C2.2 Lugeon Test Results of Grand Falls Dam Site

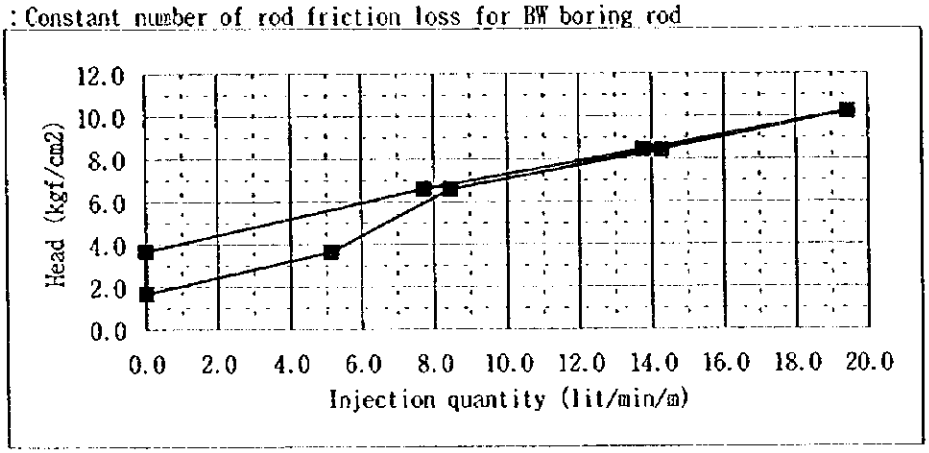
WATER PRESSURE TEST RECORD

Hole No. 94-1 1/19

Test section (m) 6.20 - 11.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.65	90.00	6.00	1.7	0.0
3.00	0.0	0.0	0.00	5.00	0.65	90.00	6.00	3.7	0.0
6.00	38.7	7.7	0.07	5.00	0.65	90.00	6.00	6.6	11.7
8.00	68.8	13.8	0.22	5.00	0.65	90.00	6.00	8.4	16.3
10.00	97.2	19.4	0.45	5.00	0.65	90.00	6.00	10.2	19.0
8.00	71.4	14.3	0.24	5.00	0.65	90.00	6.00	8.4	17.0
6.00	42.3	8.5	0.08	5.00	0.65	90.00	6.00	6.6	12.9
3.00	25.7	5.1	0.03	5.00	0.65	90.00	6.00	3.6	14.1
1.00	0.0	0.0	0.00	5.00	0.65	90.00	6.00	1.7	0.0

6.90E-05 : Constant number of rod friction loss for BW boring rod

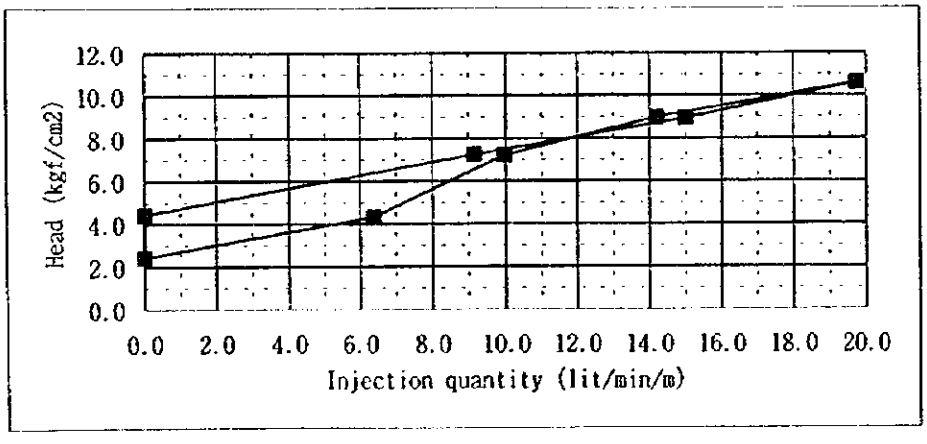


WATER PRESSURE TEST RECORD

Hole No. 94-1 2/19

Test section (m) 10.70 - 15.70

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.75	90.00	12.45	2.4	0.0
3.00	0.0	0.0	0.00	5.00	1.75	90.00	12.45	4.4	0.0
6.00	45.8	9.2	0.18	5.00	1.75	90.00	12.45	7.2	12.7
8.00	75.0	15.0	0.48	5.00	1.75	90.00	12.45	8.9	16.8
10.00	98.7	19.7	0.84	5.00	1.75	90.00	12.45	10.6	18.7
8.00	71.0	14.2	0.43	5.00	1.75	90.00	12.45	9.0	15.8
6.00	49.9	10.0	0.21	5.00	1.75	90.00	12.45	7.2	13.8
3.00	32.0	6.4	0.09	5.00	1.75	90.00	12.45	4.3	14.8
1.00	0.0	0.0	0.00	5.00	1.75	90.00	12.45	2.4	0.0

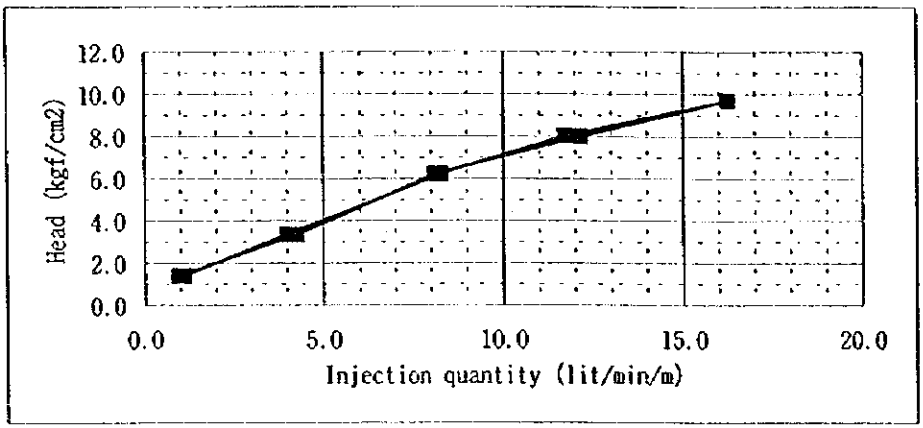


WATER PRESSURE TEST RECORD

Hole No. 94-1 3/19

Test section (m) 14.55 - 19.55

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	5.4	1.1	0.00	5.00	0.85	90.00	3.10	1.4	7.8
3.00	20.0	4.0	0.04	5.00	0.85	90.00	3.10	3.4	11.9
6.00	41.4	8.3	0.18	5.00	0.85	90.00	3.10	6.2	13.3
8.00	58.6	11.7	0.36	5.00	0.85	90.00	3.10	8.0	14.6
10.00	81.3	16.3	0.70	5.00	0.85	90.00	3.10	9.7	16.8
8.00	60.8	12.2	0.39	5.00	0.85	90.00	3.10	8.0	15.2
6.00	40.6	8.1	0.18	5.00	0.85	90.00	3.10	6.2	13.1
3.00	21.4	4.3	0.05	5.00	0.85	90.00	3.10	3.3	12.8
1.00	4.7	0.9	0.00	5.00	0.85	90.00	3.10	1.4	6.7

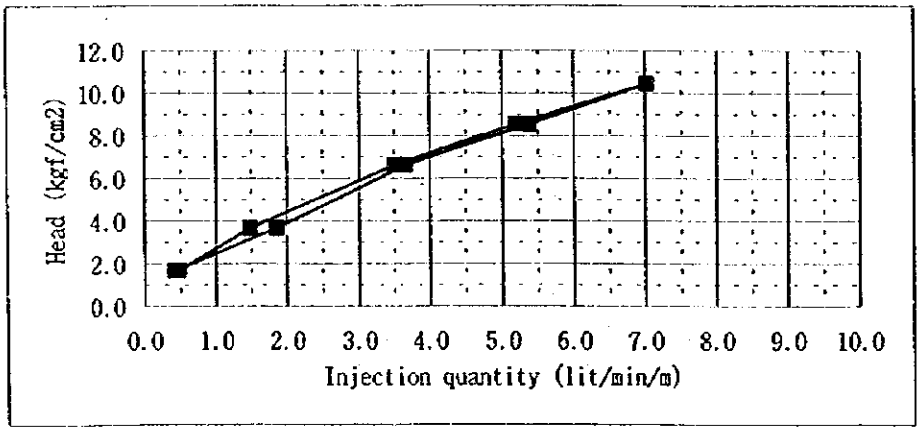


WATER PRESSURE TEST RECORD

Hole No. 94-1 4/19

Test section (m) 19.55 - 25.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	2.4	0.4	0.00	5.65	1.70	90.00	5.00	1.7	2.5
3.00	10.5	1.9	0.02	5.65	1.70	90.00	5.00	3.7	5.1
6.00	20.7	3.7	0.06	5.65	1.70	90.00	5.00	6.6	5.5
8.00	30.4	5.4	0.14	5.65	1.70	90.00	5.00	8.5	6.3
10.00	39.7	7.0	0.23	5.65	1.70	90.00	5.00	10.4	6.7
8.00	29.4	5.2	0.13	5.65	1.70	90.00	5.00	8.5	6.1
6.00	19.8	3.5	0.06	5.65	1.70	90.00	5.00	6.6	5.3
3.00	8.4	1.5	0.01	5.65	1.70	90.00	5.00	3.7	4.1
1.00	2.7	0.5	0.00	5.65	1.70	90.00	5.00	1.7	2.9

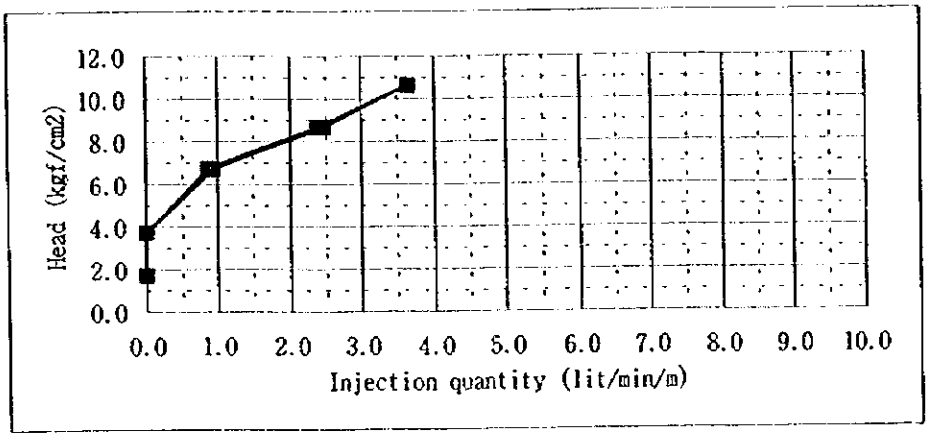


WATER PRESSURE TEST RECORD

Hole No. 94-1 5/19

Test section (m) 25.20 - 31.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	6.05	0.75	90.00	6.40	1.7	0.0
3.00	0.0	0.0	0.00	6.05	0.75	90.00	6.40	3.7	0.0
6.00	5.7	0.9	0.01	6.05	0.75	90.00	6.40	6.7	1.4
8.00	14.9	2.5	0.04	6.05	0.75	90.00	6.40	8.7	2.8
10.00	22.1	3.7	0.09	6.05	0.75	90.00	6.40	10.6	3.4
8.00	14.4	2.4	0.04	6.05	0.75	90.00	6.40	8.7	2.7
6.00	5.2	0.9	0.00	6.05	0.75	90.00	6.40	6.7	1.3
3.00	0.0	0.0	0.00	6.05	0.75	90.00	6.40	3.7	0.0

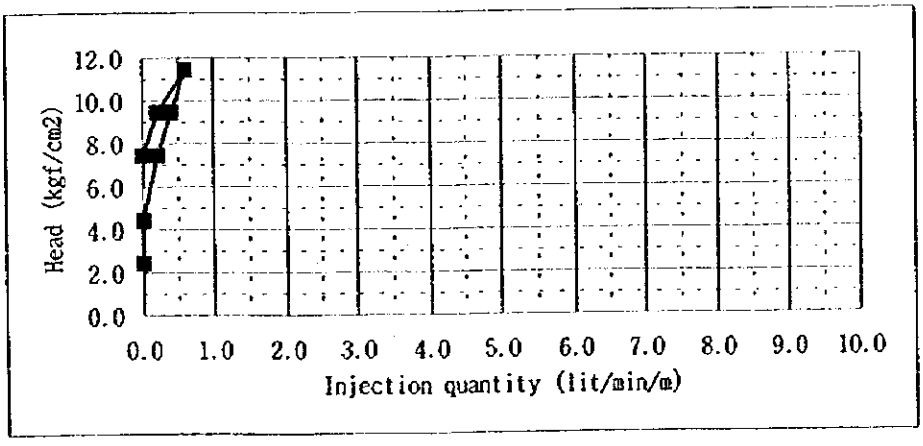


WATER PRESSURE TEST RECORD

Hole No. 94-1 6/19

Test section (m) 29.25 - 34.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.15	90.00	13.20	2.4	0.0
3.00	0.0	0.0	0.00	5.00	1.15	90.00	13.20	4.4	0.0
6.00	1.0	0.2	0.00	5.00	1.15	90.00	13.20	7.4	0.3
8.00	2.0	0.4	0.00	5.00	1.15	90.00	13.20	9.4	0.4
10.00	3.0	0.6	0.00	5.00	1.15	90.00	13.20	11.4	0.5
8.00	1.0	0.2	0.00	5.00	1.15	90.00	13.20	9.4	0.2
6.00	0.0	0.0	0.00	5.00	1.15	90.00	13.20	7.4	0.0

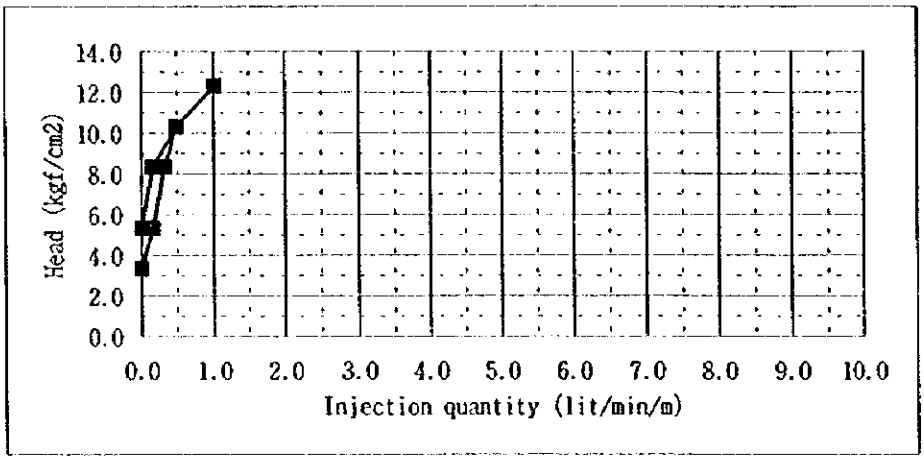


WATER PRESSURE TEST RECORD

Hole No. 94-1 7/19

Test section (m) 35.25 - 41.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	6.10	1.15	90.00	22.10	3.3	0.0
3.00	1.0	0.2	0.00	6.10	1.15	90.00	22.10	5.3	0.3
6.00	2.0	0.3	0.00	6.10	1.15	90.00	22.10	8.3	0.4
8.00	3.0	0.5	0.00	6.10	1.15	90.00	22.10	10.3	0.5
10.00	6.2	1.0	0.01	6.10	1.15	90.00	22.10	12.3	0.8
8.00	3.0	0.5	0.00	6.10	1.15	90.00	22.10	10.3	0.5
6.00	1.0	0.2	0.00	6.10	1.15	90.00	22.10	8.3	0.2
3.00	0.0	0.0	0.00	6.10	1.15	90.00	22.10	5.3	0.0

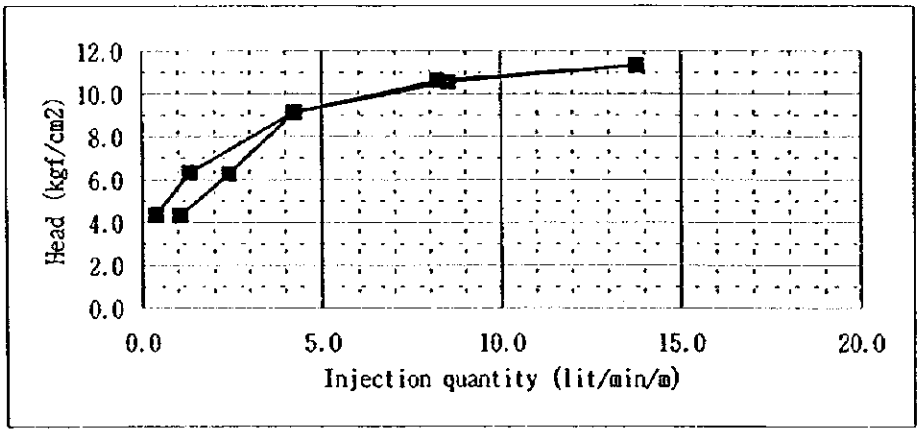


WATER PRESSURE TEST RECORD

Hole No. 94-1 8/19

Test section (m) 41.35 - 47.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	6.4	1.1	0.01	6.00	1.15	90.00	32.10	4.3	2.5
3.00	14.5	2.4	0.06	6.00	1.15	90.00	32.10	6.3	3.9
6.00	25.6	4.3	0.19	6.00	1.15	90.00	32.10	9.1	4.7
8.00	51.2	8.5	0.77	6.00	1.15	90.00	32.10	10.6	8.1
10.00	82.7	13.8	2.01	6.00	1.15	90.00	32.10	11.3	12.2
8.00	49.3	8.2	0.71	6.00	1.15	90.00	32.10	10.6	7.7
6.00	25.5	4.3	0.19	6.00	1.15	90.00	32.10	9.1	4.7
3.00	7.9	1.3	0.02	6.00	1.15	90.00	32.10	6.3	2.1
1.00	2.3	0.4	0.00	6.00	1.15	90.00	32.10	4.3	0.9

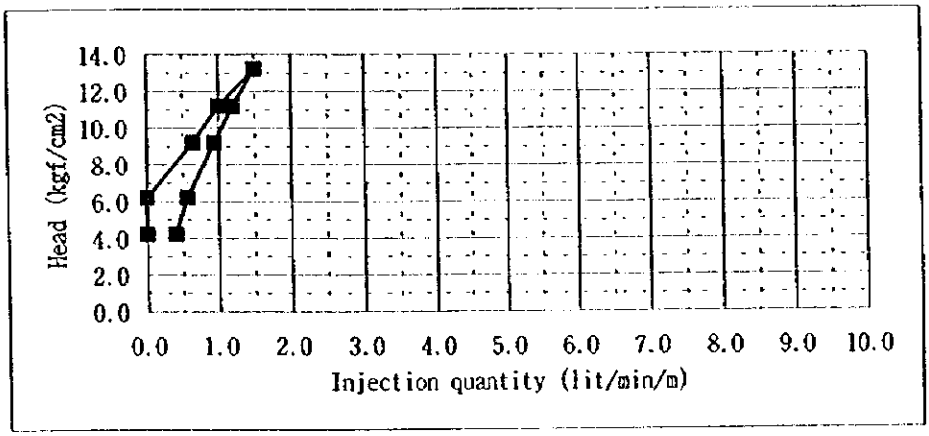


WATER PRESSURE TEST RECORD

Hole No. 94-1 9/19

Test section (m) 47.00 - 52.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.10	90.00	31.00	4.2	0.0
3.00	0.0	0.0	0.00	5.00	1.10	90.00	31.00	6.2	0.0
6.00	3.2	0.6	0.00	5.00	1.10	90.00	31.00	9.2	0.7
8.00	5.0	1.0	0.01	5.00	1.10	90.00	31.00	11.2	0.9
10.00	7.5	1.5	0.02	5.00	1.10	90.00	31.00	13.2	1.1
8.00	6.0	1.2	0.01	5.00	1.10	90.00	31.00	11.2	1.1
6.00	4.7	0.9	0.01	5.00	1.10	90.00	31.00	9.2	1.0
3.00	2.8	0.6	0.00	5.00	1.10	90.00	31.00	6.2	0.9
1.00	2.0	0.4	0.00	5.00	1.10	90.00	31.00	4.2	1.0

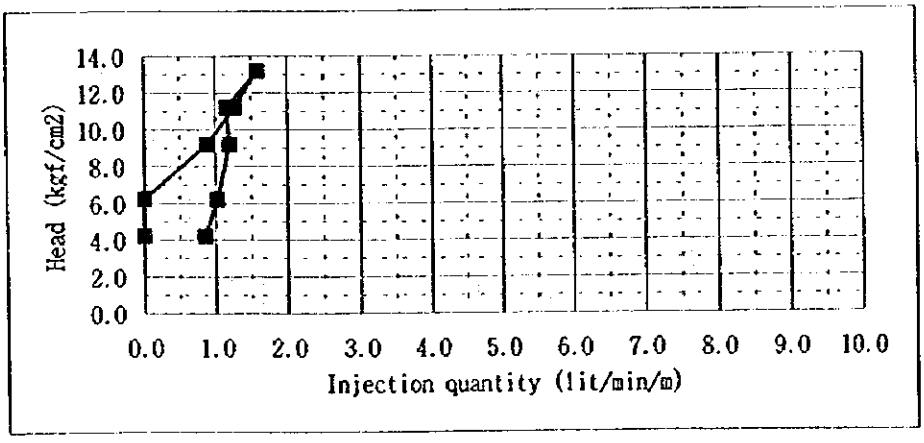


WATER PRESSURE TEST RECORD

Hole No. 94-1 10/19

Test section (m) 52.00 - 57.85

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.85	2.15	90.00	30.00	4.2	0.0
3.00	0.0	0.0	0.00	5.85	2.15	90.00	30.00	6.2	0.0
6.00	5.2	0.9	0.01	5.85	2.15	90.00	30.00	9.2	1.0
8.00	7.4	1.3	0.02	5.85	2.15	90.00	30.00	11.2	1.1
10.00	9.3	1.6	0.03	5.85	2.15	90.00	30.00	13.2	1.2
8.00	6.8	1.2	0.02	5.85	2.15	90.00	30.00	11.2	1.0
6.00	7.0	1.2	0.02	5.85	2.15	90.00	30.00	9.2	1.3
3.00	6.0	1.0	0.01	5.85	2.15	90.00	30.00	6.2	1.7
1.00	5.0	0.9	0.01	5.85	2.15	90.00	30.00	4.2	2.0

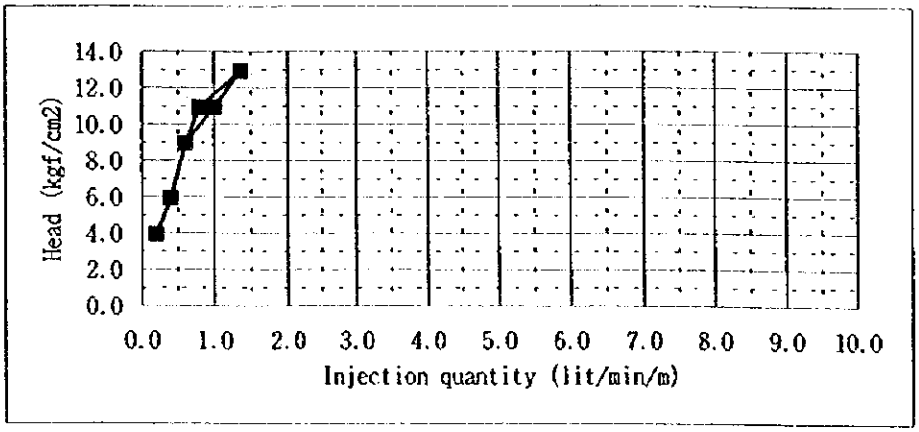


WATER PRESSURE TEST RECORD

Hole No. 94-1 11/19

Test section (m) 57.55 - 62.55

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.0	0.2	0.00	5.00	1.35	90.00	28.00	3.9	0.5
3.00	2.0	0.4	0.00	5.00	1.35	90.00	28.00	5.9	0.7
6.00	3.0	0.6	0.00	5.00	1.35	90.00	28.00	8.9	0.7
8.00	4.0	0.8	0.01	5.00	1.35	90.00	28.00	10.9	0.7
10.00	6.8	1.4	0.02	5.00	1.35	90.00	28.00	12.9	1.1
8.00	5.0	1.0	0.01	5.00	1.35	90.00	28.00	10.9	0.9
6.00	3.0	0.6	0.00	5.00	1.35	90.00	28.00	8.9	0.7
3.00	2.0	0.4	0.00	5.00	1.35	90.00	28.00	5.9	0.7
1.00	1.0	0.2	0.00	5.00	1.35	90.00	28.00	3.9	0.5

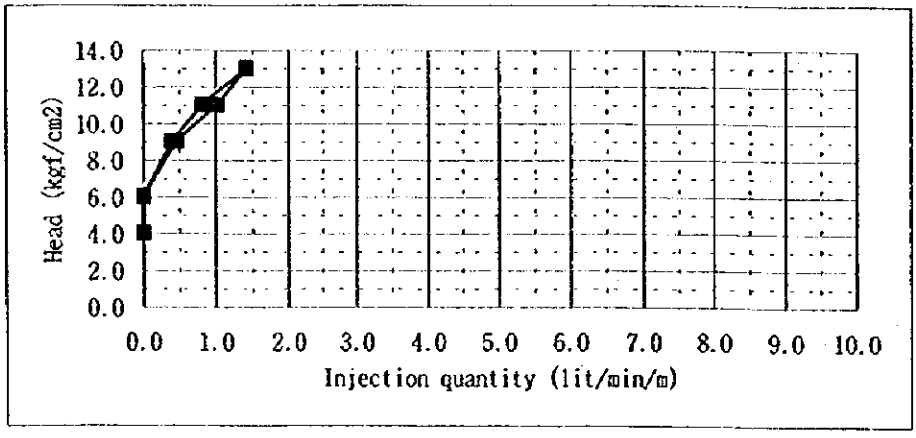


WATER PRESSURE TEST RECORD

Hole No. 94-1 12/19

Test section (m) 62.25 - 67.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.15	90.00	29.30	4.0	0.0
3.00	0.0	0.0	0.00	5.00	1.15	90.00	29.30	6.0	0.0
6.00	2.3	0.5	0.00	5.00	1.15	90.00	29.30	9.0	0.5
8.00	5.1	1.0	0.01	5.00	1.15	90.00	29.30	11.0	0.9
10.00	7.1	1.4	0.02	5.00	1.15	90.00	29.30	13.0	1.1
8.00	4.1	0.8	0.01	5.00	1.15	90.00	29.30	11.0	0.7
6.00	2.0	0.4	0.00	5.00	1.15	90.00	29.30	9.0	0.4
3.00	0.0	0.0	0.00	5.00	1.15	90.00	29.30	6.0	0.0

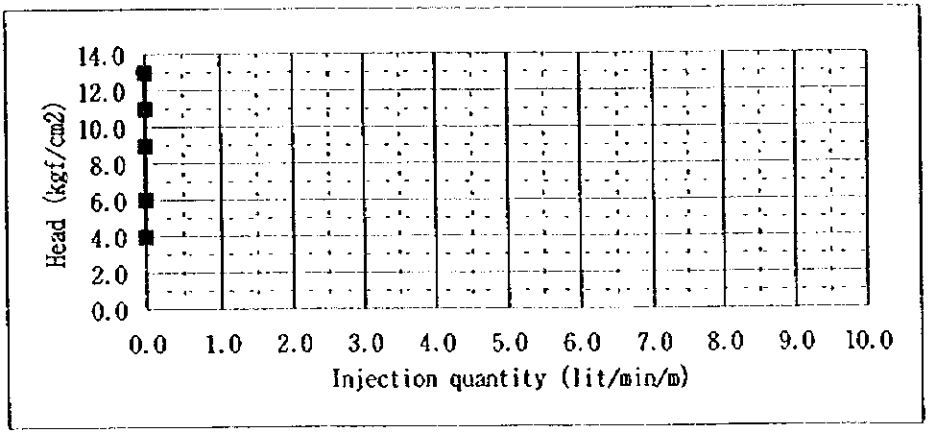


WATER PRESSURE TEST RECORD

Hole No. 94-1 13/19

Test section (m) 67.05 - 72.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.90	90.00	28.80	4.0	0.0
3.00	0.0	0.0	0.00	5.00	0.90	90.00	28.80	6.0	0.0
6.00	0.0	0.0	0.00	5.00	0.90	90.00	28.80	9.0	0.0
8.00	0.0	0.0	0.00	5.00	0.90	90.00	28.80	11.0	0.0
10.00	0.0	0.0	0.00	5.00	0.90	90.00	28.80	13.0	0.0

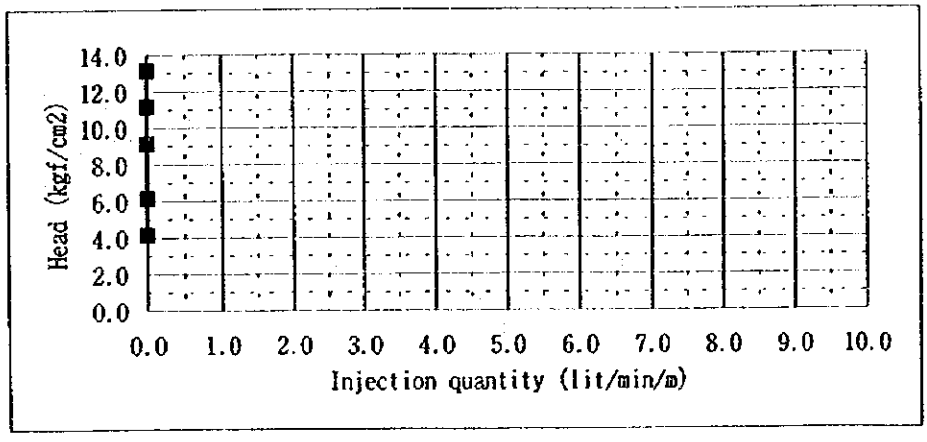


WATER PRESSURE TEST RECORD

Hole No. 94-1 14/19

Test section (m) 72.05 - 77.45

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.40	1.85	90.00	29.55	4.1	0.0
3.00	0.0	0.0	0.00	5.40	1.85	90.00	29.55	6.1	0.0
6.00	0.0	0.0	0.00	5.40	1.85	90.00	29.55	9.1	0.0
8.00	0.0	0.0	0.00	5.40	1.85	90.00	29.55	11.1	0.0
10.00	0.0	0.0	0.00	5.40	1.85	90.00	29.55	13.1	0.0

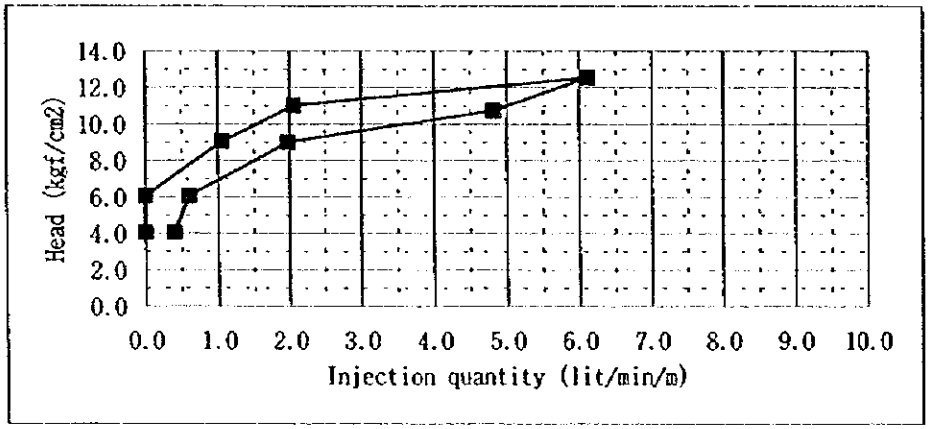


WATER PRESSURE TEST RECORD

Hole No. 94-1 15/19

Test section (m) 77.20 - 82.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	29.30	4.1	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	29.30	6.1	0.0
6.00	5.3	1.1	0.02	5.00	1.30	90.00	29.30	9.0	1.2
8.00	10.3	2.1	0.06	5.00	1.30	90.00	29.30	11.0	1.9
10.00	30.6	6.1	0.51	5.00	1.30	90.00	29.30	12.6	4.9
8.00	24.1	4.8	0.31	5.00	1.30	90.00	29.30	10.7	4.5
6.00	9.9	2.0	0.05	5.00	1.30	90.00	29.30	9.0	2.2
3.00	3.0	0.6	0.00	5.00	1.30	90.00	29.30	6.1	1.0
1.00	2.0	0.4	0.00	5.00	1.30	90.00	29.30	4.1	1.0

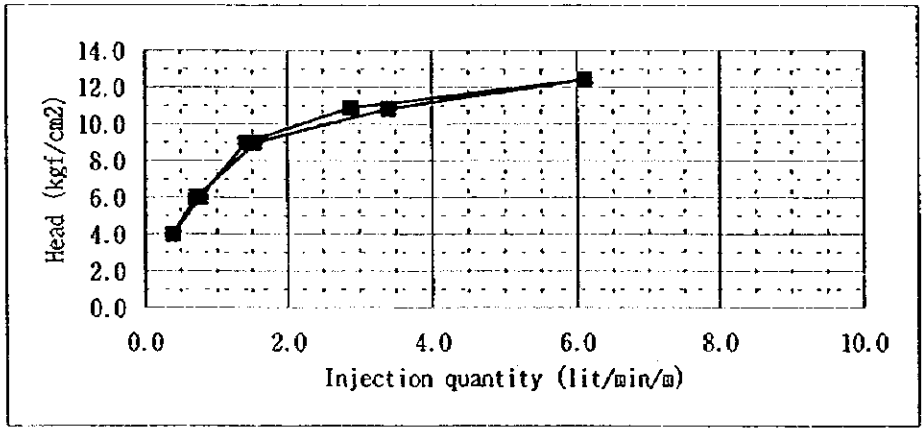


WATER PRESSURE TEST RECORD

Hole No. 94-1 16/19

Test section (m) 82.20 - 87.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	2.0	0.4	0.00	5.20	0.55	90.00	29.40	4.0	1.0
3.00	4.0	0.8	0.01	5.20	0.55	90.00	29.40	6.0	1.3
6.00	7.3	1.4	0.03	5.20	0.55	90.00	29.40	9.0	1.6
8.00	15.0	2.9	0.13	5.20	0.55	90.00	29.40	10.9	2.7
10.00	31.8	6.1	0.58	5.20	0.55	90.00	29.40	12.4	4.9
8.00	17.7	3.4	0.18	5.20	0.55	90.00	29.40	10.8	3.1
6.00	8.0	1.5	0.04	5.20	0.55	90.00	29.40	9.0	1.7
3.00	3.7	0.7	0.01	5.20	0.55	90.00	29.40	6.0	1.2
1.00	2.0	0.4	0.00	5.20	0.55	90.00	29.40	4.0	1.0

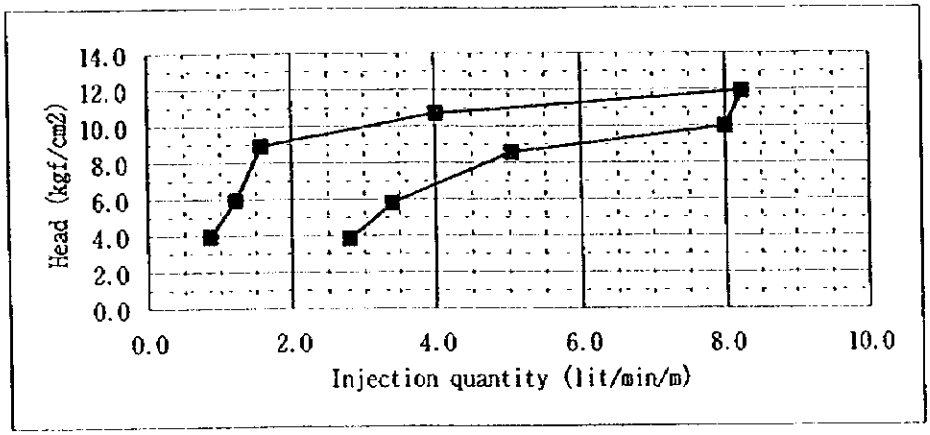


WATER PRESSURE TEST RECORD

Hole No. 94-1 17/19

Test section (m) 87.40 - 92.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	4.3	0.9	0.01	5.00	1.35	90.00	28.20	3.9	2.2
3.00	6.1	1.2	0.02	5.00	1.35	90.00	28.20	5.9	2.1
6.00	7.9	1.6	0.04	5.00	1.35	90.00	28.20	8.9	1.8
8.00	20.1	4.0	0.25	5.00	1.35	90.00	28.20	10.7	3.8
10.00	41.2	8.2	1.04	5.00	1.35	90.00	28.20	11.9	6.9
8.00	40.0	8.0	0.98	5.00	1.35	90.00	28.20	10.0	8.0
6.00	25.2	5.0	0.39	5.00	1.35	90.00	28.20	8.6	5.9
3.00	17.0	3.4	0.18	5.00	1.35	90.00	28.20	5.8	5.9
1.00	14.0	2.8	0.12	5.00	1.35	90.00	28.20	3.8	7.3

