35.22	.03	1		
63	-1459.39	839	502.34	52.75	89.04
66	-1459.36	840.82	499.95	52.6	88.99
69	-1459.33	842.64	497.57	52.56	88.95
72	-1459.29	844.46	495.18	52.55	88.95

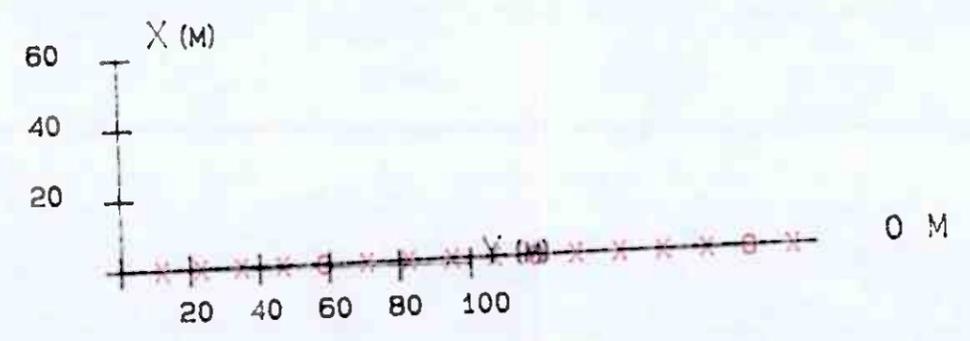
75	-1459.26	846.29	492.8	52.43	89.02
* 75	44.32	.03	1.6		
78	-1459.23	848.12	490.42	52.42	89.02
81	-1459.2	849.95	488.05	52.41	89.04
84	-1459.17	851.78	485.67	52.38	89.04
87	-1459.14	853.61	483.29	52.36	89.05
90	-1459.11	855.44	480.92	52.33	89.04
* 90	53.47	.05	2.28		
93	-1459.08	857.27	478.54	52.32	89.03
96	-1459.05	859.1	476.17	52.3	89.02
99	-1459.02	860.94	473.79	52.29	89.03
102	-1458.98	862.77	471.42	52.26	89.02
105	-1458.95	864.61	469.05	52.25	89.01
* 105	62.64	.06	2.99		
108	-1458.92	866.44	466.68	52.19	89.01
111	-1458.89	868.28	464.31	52.12	88.99
114	-1458.86	870.13	461.94	52.09	88.97
117	-1458.82	871.97	459.57	52.02	88.98
120	-1458.79	873.81	457.21	52.06	88.96
* 120	71.84	.07	3.74		
123	-1458.76	875.66	454.84	52.02	88.97
126	-1458.72	877.5	452.47	51.82	88.98
129	-1458.69	879.36	450.12	51.64	88.97
132	-1458.66	881.22	447.76	51.55	88.96
135	-1458.62	883.08	445.41	51.48	88.97
* 135	81.12	.07	4.57		
138	-1458.59	884.95	443.07	51.45	88.96
141	-1458.56	886.82	440.72	51.44	88.96
144	-1458.52	888.69	438.37	51.43	88.96
147	-1458.49	890.56	436.03	51.45	88.96
150	-1458.46	892.43	433.68	51.44	88.98
* 150	90.46	.08	5.49		
153	-1458.42	894.3	431.34	51.44	88.99

156	-1458.39	896.17	428.99	51.45	88.99
165	-1458.29	901.78	421.95	51.4	89
* 165	99.81	.08	6.43		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S146C
090690

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1460.1 M
Y= 801.9 M
SCALE 1: 1000