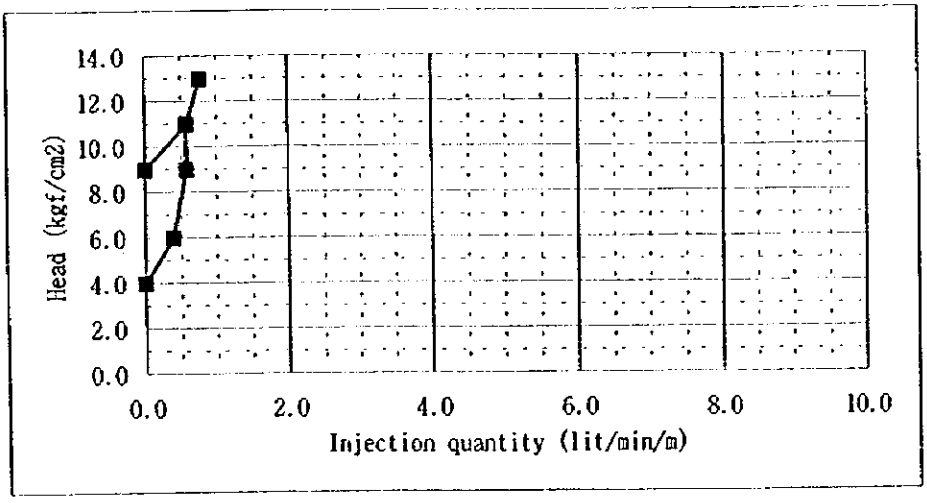


WATER PRESSURE TEST RECORD

Hole No. 94-1 18/19

Test section (m) 92.40 - 97.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.20	1.05	90.00	28.60	4.0	0.0
3.00	2.0	0.4	0.00	5.20	1.05	90.00	28.60	6.0	0.6
6.00	3.0	0.6	0.01	5.20	1.05	90.00	28.60	9.0	0.6
8.00	3.0	0.6	0.01	5.20	1.05	90.00	28.60	11.0	0.5
10.00	4.0	0.8	0.01	5.20	1.05	90.00	28.60	13.0	0.6
8.00	3.0	0.6	0.01	5.20	1.05	90.00	28.60	11.0	0.5
6.00	0.0	0.0	0.00	5.20	1.05	90.00	28.60	9.0	0.0

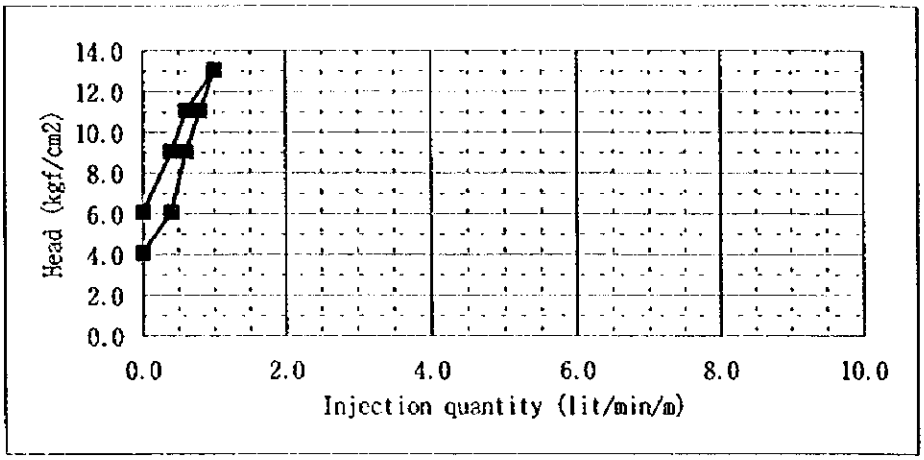


WATER PRESSURE TEST RECORD

Hole No. 94-1 19/19

Test section (m) 95.20 - 100.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.25	90.00	29.50	4.1	0.0
3.00	2.0	0.4	0.00	5.00	1.25	90.00	29.50	6.1	0.7
6.00	3.0	0.6	0.01	5.00	1.25	90.00	29.50	9.1	0.7
8.00	4.0	0.8	0.01	5.00	1.25	90.00	29.50	11.1	0.7
10.00	5.0	1.0	0.02	5.00	1.25	90.00	29.50	13.1	0.8
8.00	3.0	0.6	0.01	5.00	1.25	90.00	29.50	11.1	0.5
6.00	2.0	0.4	0.00	5.00	1.25	90.00	29.50	9.1	0.4
3.00	0.0	0.0	0.00	5.00	1.25	90.00	29.50	6.1	0.0



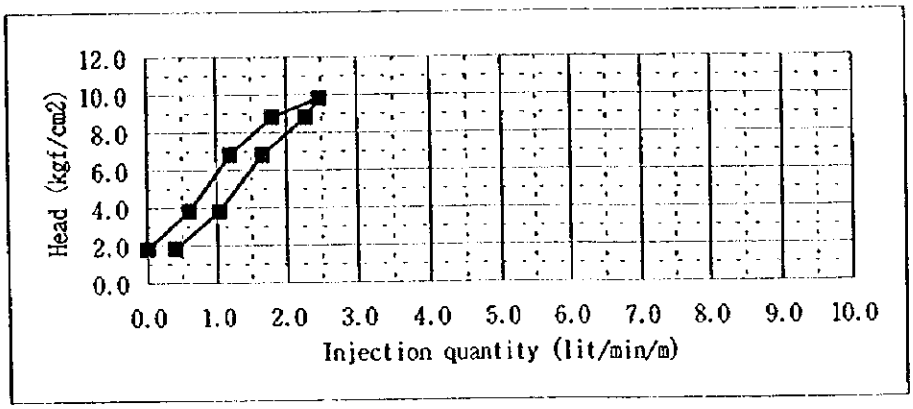
WATER PRESSURE TEST RECORD

Hole No. 94-2 1/13

Test section (m) 7.15 - 12.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	2.0	0.4	0.00	5.00	0.60	90.00	7.65	1.8	2.2
3.00	5.2	1.0	0.00	5.00	0.60	90.00	7.65	3.8	2.7
6.00	8.3	1.7	0.00	5.00	0.60	90.00	7.65	6.8	2.4
8.00	11.4	2.3	0.01	5.00	0.60	90.00	7.65	8.8	2.6
9.00	12.4	2.5	0.01	5.00	0.60	90.00	7.65	9.8	2.5
8.00	9.0	1.8	0.00	5.00	0.60	90.00	7.65	8.8	2.0
6.00	6.0	1.2	0.00	5.00	0.60	90.00	7.65	6.8	1.8
3.00	3.0	0.6	0.00	5.00	0.60	90.00	7.65	3.8	1.6
1.00	0.0	0.0	0.00	5.00	0.60	90.00	7.65	1.8	0.0

6.90E-05 : Constant number of rod friction loss for BW boring rod

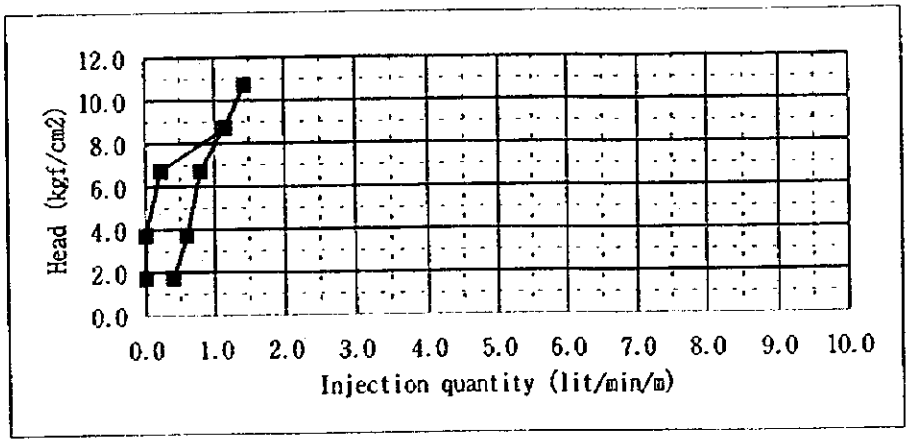


WATER PRESSURE TEST RECORD

Hole No. 94-2 2/13

Test section (m) 13.50 - 18.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.45	90.00	6.65	1.7	0.0
3.00	0.0	0.0	0.00	5.00	0.45	90.00	6.65	3.7	0.0
6.00	1.1	0.2	0.00	5.00	0.45	90.00	6.65	6.7	0.3
8.00	5.8	1.2	0.00	5.00	0.45	90.00	6.65	8.7	1.3
10.00	7.2	1.4	0.00	5.00	0.45	90.00	6.65	10.7	1.3
8.00	5.7	1.1	0.00	5.00	0.45	90.00	6.65	8.7	1.3
6.00	4.0	0.8	0.00	5.00	0.45	90.00	6.65	6.7	1.2
3.00	3.0	0.6	0.00	5.00	0.45	90.00	6.65	3.7	1.6
1.00	2.0	0.4	0.00	5.00	0.45	90.00	6.65	1.7	2.3

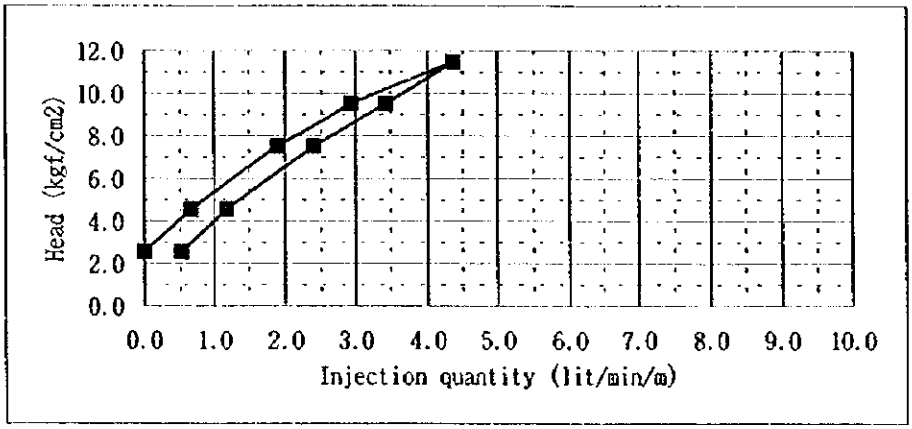


WATER PRESSURE TEST RECORD

Hole No. 94-2 3/13

Test section (m) 18.50 - 23.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.35	90.00	14.10	2.5	0.0
3.00	3.3	0.7	0.00	5.00	1.35	90.00	14.10	4.5	1.5
6.00	9.5	1.9	0.01	5.00	1.35	90.00	14.10	7.5	2.5
8.00	14.7	2.9	0.03	5.00	1.35	90.00	14.10	9.5	3.1
10.00	21.8	4.4	0.07	5.00	1.35	90.00	14.10	11.5	3.8
8.00	17.2	3.4	0.04	5.00	1.35	90.00	14.10	9.5	3.6
6.00	12.0	2.4	0.02	5.00	1.35	90.00	14.10	7.5	3.2
3.00	5.9	1.2	0.00	5.00	1.35	90.00	14.10	4.5	2.6
1.00	2.6	0.5	0.00	5.00	1.35	90.00	14.10	2.5	2.0

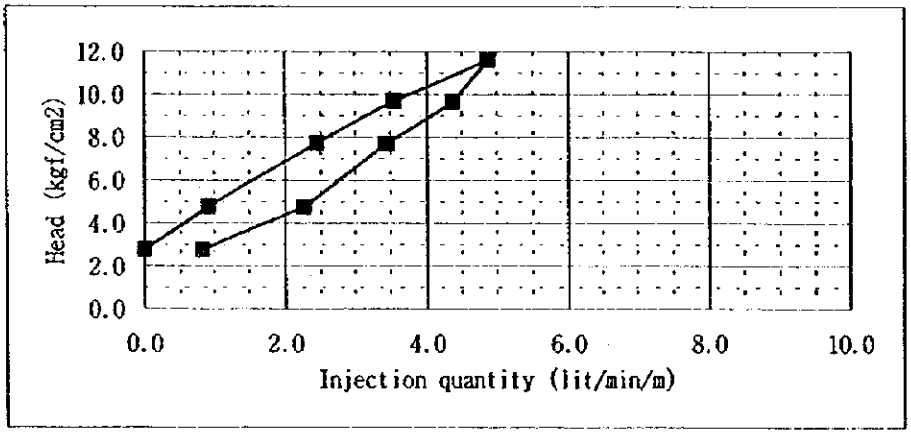


WATER PRESSURE TEST RECORD

Hole No. 94-2 4/13

Test section (m) 23.50 - 29.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	6.00	0.90	90.00	16.70	2.8	0.0
3.00	5.5	0.9	0.01	6.00	0.90	90.00	16.70	4.8	1.9
6.00	14.7	2.5	0.04	6.00	0.90	90.00	16.70	7.7	3.2
8.00	21.3	3.6	0.08	6.00	0.90	90.00	16.70	9.7	3.7
10.00	29.3	4.9	0.14	6.00	0.90	90.00	16.70	11.6	4.2
8.00	26.2	4.4	0.12	6.00	0.90	90.00	16.70	9.6	4.5
6.00	20.7	3.5	0.07	6.00	0.90	90.00	16.70	7.7	4.5
3.00	13.6	2.3	0.03	6.00	0.90	90.00	16.70	4.7	4.8
1.00	5.0	0.8	0.00	6.00	0.90	90.00	16.70	2.8	3.0

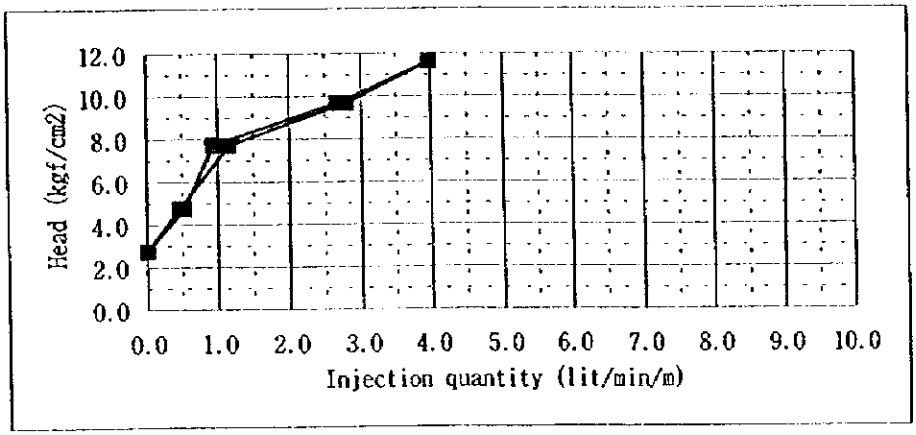


WATER PRESSURE TEST RECORD

Hole No. 94-2 5/13

Test section (m) 29.50 - 35.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.65	0.90	90.00	16.40	2.7	0.0
3.00	2.6	0.5	0.00	5.65	0.90	90.00	16.40	4.7	1.0
6.00	6.6	1.2	0.01	5.65	0.90	90.00	16.40	7.7	1.5
8.00	15.8	2.8	0.05	5.65	0.90	90.00	16.40	9.7	2.9
10.00	22.5	4.0	0.11	5.65	0.90	90.00	16.40	11.6	3.4
8.00	15.1	2.7	0.05	5.65	0.90	90.00	16.40	9.7	2.8
6.00	5.3	0.9	0.01	5.65	0.90	90.00	16.40	7.7	1.2
3.00	3.0	0.5	0.00	5.65	0.90	90.00	16.40	4.7	1.1
1.00	0.0	0.0	0.00	5.65	0.90	90.00	16.40	2.7	0.0

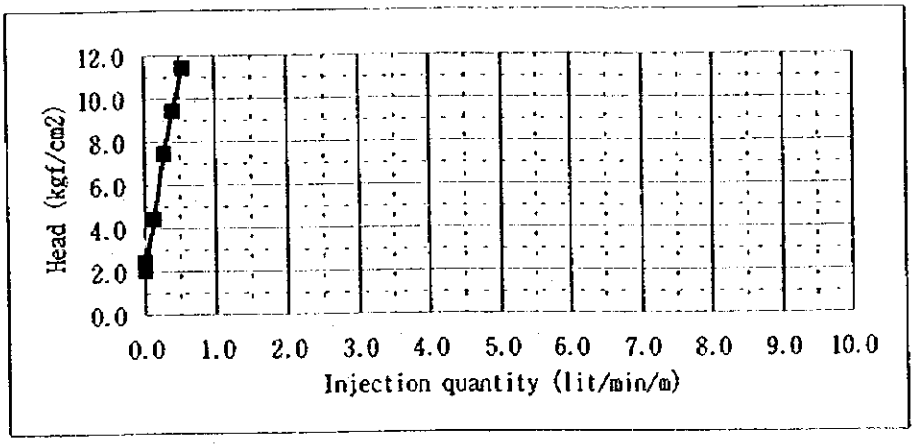


WATER PRESSURE TEST RECORD

Hole No. 94-2 6/13

Test section (m) 35.15 - 42.45

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	7.30	1.25	90.00	9.20	2.0	0.0
3.00	1.0	0.1	0.00	7.30	1.15	90.00	13.20	4.4	0.3
6.00	2.0	0.3	0.00	7.30	1.15	90.00	13.20	7.4	0.4
8.00	3.0	0.4	0.00	7.30	1.15	90.00	13.20	9.4	0.4
10.00	4.0	0.5	0.00	7.30	1.15	90.00	13.20	11.4	0.5
8.00	3.0	0.4	0.00	7.30	1.15	90.00	13.20	9.4	0.4
6.00	2.0	0.3	0.00	7.30	1.15	90.00	13.20	7.4	0.4
3.00	1.0	0.1	0.00	7.30	1.15	90.00	13.20	4.4	0.3
1.00	0.0	0.0	0.00	7.30	1.15	90.00	13.20	2.4	0.0

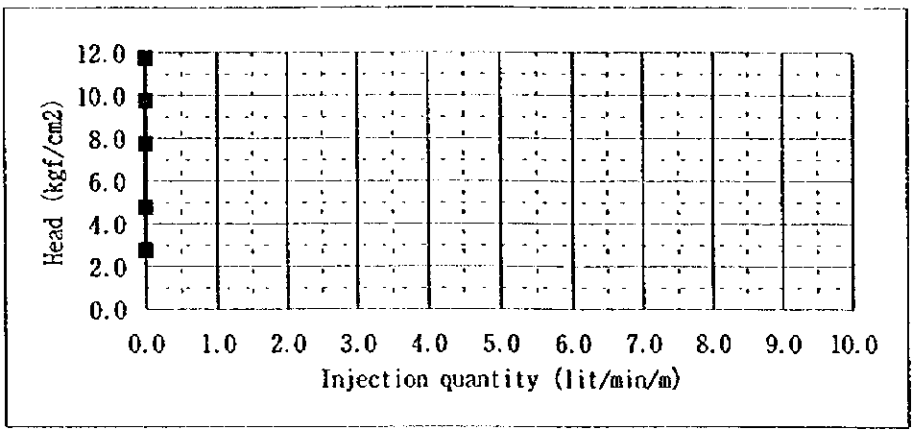


WATER PRESSURE TEST RECORD

Hole No. 94-2 7/13

Test section (m) 42.40 - 47.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.65	90.00	15.80	2.7	0.0
3.00	0.0	0.0	0.00	5.00	1.65	90.00	15.80	4.7	0.0
6.00	0.0	0.0	0.00	5.00	1.65	90.00	15.80	7.7	0.0
8.00	0.0	0.0	0.00	5.00	1.65	90.00	15.80	9.7	0.0
10.00	0.0	0.0	0.00	5.00	1.65	90.00	15.80	11.7	0.0

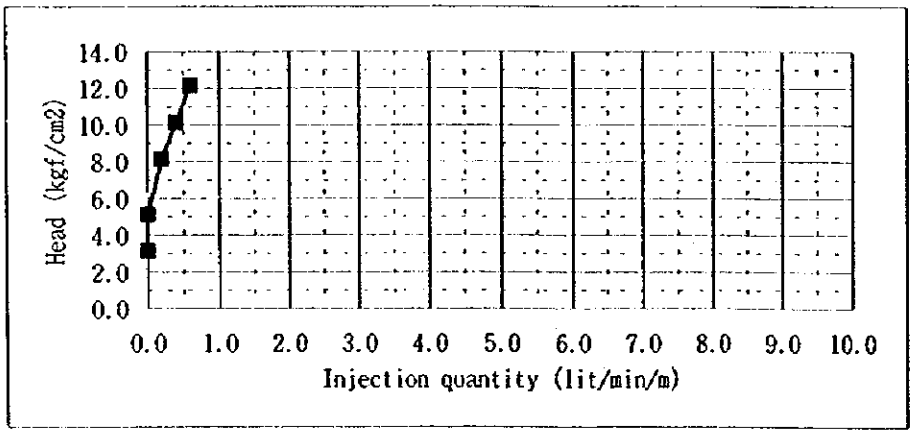


WATER PRESSURE TEST RECORD

Hole No. 94-2 8/13

Test section (m) 47.10 - 52.10

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	20.10	3.1	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	20.10	5.1	0.0
6.00	1.0	0.2	0.00	5.00	1.30	90.00	20.10	8.1	0.2
8.00	2.0	0.4	0.00	5.00	1.30	90.00	20.10	10.1	0.4
10.00	3.0	0.6	0.00	5.00	1.30	90.00	20.10	12.1	0.5
8.00	2.0	0.4	0.00	5.00	1.30	90.00	20.10	10.1	0.4
6.00	1.0	0.2	0.00	5.00	1.30	90.00	20.10	8.1	0.2
3.00	0.0	0.0	0.00	5.00	1.30	90.00	20.10	5.1	0.0

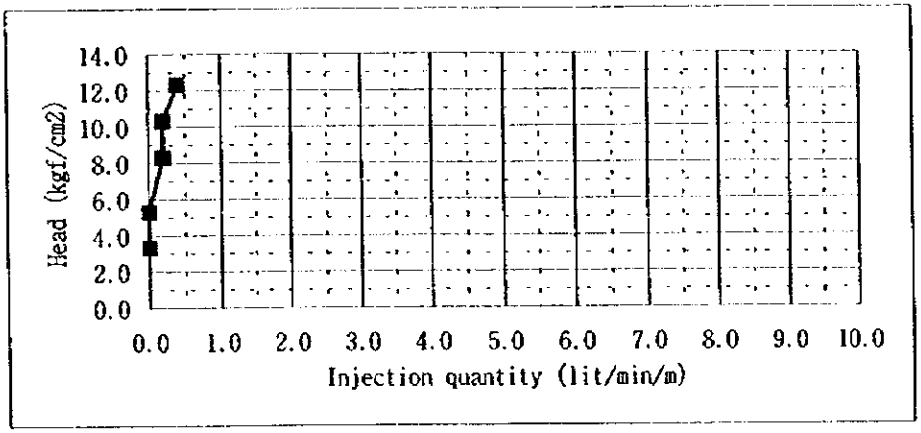


WATER PRESSURE TEST RECORD

Hole No. 94-2 9/13

Test section (m) 52.05 - 57.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.65	90.00	22.40	3.3	0.0
3.00	0.0	0.0	0.00	5.00	0.65	90.00	22.40	5.3	0.0
6.00	1.0	0.2	0.00	5.00	0.65	90.00	22.40	8.3	0.2
8.00	1.0	0.2	0.00	5.00	0.65	90.00	22.40	10.3	0.2
10.00	2.0	0.4	0.00	5.00	0.65	90.00	22.40	12.3	0.3
8.00	1.0	0.2	0.00	5.00	0.65	90.00	22.40	10.3	0.2
6.00	1.0	0.2	0.00	5.00	0.65	90.00	22.40	8.3	0.2
3.00	0.0	0.0	0.00	5.00	0.65	90.00	22.40	5.3	0.0

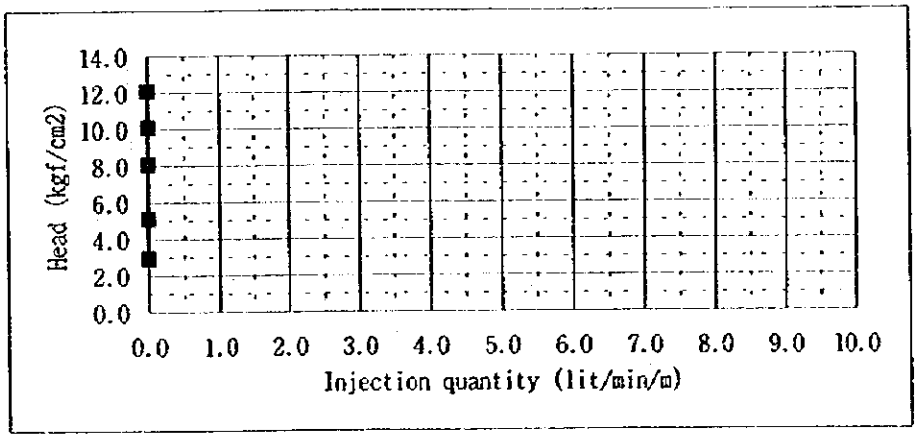


WATER PRESSURE TEST RECORD

Hole No. 94-2 10/13

Test section (m) 56.95 - 61.95

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.45	90.00	18.60	2.9	0.0
3.00	0.0	0.0	0.00	5.00	2.15	90.00	18.60	5.1	0.0
6.00	0.0	0.0	0.00	5.00	2.15	90.00	18.60	8.1	0.0
8.00	0.0	0.0	0.00	5.00	2.15	90.00	18.60	10.1	0.0
10.00	0.0	0.0	0.00	5.00	2.15	90.00	18.60	12.1	0.0

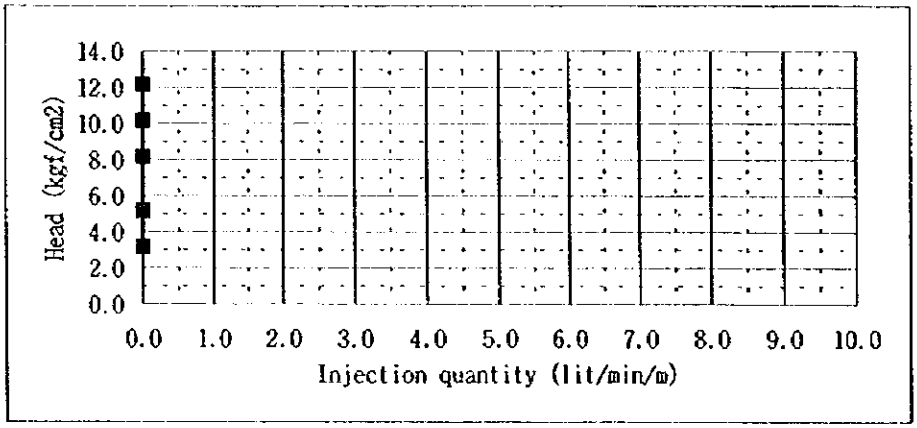


WATER PRESSURE TEST RECORD

Hole No. 94-2 11/13

Test section (m) 61.85 - 66.85

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.70	90.00	19.90	3.2	0.0
3.00	0.0	0.0	0.00	5.00	1.70	90.00	19.90	5.2	0.0
6.00	0.0	0.0	0.00	5.00	1.70	90.00	19.90	8.2	0.0
8.00	0.0	0.0	0.00	5.00	1.70	90.00	19.90	10.2	0.0
10.00	0.0	0.0	0.00	5.00	1.70	90.00	19.90	12.2	0.0

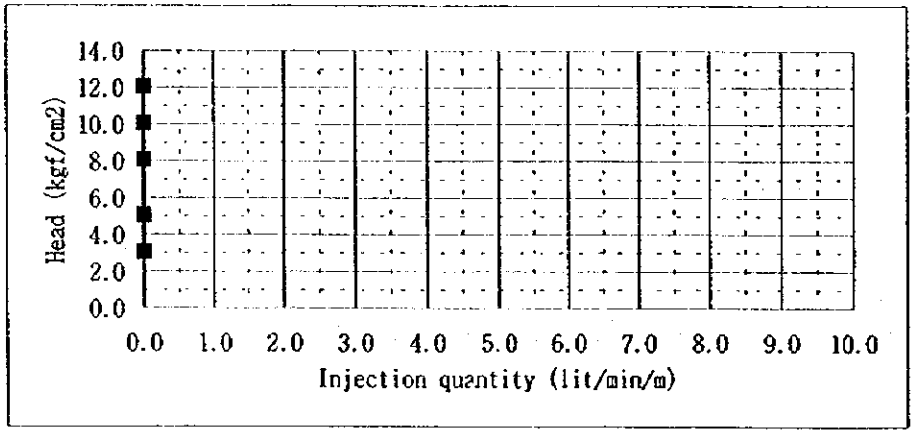


WATER PRESSURE TEST RECORD

Hole No. 94-2 12/13

Test section (m) 65.00 - 70.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.45	90.00	19.20	3.1	0.0
3.00	0.0	0.0	0.00	5.00	1.45	90.00	19.20	5.1	0.0
6.00	0.0	0.0	0.00	5.00	1.45	90.00	19.20	8.1	0.0
8.00	0.0	0.0	0.00	5.00	1.45	90.00	19.20	10.1	0.0
10.00	0.0	0.0	0.00	5.00	1.45	90.00	19.20	12.1	0.0

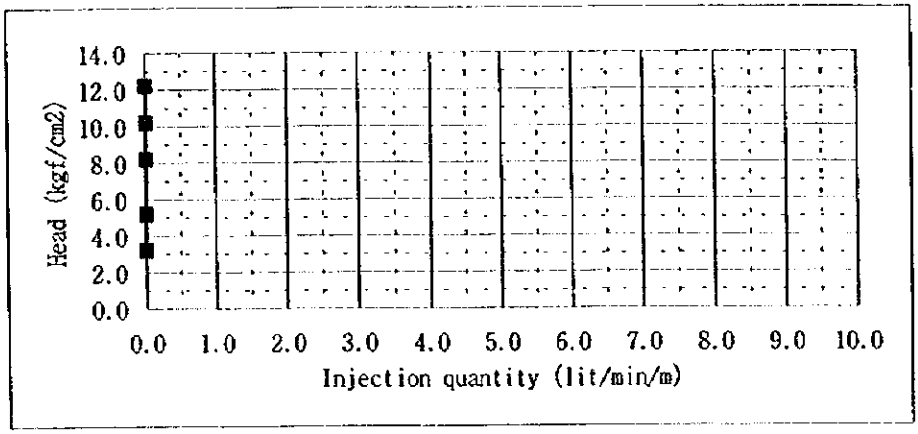


WATER PRESSURE TEST RECORD

Hole No. 94-2 13/13

Test section (m) 70.00 - 75.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.95	90.00	21.10	3.2	0.0
3.00	0.0	0.0	0.00	5.00	0.95	90.00	21.10	5.2	0.0
6.00	0.0	0.0	0.00	5.00	0.95	90.00	21.10	8.2	0.0
8.00	0.0	0.0	0.00	5.00	0.95	90.00	21.10	10.2	0.0
10.00	0.0	0.0	0.00	5.00	0.95	90.00	21.10	12.2	0.0



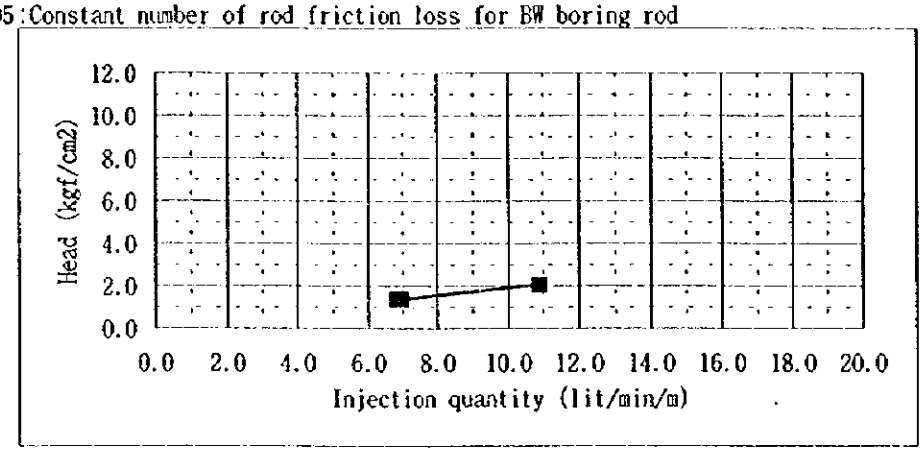
WATER PRESSURE TEST RECORD

Hole No. 94-3 1/19

Test section (m) 4.00 - 10.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	41.3	6.8	0.07	6.05	1.60	60.00	3.10	1.4	50.1
1.80	65.9	10.9	0.17	6.05	1.60	60.00	3.10	2.1	52.9
1.00	42.3	7.0	0.07	6.05	1.60	60.00	3.10	1.4	51.4

6.90E-05 : Constant number of rod friction loss for BW boring rod

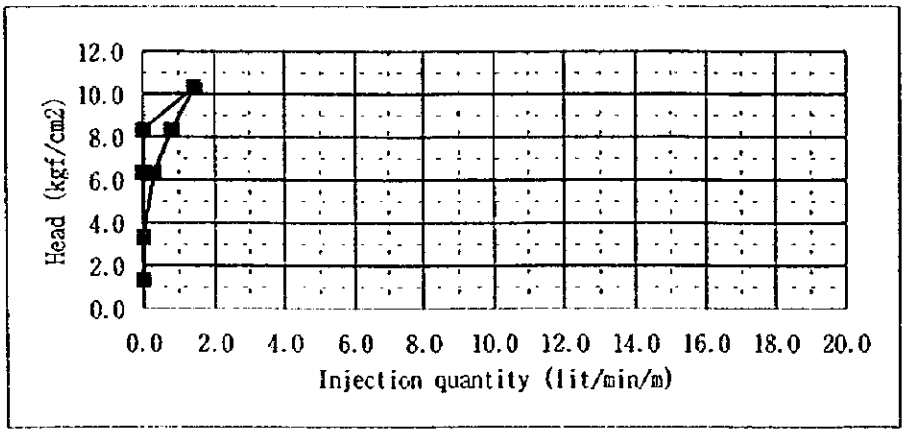


WATER PRESSURE TEST RECORD

Hole No. 94-3 2/19

Test section (m) 11.60 - 16.80

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.20	0.60	60.00	3.00	1.3	0.0
3.00	0.0	0.0	0.00	5.20	0.60	60.00	3.00	3.3	0.0
6.00	0.0	0.0	0.00	5.20	0.60	60.00	3.00	6.3	0.0
8.00	0.0	0.0	0.00	5.20	0.60	60.00	3.00	8.3	0.0
10.00	7.5	1.4	0.00	5.20	0.60	60.00	3.00	10.3	1.4
8.00	4.2	0.8	0.00	5.20	0.60	60.00	3.00	8.3	1.0
6.00	1.6	0.3	0.00	5.20	0.60	60.00	3.00	6.3	0.5
3.00	0.0	0.0	0.00	5.20	0.60	60.00	3.00	3.3	0.0

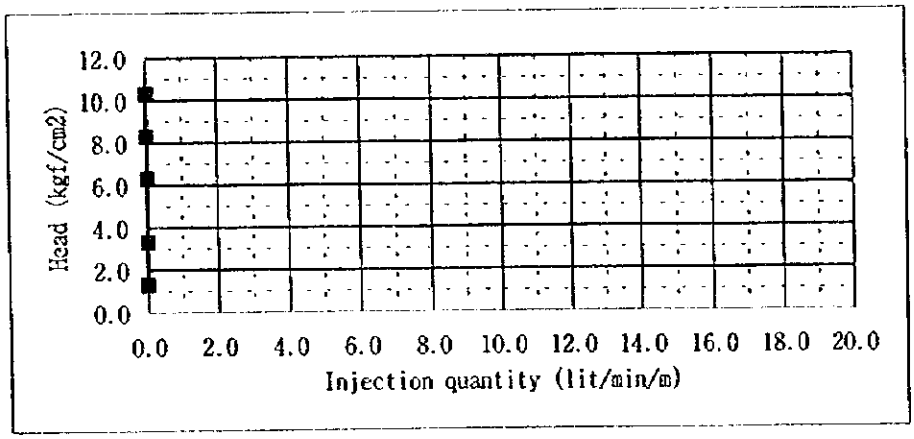


WATER PRESSURE TEST RECORD

Hole No. 94-3 3/19

Test section (m) 16.30 - 21.30

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.45	60.00	3.00	1.3	0.0
3.00	0.0	0.0	0.00	5.00	0.45	60.00	3.00	3.3	0.0
6.00	0.0	0.0	0.00	5.00	0.45	60.00	3.00	6.3	0.0
8.00	0.0	0.0	0.00	5.00	0.45	60.00	3.00	8.3	0.0
10.00	0.0	0.0	0.00	5.00	0.45	60.00	3.00	10.3	0.0

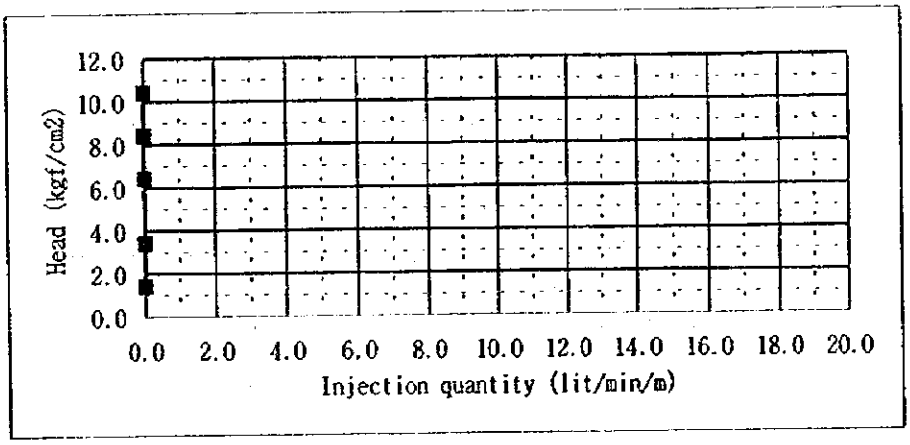


WATER PRESSURE TEST RECORD

Hole No. 94-3 4/19

Test section (m) 21.30 - 26.45

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.15	1.60	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.15	1.60	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.15	1.60	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.15	1.60	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.15	1.60	60.00	3.00	10.4	0.0

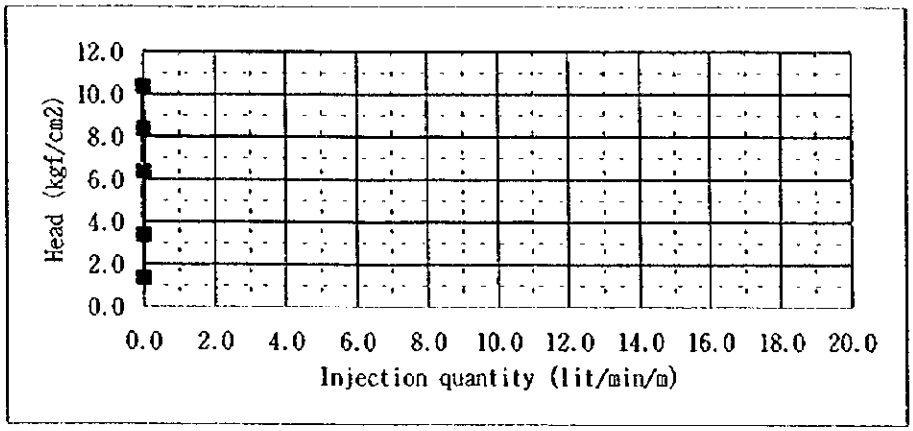


WATER PRESSURE TEST RECORD

Hole No. 94-3 5/19

Test section (m) 26.45 - 31.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.15	0.75	60.00	3.20	1.4	0.0
3.00	0.0	0.0	0.00	5.15	0.75	60.00	3.20	3.4	0.0
6.00	0.0	0.0	0.00	5.15	0.75	60.00	3.20	6.4	0.0
8.00	0.0	0.0	0.00	5.15	0.75	60.00	3.20	8.4	0.0
10.00	0.0	0.0	0.00	5.15	0.75	60.00	3.20	10.4	0.0

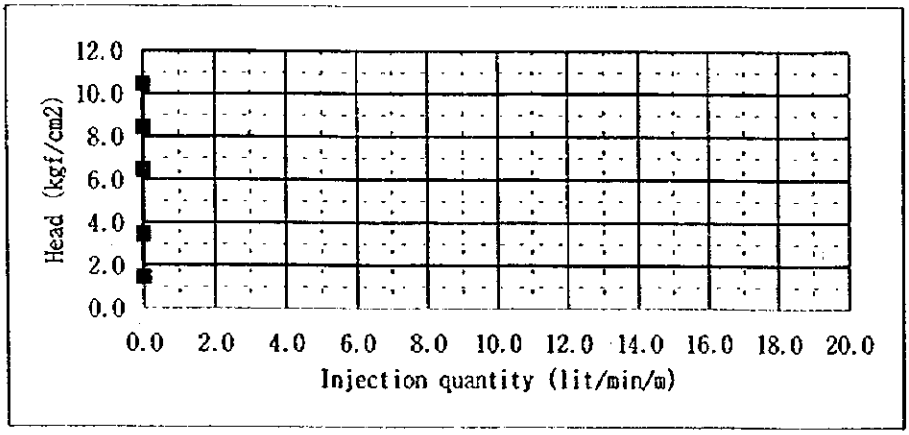


WATER PRESSURE TEST RECORD

Hole No. 94-3 6/19

Test section (m) 31.60 - 36.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.85	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.00	1.85	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.00	1.85	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.00	1.85	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.00	1.85	60.00	3.00	10.4	0.0

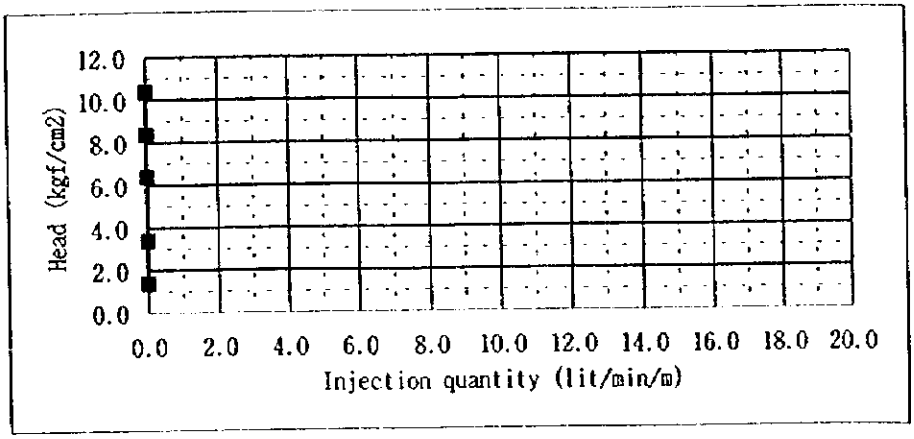


WATER PRESSURE TEST RECORD

Hole No. 94-3 7/19

Test section (m) 36.60 - 41.85

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.25	1.30	60.00	2.90	1.4	0.0
3.00	0.0	0.0	0.00	5.25	1.30	60.00	2.90	3.4	0.0
6.00	0.0	0.0	0.00	5.25	1.30	60.00	2.90	6.4	0.0
8.00	0.0	0.0	0.00	5.25	1.30	60.00	2.90	8.4	0.0
10.00	0.0	0.0	0.00	5.25	1.30	60.00	2.90	10.4	0.0

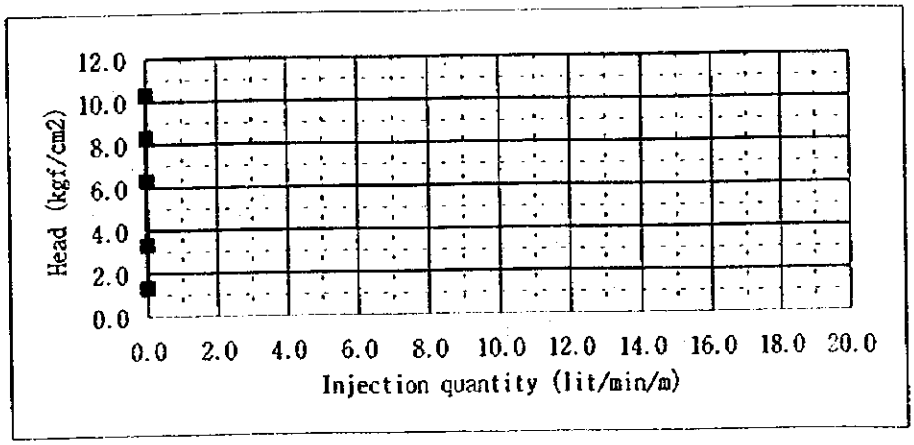


WATER PRESSURE TEST RECORD

Hole No. 94-3 8/19

Test section (m) 41.85 - 46.85

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.55	60.00	3.00	1.3	0.0
3.00	0.0	0.0	0.00	5.00	0.55	60.00	3.00	3.3	0.0
6.00	0.0	0.0	0.00	5.00	0.55	60.00	3.00	6.3	0.0
8.00	0.0	0.0	0.00	5.00	0.55	60.00	3.00	8.3	0.0
10.00	0.0	0.0	0.00	5.00	0.55	60.00	3.00	10.3	0.0

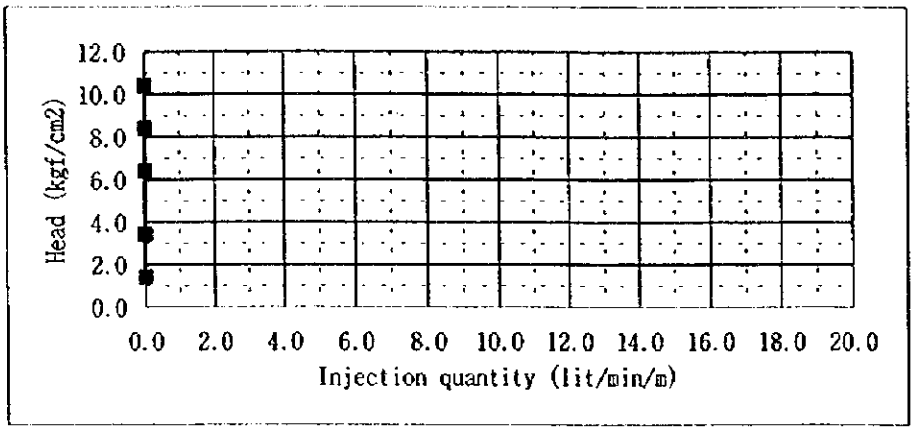


WATER PRESSURE TEST RECORD

Hole No. 94-3 9/19

Test section (m) 46.85 - 52.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.15	1.55	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.15	1.55	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.15	1.55	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.15	1.55	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.15	1.55	60.00	3.00	10.4	0.0

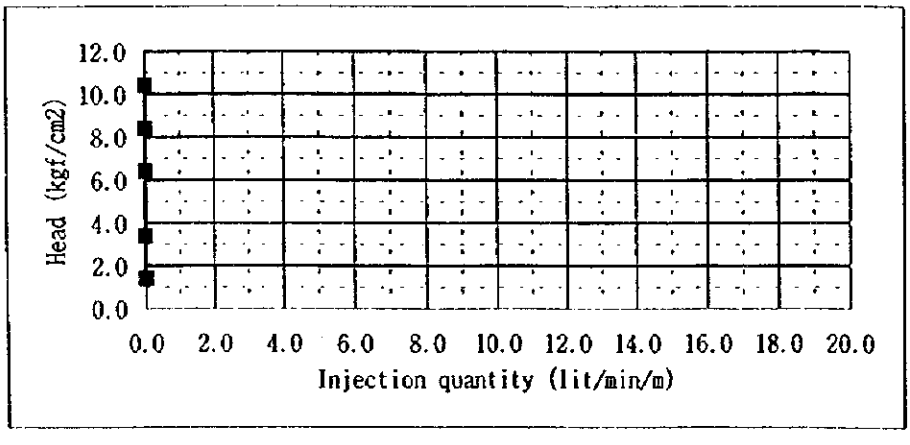


WATER PRESSURE TEST RECORD

Hole No. 94-3 10/19

Test section (m) 52.00 - 57.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.50	0.90	60.00	3.60	1.4	0.0
3.00	0.0	0.0	0.00	5.50	0.90	60.00	3.60	3.4	0.0
6.00	0.0	0.0	0.00	5.50	0.90	60.00	3.60	6.4	0.0
8.00	0.0	0.0	0.00	5.50	0.90	60.00	3.60	8.4	0.0
10.00	0.0	0.0	0.00	5.50	0.90	60.00	3.60	10.4	0.0

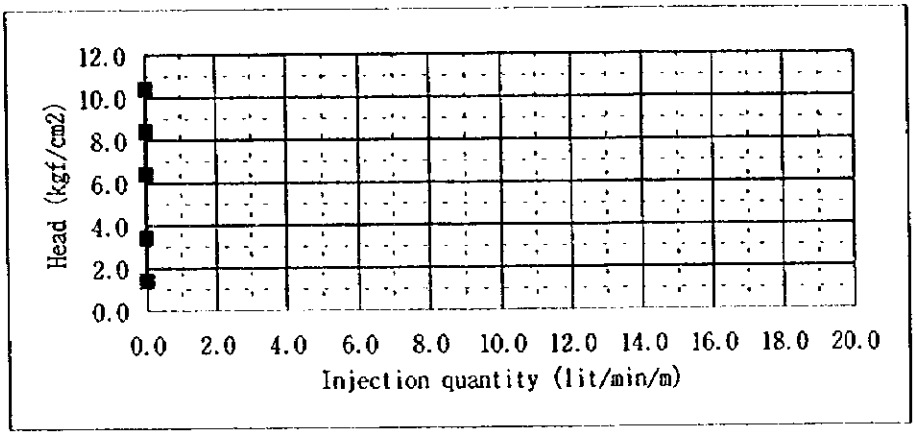


WATER PRESSURE TEST RECORD

Hole No. 94-3 11/19

Test section (m) 57.40 - 62.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.50	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.00	1.50	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.00	1.50	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.00	1.50	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.00	1.50	60.00	3.00	10.4	0.0

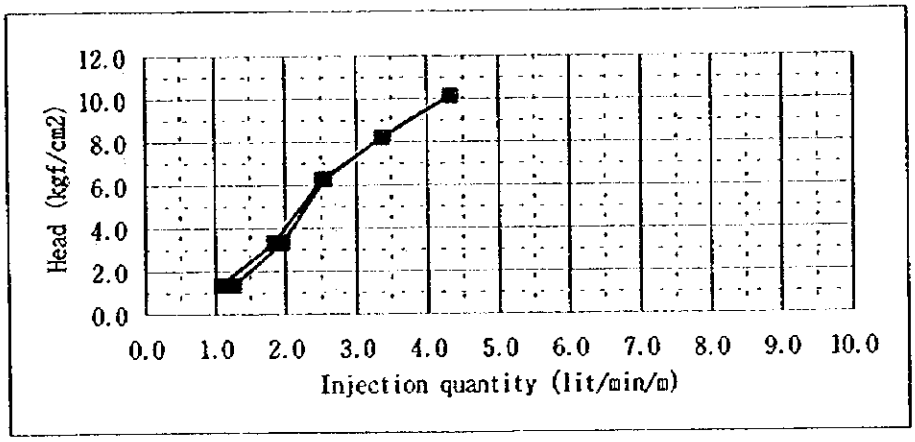


WATER PRESSURE TEST RECORD

Hole No. 94-3 12/19

Test section (m) 62.40 - 67.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	6.6	1.3	0.02	5.20	0.90	60.00	3.00	1.3	9.5
3.00	10.2	2.0	0.05	5.20	0.90	60.00	3.00	3.3	5.9
6.00	13.3	2.6	0.08	5.20	0.90	60.00	3.00	6.3	4.1
8.00	17.5	3.4	0.13	5.20	0.90	60.00	3.00	8.2	4.1
10.00	22.5	4.3	0.22	5.20	0.90	60.00	3.00	10.1	4.3
8.00	17.6	3.4	0.14	5.20	0.90	60.00	3.00	8.2	4.1
6.00	13.1	2.5	0.07	5.20	0.90	60.00	3.00	6.3	4.0
3.00	9.6	1.8	0.04	5.20	0.90	60.00	3.00	3.3	5.6
1.00	5.6	1.1	0.01	5.20	0.90	60.00	3.00	1.3	8.1

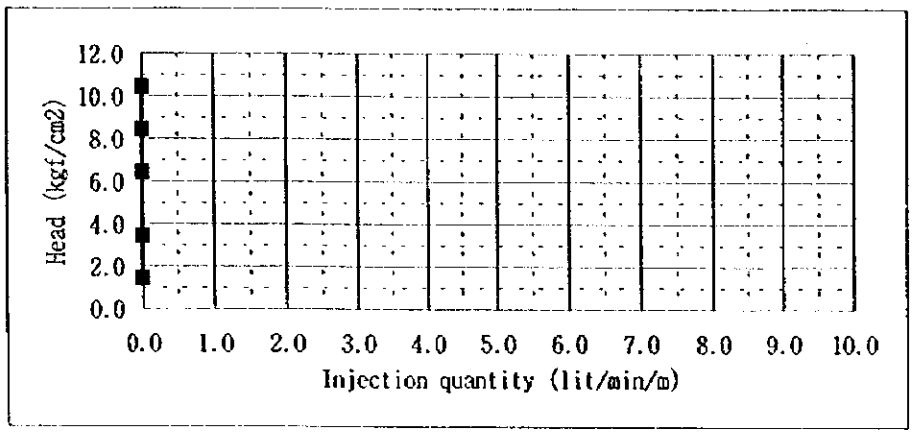


WATER PRESSURE TEST RECORD

Hole No. 94-3 13/19

Test section (m) 67.60 - 72.75

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.15	1.80	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.15	1.80	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.15	1.80	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.15	1.80	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.15	1.80	60.00	3.00	10.4	0.0

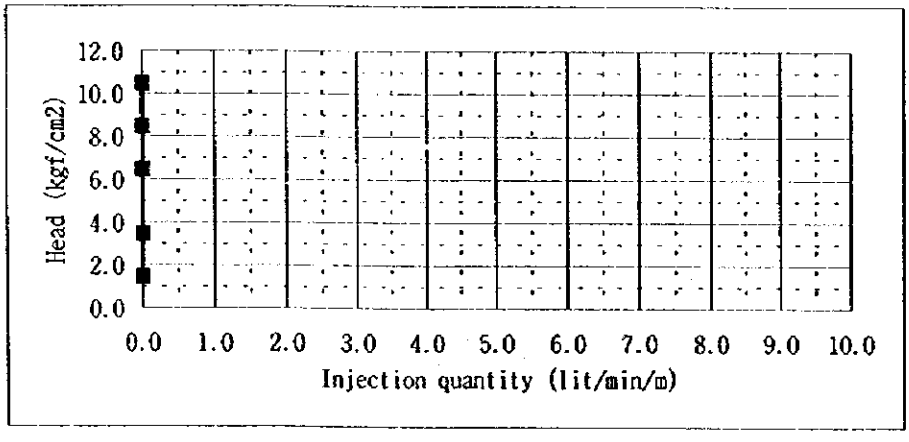


WATER PRESSURE TEST RECORD

Hole No. 94-3 14/19

Test section (m) 72.05 - 77.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.85	60.00	3.20	1.5	0.0
3.00	0.0	0.0	0.00	5.00	1.85	60.00	3.20	3.5	0.0
6.00	0.0	0.0	0.00	5.00	1.85	60.00	3.20	6.5	0.0
8.00	0.0	0.0	0.00	5.00	1.85	60.00	3.20	8.5	0.0
10.00	0.0	0.0	0.00	5.00	1.85	60.00	3.20	10.5	0.0

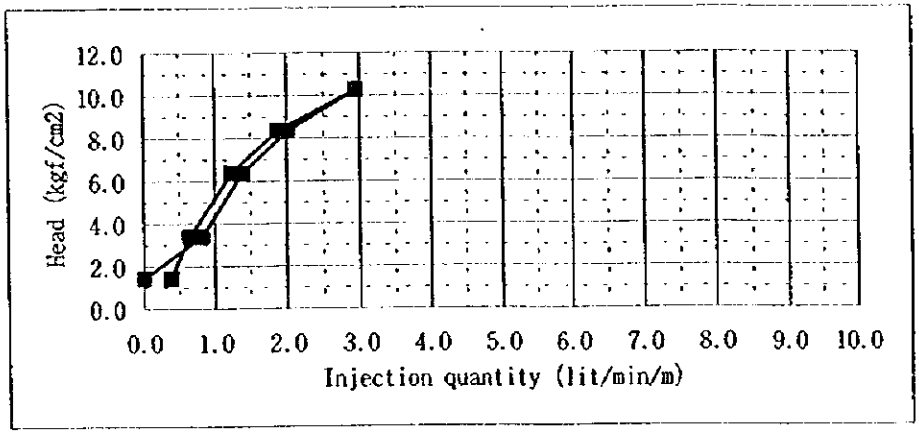


WATER PRESSURE TEST RECORD

Hole No. 94-3 15/19

Test section (m) 77.05 - 82.30

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.25	1.40	60.00	3.00	1.4	0.0
3.00	4.3	0.8	0.01	5.25	1.40	60.00	3.00	3.4	2.4
6.00	7.3	1.4	0.03	5.25	1.40	60.00	3.00	6.4	2.2
8.00	10.6	2.0	0.06	5.25	1.40	60.00	3.00	8.3	2.4
10.00	15.5	3.0	0.13	5.25	1.40	60.00	3.00	10.3	2.9
8.00	9.9	1.9	0.05	5.25	1.40	60.00	3.00	8.3	2.3
6.00	6.5	1.2	0.02	5.25	1.40	60.00	3.00	6.4	1.9
3.00	3.4	0.6	0.01	5.25	1.40	60.00	3.00	3.4	1.9
1.00	2.0	0.4	0.00	5.25	1.40	60.00	3.00	1.4	2.7

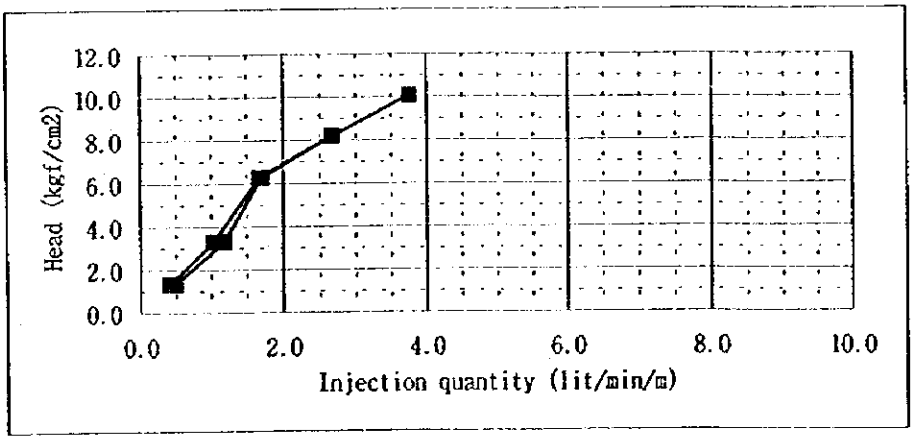


WATER PRESSURE TEST RECORD

Hole No. 94-3 16/19

Test section (m) 82.30 - 87.80

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	2.7	0.5	0.00	5.50	0.60	60.00	3.00	1.3	3.7
3.00	6.5	1.2	0.02	5.50	0.60	60.00	3.00	3.3	3.6
6.00	9.4	1.7	0.05	5.50	0.60	60.00	3.00	6.3	2.7
8.00	14.7	2.7	0.12	5.50	0.60	60.00	3.00	8.2	3.3
10.00	20.7	3.8	0.25	5.50	0.60	60.00	3.00	10.1	3.7
8.00	14.7	2.7	0.12	5.50	0.60	60.00	3.00	8.2	3.3
6.00	9.2	1.7	0.05	5.50	0.60	60.00	3.00	6.3	2.7
3.00	5.7	1.0	0.02	5.50	0.60	60.00	3.00	3.3	3.1
1.00	2.3	0.4	0.00	5.50	0.60	60.00	3.00	1.3	3.2

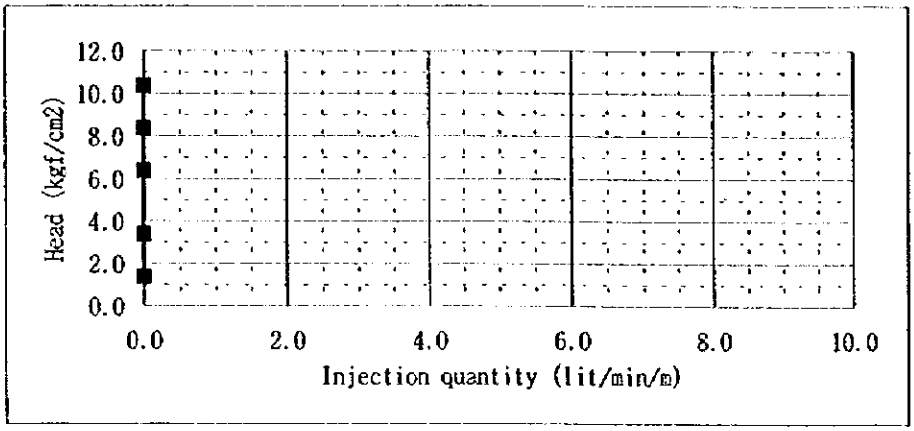


WATER PRESSURE TEST RECORD

Hole No. 94-3 17/19

Test section (m) 87.80 - 92.65

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.85	1.10	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	4.85	1.10	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	4.85	1.10	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	4.85	1.10	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	4.85	1.10	60.00	3.00	10.4	0.0

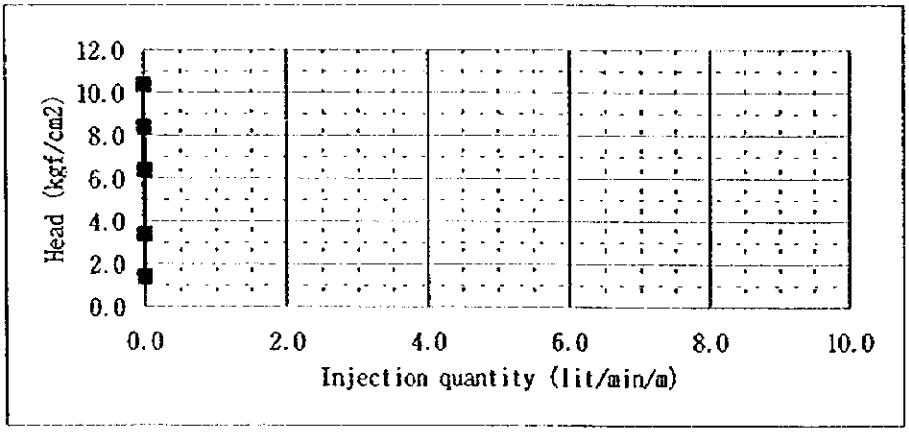


WATER PRESSURE TEST RECORD

Hole No. 94-3 18/19

Test section (m) 92.25 - 97.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.20	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.00	1.20	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.00	1.20	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.00	1.20	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.00	1.20	60.00	3.00	10.4	0.0

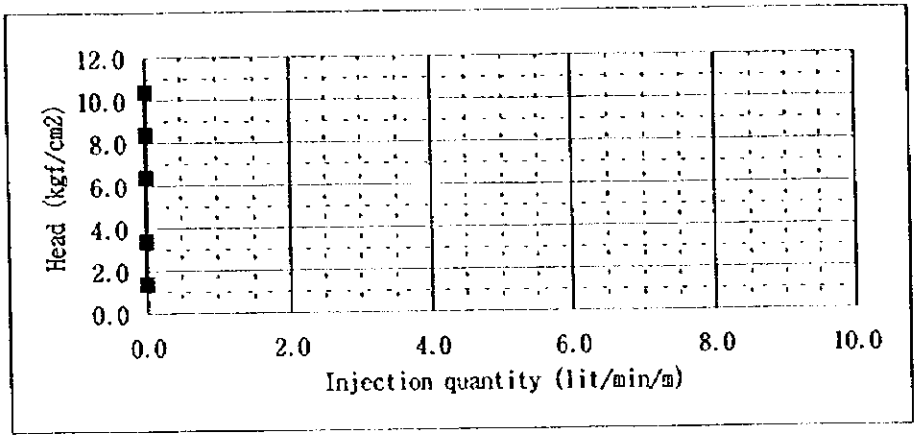


WATER PRESSURE TEST RECORD

Hole No. 94-3 19/19

Test section (m) 95.25 - 100.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.15	60.00	3.00	1.4	0.0
3.00	0.0	0.0	0.00	5.00	1.15	60.00	3.00	3.4	0.0
6.00	0.0	0.0	0.00	5.00	1.15	60.00	3.00	6.4	0.0
8.00	0.0	0.0	0.00	5.00	1.15	60.00	3.00	8.4	0.0
10.00	0.0	0.0	0.00	5.00	1.15	60.00	3.00	10.4	0.0



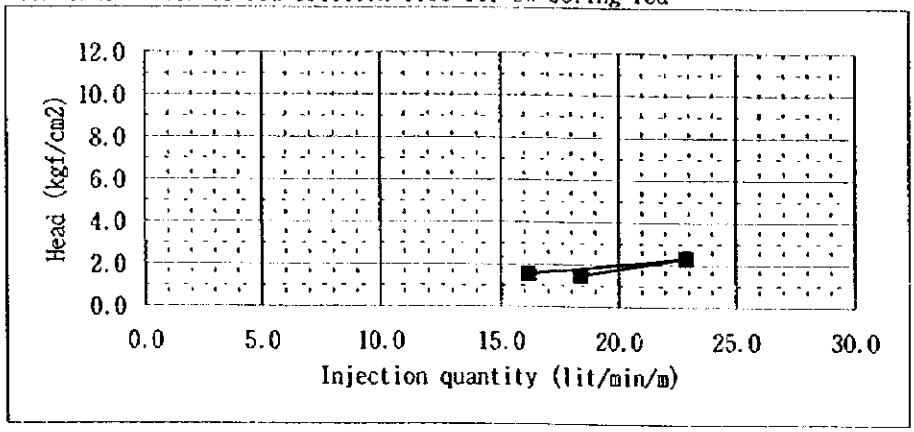
WATER PRESSURE TEST RECORD

Hole No. 94-4 1/24

Test section (m) 7.05 - 11.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	64.7	16.2	0.23	4.00	0.90	90.00	6.80	1.5	105.0
2.00	91.6	22.9	0.46	4.00	0.90	90.00	6.80	2.3	99.1
1.00	73.6	18.4	0.30	4.00	0.90	90.00	6.80	1.5	124.9

6.90E-05 : Constant number of rod friction loss for BW boring rod

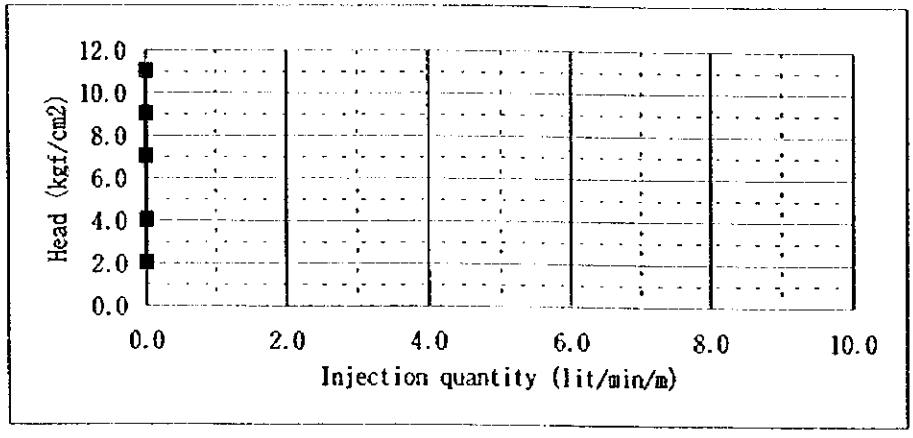


WATER PRESSURE TEST RECORD

Hole No. 94-4 2/24

Test section (m) 12.05 - 17.05

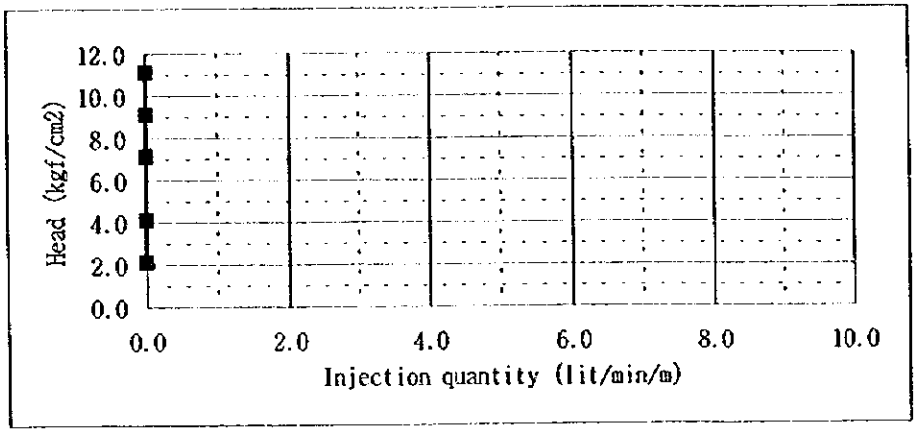
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.95	90.00	8.40	2.0	0.0
3.00	0.0	0.0	0.00	5.00	1.95	90.00	8.40	4.0	0.0
6.00	0.0	0.0	0.00	5.00	1.95	90.00	8.40	7.0	0.0
8.00	0.0	0.0	0.00	5.00	1.95	90.00	8.40	9.0	0.0
10.00	0.0	0.0	0.00	5.00	1.95	90.00	8.40	11.0	0.0



WATER PRESSURE TEST RECORD

Hole No. 94-4 3/24
Test section (m) 16.55 - 21.55

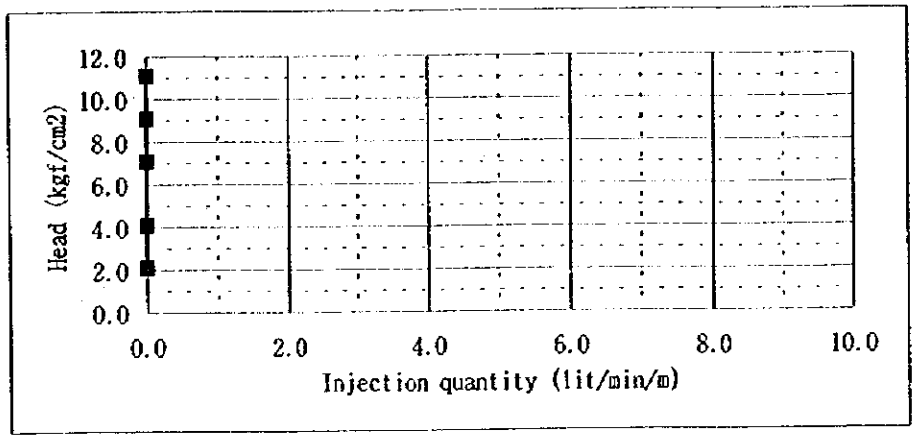
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	10.00	2.1	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	10.00	4.1	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	10.00	7.1	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	10.00	9.1	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	10.00	11.1	0.0



WATER PRESSURE TEST RECORD

Hole No. 94-4 4/24
Test section (m) 21.15 - 26.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	9.60	2.1	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	9.60	4.1	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	9.60	7.1	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	9.60	9.1	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	9.60	11.1	0.0

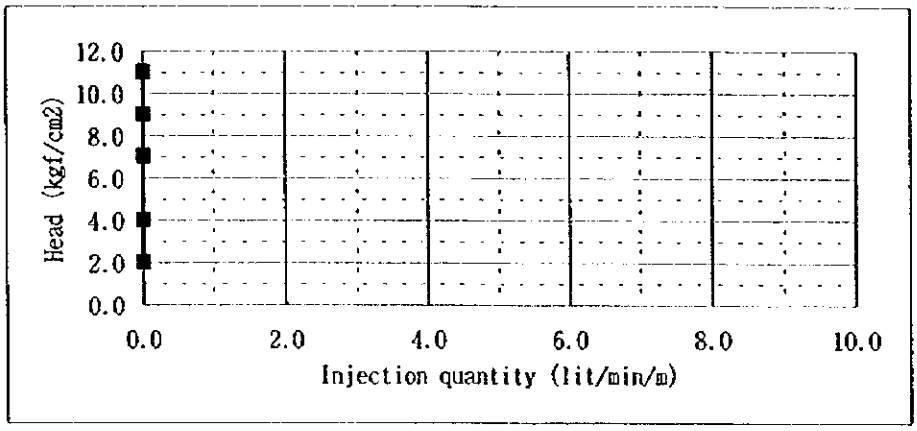


WATER PRESSURE TEST RECORD

Hole No. 94-4 5/24

Test section (m) 26.15 - 31.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.10	1.25	90.00	9.20	2.0	0.0
3.00	0.0	0.0	0.00	5.10	1.25	90.00	9.20	4.0	0.0
6.00	0.0	0.0	0.00	5.10	1.25	90.00	9.20	7.0	0.0
8.00	0.0	0.0	0.00	5.10	1.25	90.00	9.20	9.0	0.0
10.00	0.0	0.0	0.00	5.10	1.25	90.00	9.20	11.0	0.0