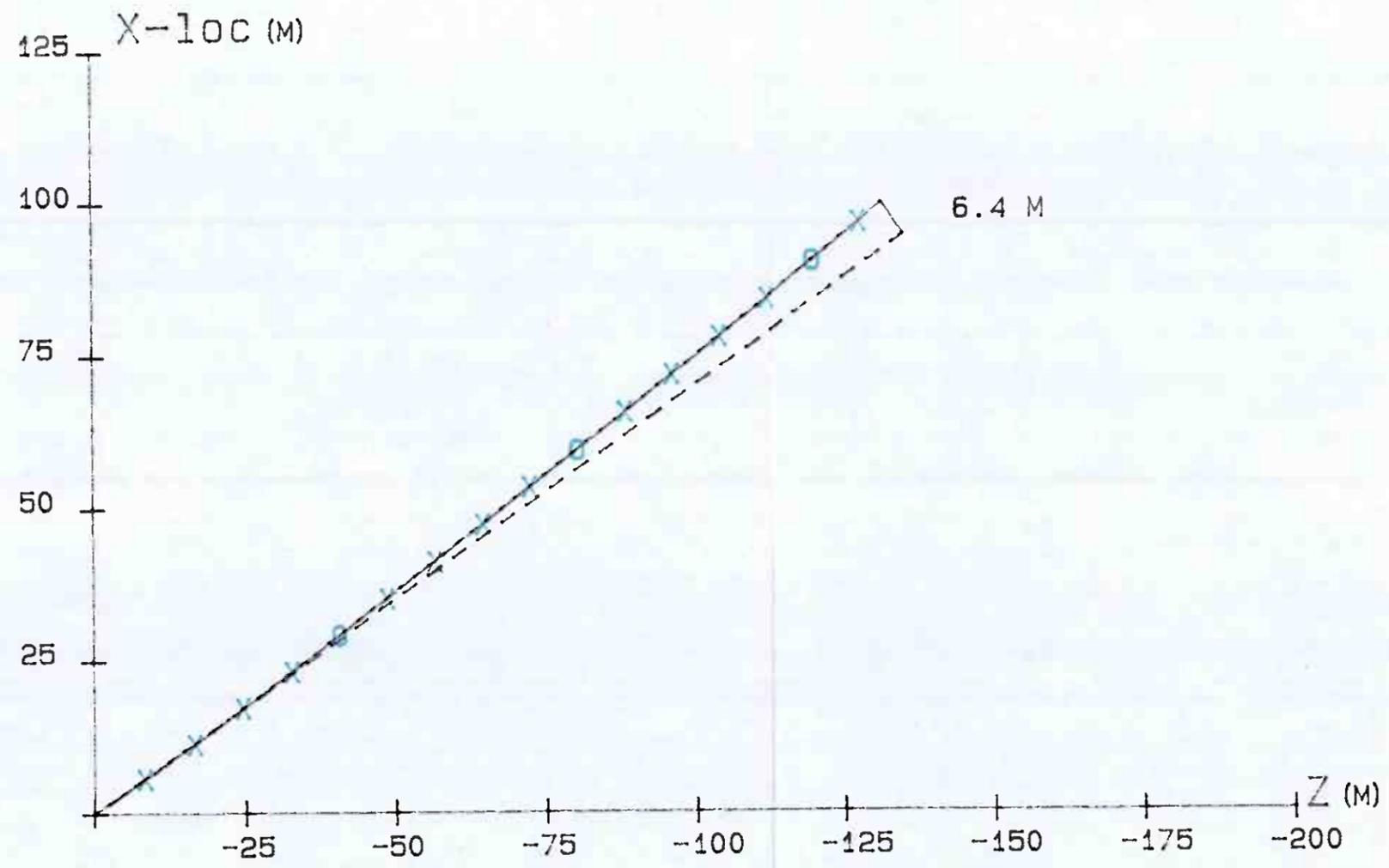
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S146C
090690

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



PROFIL
S 1480

DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 10.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S148I
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1480.78	801.84	550.4	43.99	89.09

POSITION AT 165 M

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1479.12	921.35	436.66	43.06	89.05

LOCAL COORDINATES AT 165 M

Y-LOC= .23 M TO THE RIGHT
Z-LOC= 1.21 M UPWARDS

RESULTS

STATION (H)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1480.78	801.84	550.4	43.99	89.09
3	-1480.75	803.99	548.31	43.97	89.08
6	-1480.72	806.15	546.23	43.97	89.07
9	-1480.68	808.31	544.14	43.95	89.07
12	-1480.65	810.47	542.06	43.91	89.08
15	-1480.61	812.63	539.98	43.87	89.07
* 15	10.79	-.01	0		
18	-1480.58	814.79	537.9	43.84	89.07
21	-1480.54	816.96	535.82	43.79	89.07
24	-1480.51	819.12	533.75	43.85	89.1
27	-1480.47	821.28	531.67	43.86	89.1
30	-1480.44	823.45	529.59	43.89	89.11
* 30	21.61	-.01	.04		
33	-1480.41	825.61	527.51	43.9	89.12
36	-1480.37	827.77	525.43	43.92	89.14
39	-1480.34	829.93	523.35	43.83	89.14
42	-1480.31	832.09	521.27	43.79	89.14
45	-1480.28	834.26	519.2	43.79	89.15
* 45	32.42	0	.08		
48	-1480.24	836.42	517.12	43.66	89.15
51	-1480.21	838.59	515.05	43.58	89.15
54	-1480.18	840.77	512.98	43.51	89.16
57	-1480.15	842.94	510.91	43.53	89.17
60	-1480.12	845.12	508.85	43.5	89.17
* 60	43.28	.01	.18		
63	-1480.09	847.29	506.78	43.51	89.18
66	-1480.05	849.47	504.72	43.55	89.18
69	-1480.02	851.64	502.65	43.39	89.18
72	-1479.99	853.82	500.59	43.57	89.22