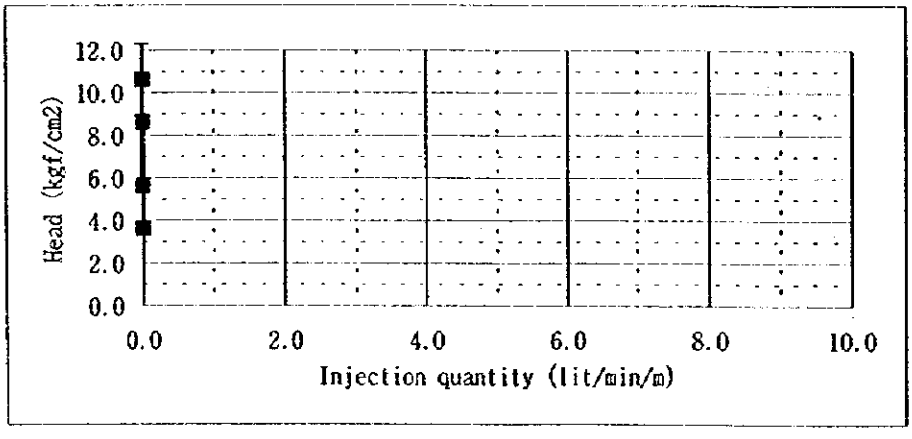


WATER PRESSURE TEST RECORD

Hole No. 94-4 6/24

Test section (m) 31.25 - 36.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.10	1.65	90.00	24.60	3.6	0.0
3.00	0.0	0.0	0.00	5.10	1.65	90.00	24.60	5.6	0.0
6.00	0.0	0.0	0.00	5.10	1.65	90.00	24.60	8.6	0.0
8.00	0.0	0.0	0.00	5.10	1.65	90.00	24.60	10.6	0.0
10.00	0.0	0.0	0.00	5.10	1.65	90.00	24.60	12.6	0.0

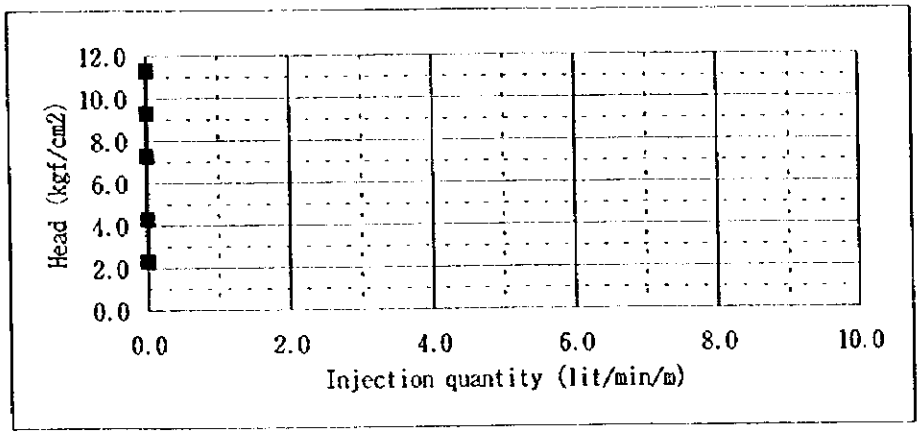


WATER PRESSURE TEST RECORD

Hole No. 94-4 7/24

Test section (m) 36.15 - 41.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.75	90.00	11.10	2.3	0.0
3.00	0.0	0.0	0.00	5.00	1.75	90.00	11.10	4.3	0.0
6.00	0.0	0.0	0.00	5.00	1.75	90.00	11.10	7.3	0.0
8.00	0.0	0.0	0.00	5.00	1.75	90.00	11.10	9.3	0.0
10.00	0.0	0.0	0.00	5.00	1.75	90.00	11.10	11.3	0.0

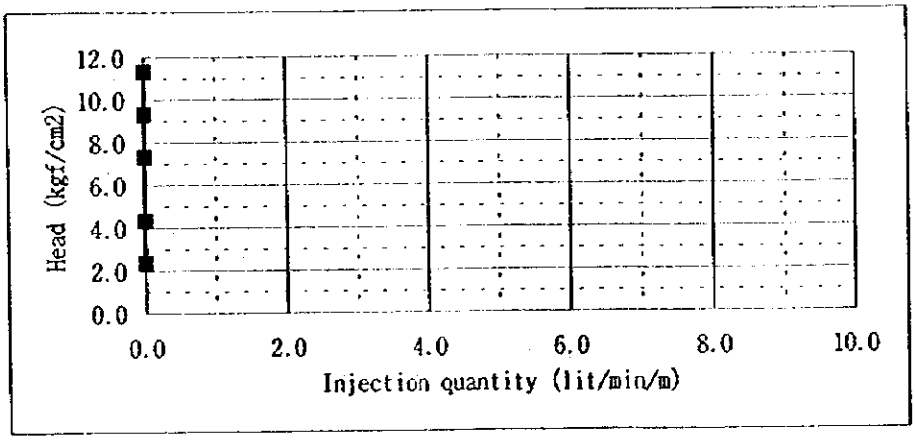


WATER PRESSURE TEST RECORD

Hole No. 94-4 8/24

Test section (m) 41.15 - 46.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.20	1.25	90.00	12.00	2.3	0.0
3.00	0.0	0.0	0.00	5.20	1.25	90.00	12.00	4.3	0.0
6.00	0.0	0.0	0.00	5.20	1.25	90.00	12.00	7.3	0.0
8.00	0.0	0.0	0.00	5.20	1.25	90.00	12.00	9.3	0.0
10.00	0.0	0.0	0.00	5.20	1.25	90.00	12.00	11.3	0.0

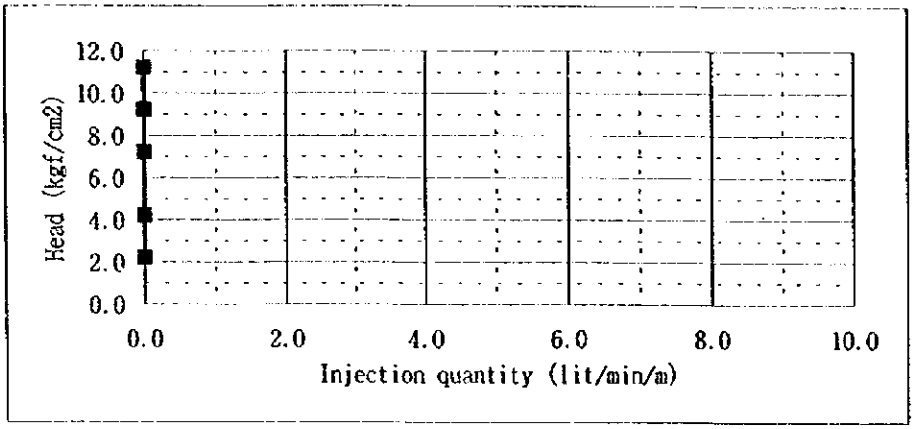


WATER PRESSURE TEST RECORD

Hole No. 94-4 9/24

Test section (m) 46.35 - 51.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.85	90.00	11.30	2.2	0.0
3.00	0.0	0.0	0.00	5.00	0.85	90.00	11.30	4.2	0.0
6.00	0.0	0.0	0.00	5.00	0.85	90.00	11.30	7.2	0.0
8.00	0.0	0.0	0.00	5.00	0.85	90.00	11.30	9.2	0.0
10.00	0.0	0.0	0.00	5.00	0.85	90.00	11.30	11.2	0.0

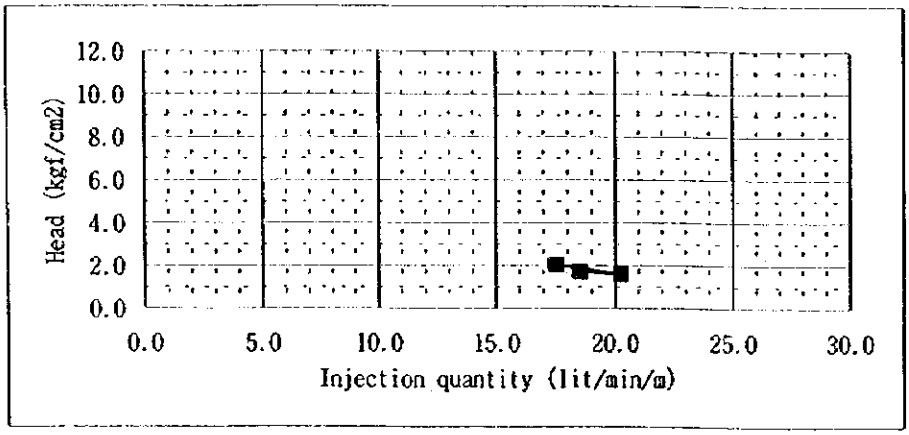


WATER PRESSURE TEST RECORD

Hole No. 94-4 10/24

Test section (m) 51.00 - 56.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	87.6	17.5	2.79	5.00	1.75	90.00	36.50	2.0	86.2
1.50	101.2	20.2	3.73	5.00	1.75	90.00	36.50	1.6	126.7
1.00	92.6	18.5	3.12	5.00	1.75	90.00	36.50	1.7	108.7

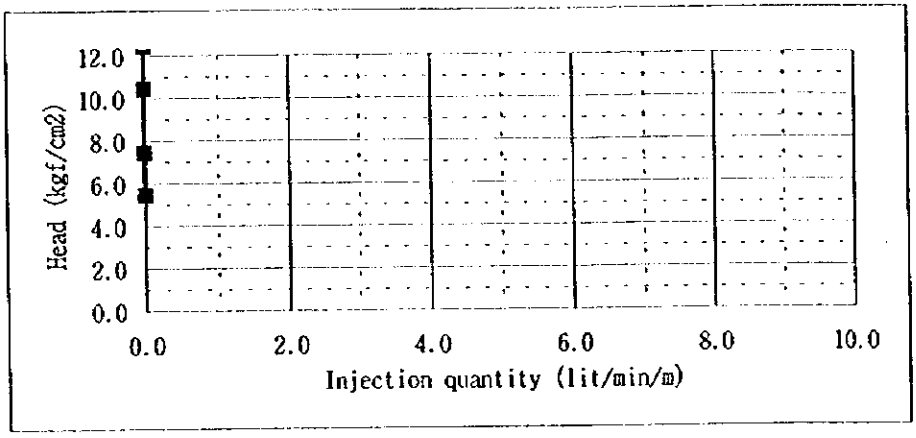


WATER PRESSURE TEST RECORD

Hole No. 94-4 11/24

Test section (m) 56.00 - 60.85

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.85	1.25	90.00	43.25	5.5	0.0
3.00	0.0	0.0	0.00	4.85	1.25	90.00	43.25	7.5	0.0
6.00	0.0	0.0	0.00	4.85	1.25	90.00	43.25	10.5	0.0
8.00	0.0	0.0	0.00	4.85	1.25	90.00	43.25	12.5	0.0
10.00	0.0	0.0	0.00	4.85	1.25	90.00	43.25	14.5	0.0

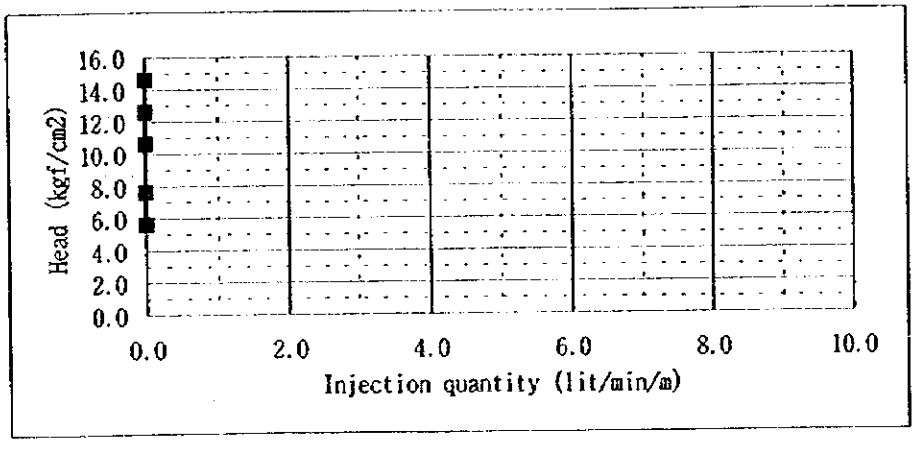


WATER PRESSURE TEST RECORD

Hole No. 94-4 12/24

Test section (m) 60.85 - 66.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.15	1.05	90.00	45.10	5.6	0.0
3.00	0.0	0.0	0.00	5.15	1.05	90.00	45.10	7.6	0.0
6.00	0.0	0.0	0.00	5.15	1.05	90.00	45.10	10.6	0.0
8.00	0.0	0.0	0.00	5.15	1.05	90.00	45.10	12.6	0.0
10.00	0.0	0.0	0.00	5.15	1.05	90.00	45.10	14.6	0.0

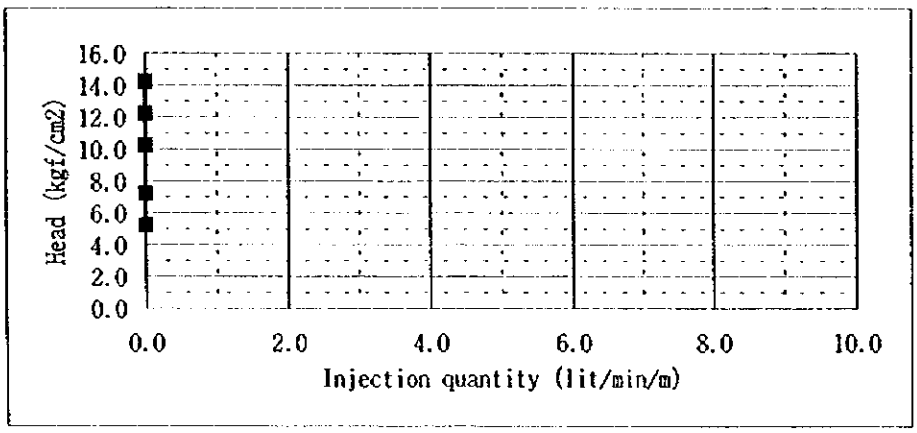


WATER PRESSURE TEST RECORD

Hole No. 94-4 13/24

Test section (m) 66.00 - 71.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.40	1.95	90.00	40.30	5.2	0.0
3.00	0.0	0.0	0.00	5.40	1.95	90.00	40.30	7.2	0.0
6.00	0.0	0.0	0.00	5.40	1.95	90.00	40.30	10.2	0.0
8.00	0.0	0.0	0.00	5.40	1.95	90.00	40.30	12.2	0.0
10.00	0.0	0.0	0.00	5.40	1.95	90.00	40.30	14.2	0.0

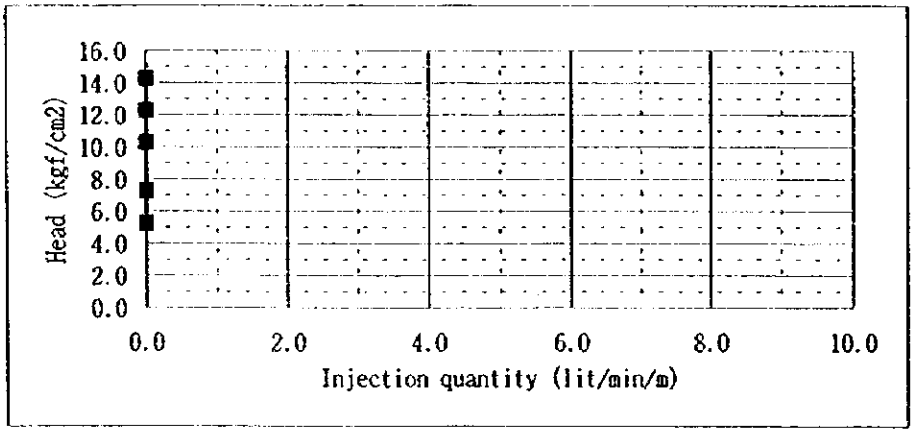


WATER PRESSURE TEST RECORD

Hole No. 94-4 14/24

Test section (m) 71.40 - 76.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.10	1.50	90.00	40.80	5.2	0.0
3.00	0.0	0.0	0.00	5.10	1.85	90.00	40.80	7.3	0.0
6.00	0.0	0.0	0.00	5.10	1.85	90.00	40.80	10.3	0.0
8.00	0.0	0.0	0.00	5.10	1.85	90.00	40.80	12.3	0.0
10.00	0.0	0.0	0.00	5.10	1.85	90.00	40.80	14.3	0.0

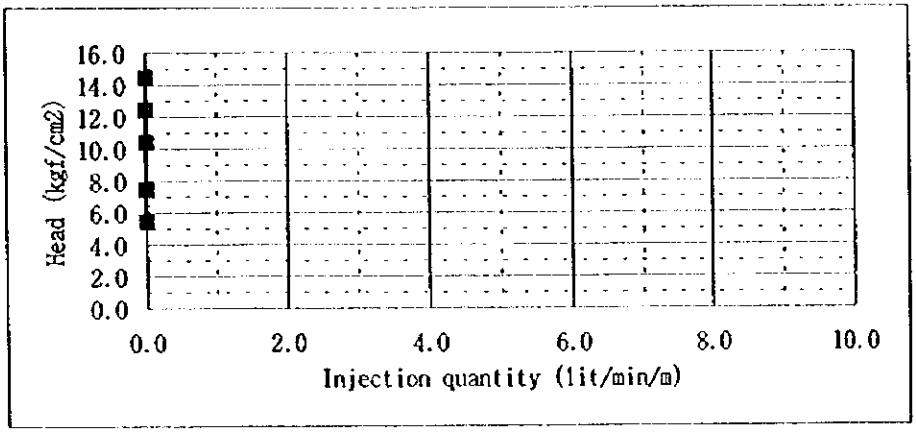


WATER PRESSURE TEST RECORD

Hole No. 94-4 15/24

Test section (m) 76.50 - 81.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.90	1.90	90.00	42.40	5.4	0.0
3.00	0.0	0.0	0.00	4.90	1.90	90.00	42.40	7.4	0.0
6.00	0.0	0.0	0.00	4.90	1.90	90.00	42.40	10.4	0.0
8.00	0.0	0.0	0.00	4.90	1.90	90.00	42.40	12.4	0.0
10.00	0.0	0.0	0.00	4.90	1.90	90.00	42.40	14.4	0.0

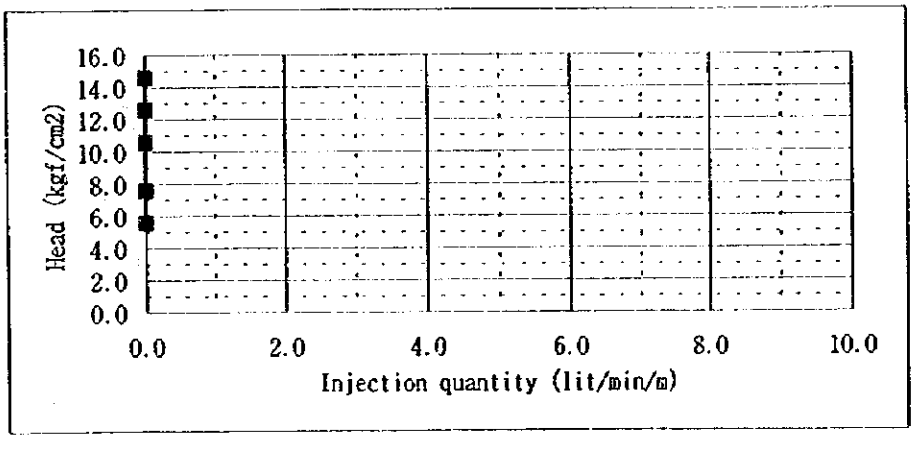


WATER PRESSURE TEST RECORD

Hole No. 94-4 16/24

Test section (m) 81.40 - 86.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.52	90.00	44.30	5.6	0.0
3.00	0.0	0.0	0.00	5.00	1.52	90.00	44.30	7.6	0.0
6.00	0.0	0.0	0.00	5.00	1.52	90.00	44.30	10.6	0.0
8.00	0.0	0.0	0.00	5.00	1.52	90.00	44.30	12.6	0.0
10.00	0.0	0.0	0.00	5.00	1.52	90.00	44.30	14.6	0.0

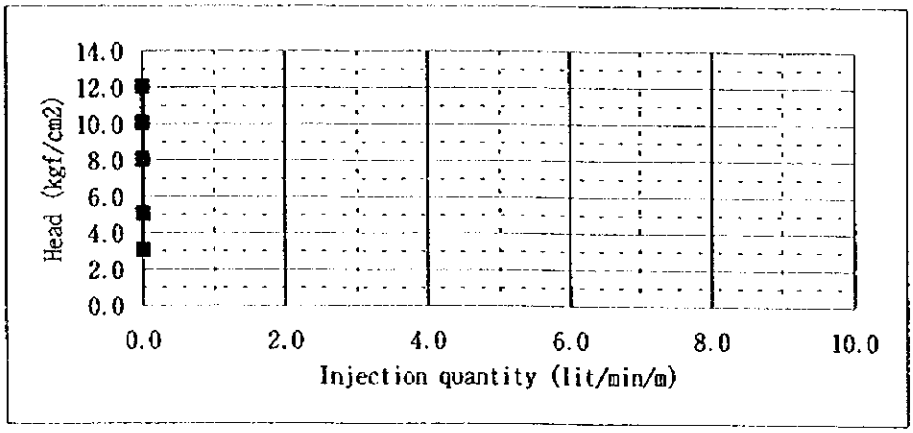


WATER PRESSURE TEST RECORD

Hole No. 94-4 17/24

Test section (m) 86.40 - 91.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.00	90.00	19.60	3.1	0.0
3.00	0.0	0.0	0.00	5.00	1.00	90.00	19.60	5.1	0.0
6.00	0.0	0.0	0.00	5.00	1.00	90.00	19.60	8.1	0.0
8.00	0.0	0.0	0.00	5.00	1.00	90.00	19.60	10.1	0.0
10.00	0.0	0.0	0.00	5.00	1.00	90.00	19.60	12.1	0.0

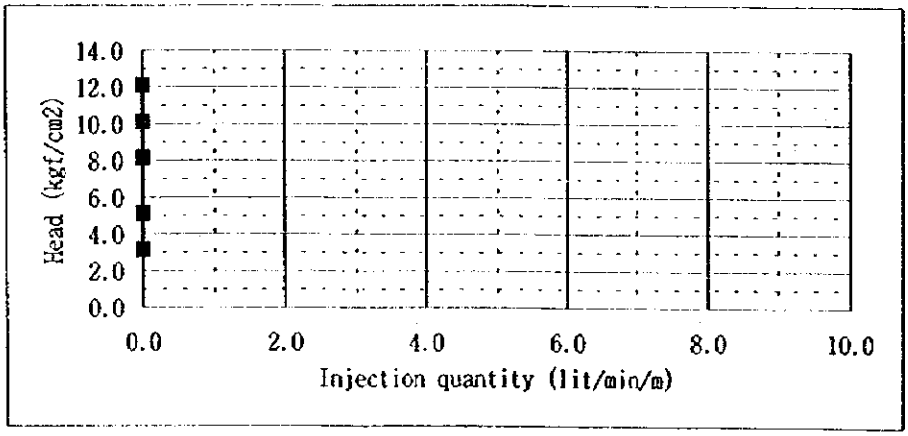


WATER PRESSURE TEST RECORD

Hole No. 94-4 18/24

Test section (m) 91.40 - 96.40

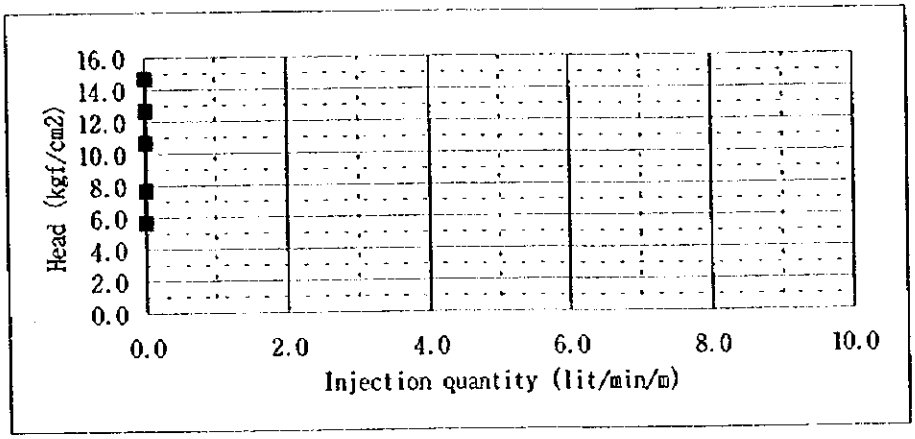
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	2.00	90.00	19.20	3.1	0.0
3.00	0.0	0.0	0.00	5.00	2.00	90.00	19.20	5.1	0.0
6.00	0.0	0.0	0.00	5.00	2.00	90.00	19.20	8.1	0.0
8.00	0.0	0.0	0.00	5.00	2.00	90.00	19.20	10.1	0.0
10.00	0.0	0.0	0.00	5.00	2.00	90.00	19.20	12.1	0.0



WATER PRESSURE TEST RECORD

Hole No. 94-4 19/24
Test section (m) 96.40 - 101.40

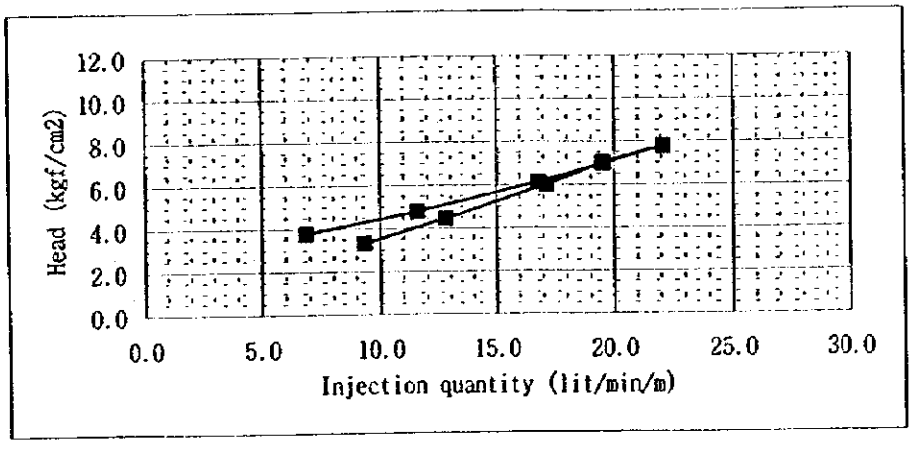
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.50	90.00	45.10	5.7	0.0
3.00	0.0	0.0	0.00	5.00	1.50	90.00	45.10	7.7	0.0
6.00	0.0	0.0	0.00	5.00	1.50	90.00	45.10	10.7	0.0
8.00	0.0	0.0	0.00	5.00	1.50	90.00	45.10	12.7	0.0
10.00	0.0	0.0	0.00	5.00	1.50	90.00	45.10	14.7	0.0



WATER PRESSURE TEST RECORD

Hole No. 94-4 20/24
Test section (m) 101.40 - 106.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	37.4	9.4	0.99	4.00	1.00	90.00	32.00	3.3	28.2
3.00	51.2	12.8	1.85	4.00	1.00	90.00	32.00	4.4	28.8
6.00	68.6	17.2	3.33	4.00	1.00	90.00	32.00	6.0	28.7
8.00	77.9	19.5	4.29	4.00	1.00	90.00	32.00	7.0	27.8
10.00	88.4	22.1	5.52	4.00	1.00	90.00	32.00	7.8	28.4
8.00	78.2	19.6	4.32	4.00	1.00	90.00	32.00	7.0	28.0
6.00	67.2	16.8	3.19	4.00	1.00	90.00	32.00	6.1	27.5
3.00	46.4	11.6	1.52	4.00	1.00	90.00	32.00	4.8	24.3
1.00	27.4	6.9	0.53	4.00	1.00	90.00	32.00	3.8	18.2

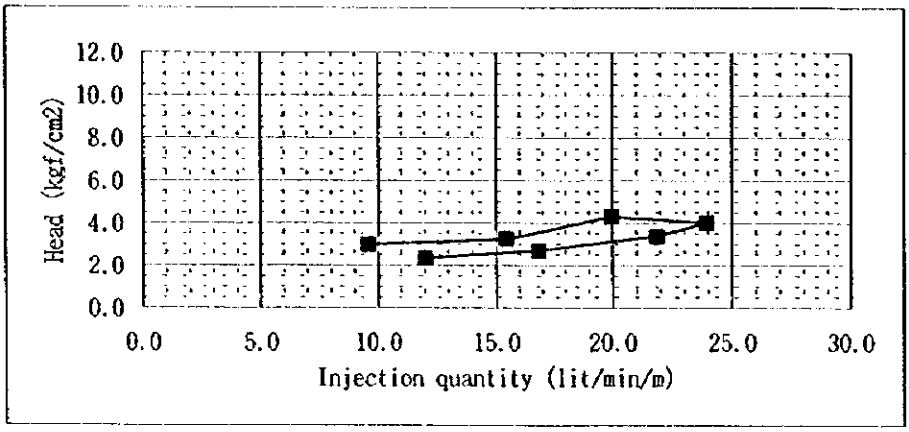


WATER PRESSURE TEST RECORD

Hole No. 94-4 21/24

Test section (m) 106.40 - 111.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	48.1	12.0	1.73	4.00	2.00	90.00	28.80	2.3	51.2
3.00	67.3	16.8	3.39	4.00	2.00	90.00	28.80	2.7	62.5
6.00	87.4	21.9	5.71	4.00	2.00	90.00	28.80	3.4	64.9
7.80	95.8	24.0	6.86	4.00	2.00	90.00	28.80	4.0	59.6
6.00	79.9	20.0	4.77	4.00	2.00	90.00	28.80	4.3	46.4
3.00	61.8	15.5	2.86	4.00	2.00	90.00	28.80	3.2	47.9
1.00	38.3	9.6	1.10	4.00	2.00	90.00	28.80	3.0	32.1

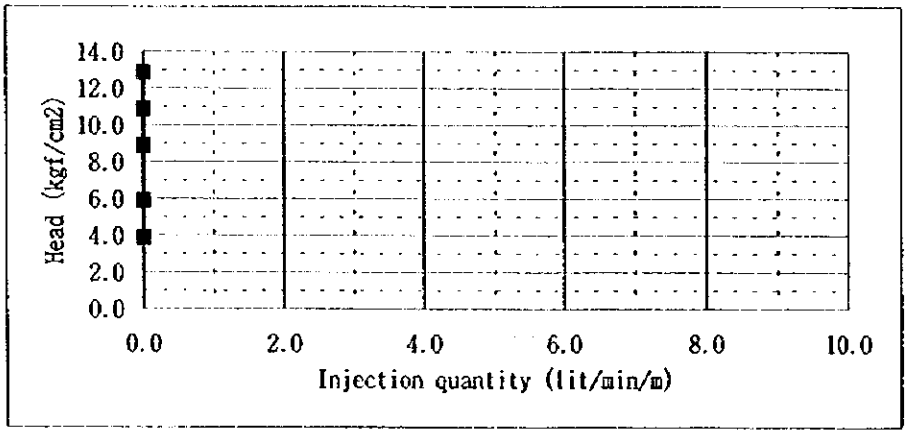


WATER PRESSURE TEST RECORD

Hole No. 94-4 22/24

Test section (m) 111.50 - 116.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.40	90.00	27.30	3.9	0.0
3.00	0.0	0.0	0.00	5.00	1.40	90.00	27.30	5.9	0.0
6.00	0.0	0.0	0.00	5.00	1.40	90.00	27.30	8.9	0.0
8.00	0.0	0.0	0.00	5.00	1.40	90.00	27.30	10.9	0.0
10.00	0.0	0.0	0.00	5.00	1.40	90.00	27.30	12.9	0.0

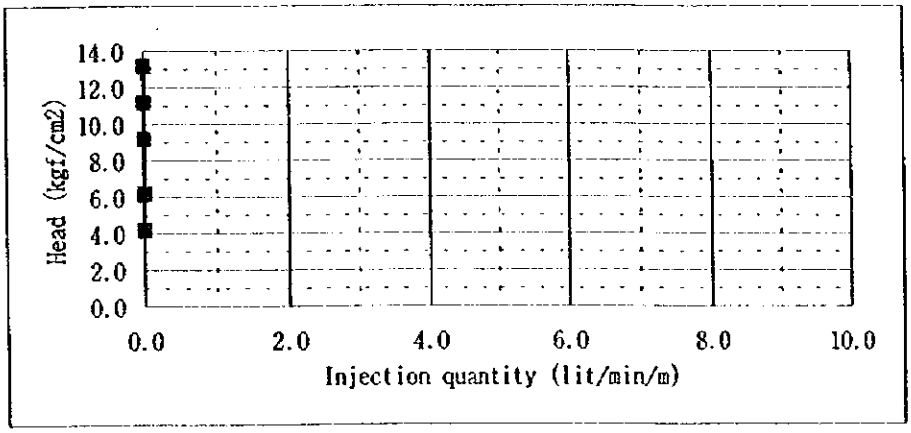


WATER PRESSURE TEST RECORD

Hole No. 94-4 23/24

Test section (m) 116.40 - 121.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.90	90.00	30.80	4.2	0.0
3.00	0.0	0.0	0.00	5.00	0.90	90.00	30.80	6.2	0.0
6.00	0.0	0.0	0.00	5.00	0.90	90.00	30.80	9.2	0.0
8.00	0.0	0.0	0.00	5.00	0.90	90.00	30.80	11.2	0.0
10.00	0.0	0.0	0.00	5.00	0.90	90.00	30.80	13.2	0.0

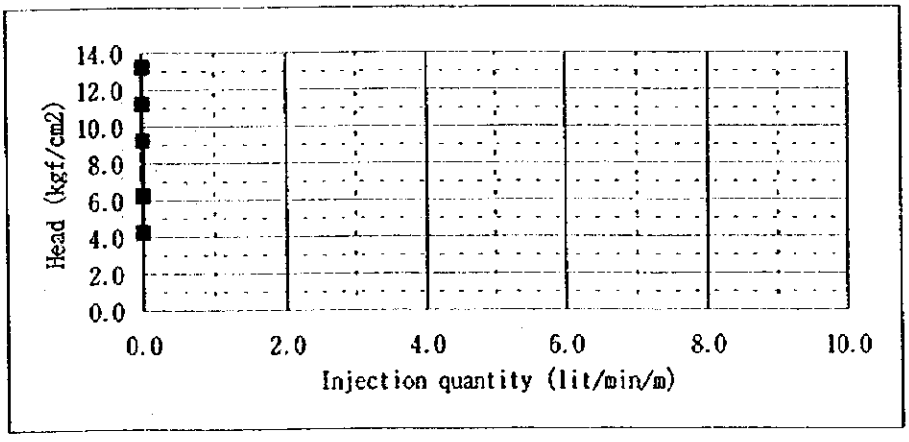


WATER PRESSURE TEST RECORD

Hole No. 94-4 24/24

Test section (m) 120.35 - 125.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.55	90.00	30.80	4.2	0.0
3.00	0.0	0.0	0.00	5.00	1.55	90.00	30.80	6.2	0.0
6.00	0.0	0.0	0.00	5.00	1.55	90.00	30.80	9.2	0.0
8.00	0.0	0.0	0.00	5.00	1.55	90.00	30.80	11.2	0.0
10.00	0.0	0.0	0.00	5.00	1.55	90.00	30.80	13.2	0.0



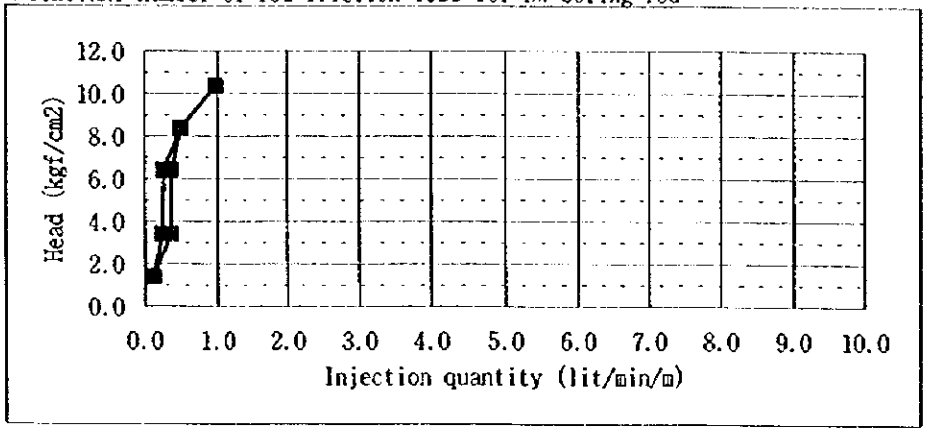
WATER PRESSURE TEST RECORD

Hole No. G95-1 1/9

Test section (m) 6.05 - 11.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.6	0.1	0.00	5.00	0.50	90.00	3.50	1.4	0.9
3.00	1.8	0.4	0.00	5.00	0.50	90.00	3.50	3.4	1.1
6.00	1.8	0.4	0.00	5.00	0.50	90.00	3.50	6.4	0.6
8.00	2.5	0.5	0.00	5.00	0.50	90.00	3.50	8.4	0.6
10.00	4.9	1.0	0.00	5.00	0.50	90.00	3.50	10.4	0.9
8.00	2.4	0.5	0.00	5.00	0.50	90.00	3.50	8.4	0.6
6.00	1.3	0.3	0.00	5.00	0.50	90.00	3.50	6.4	0.4
3.00	1.2	0.2	0.00	5.00	0.50	90.00	3.50	3.4	0.7
1.00	0.6	0.1	0.00	5.00	0.50	90.00	3.50	1.4	0.9