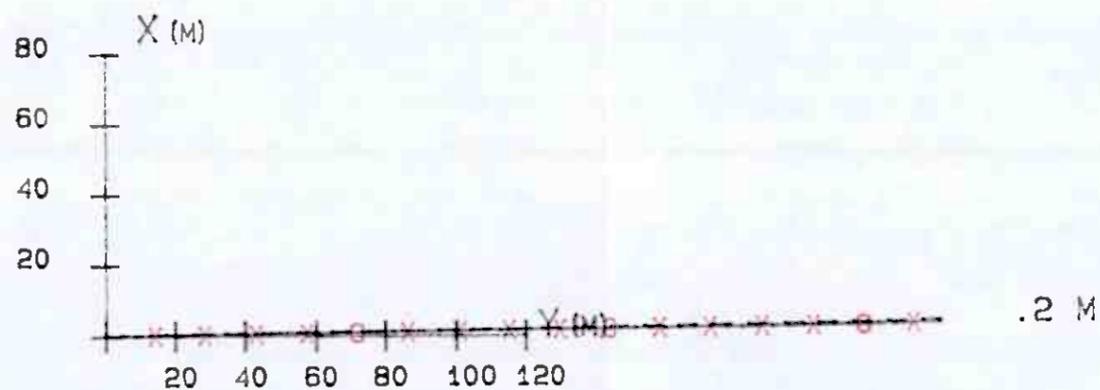
75	-1479.96	856	498.52	43.55	89.2
* 75	54.16	.03	.31		
78	-1479.93	858.17	496.45	43.74	89.3
81	-1479.91	860.34	494.38	43.74	89.39
84	-1479.88	862.5	492.31	43.8	89.41
87	-1479.86	864.67	490.23	43.71	89.46
90	-1479.84	866.84	488.16	43.52	89.51
* 90	65	.08	.38		
93	-1479.82	869.01	486.09	43.48	89.5
96	-1479.8	871.19	484.02	43.48	89.51
99	-1479.79	873.37	481.96	43.42	89.49
102	-1479.77	875.54	479.9	43.34	89.46
105	-1479.75	877.73	477.84	43.19	89.44
* 105	75.89	.16	.53		
108	-1479.72	879.91	475.79	43.12	89.45
111	-1479.7	882.1	473.73	43.18	89.47
114	-1479.68	884.29	471.68	43.05	89.35
117	-1479.66	886.48	469.63	43.02	89.35
120	-1479.63	888.67	467.59	43.03	89.37
* 120	86.84	.22	.76		
123	-1479.61	890.87	465.54	42.95	89.39
126	-1479.59	893.06	463.49	42.88	89.39
129	-1479.56	895.26	461.45	43.91	88.99
132	-1479.53	897.42	459.37	43.86	89
135	-1479.49	899.58	457.29	43.81	89
* 135	97.75	.25	.93		
138	-1479.45	901.75	455.22	43.73	89.03
141	-1479.42	903.92	453.14	43.62	89.03
144	-1479.38	906.09	451.07	43.53	89.03
147	-1479.34	908.26	449.01	43.48	89.02
150	-1479.3	910.44	446.94	43.45	89.02
* 150	108.61	.24	1.03		
153	-1479.27	912.62	444.88	43.32	89.02

156	-1479.23	914.8	442.82	43.3	89.03
165	-1479.12	921.35	436.66	43.06	89.05
* 165	119.53	.23	1.21		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S148I
10.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1480.8 M
Y= 801.8 M
SCALE 1: 1000