6.90E-05 : Constant number of rod friction loss for BW boring rod

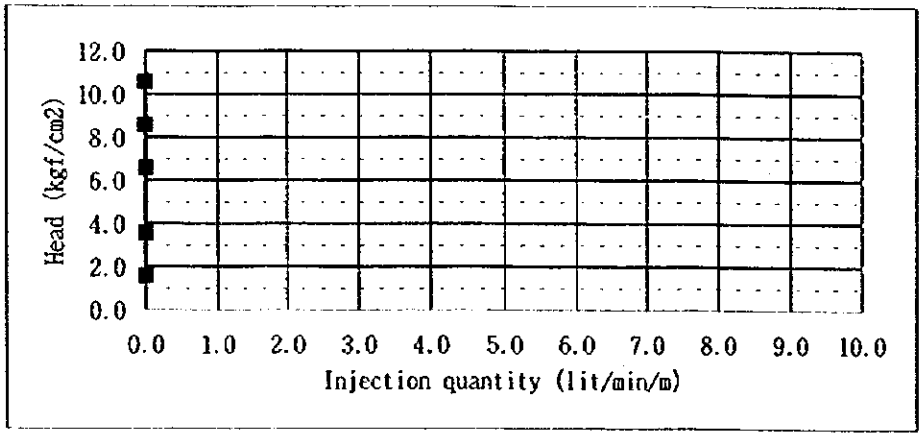


WATER PRESSURE TEST RECORD

Hole No. G95-1 2/9

Test section (m) 11.05 - 15.80

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.75	1.25	90.00	4.50	1.6	0.0
3.00	0.0	0.0	0.00	4.75	1.25	90.00	4.50	3.6	0.0
6.00	0.0	0.0	0.00	4.75	1.25	90.00	4.50	6.6	0.0
8.00	0.0	0.0	0.00	4.75	1.25	90.00	4.50	8.6	0.0
10.00	0.0	0.0	0.00	4.75	1.25	90.00	4.50	10.6	0.0

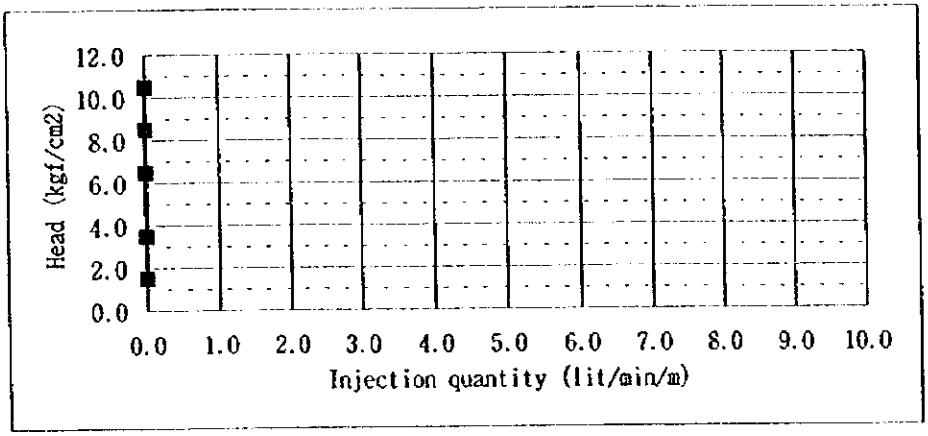


WATER PRESSURE TEST RECORD

Hole No. G95-1 3/9

Test section (m) 16.00 - 21.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	4.60	1.5	0.0
3.00	0.0	0.0	0.00	5.00	0.30	90.00	4.60	3.5	0.0
6.00	0.0	0.0	0.00	5.00	0.30	90.00	4.60	6.5	0.0
8.00	0.0	0.0	0.00	5.00	0.30	90.00	4.60	8.5	0.0
10.00	0.0	0.0	0.00	5.00	0.30	90.00	4.60	10.5	0.0

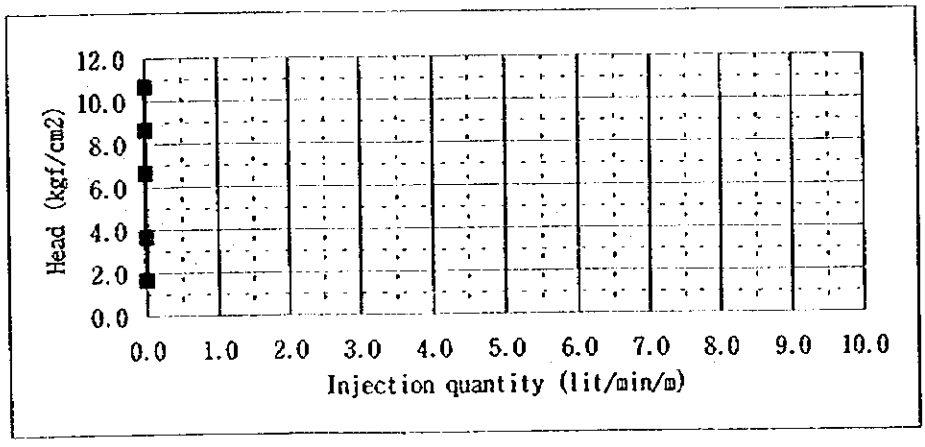


WATER PRESSURE TEST RECORD

Hole No. G95-1 4/9

Test section (m) 21.00 - 26.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.20	90.00	5.45	1.7	0.0
3.00	0.0	0.0	0.00	5.00	1.20	90.00	5.45	3.7	0.0
6.00	0.0	0.0	0.00	5.00	1.20	90.00	5.45	6.7	0.0
8.00	0.0	0.0	0.00	5.00	1.20	90.00	5.45	8.7	0.0
10.00	0.0	0.0	0.00	5.00	1.20	90.00	5.45	10.7	0.0

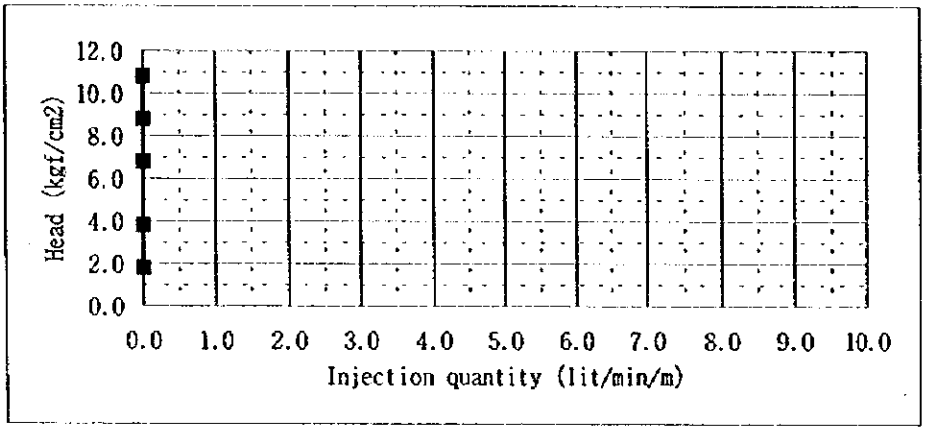


WATER PRESSURE TEST RECORD

Hole No. G95-1 5/9

Test section (m) 26.00 - 31.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	6.65	1.8	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	6.65	3.8	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	6.65	6.8	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	6.65	8.8	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	6.65	10.8	0.0

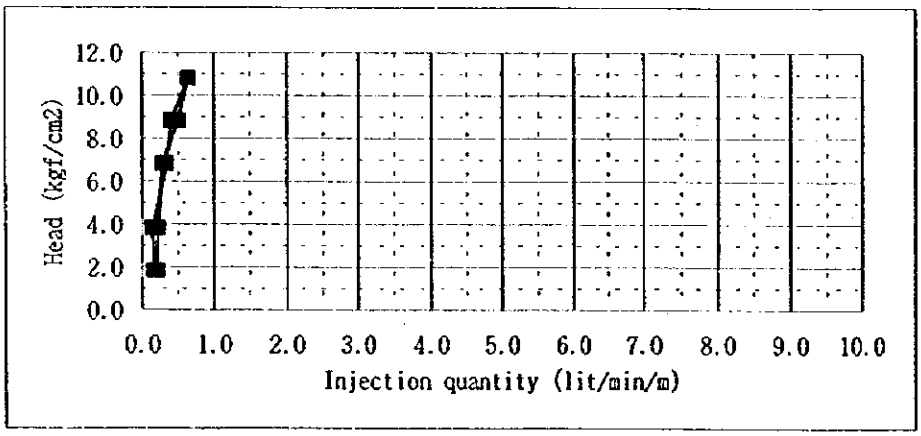


WATER PRESSURE TEST RECORD

Hole No. G95-1 6/9

Test section (m) 31.00 - 36.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.0	0.2	0.00	5.00	0.80	90.00	7.40	1.8	1.1
3.00	1.1	0.2	0.00	5.00	0.80	90.00	7.40	3.8	0.6
6.00	1.4	0.3	0.00	5.00	0.80	90.00	7.40	6.8	0.4
8.00	2.5	0.5	0.00	5.00	0.80	90.00	7.40	8.8	0.6
10.00	3.2	0.6	0.00	5.00	0.80	90.00	7.40	10.8	0.6
8.00	2.0	0.4	0.00	5.00	0.80	90.00	7.40	8.8	0.5
6.00	1.7	0.3	0.00	5.00	0.80	90.00	7.40	6.8	0.5
3.00	0.7	0.1	0.00	5.00	0.80	90.00	7.40	3.8	0.4
1.00	0.8	0.2	0.00	5.00	0.80	90.00	7.40	1.8	0.9

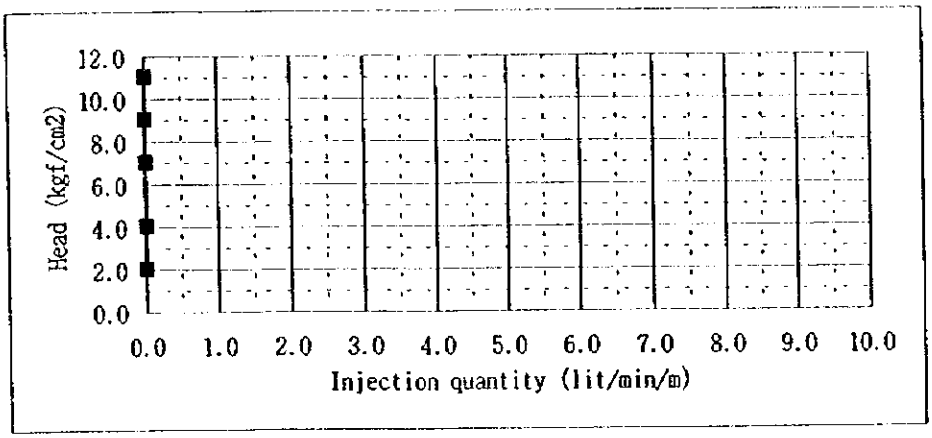


WATER PRESSURE TEST RECORD

Hole No. G95-1 7/9

Test section (m) 36.00 - 41.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.05	0.40	90.00	10.20	2.1	0.0
3.00	0.0	0.0	0.00	5.05	0.40	90.00	10.20	4.1	0.0
6.00	0.0	0.0	0.00	5.05	0.40	90.00	10.20	7.1	0.0
8.00	0.0	0.0	0.00	5.05	0.40	90.00	10.20	9.1	0.0
10.00	0.0	0.0	0.00	5.05	0.40	90.00	10.20	11.1	0.0

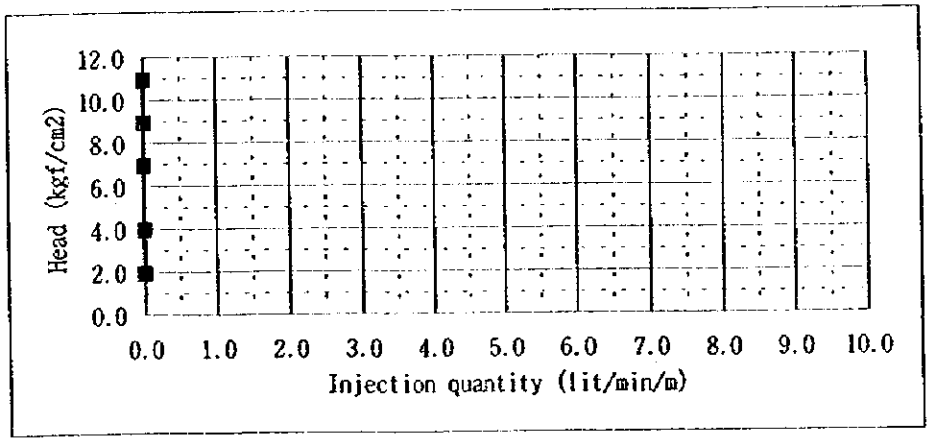


WATER PRESSURE TEST RECORD

Hole No. G95-1 8/9

Test section (m) 41.05 - 46.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.95	1.25	90.00	8.20	1.9	0.0
3.00	0.0	0.0	0.00	4.95	1.25	90.00	8.20	3.9	0.0
6.00	0.0	0.0	0.00	4.95	1.25	90.00	8.20	6.9	0.0
8.00	0.0	0.0	0.00	4.95	1.25	90.00	8.20	8.9	0.0
10.00	0.0	0.0	0.00	4.95	1.25	90.00	8.20	10.9	0.0

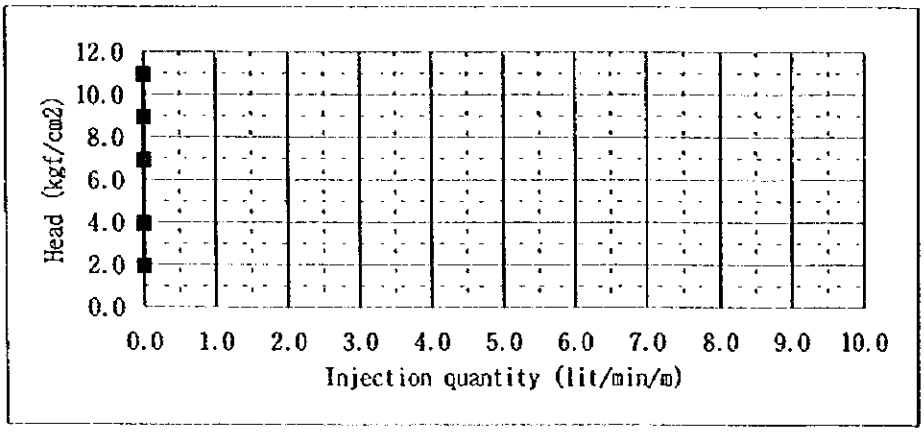


WATER PRESSURE TEST RECORD

Hole No. G95-1 9/9

Test section (m) 46.00 - 50.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.50	0.80	90.00	8.45	1.9	0.0
3.00	0.0	0.0	0.00	4.50	0.80	90.00	8.45	3.9	0.0
6.00	0.0	0.0	0.00	4.50	0.80	90.00	8.45	6.9	0.0
8.00	0.0	0.0	0.00	4.50	0.80	90.09	8.45	8.9	0.0
10.00	0.0	0.0	0.00	4.50	0.80	90.00	8.45	10.9	0.0



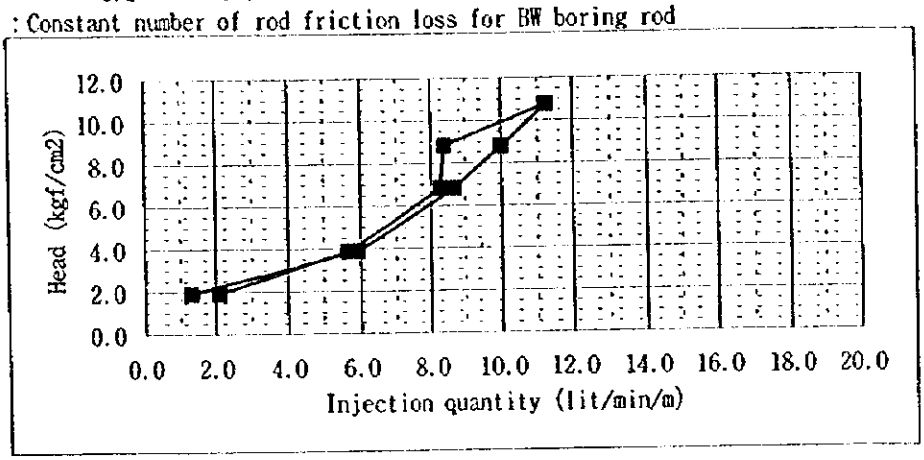
WATER PRESSURE TEST RECORD

Hole No. C95-2 1/5

Test section (m) 7.50 - 12.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	9.8	2.1	0.01	4.65	0.30	90.00	8.80	1.9	11.1
3.00	26.4	5.7	0.04	4.65	0.30	90.00	8.80	3.9	14.7
6.00	38.5	8.3	0.08	4.65	0.30	90.00	8.80	6.8	12.1
8.00	39.1	8.4	0.08	4.65	0.30	90.00	8.80	8.8	9.5
10.00	52.3	11.2	0.15	4.65	0.30	90.00	8.80	10.8	10.5
8.00	46.5	10.0	0.12	4.65	0.30	90.00	8.80	8.8	11.4
6.00	40.4	8.7	0.09	4.65	0.30	90.00	8.80	6.8	12.7
3.00	27.5	5.9	0.04	4.65	0.30	90.00	8.80	3.9	15.3
1.00	6.1	1.3	0.00	4.65	0.30	90.00	8.80	1.9	6.9

6.90E-05 : Constant number of rod friction loss for BW boring rod

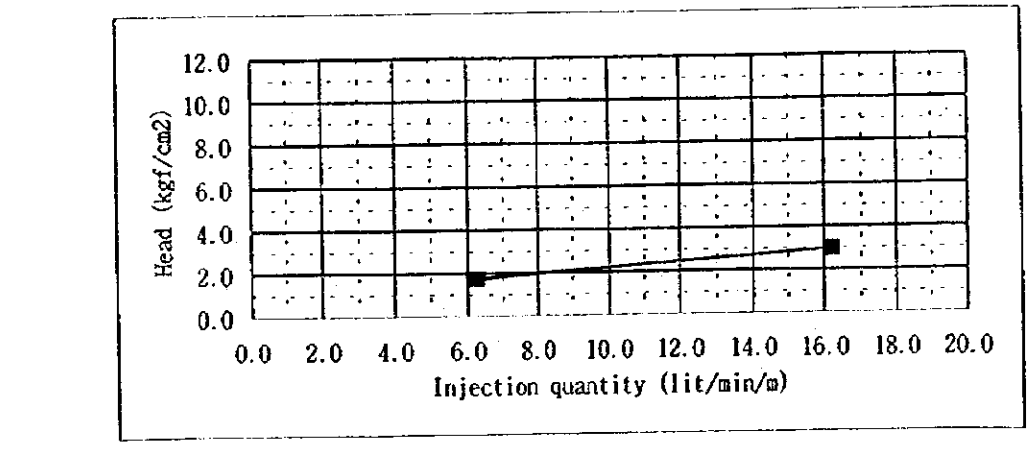


WATER PRESSURE TEST RECORD

Hole No. C95-2 2/5

Test section (m) 12.15 - 17.35

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	32.1	6.2	0.10	5.20	1.65	90.00	6.75	1.7	35.4
2.80	84.2	16.2	0.68	5.20	1.65	90.00	6.75	3.0	54.6
1.00	32.6	6.3	0.10	5.20	1.65	90.00	6.75	1.7	36.1

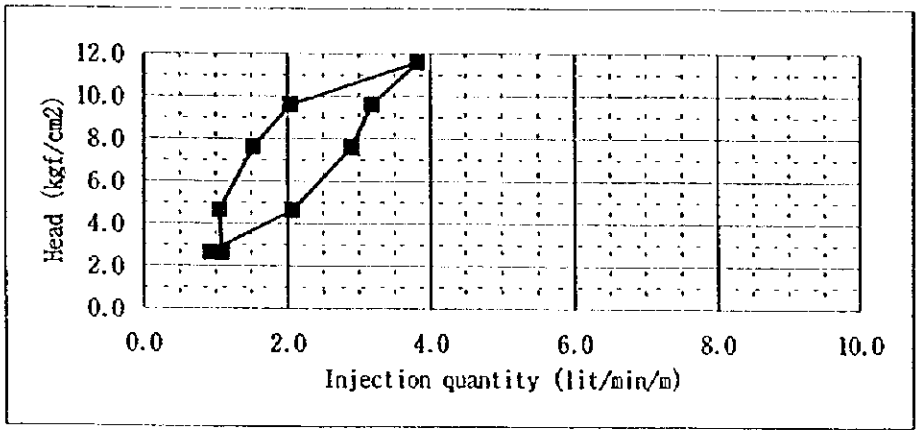


WATER PRESSURE TEST RECORD

Hole No. G95-2 3/5

Test section (m) 17.35 - 22.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	4.3	0.9	0.00	4.65	0.95	90.00	15.35	2.6	3.5
3.00	9.6	2.1	0.01	4.65	0.95	90.00	15.35	4.6	4.5
6.00	13.5	2.9	0.02	4.65	0.95	90.00	15.35	7.6	3.8
8.00	14.8	3.2	0.03	4.65	0.95	90.00	15.35	9.6	3.3
10.00	17.8	3.8	0.04	4.65	0.95	90.00	15.35	11.6	3.3
8.00	9.5	2.0	0.01	4.65	0.95	90.00	15.35	9.6	2.1
6.00	7.1	1.5	0.01	4.65	0.95	90.00	15.35	7.6	2.0
3.00	4.9	1.1	0.00	4.65	0.95	90.00	15.35	4.6	2.3
1.00	5.1	1.1	0.00	4.65	0.95	90.00	15.35	2.6	4.2

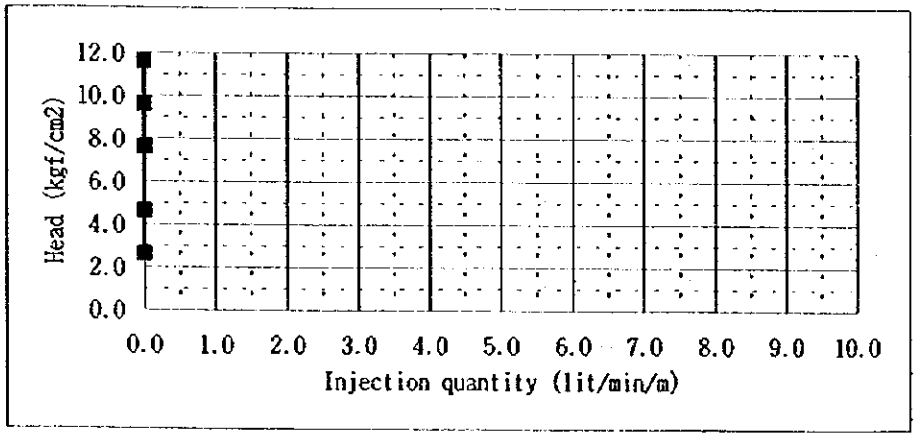


WATER PRESSURE TEST RECORD

Hole No. G95-2 4/5

Test section (m) 22.00 - 27.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.80	90.00	15.35	2.6	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	15.35	4.6	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	15.35	7.6	0.0
8.00	0.0	0.0	0.00	5.00	0.80	90.00	15.35	9.6	0.0
10.00	0.0	0.0	0.00	5.00	0.80	90.00	15.35	11.6	0.0

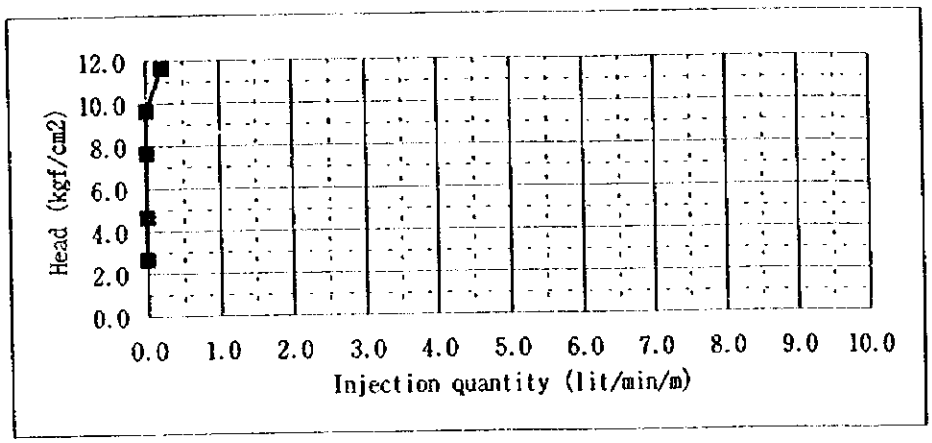


WATER PRESSURE TEST RECORD

Hole No. G95-2 5/5

Test section (m) 25.00 - 30.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	2.6	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	4.6	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	7.6	0.0
8.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	9.6	0.0
10.00	1.1	0.2	0.00	5.00	0.80	90.00	15.65	11.6	0.2
8.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	9.6	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	7.6	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	4.6	0.0
1.00	0.0	0.0	0.00	5.00	0.80	90.00	15.65	2.6	0.0



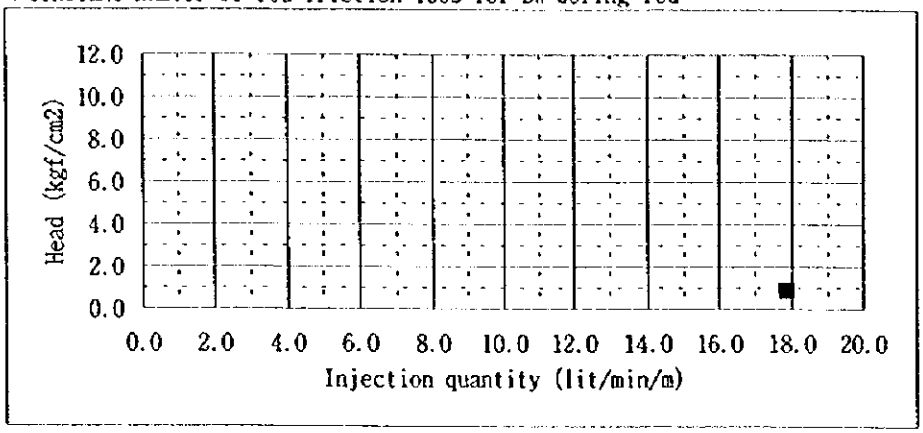
WATER PRESSURE TEST RECORD

Hole No. G95-3 1/6

Test section (m) 4.15 - 8.75

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
0.40	82.1	17.8	0.22	4.60	0.65	90.00	6.45	0.9	201.3

6.90E-05 : Constant number of rod friction loss for BW boring rod

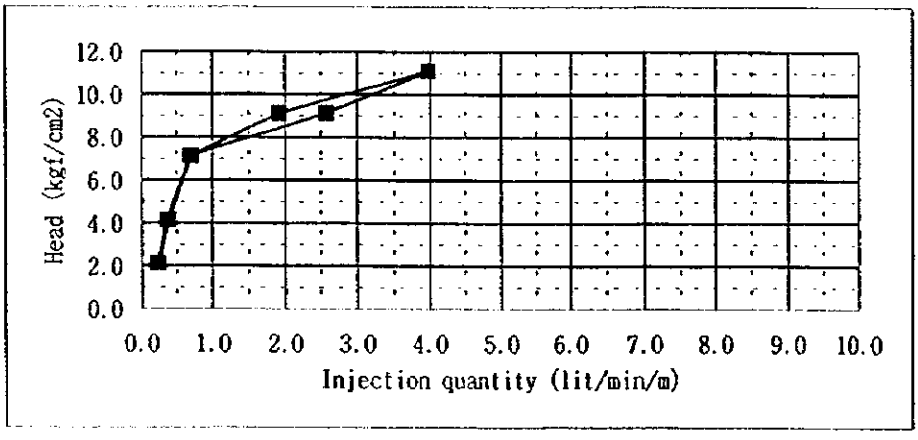


WATER PRESSURE TEST RECORD

Hole No. G95-3 2/6

Test section (m) 8.75 - 14.10

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.3	0.2	0.00	5.35	0.55	90.00	10.75	2.1	1.1
3.00	1.9	0.4	0.00	5.35	0.55	90.00	10.75	4.1	0.9
6.00	3.8	0.7	0.00	5.35	0.55	90.00	10.75	7.1	1.0
8.00	10.3	1.9	0.01	5.35	0.55	90.00	10.75	9.1	2.1
10.00	21.3	4.0	0.03	5.35	0.55	90.00	10.75	11.1	3.6
8.00	13.8	2.6	0.01	5.35	0.55	90.00	10.75	9.1	2.8
6.00	3.7	0.7	0.00	5.35	0.55	90.00	10.75	7.1	1.0
3.00	2.1	0.4	0.00	5.35	0.55	90.00	10.75	4.1	1.0
1.00	1.2	0.2	0.00	5.35	0.55	90.00	10.75	2.1	1.1

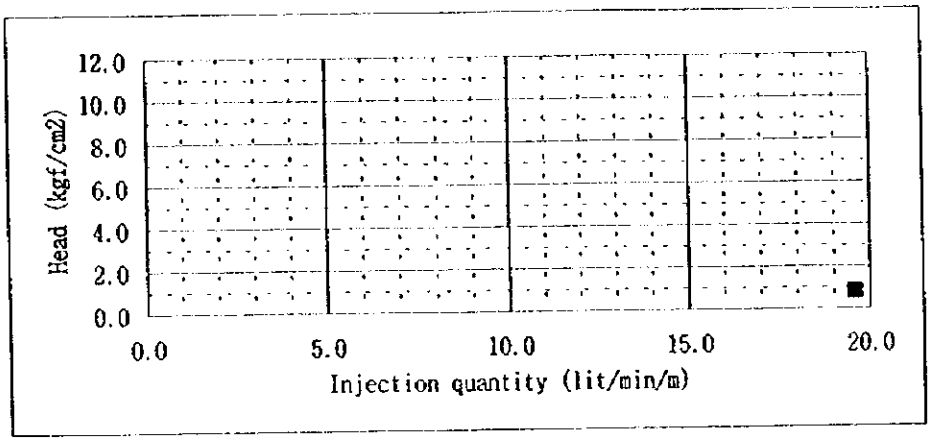


WATER PRESSURE TEST RECORD

Hole No. G95-3 3/6

Test section (m) 14.10 - 19.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	96.9	19.6	0.99	4.95	1.20	90.00	6.90	0.8	239.1

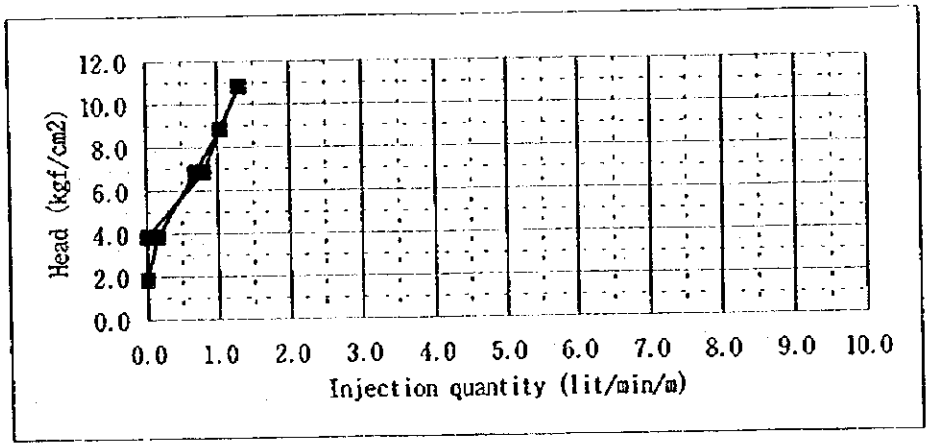


WATER PRESSURE TEST RECORD

Hole No. G95-3 4/6

Test section (m) 19.05 - 24.25

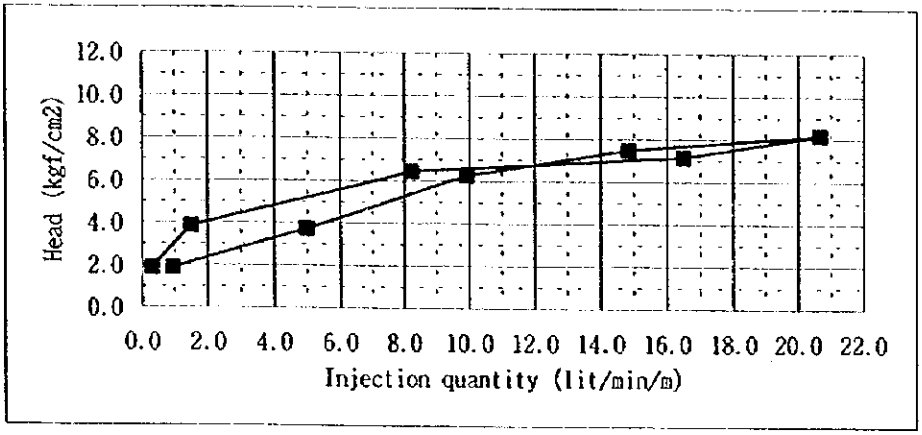
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.20	0.75	90.00	7.65	1.8	0.0
3.00	0.8	0.2	0.00	5.20	0.75	90.00	7.65	3.8	0.4
6.00	3.6	0.7	0.00	5.20	0.75	90.00	7.65	6.8	1.0
8.00	5.4	1.0	0.00	5.20	0.75	90.00	7.65	8.8	1.2
10.00	6.8	1.3	0.01	5.20	0.75	90.00	7.65	10.8	1.2
8.00	5.4	1.0	0.00	5.20	0.75	90.00	7.65	8.8	1.2
6.00	4.2	0.8	0.00	5.20	0.75	90.00	7.65	6.8	1.2
3.00	0.0	0.0	0.00	5.20	0.75	90.00	7.65	3.8	0.0
1.00	0.0	0.0	0.00	5.20	0.75	90.00	7.65	1.8	0.0



WATER PRESSURE TEST RECORD

Hole No. G95-3 5/6
Test section (m) 24.25 - 30.20

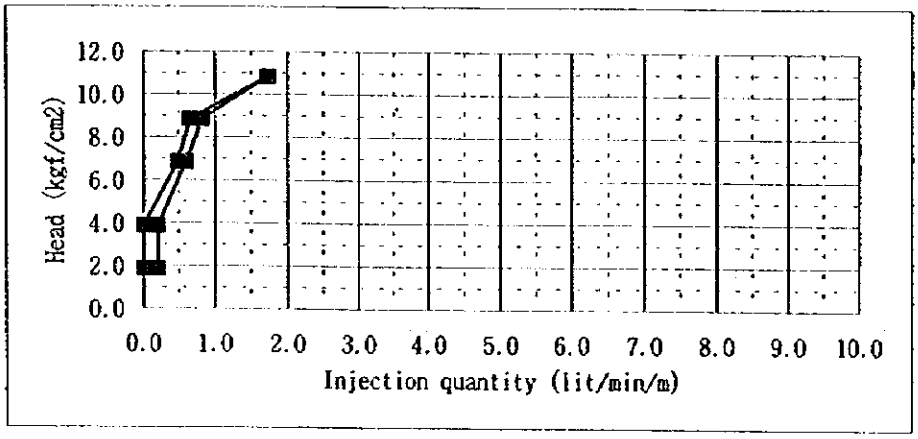
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.8	0.3	0.00	5.95	1.50	90.00	7.20	1.9	1.6
3.00	9.0	1.5	0.01	5.95	1.50	90.00	7.20	3.9	3.9
6.00	49.1	8.3	0.43	5.95	1.50	90.00	7.20	6.4	12.8
8.00	98.2	16.5	1.71	5.95	1.50	90.00	7.20	7.2	23.1
10.00	123.0	20.7	2.69	5.95	1.50	90.00	7.20	8.2	25.3
8.00	88.3	14.8	1.39	5.95	1.50	90.00	7.20	7.5	19.8
6.00	59.1	9.9	0.62	5.95	1.50	90.00	7.20	6.2	15.9
3.00	29.6	5.0	0.16	5.95	1.50	90.00	7.20	3.7	13.4
1.00	5.6	0.9	0.01	5.95	1.50	90.00	7.20	1.9	5.0



WATER PRESSURE TEST RECORD

Hole No. G95-3 6/6
Test section (m) 30.20 - 35.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.1	0.2	0.00	5.30	1.45	90.00	7.05	1.8	1.1
3.00	1.1	0.2	0.00	5.30	1.45	90.00	7.05	3.8	0.5
6.00	3.2	0.6	0.00	5.30	1.45	90.00	7.05	6.8	0.9
8.00	4.4	0.8	0.00	5.30	1.45	90.00	7.05	8.8	0.9
10.00	9.2	1.7	0.02	5.30	1.45	90.00	7.05	10.8	1.6
8.00	3.5	0.7	0.00	5.30	1.45	90.00	7.05	8.8	0.7
6.00	2.6	0.5	0.00	5.30	1.45	90.00	7.05	6.8	0.7
3.00	0.0	0.0	0.00	5.30	1.45	90.00	7.05	3.9	0.0
1.00	0.0	0.0	0.00	5.30	1.45	90.00	7.05	1.9	0.0



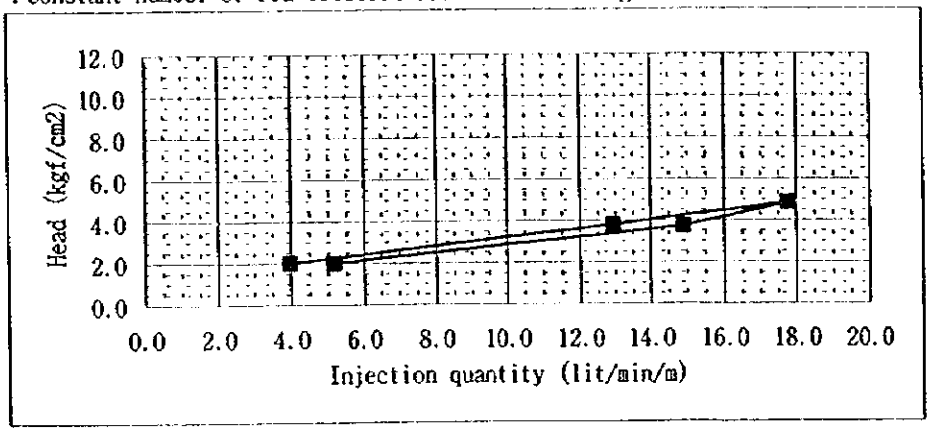
WATER PRESSURE TEST RECORD

Hole No. G95-4 1/8

Test section (m) 7.00 - 12.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	19.9	4.0	0.02	5.00	0.80	90.00	9.50	2.0	19.8
3.00	64.7	12.9	0.23	5.00	0.80	90.00	9.50	3.8	34.0
4.25	88.9	17.8	0.43	5.00	0.80	90.00	9.50	4.9	36.6
3.00	74.5	14.9	0.30	5.00	0.80	90.00	9.50	3.7	39.9
1.00	25.8	5.2	0.04	5.00	0.80	90.00	9.50	2.0	25.9

6.90E-05 : Constant number of rod friction loss for BW boring rod

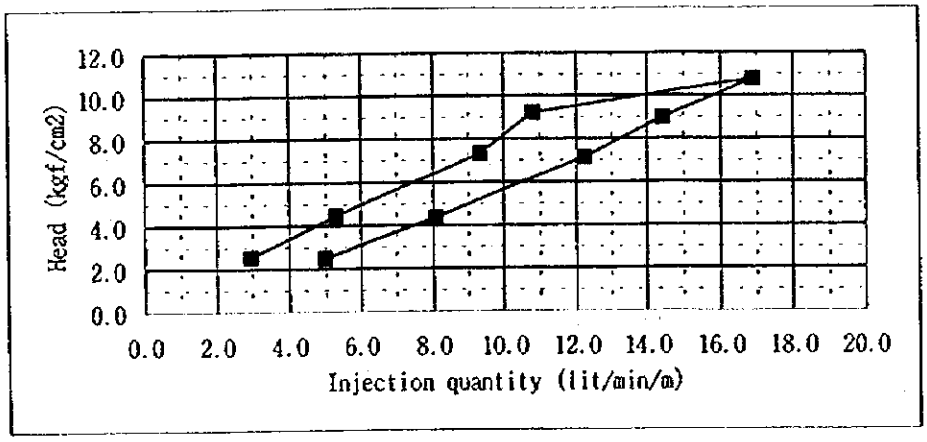


WATER PRESSURE TEST RECORD

Hole No. G95-4 2/8

Test section (m) 14.60 - 19.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	14.8	3.0	0.02	5.00	0.70	90.00	14.65	2.5	11.8
3.00	26.4	5.3	0.07	5.00	0.70	90.00	14.65	4.5	11.8
6.00	46.7	9.3	0.23	5.00	0.70	90.00	14.65	7.3	12.8
8.00	54.1	10.8	0.31	5.00	0.70	90.00	14.65	9.2	11.7
10.00	84.5	16.9	0.75	5.00	0.70	90.00	14.65	10.8	15.7
8.00	72.2	14.4	0.55	5.00	0.70	90.00	14.65	9.0	16.1
6.00	61.1	12.2	0.39	5.00	0.70	90.00	14.65	7.1	17.1
3.00	40.4	8.1	0.17	5.00	0.70	90.00	14.65	4.4	18.5
1.00	24.9	5.0	0.07	5.00	0.70	90.00	14.65	2.5	20.2

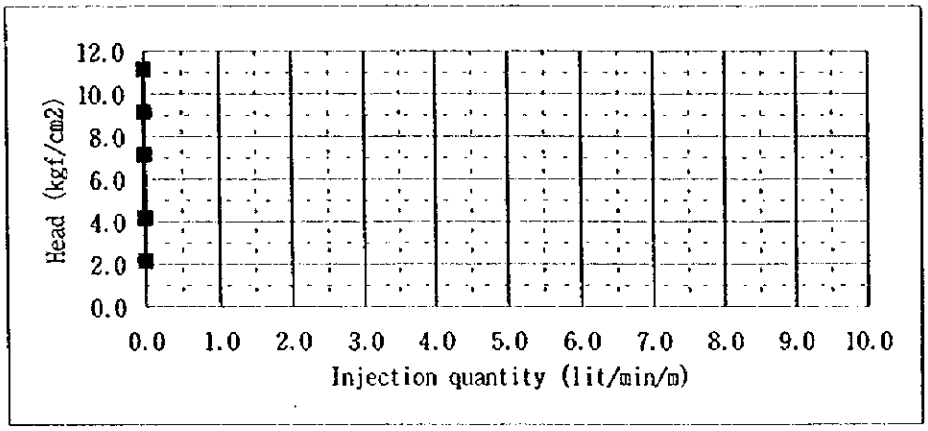


WATER PRESSURE TEST RECORD

Hole No. G95-4 3/8

Test section (m) 19.60 - 24.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.70	90.00	9.80	2.2	0.0
3.00	0.0	0.0	0.00	5.00	1.70	90.00	9.80	4.2	0.0
6.00	0.0	0.0	0.00	5.00	1.70	90.00	9.80	7.2	0.0
8.00	0.0	0.0	0.00	5.00	1.70	90.00	9.80	9.2	0.0
10.00	0.0	0.0	0.00	5.00	1.70	90.00	9.80	11.2	0.0

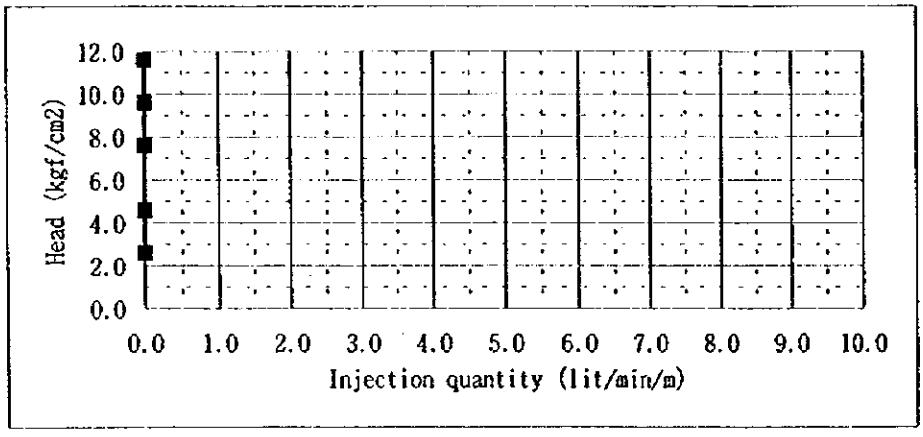


WATER PRESSURE TEST RECORD

Hole No. G95-4 4/8

Test section (m) 24.60 - 29.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.20	90.00	14.60	2.6	0.0
3.00	0.0	0.0	0.00	5.00	1.20	90.00	14.60	4.6	0.0
6.00	0.0	0.0	0.00	5.00	1.20	90.00	14.60	7.6	0.0
8.00	0.0	0.0	0.00	5.00	1.20	90.00	14.60	9.6	0.0
10.00	0.0	0.0	0.00	5.00	1.20	90.00	14.60	11.6	0.0

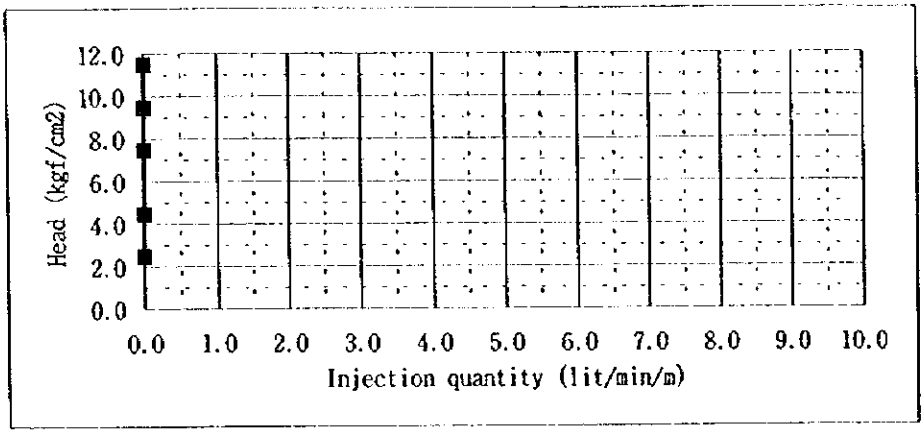


WATER PRESSURE TEST RECORD

Hole No. G95-4 5/8

Test section (m) 29.60 - 31.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.90	0.80	90.00	13.80	2.5	0.0
3.00	0.0	0.0	0.00	4.90	0.80	90.00	13.80	4.5	0.0
6.00	0.0	0.0	0.00	4.90	0.80	90.00	13.80	7.5	0.0
8.00	0.0	0.0	0.00	4.90	0.80	90.00	13.80	9.5	0.0
10.00	0.0	0.0	0.00	4.90	0.80	90.00	13.80	11.5	0.0

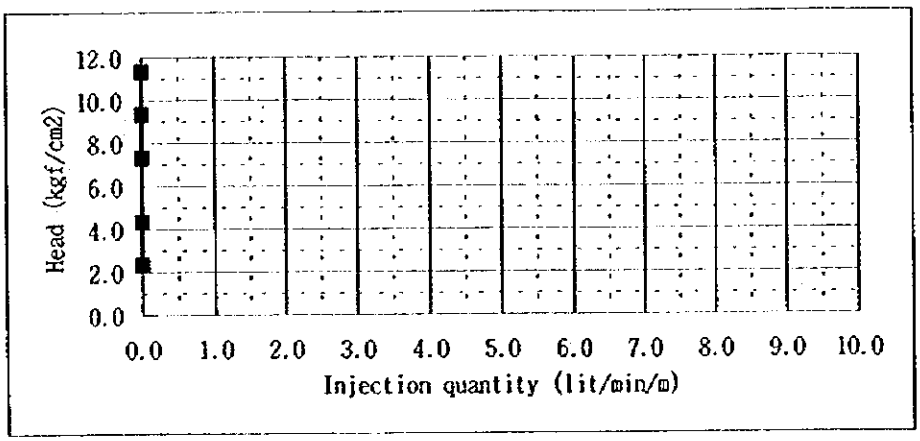


WATER PRESSURE TEST RECORD

Hole No. G95-4 6/8

Test section (m) 34.50 - 39.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	13.00	2.3	0.0
3.00	0.0	0.0	0.00	5.00	0.30	90.00	13.00	4.3	0.0
6.00	0.0	0.0	0.00	5.00	0.30	90.00	13.00	7.3	0.0
8.00	0.0	0.0	0.00	5.00	0.30	90.00	13.00	9.3	0.0
10.00	0.0	0.0	0.00	5.00	0.30	90.00	13.00	11.3	0.0

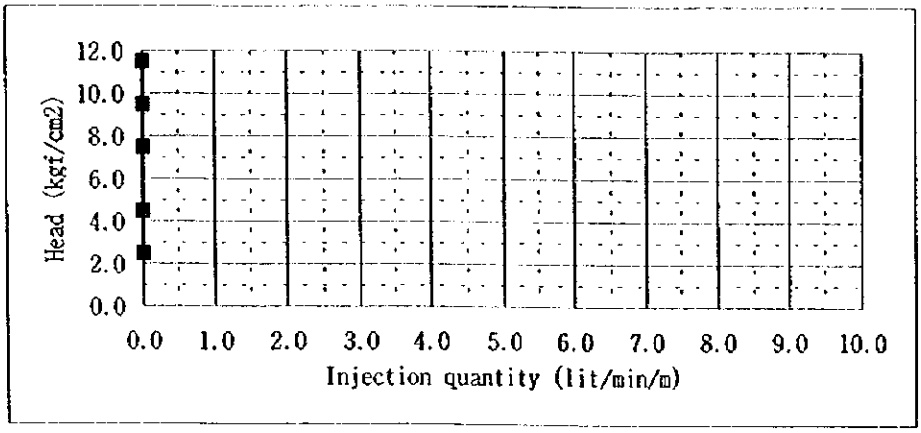


WATER PRESSURE TEST RECORD

Hole No. G95-4 7/8

Test section (m) 39.50 - 44.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	13.60	2.5	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	13.60	4.5	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	13.60	7.5	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	13.60	9.5	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	13.60	11.5	0.0



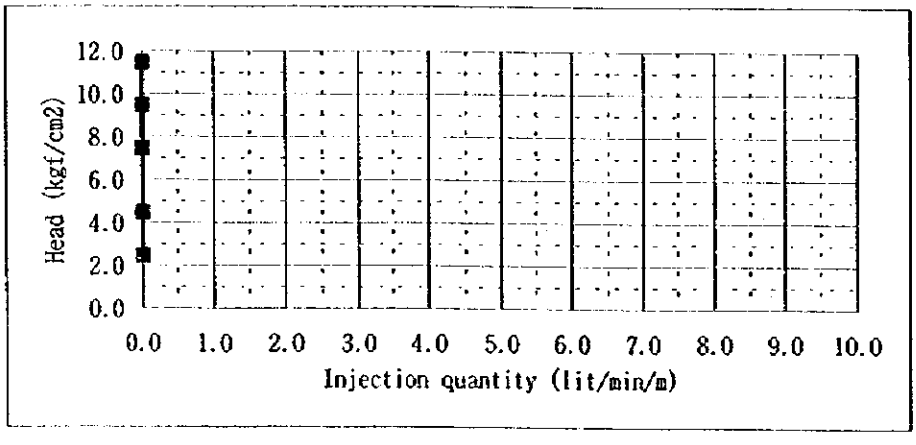
WATER PRESSURE TEST RECORD

Hole No. G95-4

Test No. 8/8

Test section (m) 44.50 - 50.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.75	0.80	90.00	13.80	2.5	0.0
3.00	0.0	0.0	0.00	5.75	0.80	90.00	13.80	4.5	0.0
6.00	0.0	0.0	0.00	5.75	0.80	90.00	13.80	7.5	0.0
8.00	0.0	0.0	0.00	5.75	0.80	90.00	13.80	9.5	0.0
10.00	0.0	0.0	0.00	5.75	0.80	90.00	13.80	11.5	0.0



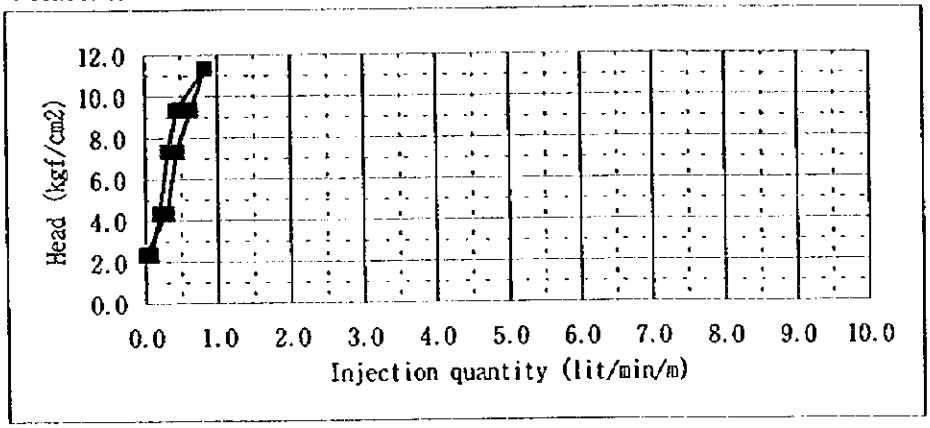
WATER PRESSURE TEST RECORD

Hole No. G95-5 1/8

Test section (m) 12.00 - 17.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	13.10	2.3	0.0
3.00	1.5	0.3	0.00	5.00	0.30	90.00	13.10	4.3	0.7
6.00	2.2	0.4	0.00	5.00	0.30	90.00	13.10	7.3	0.6
8.00	3.2	0.6	0.00	5.00	0.30	90.00	13.10	9.3	0.7
10.00	4.2	0.8	0.00	5.00	0.30	90.00	13.10	11.3	0.7
8.00	2.2	0.4	0.00	5.00	0.30	90.00	13.10	9.3	0.5
6.00	1.6	0.3	0.00	5.00	0.30	90.00	13.10	7.3	0.4
3.00	1.0	0.2	0.00	5.00	0.30	90.00	13.10	4.3	0.5
1.00	0.4	0.1	0.00	5.00	0.30	90.00	13.10	2.3	0.3

6.90E-05 : Constant number of rod friction loss for BW boring rod

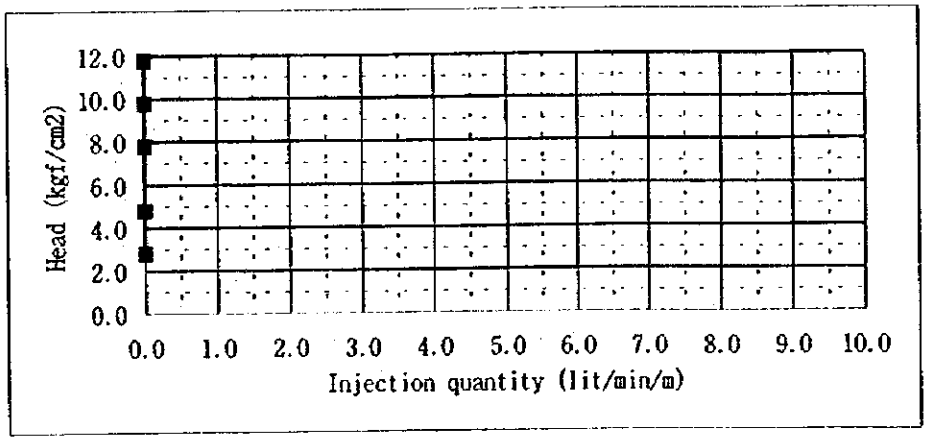


WATER PRESSURE TEST RECORD

Hole No. G95-5 2/8

Test section (m) 17.00 - 22.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	16.55	2.8	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	16.55	4.8	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	16.55	7.8	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	16.55	9.8	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	16.55	11.8	0.0

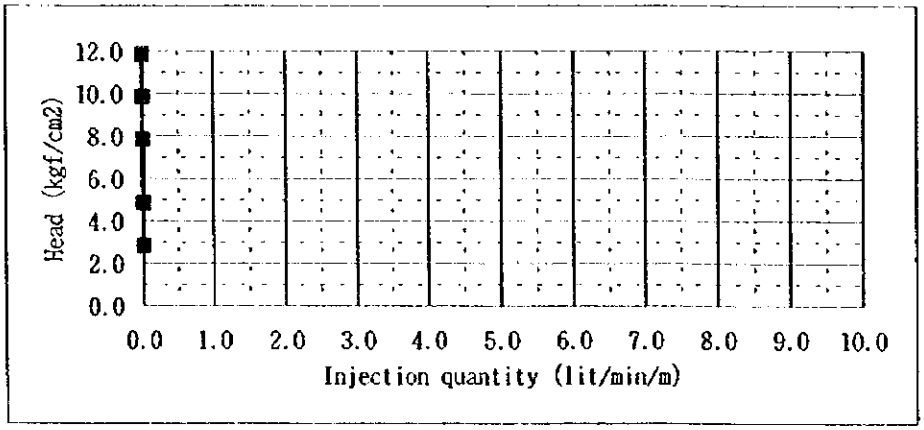


WATER PRESSURE TEST RECORD

Hole No. G95-5 3/8

Test section (m) 22.00 - 27.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.80	90.00	17.60	2.8	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	17.60	4.8	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	17.60	7.8	0.0
8.00	0.0	0.0	0.00	5.00	0.80	90.00	17.60	9.8	0.0
10.00	0.0	0.0	0.00	5.00	0.80	90.00	17.60	11.8	0.0

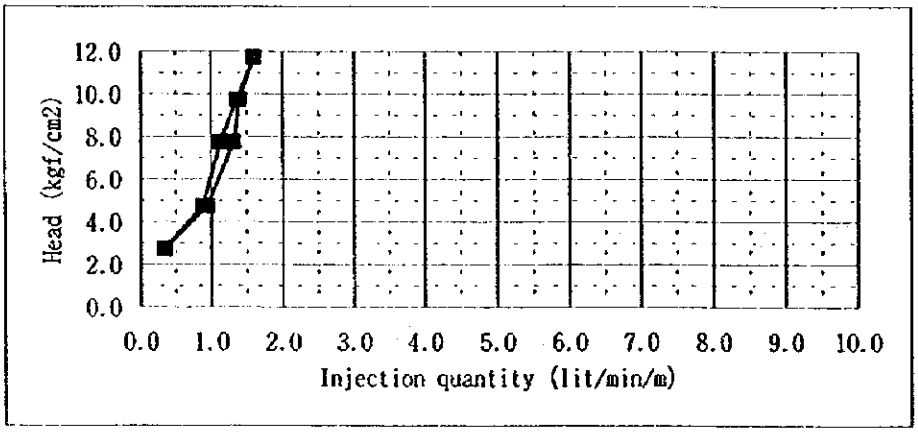


WATER PRESSURE TEST RECORD

Hole No. G95-5 4/8

Test section (m) 27.00 - 33.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	2.1	0.4	0.00	6.00	0.30	90.00	17.10	2.7	1.3
3.00	5.7	1.0	0.01	6.00	0.30	90.00	17.10	4.7	2.0
6.00	7.9	1.3	0.01	6.00	0.30	90.00	17.10	7.7	1.7
8.00	8.4	1.4	0.01	6.00	0.30	90.00	17.10	9.7	1.4
10.00	9.6	1.6	0.02	6.00	0.30	90.00	17.10	11.7	1.4
8.00	8.2	1.4	0.01	6.00	0.30	90.00	17.10	9.7	1.4
6.00	6.8	1.1	0.01	6.00	0.30	90.00	17.10	7.7	1.5
3.00	5.3	0.9	0.01	6.00	0.30	90.00	17.10	4.7	1.9
1.00	2.0	0.3	0.00	6.00	0.30	90.00	17.10	2.7	1.2

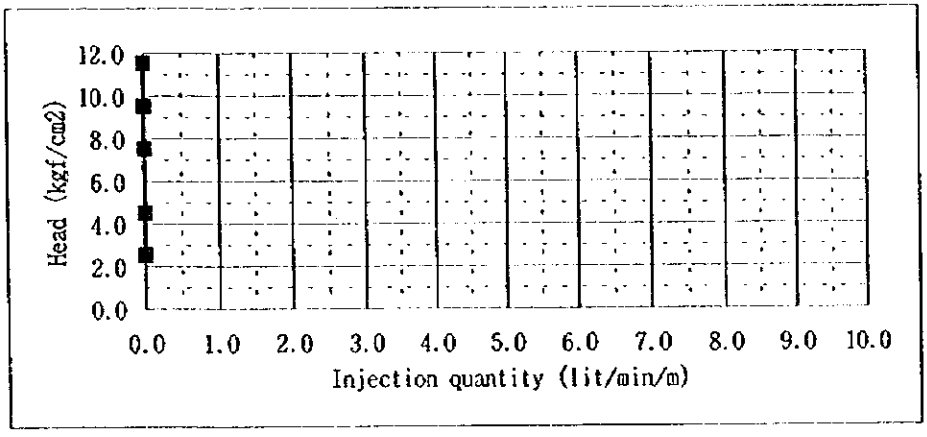


WATER PRESSURE TEST RECORD

Hole No. G95-5 5/8

Test section (m) 33.00 - 38.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	15.00	2.5	0.0
3.00	0.0	0.0	0.00	5.00	0.30	90.00	15.00	4.5	0.0
6.00	0.0	0.0	0.00	5.00	0.30	90.00	15.00	7.5	0.0
8.00	0.0	0.0	0.00	5.00	0.30	90.00	15.00	9.5	0.0
10.00	0.0	0.0	0.00	5.00	0.30	90.00	15.00	11.5	0.0

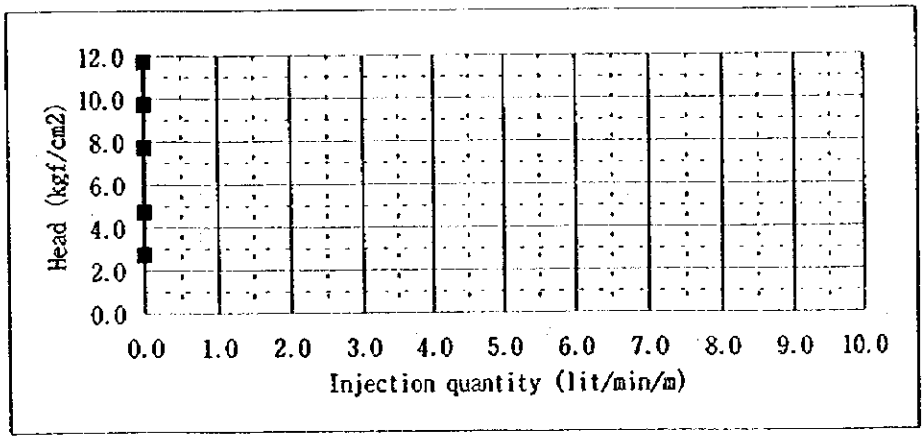


WATER PRESSURE TEST RECORD

Hole No. G95-5 6/8

Test section (m) 37.70 - 42.70

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.60	90.00	15.65	2.7	0.0
3.00	0.0	0.0	0.00	5.00	1.60	90.00	15.65	4.7	0.0
6.00	0.0	0.0	0.00	5.00	1.60	90.00	15.65	7.7	0.0
8.00	0.0	0.0	0.00	5.00	1.60	90.00	15.65	9.7	0.0
10.00	0.0	0.0	0.00	5.00	1.60	90.00	15.65	11.7	0.0



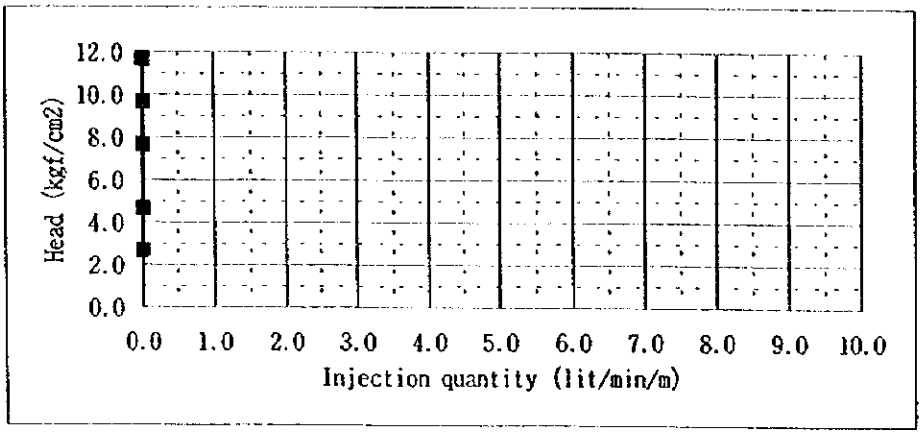
WATER PRESSURE TEST RECORD

Hole No. G95-5 7/8

Test No.

Test section (m) 40.00 - 45.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.80	90.00	15.80	2.7	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	15.80	4.7	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	15.80	7.7	0.0
8.00	0.0	0.0	0.00	5.00	0.80	90.00	15.80	9.7	0.0
10.00	0.0	0.0	0.00	5.00	0.80	90.00	15.80	11.7	0.0

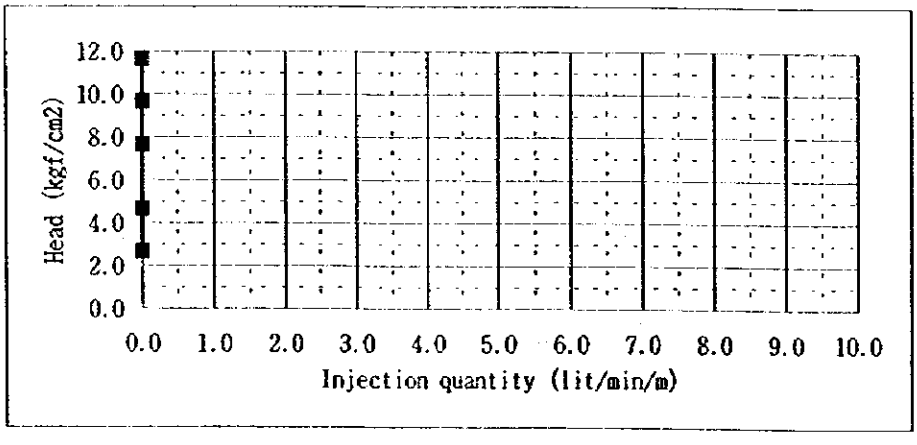


WATER PRESSURE TEST RECORD

Hole No. G95-5 8/8

Test section (m) 45.00 - 50.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	16.20	2.7	0.0
3.00	0.0	0.0	0.00	5.00	0.30	90.00	16.20	4.7	0.0
6.00	0.0	0.0	0.00	5.00	0.30	90.00	16.20	7.7	0.0
8.00	0.0	0.0	0.00	5.00	0.30	90.00	16.20	9.7	0.0
10.00	0.0	0.0	0.00	5.00	0.30	90.00	16.20	11.7	0.0



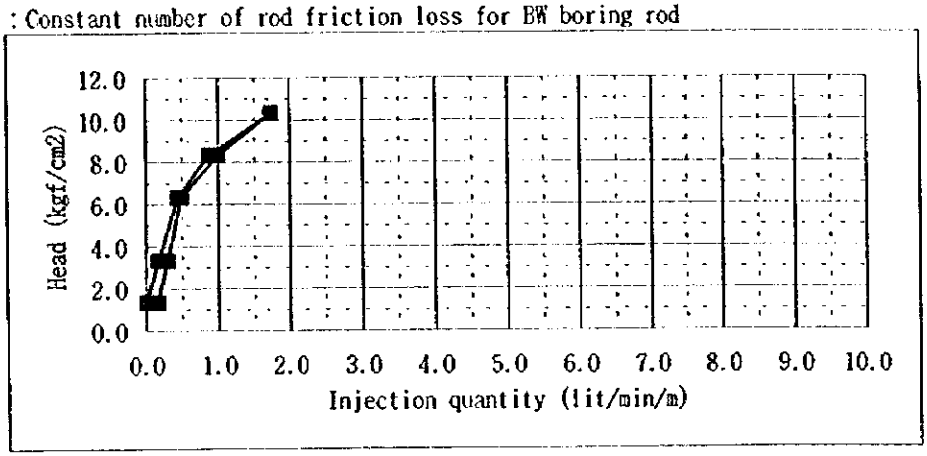
WATER PRESSURE TEST RECORD

Hole No. G95-6 1/16

Test section (m) 2.30 - 8.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.9	0.2	0.00	5.70	1.10	90.00	2.15	1.3	1.2
3.00	1.7	0.3	0.00	5.70	1.10	90.00	2.15	3.3	0.9
6.00	2.8	0.5	0.00	5.70	1.10	90.00	2.15	6.3	0.8
8.00	5.7	1.0	0.00	5.70	1.10	90.00	2.15	8.3	1.2
10.00	9.9	1.7	0.00	5.70	1.10	90.00	2.15	10.3	1.7
8.00	5.0	0.9	0.00	5.70	1.10	90.00	2.15	8.3	1.1
6.00	2.5	0.4	0.00	5.70	1.10	90.00	2.15	6.3	0.7
3.00	1.0	0.2	0.00	5.70	1.10	90.00	2.15	3.3	0.5
1.00	0.0	0.0	0.00	5.70	1.10	90.00	2.15	1.3	0.0

6.90E-05 : Constant number of rod friction loss for BW boring rod

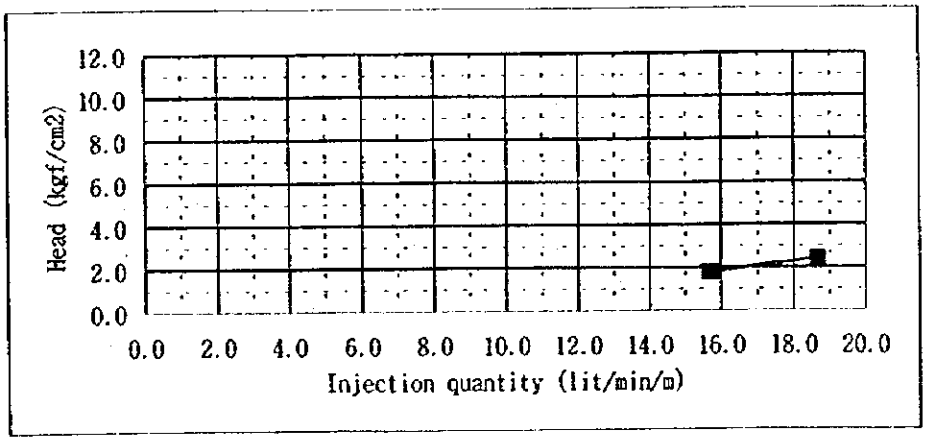


WATER PRESSURE TEST RECORD

Hole No. G95-6 2/16

Test section (m) 8.00 - 13.00

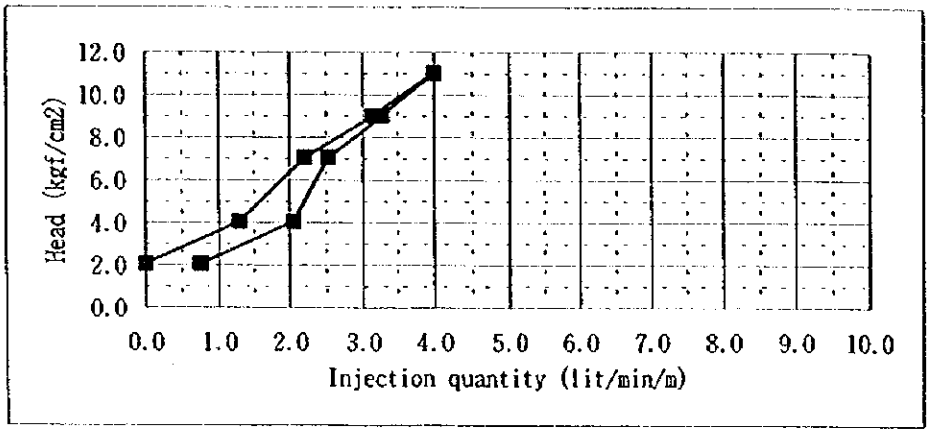
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	78.9	15.8	0.40	5.00	1.40	90.00	10.50	1.8	88.3
1.80	93.4	18.7	0.57	5.00	1.40	90.00	10.50	2.4	77.1
1.00	78.3	15.7	0.40	5.00	1.40	90.00	10.50	1.8	87.4



WATER PRESSURE TEST RECORD

Hole No. G95-6 3/16
Test section (m) 13.00 - 18.10

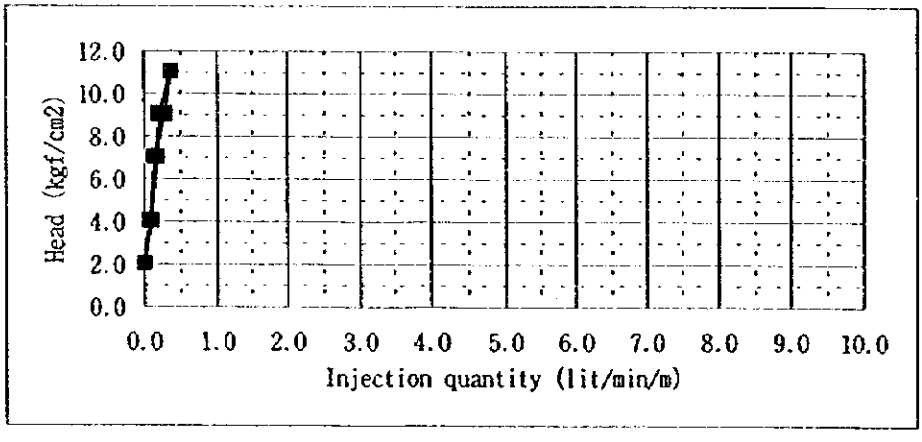
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.10	0.90	90.00	9.70	2.1	0.0
3.00	6.6	1.3	0.00	5.10	0.90	90.00	9.70	4.1	3.2
6.00	11.3	2.2	0.01	5.10	0.90	90.00	9.70	7.0	3.1
8.00	16.0	3.1	0.02	5.10	0.90	90.00	9.70	9.0	3.5
10.00	20.4	4.0	0.04	5.10	0.90	90.00	9.70	11.0	3.6
8.00	16.7	3.3	0.03	5.10	0.90	90.00	9.70	9.0	3.6
6.00	12.9	2.5	0.02	5.10	0.90	90.00	9.70	7.0	3.6
3.00	10.5	2.1	0.01	5.10	0.90	90.00	9.70	4.0	5.1
1.00	3.8	0.7	0.00	5.10	0.90	90.00	9.70	2.1	3.6