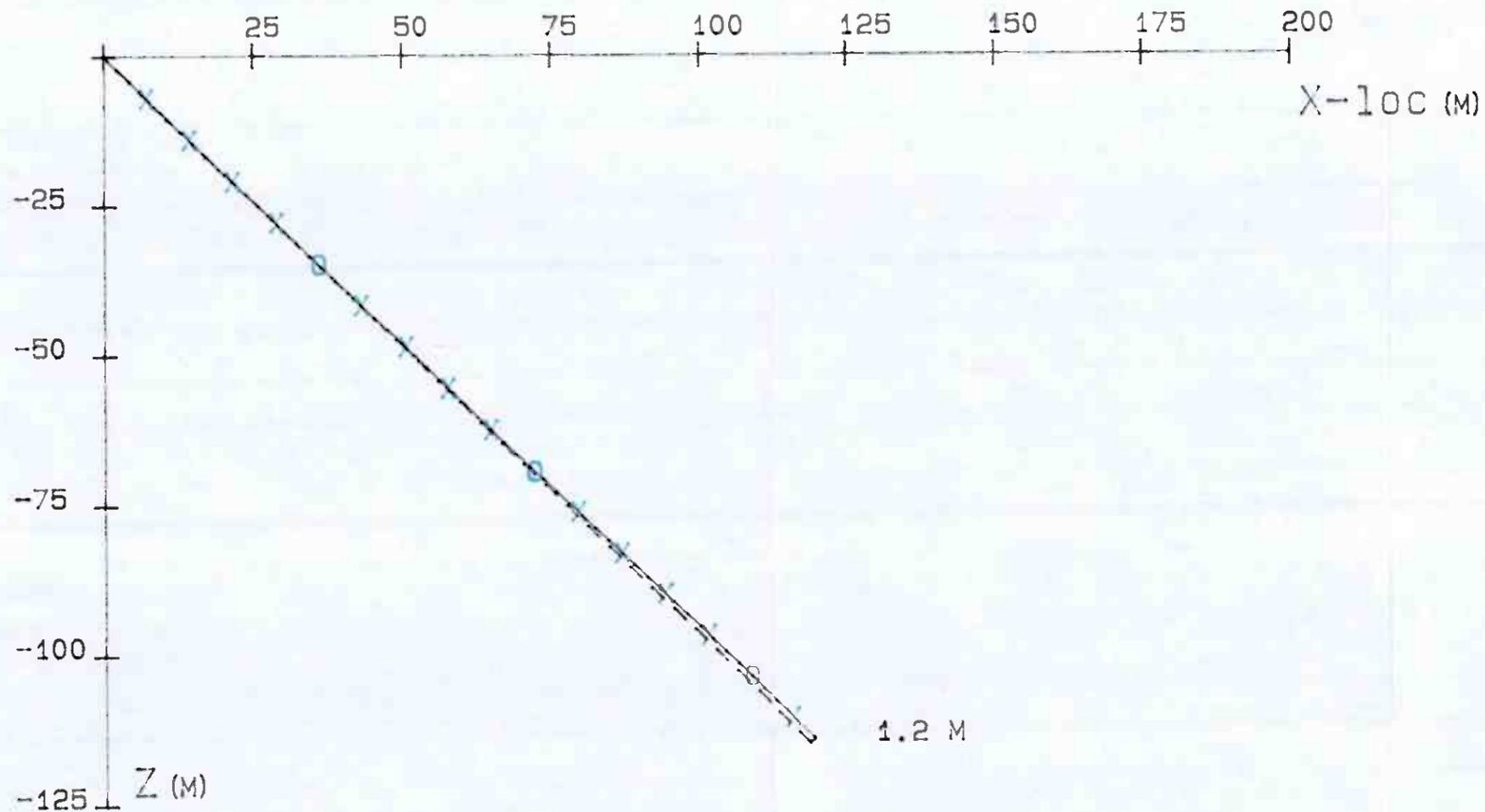
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S148I
10.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
 CUSTOMER REFERENCE: Marcus Ekberg
 SURVEYOR: Rune Stien
 DATE: 10.06.90
 PLACE: Bidjovagge
 COUNTRY: Norge
 DRILL HOLE: S148J
 HOLE DIAMETER (MM): 46
 NO CASING

COLLAR POSITION				
X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1480.04	801.91	550.4	37	88.32

POSITION AT 165 M				
X(M)	Y(M)	Z(M)	DIP (DEG.)	DIR. (DEG.)
-1476.22	933.45	450.87	36.67	88.36

LOCAL COORDINATES AT 165 M
 Y-LOC= .01 M TO THE RIGHT
 Z-LOC= -.29 M DOWNWARDS

RESULTS

STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1480.04	801.91	550.4	37	88.32
3	-1479.97	804.3	548.59	37.07	88.32
6	-1479.91	806.69	546.78	37.09	88.34
9	-1479.84	809.08	544.97	37.1	88.36
12	-1479.77	811.48	543.16	37.07	88.36
15	-1479.7	813.87	541.35	37.02	88.35
* 15	11.96	0	-.02		
18	-1479.63	816.26	539.55	37.06	88.34
21	-1479.56	818.66	537.74	37.04	88.36
24	-1479.49	821.05	535.93	37.16	88.36
27	-1479.43	823.44	534.12	37.11	88.39
30	-1479.36	825.83	532.31	36.99	88.42
* 30	23.93	.01	-.05		
33	-1479.3	828.23	530.5	37.13	88.45
36	-1479.23	830.62	528.69	37.21	88.36
39	-1479.16	833	526.88	37.24	88.31
42	-1479.09	835.39	525.06	37.15	88.32
45	-1479.02	837.78	523.25	37.21	88.35
* 45	35.89	.02	-.08		
48	-1478.95	840.17	521.44	37.23	88.37
51	-1478.88	842.56	519.62	37.17	88.34
54	-1478.81	844.95	517.81	37.19	88.27
57	-1478.74	847.33	515.99	37.18	88.29
60	-1478.67	849.72	514.18	37.24	88.33
* 60	47.83	.01	-.14		
63	-1478.6	852.11	512.36	37.3	88.38
66	-1478.54	854.5	510.55	37.31	88.37
69	-1478.46	856.88	508.73	37.38	88.25
72	-1478.39	859.26	506.91	37.36	88.28

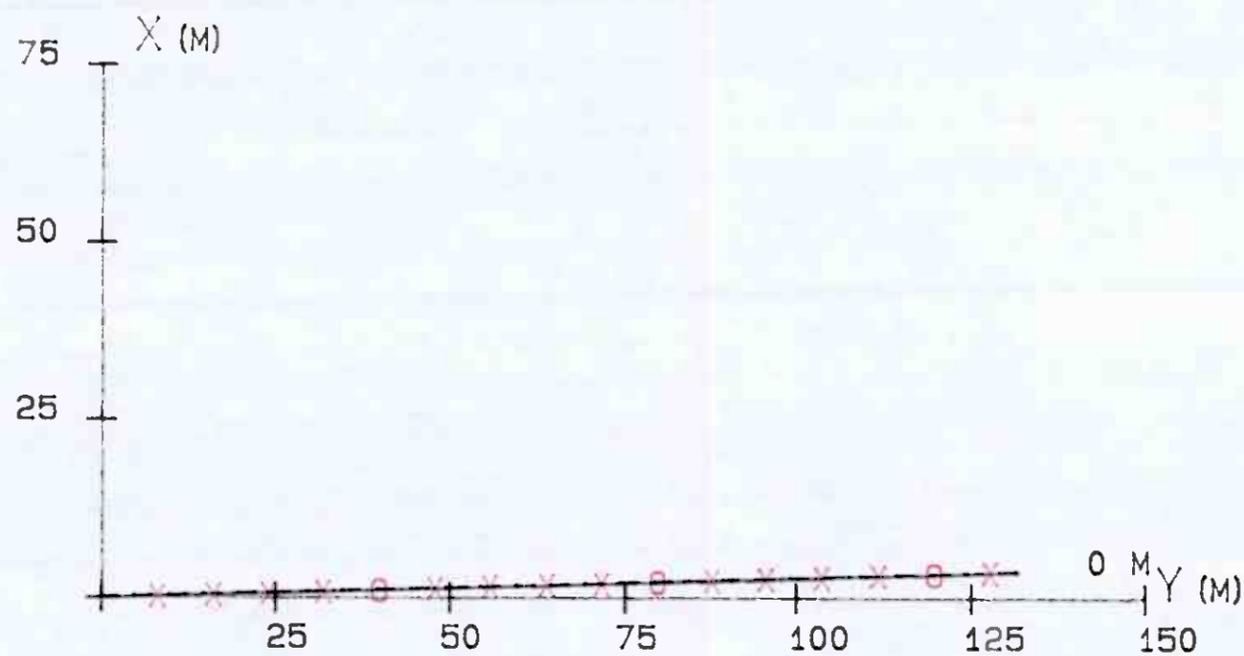
75	-1478.32	861.65	505.09	37.38	88.27
* 75	59.76	.01	-.22		
78	-1478.25	864.03	503.26	37.33	88.3
81	-1478.18	866.41	501.44	37.3	88.31
84	-1478.11	868.8	499.63	37.25	88.31
87	-1478.04	871.19	497.81	37.21	88.33
90	-1477.97	873.57	496	37.18	88.33
* 90	71.69	.01	-.3		
93	-1477.9	875.96	494.18	37.22	88.33
96	-1477.83	878.35	492.37	37.21	88.32
99	-1477.76	880.74	490.55	37.2	88.32
102	-1477.69	883.13	488.74	37.14	88.33
105	-1477.62	885.52	486.93	37.1	88.35
* 105	83.64	.01	-.35		
108	-1477.55	887.91	485.12	37.06	88.36
111	-1477.49	890.3	483.31	37.05	88.38
114	-1477.42	892.69	481.5	37	88.38
117	-1477.35	895.09	479.7	36.99	88.4
120	-1477.28	897.48	477.89	37.1	88.38
* 120	95.61	.02	-.36		
123	-1477.22	899.88	476.08	37.03	88.54
126	-1477.15	902.27	474.27	37.04	88.27
129	-1477.08	904.66	472.47	36.99	88.26
132	-1477.01	907.06	470.66	37	88.27
135	-1476.94	909.45	468.86	37.02	88.27
* 135	107.59	.02	-.37		
138	-1476.86	911.85	467.05	36.99	88.27
141	-1476.79	914.24	465.24	36.97	88.27
144	-1476.72	916.64	463.44	36.95	88.27
147	-1476.65	919.03	461.64	37.2	88.25
150	-1476.57	921.42	459.82	36.65	88.1
* 150	119.56	0	-.38		
153	-1476.5	923.83	458.03	36.67	88.33