WATER PRESSURE TEST RECORD

Hole No. G95-6 4/16
Test section (m) 18.10 - 23.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.90	0.30	90.00	10.15	2.0	0.0
3.00	0.4	0.1	0.00	4.90	0.30	90.00	10.15	4.0	0.2
6.00	0.9	0.2	0.00	4.90	0.30	90.00	10.15	7.0	0.3
8.00	1.0	0.2	0.00	4.90	0.30	90.00	10.15	9.0	0.2
10.00	1.8	0.4	0.00	4.90	0.30	90.00	10.15	11.0	0.3
8.00	1.4	0.3	0.00	4.90	0.30	90.00	10.15	9.0	0.3
6.00	0.7	0.1	0.00	4.90	0.30	90.00	10.15	7.0	0.2
3.00	0.5	0.1	0.00	4.90	0.30	90.00	10.15	4.0	0.3
1.00	0.0	0.0	0.00	4.90	0.30	90.00	10.15	2.0	0.0

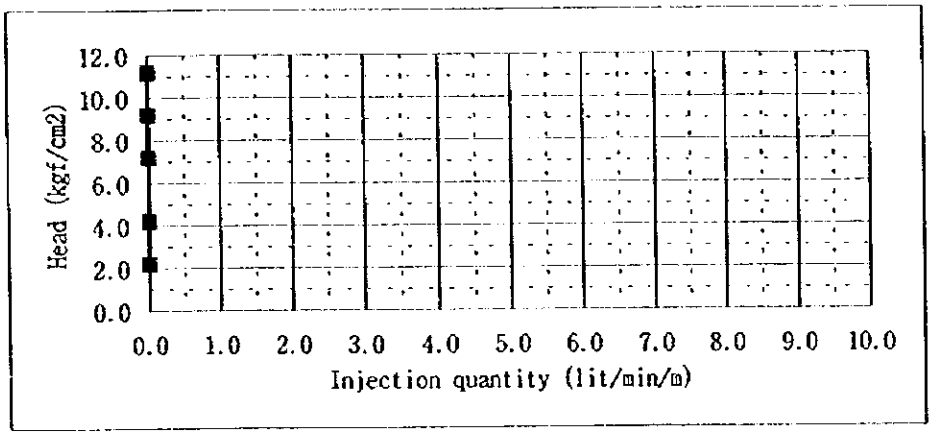


WATER PRESSURE TEST RECORD

Hole No. G95-6 5/16

Test section (m) 23.00 - 28.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.40	90.00	10.50	2.2	0.0
3.00	0.0	0.0	0.00	5.00	1.40	90.00	10.50	4.2	0.0
6.00	0.0	0.0	0.00	5.00	1.40	90.00	10.50	7.2	0.0
8.00	0.0	0.0	0.00	5.00	1.40	90.00	10.50	9.2	0.0
10.00	0.0	0.0	0.00	5.00	1.40	90.00	10.50	11.2	0.0

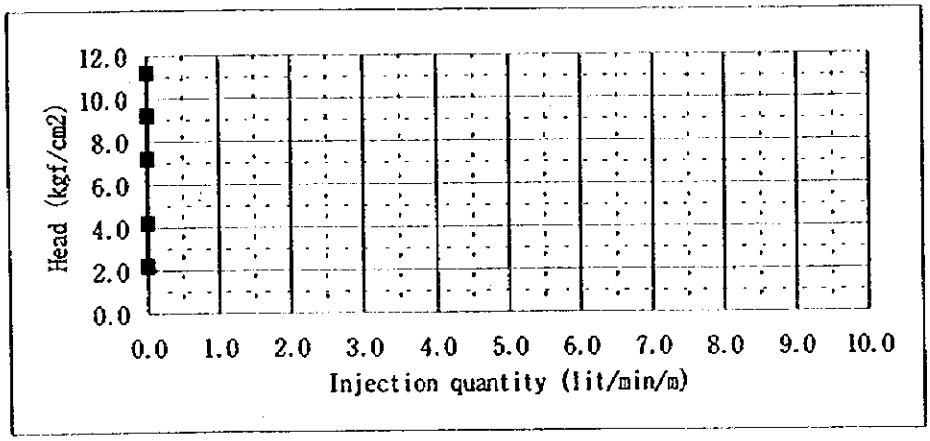


WATER PRESSURE TEST RECORD

Hole No. G95-6 6/16

Test section (m) 28.00 - 33.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.80	90.00	11.20	2.2	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	11.20	4.2	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	11.20	7.2	0.0
8.00	0.0	0.0	0.00	5.00	0.80	90.00	11.20	9.2	0.0
10.00	0.0	0.0	0.00	5.00	0.80	90.00	11.20	11.2	0.0

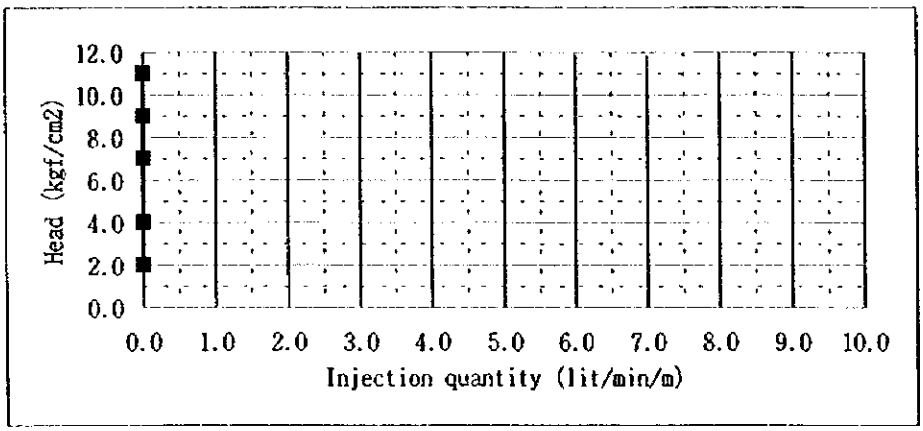


WATER PRESSURE TEST RECORD

Hole No. G95-6 7/16

Test section (m) 33.00 - 38.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	10.00	2.0	0.0
3.00	0.0	0.0	0.00	5.00	0.30	90.00	10.00	4.0	0.0
6.00	0.0	0.0	0.00	5.00	0.30	90.00	10.00	7.0	0.0
8.00	0.0	0.0	0.00	5.00	0.30	90.00	10.00	9.0	0.0
10.00	0.0	0.0	0.00	5.00	0.30	90.00	10.00	11.0	0.0

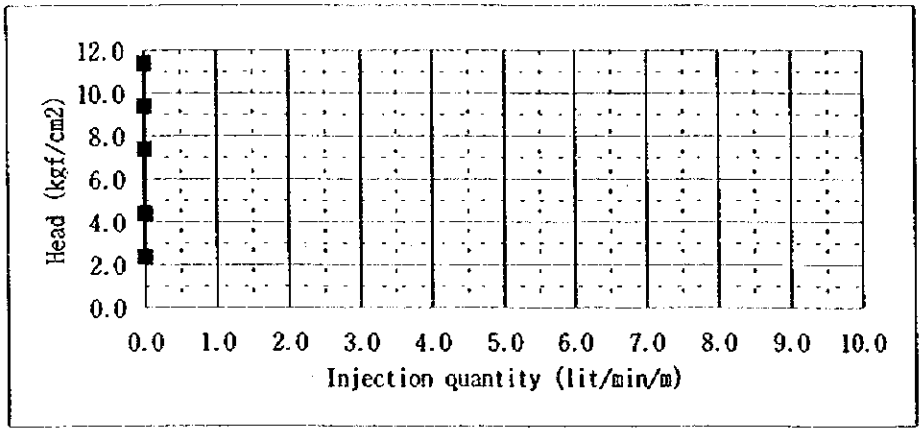


WATER PRESSURE TEST RECORD

Hole No. G95-6 8/16

Test section (m) 38.00 - 43.00

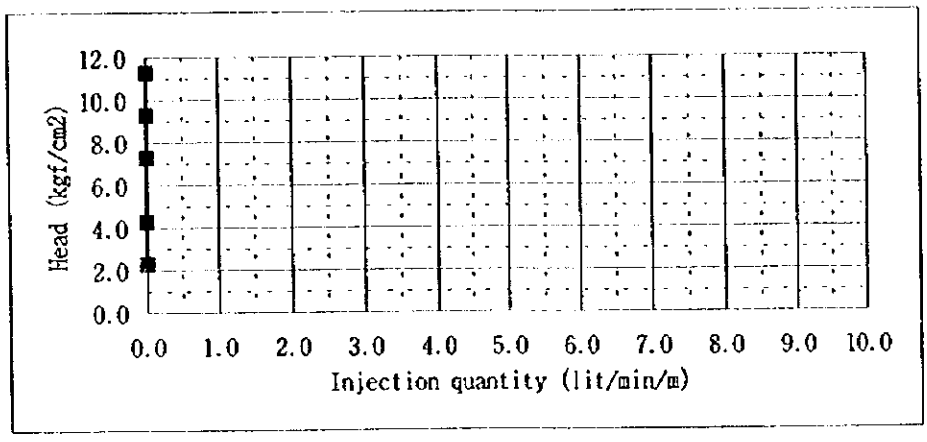
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	12.50	2.4	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	12.50	4.4	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	12.50	7.4	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	12.50	9.4	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	12.50	11.4	0.0



WATER PRESSURE TEST RECORD

Hole No. G95-6 9/16
Test section (m) 43.00 - 48.00

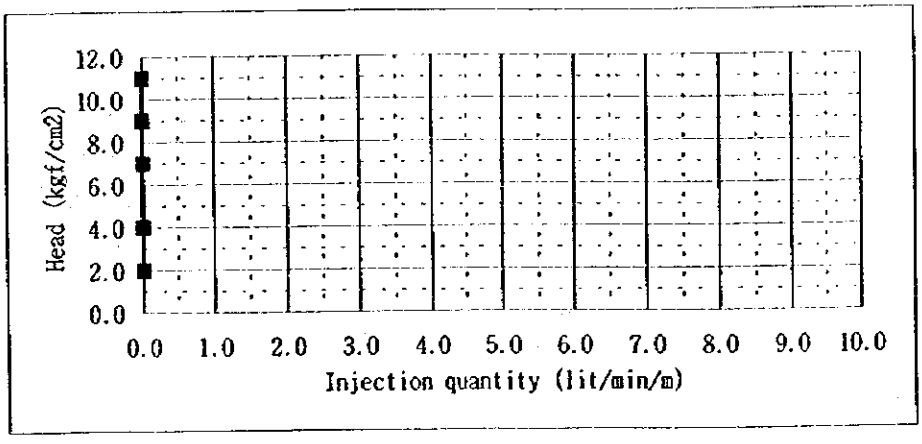
Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.80	90.00	12.00	2.3	0.0
3.00	0.0	0.0	0.00	5.00	0.80	90.00	12.00	4.3	0.0
6.00	0.0	0.0	0.00	5.00	0.80	90.00	12.00	7.3	0.0
8.00	0.0	0.0	0.00	5.00	0.80	90.00	12.00	9.3	0.0
10.00	0.0	0.0	0.00	5.00	0.80	90.00	12.00	11.3	0.0



WATER PRESSURE TEST RECORD

Hole No. G95-6 10/16
Test section (m) 48.00 - 53.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.30	90.00	9.55	2.0	0.0
3.00	0.0	0.0	0.00	5.00	0.30	90.00	9.55	4.0	0.0
6.00	0.0	0.0	0.00	5.00	0.30	90.00	9.55	7.0	0.0
8.00	0.0	0.0	0.00	5.00	0.30	90.00	9.55	9.0	0.0
10.00	0.0	0.0	0.00	5.00	0.30	90.00	9.55	11.0	0.0

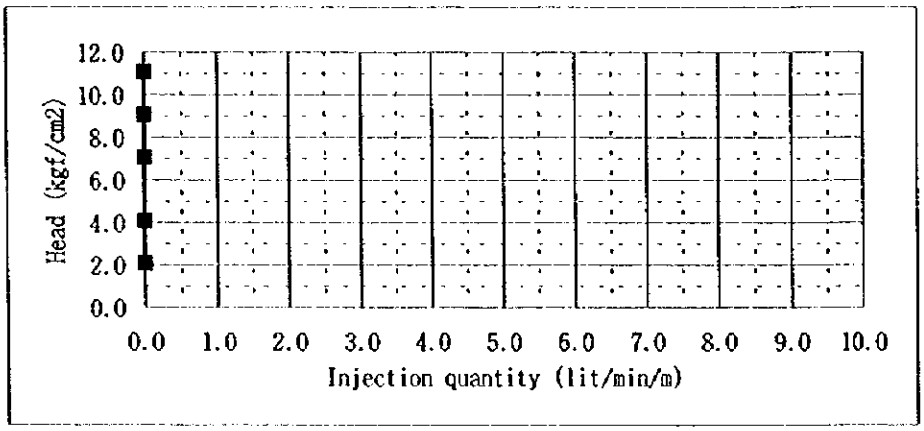


WATER PRESSURE TEST RECORD

Hole No. G95-6 11/16

Test section (m) 53.00 - 58.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	1.30	90.00	9.40	2.1	0.0
3.00	0.0	0.0	0.00	5.00	1.30	90.00	9.40	4.1	0.0
6.00	0.0	0.0	0.00	5.00	1.30	90.00	9.40	7.1	0.0
8.00	0.0	0.0	0.00	5.00	1.30	90.00	9.40	9.1	0.0
10.00	0.0	0.0	0.00	5.00	1.30	90.00	9.40	11.1	0.0

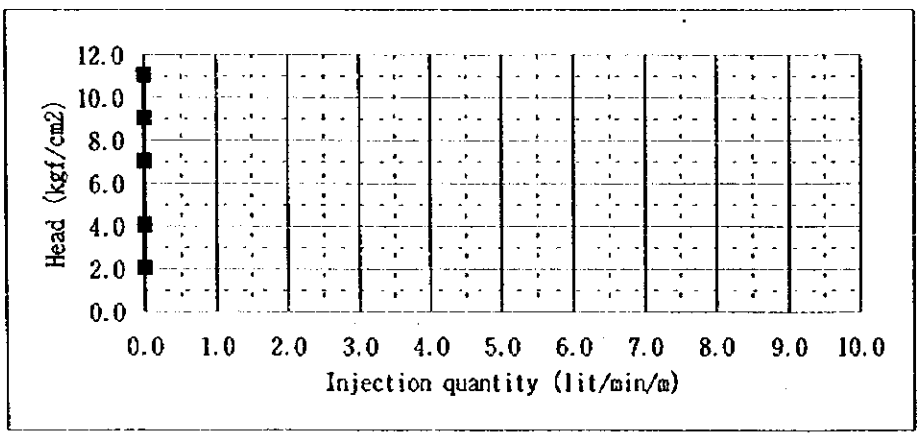


WATER PRESSURE TEST RECORD

Hole No. G95-6 12/16

Test section (m) 58.00 - 62.70

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.70	0.80	90.00	9.60	2.0	0.0
3.00	0.0	0.0	0.00	4.70	0.80	90.00	9.60	4.0	0.0
6.00	0.0	0.0	0.00	4.70	0.80	90.00	9.60	7.0	0.0
8.00	0.0	0.0	0.00	4.70	0.80	90.00	9.60	9.0	0.0
10.00	0.0	0.0	0.00	4.70	0.80	90.00	9.60	11.0	0.0

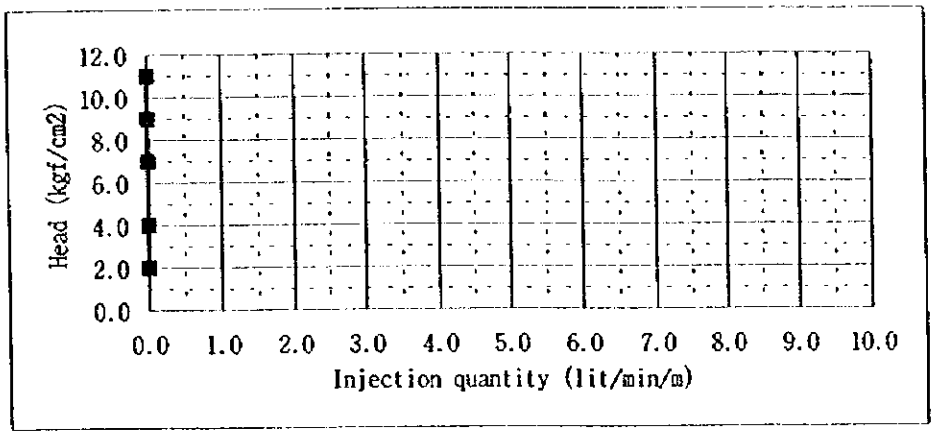


WATER PRESSURE TEST RECORD

Hole No. G95-6 13/16

Test section (m) 62.70 - 67.70

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.00	0.20	90.00	9.80	2.0	0.0
3.00	0.0	0.0	0.00	5.00	0.20	90.00	9.80	4.0	0.0
6.00	0.0	0.0	0.00	5.00	0.20	90.00	9.80	7.0	0.0
8.00	0.0	0.0	0.00	5.00	0.20	90.00	9.80	9.0	0.0
10.00	0.0	0.0	0.00	5.00	0.20	90.00	9.80	11.0	0.0

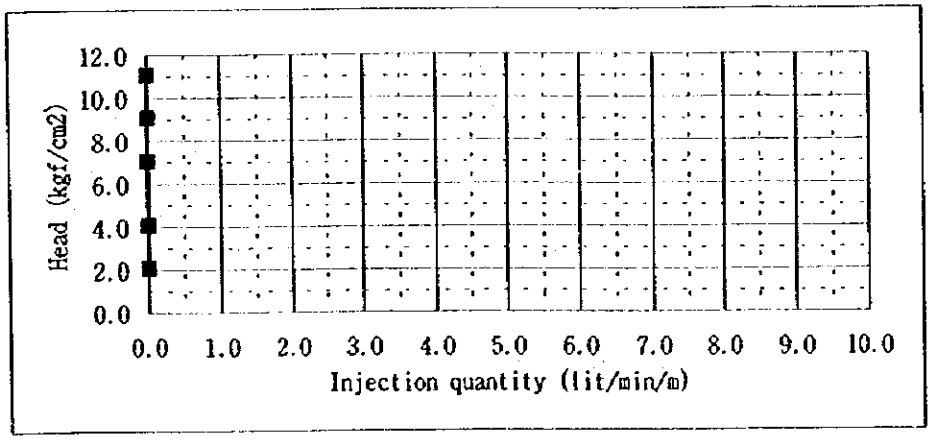


WATER PRESSURE TEST RECORD

Hole No. G95-6 14/16

Test section (m) 68.00 - 73.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.60	1.30	90.00	9.40	2.1	0.0
3.00	0.0	0.0	0.00	5.60	1.30	90.00	9.40	4.1	0.0
6.00	0.0	0.0	0.00	5.60	1.30	90.00	9.40	7.1	0.0
8.00	0.0	0.0	0.00	5.60	1.30	90.00	9.40	9.1	0.0
10.00	0.0	0.0	0.00	5.60	1.30	90.00	9.40	11.1	0.0

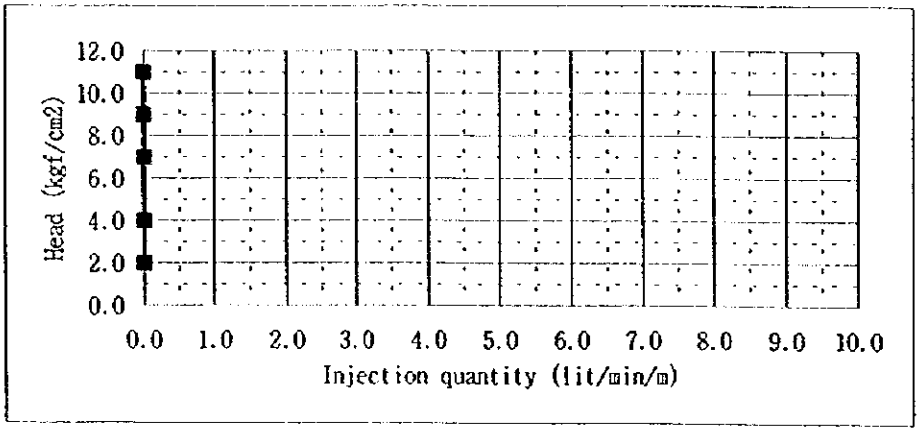


WATER PRESSURE TEST RECORD

Hole No. G95-6 15/16

Test section (m) 73.60 - 76.60

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	3.00	0.30	90.00	9.50	2.0	0.0
3.00	0.0	0.0	0.00	3.00	0.30	90.00	9.50	4.0	0.0
6.00	0.0	0.0	0.00	3.00	0.30	90.00	9.50	7.0	0.0
8.00	0.0	0.0	0.00	3.00	0.30	90.00	9.50	9.0	0.0
10.00	0.0	0.0	0.00	3.00	0.30	90.00	9.50	11.0	0.0

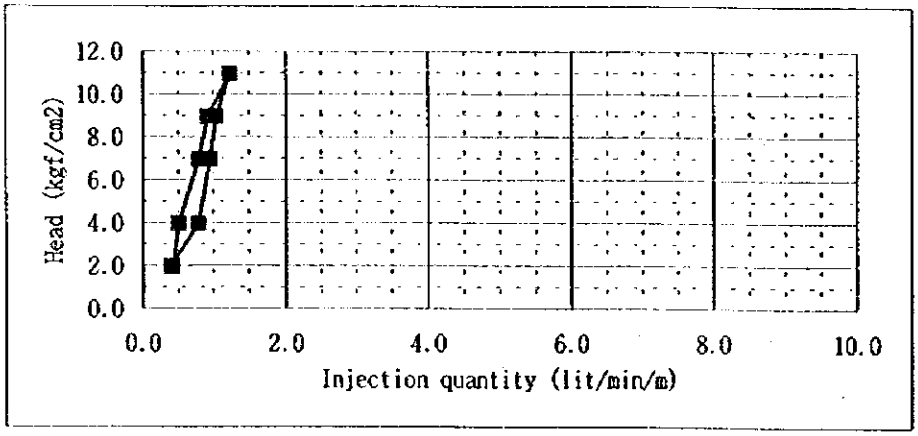


WATER PRESSURE TEST RECORD

Hole No. G95-6 16/16

Test section (m) 76.60 - 80.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.4	0.4	0.00	3.55	0.20	90.00	9.30	1.9	2.0
3.00	2.8	0.8	0.00	3.55	0.20	90.00	9.30	3.9	2.0
6.00	3.4	1.0	0.01	3.55	0.20	90.00	9.30	6.9	1.4
8.00	3.7	1.0	0.01	3.55	0.20	90.00	9.30	8.9	1.2
10.00	4.4	1.2	0.01	3.55	0.20	90.00	9.30	10.9	1.1
8.00	3.3	0.9	0.01	3.55	0.20	90.00	9.30	8.9	1.0
6.00	2.8	0.8	0.00	3.55	0.20	90.00	9.30	6.9	1.1
3.00	1.8	0.5	0.00	3.55	0.20	90.00	9.30	3.9	1.3
1.00	1.5	0.4	0.00	3.55	0.20	90.00	9.30	1.9	2.2



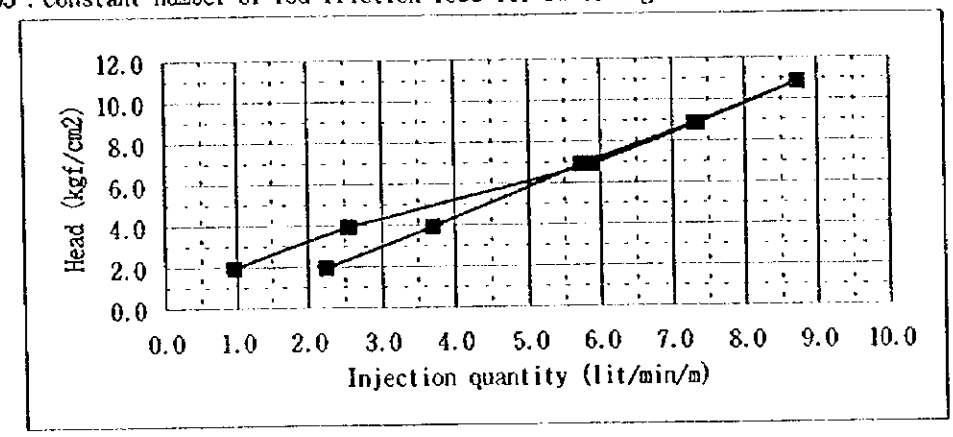
WATER PRESSURE TEST RECORD

Hole No. C95-7 1/4

Test section (m) 9.40 - 13.90

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	4.3	1.0	0.00	4.50	1.40	90.00	8.00	1.9	4.9
3.00	11.5	2.6	0.01	4.50	1.40	90.00	8.00	3.9	6.5
6.00	26.5	5.9	0.05	4.50	1.40	90.00	8.00	6.9	8.5
8.00	33.1	7.4	0.08	4.50	1.40	90.00	8.00	8.9	8.3
10.00	39.3	8.7	0.12	4.50	1.40	90.00	8.00	10.8	8.1
8.00	32.9	7.3	0.08	4.50	1.40	90.00	8.00	8.9	8.3
6.00	25.8	5.7	0.05	4.50	1.40	90.00	8.00	6.9	8.3
3.00	16.7	3.7	0.02	4.50	1.40	90.00	8.00	3.9	9.5
1.00	10.1	2.2	0.01	4.50	1.40	90.00	8.00	1.9	11.6

6.90E-05 : Constant number of rod friction loss for BW boring rod

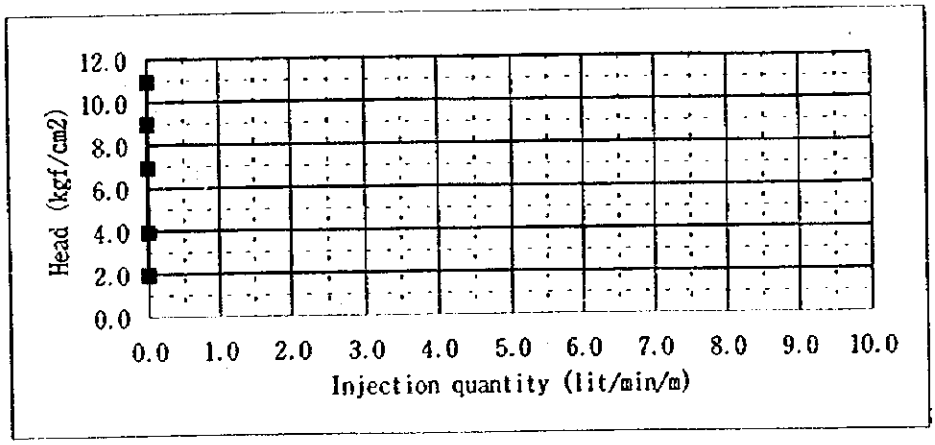


WATER PRESSURE TEST RECORD

Hole No. C95-7 2/4

Test section (m) 13.90 - 20.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	6.30	1.40	90.00	8.00	1.9	0.0
3.00	0.0	0.0	0.00	6.30	1.40	90.00	8.00	3.9	0.0
6.00	0.0	0.0	0.00	6.30	1.40	90.00	8.00	6.9	0.0
8.00	0.0	0.0	0.00	6.30	1.40	90.00	8.00	8.9	0.0
10.00	0.0	0.0	0.00	6.30	1.40	90.00	8.00	10.9	0.0

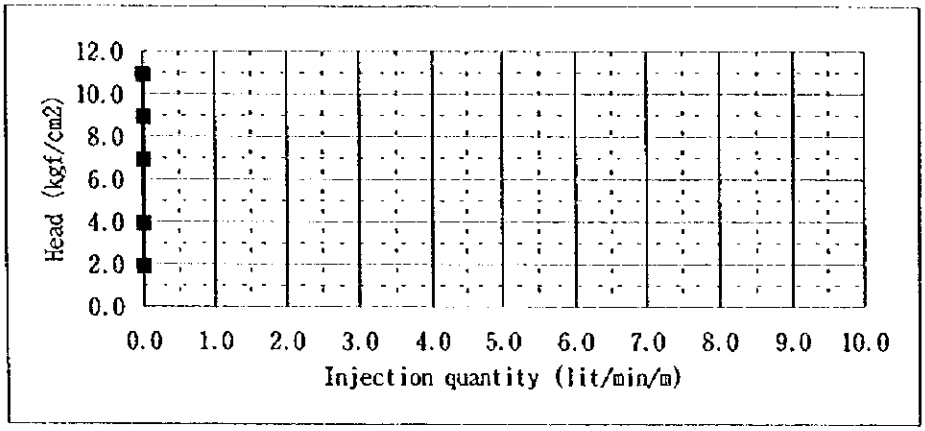


WATER PRESSURE TEST RECORD

Hole No. G95-7 3/4

Test section (m) 20.20 - 24.90

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.70	1.10	90.00	8.00	1.9	0.0
3.00	0.0	0.0	0.00	4.70	1.10	90.00	8.00	3.9	0.0
6.00	0.0	0.0	0.00	4.70	1.10	90.00	8.00	6.9	0.0
8.00	0.0	0.0	0.00	4.70	1.10	90.00	8.00	8.9	0.0
10.00	0.0	0.0	0.00	4.70	1.10	90.00	8.00	10.9	0.0

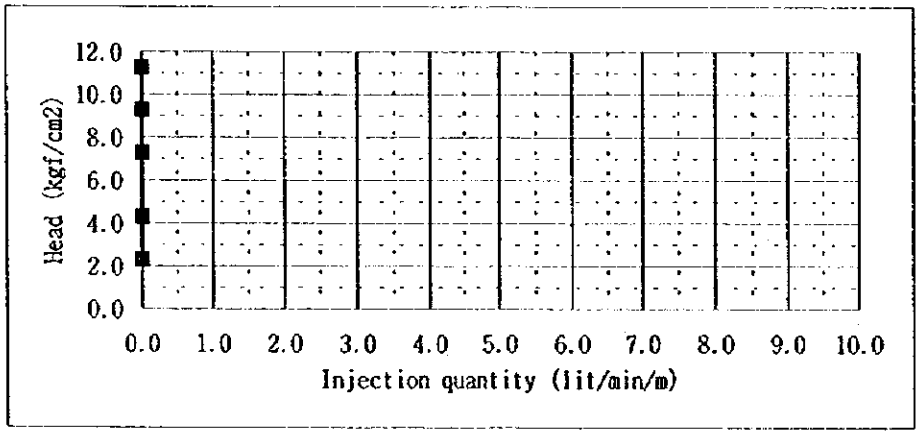


WATER PRESSURE TEST RECORD

Hole No. G95-7 4/4

Test section (m) 24.90 - 30.05

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.15	0.90	90.00	11.90	2.3	0.0
3.00	0.0	0.0	0.00	5.15	0.90	90.00	11.90	4.3	0.0
6.00	0.0	0.0	0.00	5.15	0.90	90.00	11.90	7.3	0.0
8.00	0.0	0.0	0.00	5.15	0.90	90.00	11.90	9.3	0.0
10.00	0.0	0.0	0.00	5.15	0.90	90.00	11.90	11.3	0.0



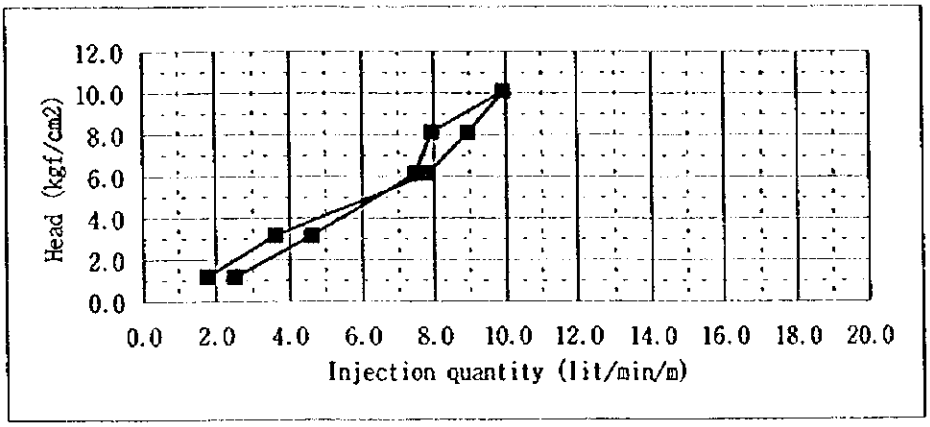
WATER PRESSURE TEST RECORD

Hole No. G95-8 1/9

Test section (m) 5.50 - 10.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	8.0	1.8	0.00	4.50	0.80	90.00	1.00	1.2	15.1
3.00	16.3	3.6	0.01	4.50	0.80	90.00	1.00	3.2	11.4
6.00	35.3	7.8	0.05	4.50	0.80	90.00	1.00	6.1	12.8
8.00	40.3	9.0	0.07	4.50	0.80	90.00	1.00	8.1	11.0
10.00	44.7	9.9	0.09	4.50	0.80	90.00	1.00	10.1	9.8
8.00	35.8	8.0	0.06	4.50	0.80	90.00	1.00	8.1	9.8
6.00	33.6	7.5	0.05	4.50	0.80	90.00	1.00	6.1	12.2
3.00	20.8	4.6	0.02	4.50	0.80	90.00	1.00	3.2	14.6
1.00	11.3	2.5	0.01	4.50	0.80	90.00	1.00	1.2	21.4

6.90E-05 : Constant number of rod friction loss for BW boring rod

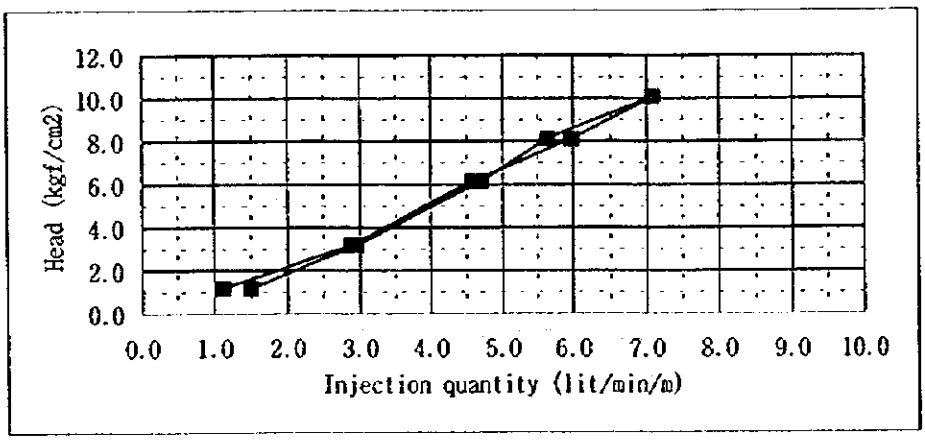


WATER PRESSURE TEST RECORD

Hole No. G95-8 2/9

Test section (m) 10.00 - 15.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	7.5	1.5	0.00	5.00	0.80	90.00	1.00	1.2	12.8
3.00	14.8	3.0	0.02	5.00	0.80	90.00	1.00	3.2	9.4
6.00	23.5	4.7	0.04	5.00	0.80	90.00	1.00	6.1	7.7
8.00	28.2	5.6	0.06	5.00	0.80	90.00	1.00	8.1	6.9
10.00	35.4	7.1	0.09	5.00	0.80	90.00	1.00	10.1	7.0
8.00	29.9	6.0	0.07	5.00	0.80	90.00	1.00	8.1	7.4
6.00	22.9	4.6	0.04	5.00	0.80	90.00	1.00	6.1	7.5
3.00	14.4	2.9	0.02	5.00	0.80	90.00	1.00	3.2	9.1
1.00	5.6	1.1	0.00	5.00	0.80	90.00	1.00	1.2	9.5