156	-1476.43	926.23	456.24	36.64	88.34
165	-1476.22	933.45	450.87	36.67	88.36
* 165	131.6	.01	-.29		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S148J
10.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1480.1 M
Y= 801.9 M
SCALE 1: 1000

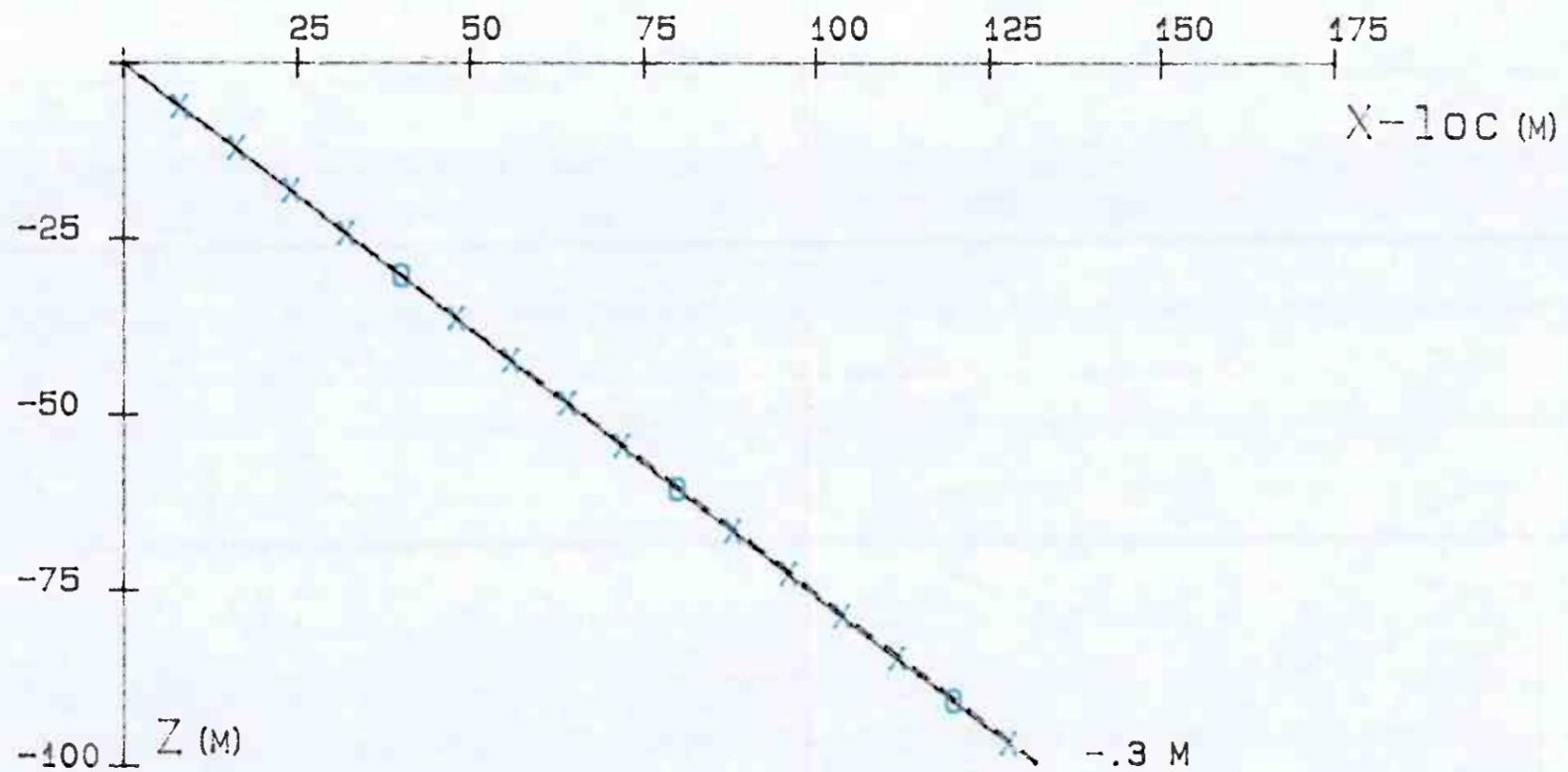
HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S148J
10.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



DRILLHOLE DIP AND DIRECTION
MEASUREMENTS WITH
REFLEX FOTOBOR DDI

CUSTOMER: A/S Bidjovagge Gruber
CUSTOMER REFERENCE: Marcus Ekberg
SURVEYOR: Rune Stien
DATE: 10.06.90
PLACE: Bidjovagge
COUNTRY: Norge
DRILL HOLE: S148K
HOLE DIAMETER (MM): 46
NO CASING

COLLAR POSITION

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1480.04	801.89	550.3	53	88.69

POSITION AT 174 M

X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
-1475.8	907.74	412.3	52.13	85.68

LOCAL COORDINATES AT 174 M

Y-LOC= -1.82 M TO THE LEFT
Z-LOC= 1.54 M UPWARDS

RESULTS

STATION (M)	X (M)	Y (M)	Z (M)	DIP (DEG.)	DIR. (DEG.)
0	-1480.04	801.89	550.3	53	88.69
3	-1480	803.69	547.9	53.01	88.69
6	-1479.97	805.49	545.5	53.06	88.82
9	-1479.93	807.3	543.1	53.03	88.85
12	-1479.89	809.1	540.71	53.01	88.86
15	-1479.86	810.9	538.31	52.96	88.86
* 15	9.020001	.02	-.01		
18	-1479.82	812.71	535.92	52.9	88.87
21	-1479.79	814.52	533.52	52.92	88.87
24	-1479.75	816.33	531.13	52.88	88.87
27	-1479.72	818.14	528.74	52.89	88.89
30	-1479.68	819.95	526.35	52.83	88.89
* 30	18.06	.05	.01		
33	-1479.65	821.76	523.95	52.81	88.88
36	-1479.61	823.57	521.56	52.83	88.9
39	-1479.58	825.38	519.17	52.78	88.86
42	-1479.54	827.2	516.78	52.74	88.92
45	-1479.51	829.01	514.4	52.68	88.94
* 45	27.13	.08	.06		
48	-1479.48	830.83	512.01	52.64	88.93
51	-1479.44	832.65	509.63	52.64	88.98
54	-1479.41	834.47	507.24	52.68	89.02
57	-1479.38	836.29	504.86	52.65	88.9
60	-1479.34	838.11	502.47	52.66	88.79
* 60	36.23	.12	.15		
63	-1479.3	839.93	500.08	52.64	88.8
66	-1479.26	841.75	497.7	52.64	88.79
69	-1479.22	843.57	495.32	52.64	88.78
72	-1479.19	845.39	492.93	52.63	88.78

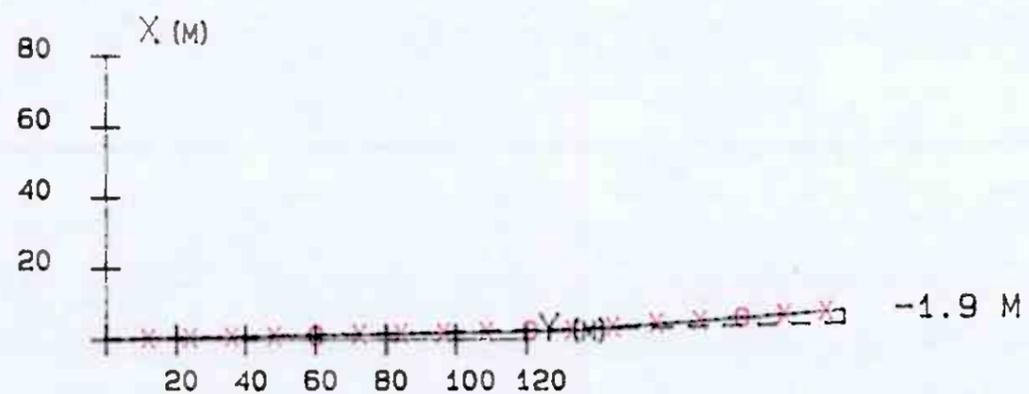
75	-1479.15	847.21	490.55	52.51	88.78
* 75	45.33	.13	.24		
78	-1479.11	849.03	488.17	52.44	88.78
81	-1479.07	850.86	485.79	52.42	88.79
84	-1479.03	852.69	483.41	52.5	88.79
87	-1478.99	854.52	481.03	52.51	88.75
90	-1478.95	856.34	478.65	52.54	88.68
* 90	54.46	.15	.38		
93	-1478.91	858.17	476.27	52.52	88.67
96	-1478.87	859.99	473.89	52.6	88.75
99	-1478.83	861.81	471.5	52.56	88.72
102	-1478.79	863.64	469.12	52.52	88.72
105	-1478.75	865.46	466.74	52.45	88.77
* 105	63.58	.15	.5		
108	-1478.71	867.29	464.36	52.4	88.84
111	-1478.67	869.12	461.98	51.92	88.85
114	-1478.54	870.96	459.62	51.93	85.72
117	-1478.4	872.81	457.26	51.95	85.73
120	-1478.26	874.65	454.9	51.93	85.75
* 120	72.78	-.12	.72		
123	-1478.13	876.5	452.54	51.97	85.75
126	-1477.99	878.34	450.17	52.02	85.76
129	-1477.85	880.18	447.81	52.11	85.78
132	-1477.72	882.02	445.44	52.16	85.76
135	-1477.58	883.85	443.07	52.17	85.78
* 135	82	-.59	.96		
138	-1477.45	885.69	440.7	52.13	85.8
141	-1477.31	887.52	438.33	52.11	85.8
144	-1477.18	889.36	435.97	52.11	85.73
147	-1477.04	891.2	433.6	52.11	85.73
150	-1476.9	893.03	431.23	52.09	85.74
* 150	91.19	-1.06	1.17		
153	-1476.77	894.87	428.86	52.08	85.74

156	-1476.63	896.71	426.5	52.09	85.75
159	-1476.49	898.55	424.13	52.09	85.74
162	-1476.36	900.39	421.76	52.07	85.74
165	-1476.22	902.23	419.4	52.06	85.74
* 165	100.4	-1.54	1.4		
174	-1475.8	907.74	412.3	52.13	85.68
* 174	105.92	-1.82	1.54		

A/S Bidjovagge Gruber
Bidjovagge
HOLE: S148K
10.06.90

PLOT NO: 1
HORIZONTAL PROJECTION
XY-PLANE
ORIGIN: X= -1480.1 M
Y= 801.8 M
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL



A/S Bidjovagge Gruber
Bidjovagge
HOLE: S148K
10.06.90

PLOT NO: 2
VERTICAL PROJECTION
X-locZ-PLANE
SCALE 1: 1000

HOLE DEPTH:
X 10 M INTERVAL
O 50 M INTERVAL