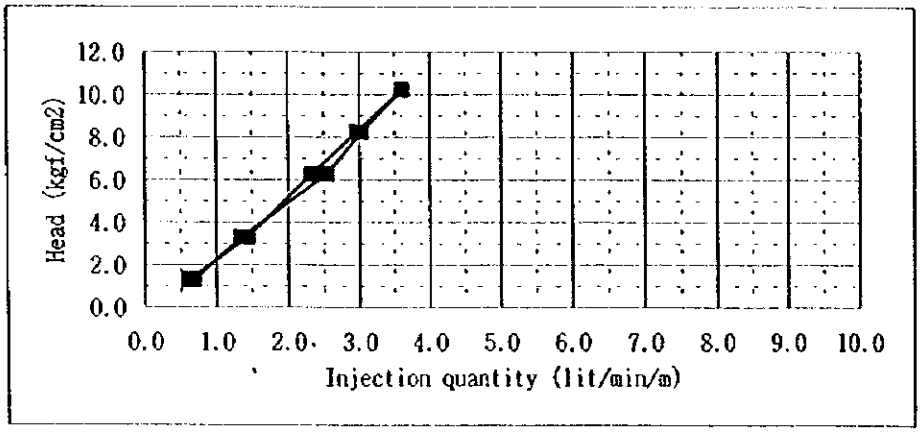


WATER PRESSURE TEST RECORD

Hole No. G95-8 3/9

Test section (m) 15.00 - 20.70

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	3.5	0.6	0.00	5.70	1.90	90.00	1.00	1.3	4.8
3.00	8.2	1.4	0.01	5.70	1.90	90.00	1.00	3.3	4.4
6.00	13.3	2.3	0.02	5.70	1.90	90.00	1.00	6.3	3.7
8.00	16.9	3.0	0.03	5.70	1.90	90.00	1.00	8.3	3.6
10.00	20.6	3.6	0.05	5.70	1.90	90.00	1.00	10.2	3.5
8.00	17.3	3.0	0.03	5.70	1.90	90.00	1.00	8.3	3.7
6.00	14.5	2.5	0.02	5.70	1.90	90.00	1.00	6.3	4.1
3.00	7.7	1.4	0.01	5.70	1.90	90.00	1.00	3.3	4.1
1.00	3.9	0.7	0.00	5.70	1.90	90.00	1.00	1.3	5.3

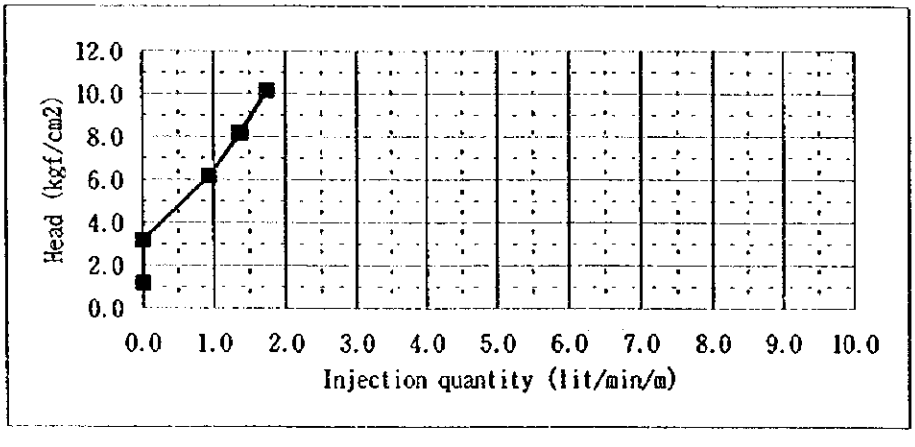


WATER PRESSURE TEST RECORD

Hole No. G95-8 4/9

Test section (m) 20.70 - 25.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.70	0.60	90.00	1.00	1.2	0.0
3.00	0.0	0.0	0.00	4.70	0.60	90.00	1.00	3.2	0.0
6.00	4.4	0.9	0.00	4.70	0.60	90.00	1.00	6.2	1.5
8.00	6.4	1.4	0.01	4.70	0.60	90.00	1.00	8.2	1.7
10.00	8.2	1.7	0.01	4.70	0.60	90.00	1.00	10.2	1.7
8.00	6.5	1.4	0.01	4.70	0.60	90.00	1.00	8.2	1.7
6.00	4.4	0.9	0.00	4.70	0.60	90.00	1.00	6.2	1.5
3.00	0.0	0.0	0.00	4.70	0.60	90.00	1.00	3.2	0.0
1.00	0.0	0.0	0.00	4.70	0.60	90.00	1.00	1.2	0.0

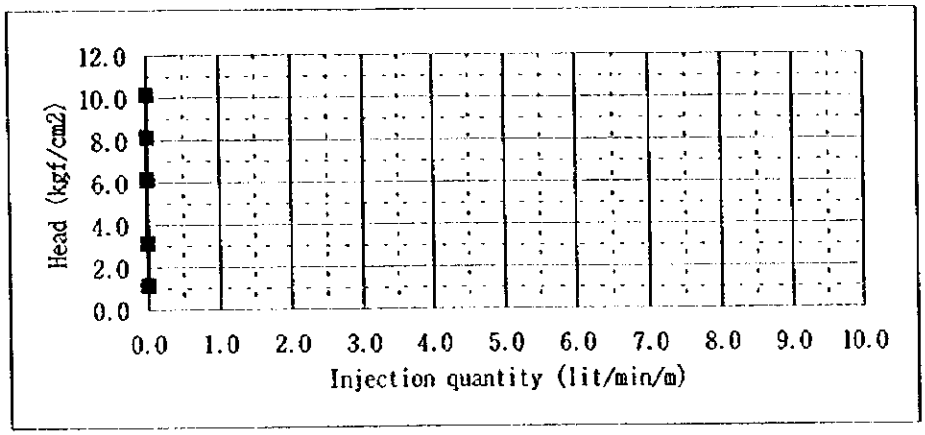


WATER PRESSURE TEST RECORD

Hole No. G95-8 5/9

Test section (m) 25.40 - 30.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.10	0.40	90.00	1.00	1.1	0.0
3.00	0.0	0.0	0.00	5.10	0.40	90.00	1.00	3.1	0.0
6.00	0.0	0.0	0.00	5.10	0.40	90.00	1.00	6.1	0.0
8.00	0.0	0.0	0.00	5.10	0.40	90.00	1.00	8.1	0.0
10.00	0.0	0.0	0.00	5.10	0.40	90.00	1.00	10.1	0.0

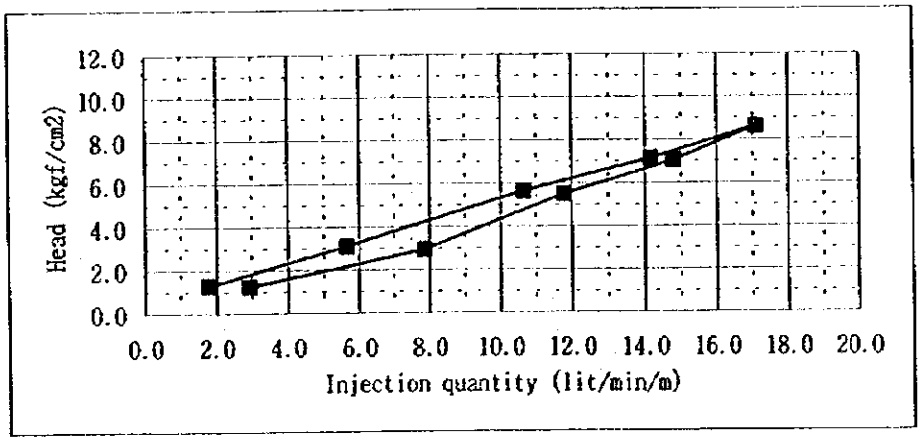


WATER PRESSURE TEST RECORD

Hole No. G95-8 6/9

Test section (m) 30.00 - 35.10

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	9.1	1.8	0.02	5.10	1.80	90.00	1.00	1.3	14.1
3.00	28.8	5.6	0.18	5.10	1.80	90.00	1.00	3.1	18.2
6.00	54.4	10.7	0.65	5.10	1.80	90.00	1.00	5.6	18.9
8.00	72.2	14.2	1.14	5.10	1.80	90.00	1.00	7.1	19.8
10.00	87.2	17.1	1.67	5.10	1.80	90.00	1.00	8.6	19.9
8.00	75.4	14.8	1.25	5.10	1.80	90.00	1.00	7.0	21.0
6.00	60.1	11.8	0.79	5.10	1.80	90.00	1.00	5.5	21.5
3.00	40.1	7.9	0.35	5.10	1.80	90.00	1.00	2.9	26.9
1.00	15.0	2.9	0.05	5.10	1.80	90.00	1.00	1.2	23.9

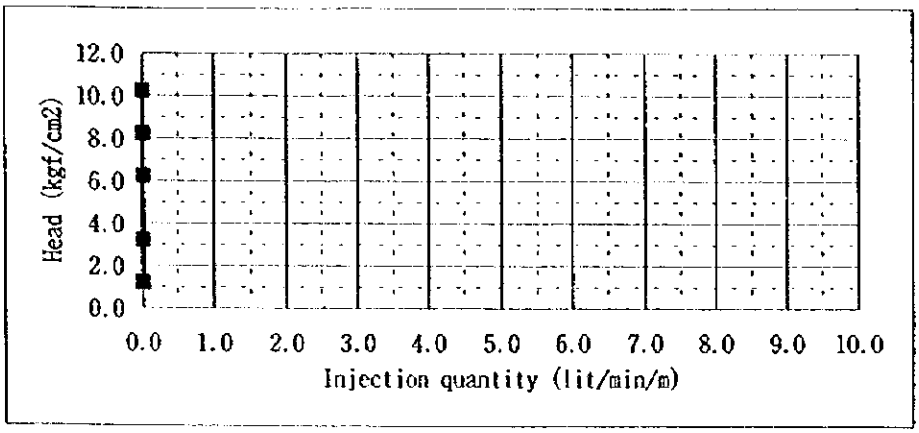


WATER PRESSURE TEST RECORD

Hole No. G95-8 7/9

Test section (m) 35.10 - 40.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.05	1.20	90.00	1.00	1.2	0.0
3.00	0.0	0.0	0.00	5.05	1.20	90.00	1.00	3.2	0.0
6.00	0.0	0.0	0.00	5.05	1.20	90.00	1.00	6.2	0.0
8.00	0.0	0.0	0.00	5.05	1.20	90.00	1.00	8.2	0.0
10.00	0.0	0.0	0.00	5.05	1.20	90.00	1.00	10.2	0.0

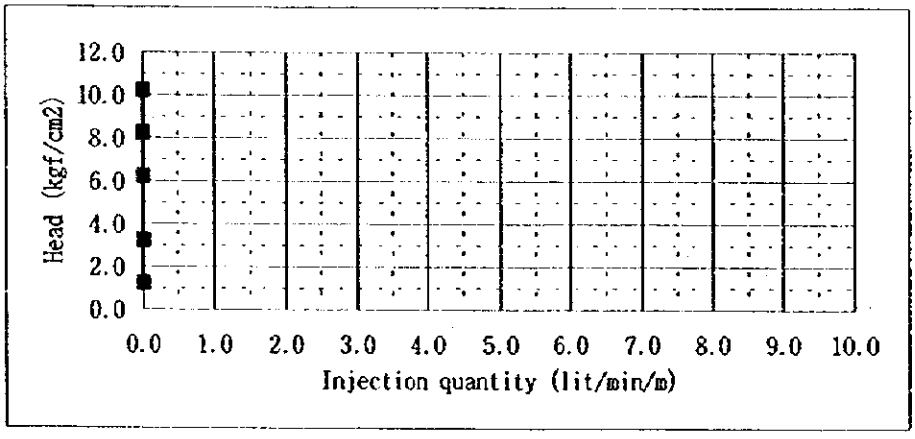


WATER PRESSURE TEST RECORD

Hole No. G95-8 8/9

Test section (m) 40.15 - 45.40

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.25	1.20	90.00	1.00	1.2	0.0
3.00	0.0	0.0	0.00	5.25	1.20	90.00	1.00	3.2	0.0
6.00	0.0	0.0	0.00	5.25	1.20	90.00	1.00	6.2	0.0
8.00	0.0	0.0	0.00	5.25	1.20	90.00	1.00	8.2	0.0
10.00	0.0	0.0	0.00	5.25	1.20	90.00	1.00	10.2	0.0

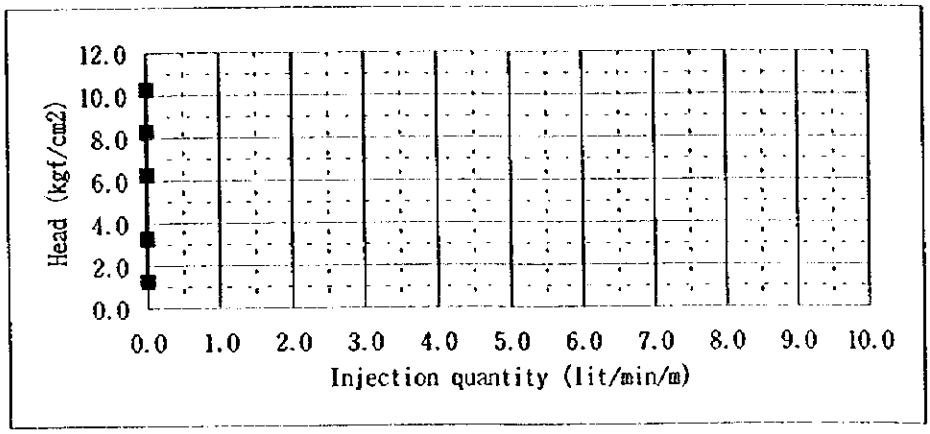


WATER PRESSURE TEST RECORD

Hole No. G95-8 9/9

Test section (m) 45.00 - 50.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	5.20	1.75	90.00	1.00	1.3	0.0
3.00	0.0	0.0	0.00	5.20	1.75	90.00	1.00	3.3	0.0
6.00	0.0	0.0	0.00	5.20	1.75	90.00	1.00	6.3	0.0
8.00	0.0	0.0	0.00	5.20	1.75	90.00	1.00	8.3	0.0
10.00	0.0	0.0	0.00	5.20	1.75	90.00	1.00	10.3	0.0



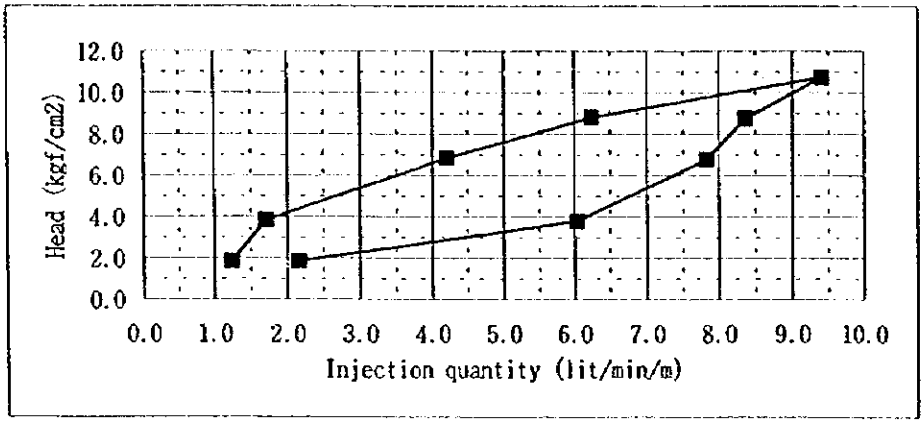
WATER PRESSURE TEST RECORD

Hole No. G95-9 1/4

Test section (m) 7.10 - 12.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	10.6	2.2	0.01	4.90	0.70	90.00	7.80	1.8	11.7
3.00	29.6	6.0	0.05	4.90	0.70	90.00	7.80	3.8	15.9
6.00	38.4	7.8	0.08	4.90	0.70	90.00	7.80	6.8	11.6
8.00	41.0	8.4	0.09	4.90	0.70	90.00	7.80	8.8	9.6
10.00	46.1	9.4	0.11	4.90	0.70	90.00	7.80	10.7	8.8
8.00	30.6	6.2	0.05	4.90	0.70	90.00	7.80	8.8	7.1
6.00	20.6	4.2	0.02	4.90	0.70	90.00	7.80	6.8	6.2
3.00	8.4	1.7	0.00	4.90	0.70	90.00	7.80	3.8	4.5
1.00	6.1	1.2	0.00	4.90	0.70	90.00	7.80	1.8	6.7

6.90E-05 : Constant number of rod friction loss for BW boring rod

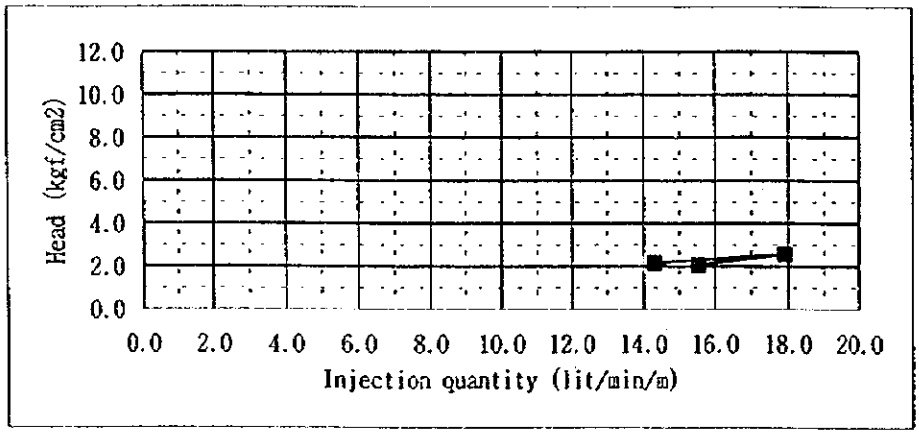


WATER PRESSURE TEST RECORD

Hole No. G95-9 2/4

Test section (m) 13.00 - 18.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	77.7	15.5	0.57	5.00	0.80	90.00	15.50	2.1	75.6
1.70	89.6	17.9	0.76	5.00	0.80	90.00	15.50	2.6	69.8
1.00	71.5	14.3	0.49	5.00	0.80	90.00	15.50	2.1	66.7

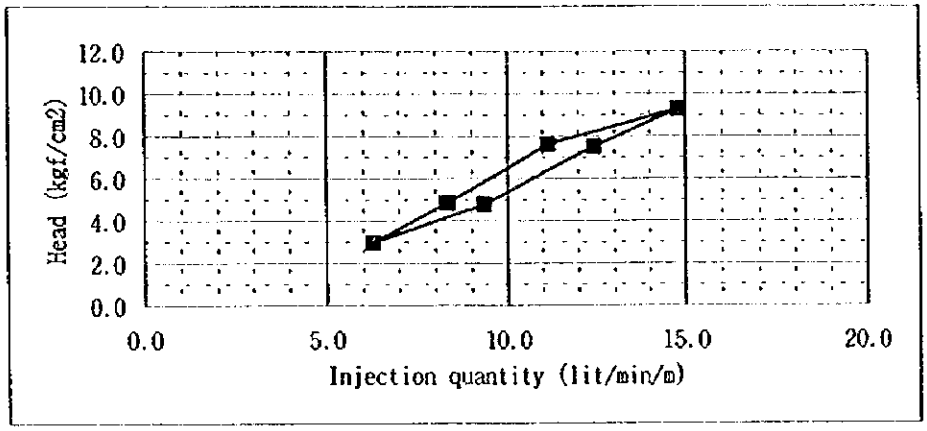


WATER PRESSURE TEST RECORD

Hole No. G95-9 3/4

Test section (m) 21.10 - 26.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	30.7	6.3	0.15	4.90	1.70	90.00	19.35	3.0	21.2
3.00	40.8	8.3	0.26	4.90	1.70	90.00	19.35	4.8	17.2
6.00	54.7	11.2	0.47	4.90	1.70	90.00	19.35	7.6	14.6
8.00	72.6	14.8	0.83	4.90	1.70	90.00	19.35	9.3	16.0
6.00	60.9	12.4	0.58	4.90	1.70	90.00	19.35	7.5	16.5
3.00	45.8	9.3	0.33	4.90	1.70	90.00	19.35	4.8	19.6
1.00	30.7	6.3	0.15	4.90	1.70	90.00	19.35	3.0	21.2

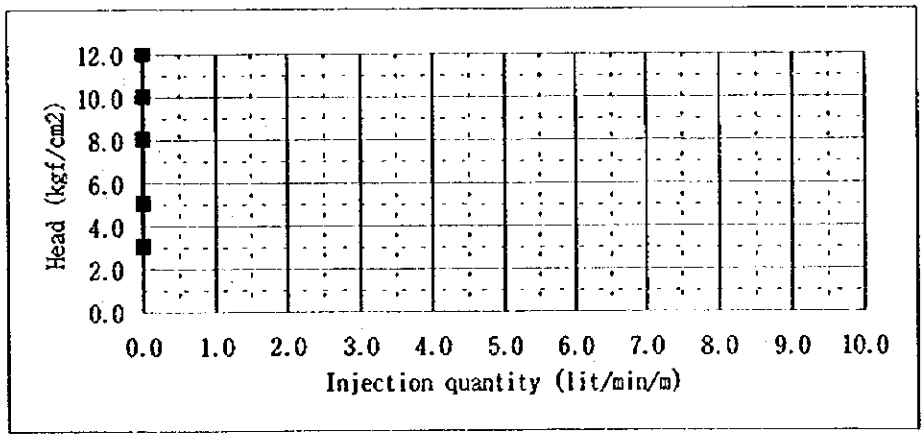


WATER PRESSURE TEST RECORD

Hole No. G95-9 4/4

Test section (m) 26.00 - 30.15

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.15	1.30	90.00	19.20	3.1	0.0
3.00	0.0	0.0	0.00	4.15	1.30	90.00	19.20	5.1	0.0
6.00	0.0	0.0	0.00	4.15	1.30	90.00	19.20	8.1	0.0
8.00	0.0	0.0	0.00	4.15	1.30	90.00	19.20	10.1	0.0
10.00	0.0	0.0	0.00	4.15	1.30	90.00	19.20	12.1	0.0



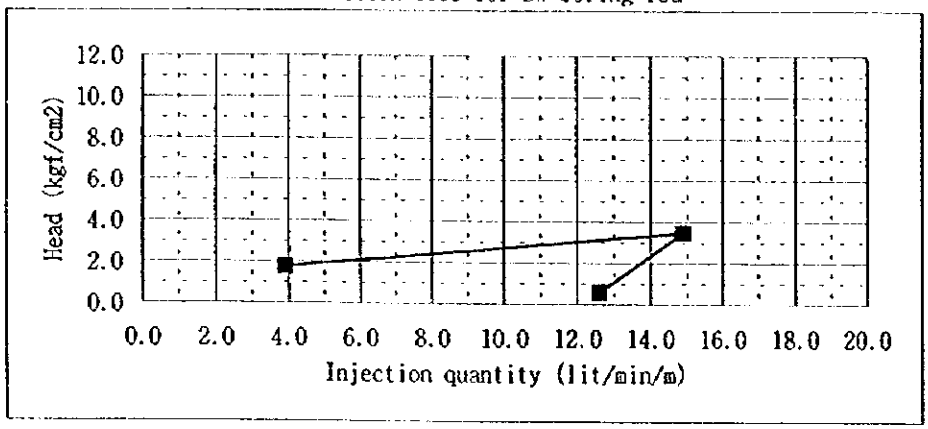
WATER PRESSURE TEST RECORD

Hole No. C95-10 1/4

Test section (m) 6.00 - 11.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	19.5	3.9	0.02	5.00	1.80	90.00	5.95	1.8	22.2
3.00	74.5	14.9	0.30	5.00	1.80	90.00	5.95	3.5	42.9
0.00	63.0	12.6	0.21	5.00	1.80	90.00	5.95	0.6	224.4

6.90E-05 : Constant number of rod friction loss for BW boring rod

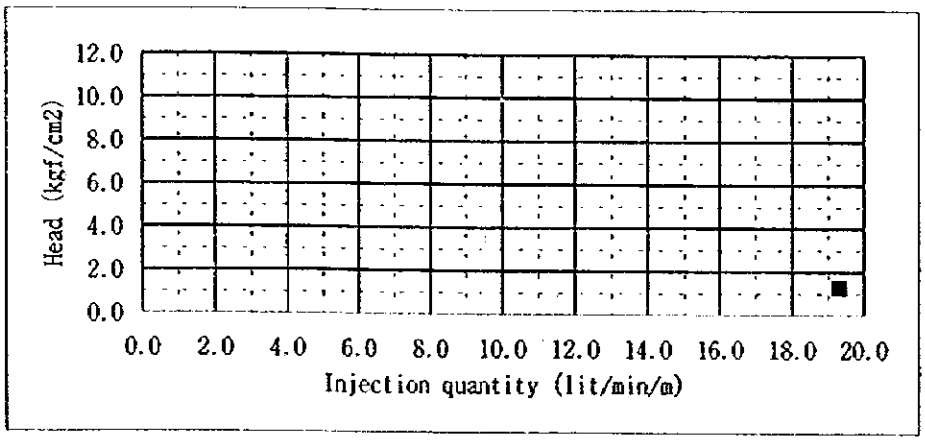


WATER PRESSURE TEST RECORD

Hole No. C95-10 2/4

Test section (m) 13.10 - 18.10

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
0.75	96.6	19.3	0.89	5.00	0.70	90.00	13.40	1.3	152.0

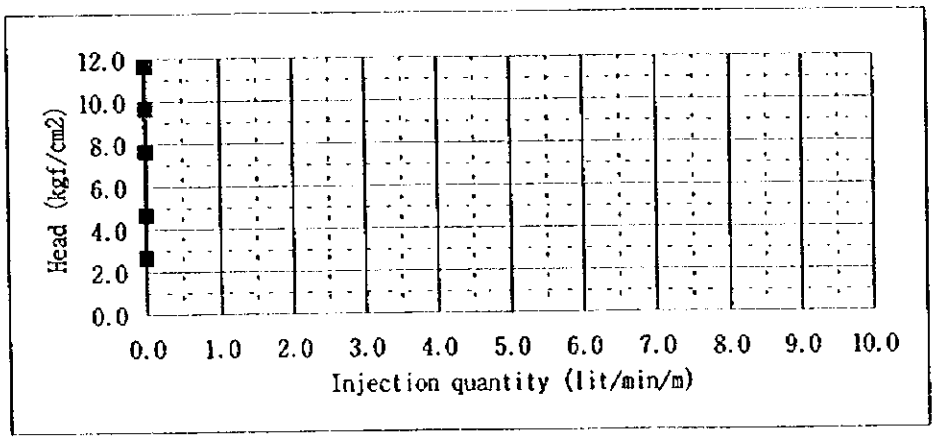


WATER PRESSURE TEST RECORD

Hole No. C95-10 3/4

Test section (m) 18.10 - 23.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.90	1.70	90.00	14.80	2.7	0.0
3.00	0.0	0.0	0.00	4.90	1.70	90.00	14.80	4.7	0.0
6.00	0.0	0.0	0.00	4.90	1.70	90.00	14.80	7.7	0.0
8.00	0.0	0.0	0.00	4.90	1.70	90.00	14.80	9.7	0.0
10.00	0.0	0.0	0.00	4.90	1.70	90.00	14.80	11.7	0.0

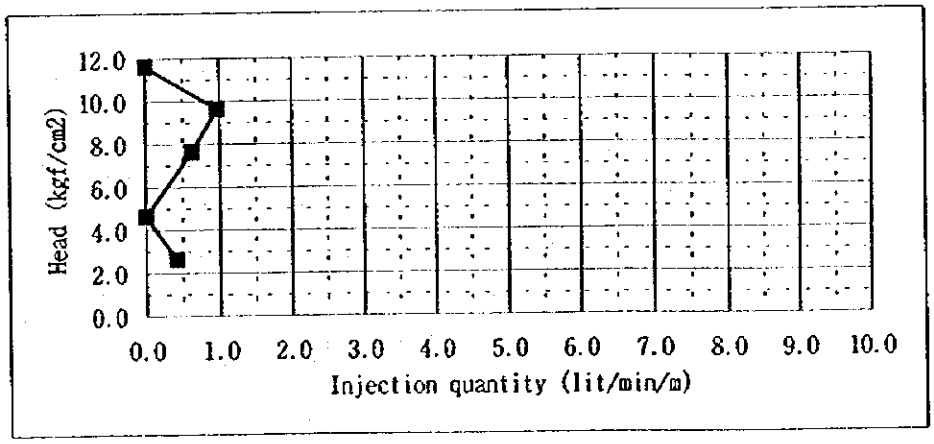


WATER PRESSURE TEST RECORD

Hole No. C95-10 4/4

Test section (m) 23.00 - 30.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	3.0	0.4	0.00	7.20	1.30	90.00	15.00	2.6	1.6
3.00	0.0	0.0	0.00	7.20	1.30	90.00	15.00	4.6	0.0
6.00	4.5	0.6	0.00	7.20	1.30	90.00	15.00	7.6	0.8
8.00	7.0	1.0	0.01	7.20	1.30	90.00	15.00	9.6	1.0
10.00	0.0	0.0	0.00	7.20	1.30	90.00	15.00	11.6	0.0



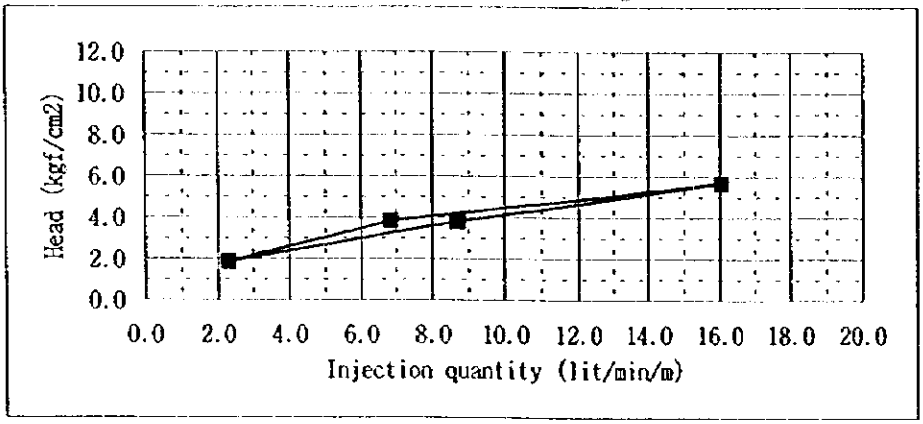
WATER PRESSURE TEST RECORD

Hole No. C95-11 1/5

Test section (m) 5.00 - 9.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	9.2	2.3	0.00	4.00	1.30	90.00	7.25	1.9	12.4
3.00	27.4	6.9	0.03	4.00	1.30	90.00	7.25	3.8	17.9
5.00	64.2	16.1	0.18	4.00	1.30	90.00	7.25	5.7	28.3
3.00	34.8	8.7	0.05	4.00	1.30	90.00	7.25	3.8	22.9
1.00	9.2	2.3	0.00	4.00	1.30	90.00	7.25	1.9	12.4

6.90E-05 : Constant number of rod friction loss for BW boring rod

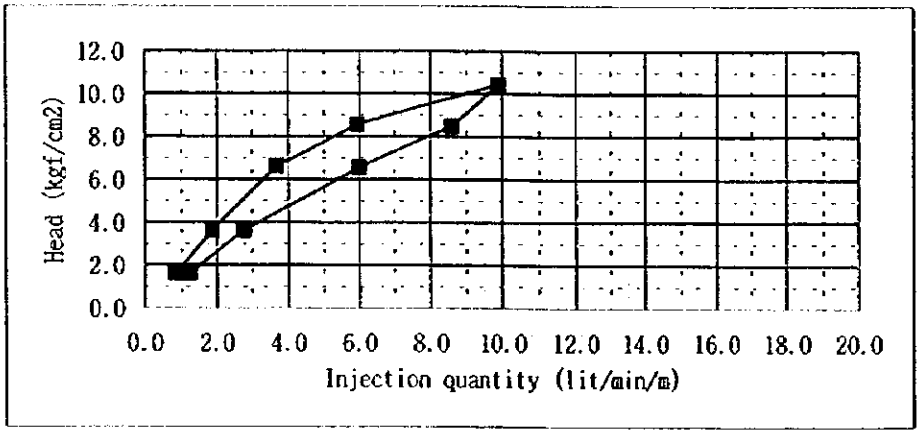


WATER PRESSURE TEST RECORD

Hole No. C95-11 2/5

Test section (m) 9.00 - 14.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	6.1	1.2	0.00	5.00	1.80	90.00	4.45	1.6	7.5
3.00	13.8	2.8	0.01	5.00	1.80	90.00	4.45	3.6	7.6
6.00	30.0	6.0	0.07	5.00	1.80	90.00	4.45	6.6	9.1
8.00	43.0	8.6	0.14	5.00	1.80	90.00	4.45	8.5	10.1
10.00	49.5	9.9	0.18	5.00	1.80	90.00	4.45	10.4	9.5
8.00	29.7	5.9	0.07	5.00	1.80	90.00	4.45	8.6	6.9
6.00	18.4	3.7	0.03	5.00	1.80	90.00	4.45	6.6	5.6
3.00	9.3	1.9	0.01	5.00	1.80	90.00	4.45	3.6	5.1
1.00	4.2	0.8	0.00	5.00	1.80	90.00	4.45	1.6	5.2

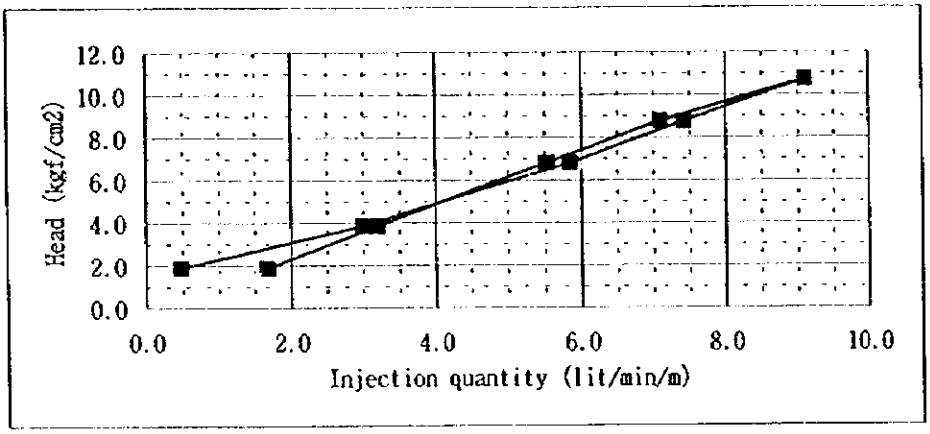


WATER PRESSURE TEST RECORD

Hole No. G95-11 3/5

Test section (m) 14.00 - 18.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.9	0.5	0.00	4.00	1.30	90.00	7.40	1.9	2.5
3.00	12.0	3.0	0.02	4.00	1.30	90.00	7.40	3.9	7.8
6.00	23.4	5.9	0.06	4.00	1.30	90.00	7.40	6.8	8.6
8.00	29.7	7.4	0.09	4.00	1.30	90.00	7.40	8.8	8.5
10.00	36.4	9.1	0.14	4.00	1.30	90.00	7.40	10.7	8.5
8.00	28.4	7.1	0.09	4.00	1.30	90.00	7.40	8.8	8.1
6.00	22.1	5.5	0.05	4.00	1.30	90.00	7.40	6.8	8.1
3.00	12.8	3.2	0.02	4.00	1.30	90.00	7.40	3.9	8.3
1.00	6.7	1.7	0.00	4.00	1.30	90.00	7.40	1.9	9.0

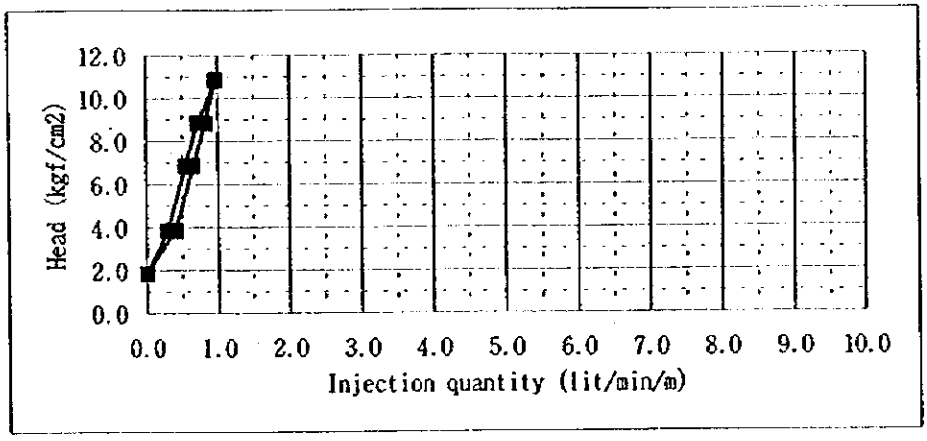


WATER PRESSURE TEST RECORD

Hole No. G95-11 4/5

Test section (m) 19.00 - 23.75

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.75	0.80	90.00	7.50	1.8	0.0
3.00	1.4	0.3	0.00	4.75	0.80	90.00	7.50	3.8	0.8
6.00	2.6	0.5	0.00	4.75	0.80	90.00	7.50	6.8	0.8
8.00	3.4	0.7	0.00	4.75	0.80	90.00	7.50	8.8	0.8
10.00	4.6	1.0	0.00	4.75	0.80	90.00	7.50	10.8	0.9
8.00	3.9	0.8	0.00	4.75	0.80	90.00	7.50	8.8	0.9
6.00	3.1	0.7	0.00	4.75	0.80	90.00	7.50	6.8	1.0
3.00	1.9	0.4	0.00	4.75	0.80	90.00	7.50	3.8	1.0
1.00	0.0	0.0	0.00	4.75	0.80	90.00	7.50	1.8	0.0

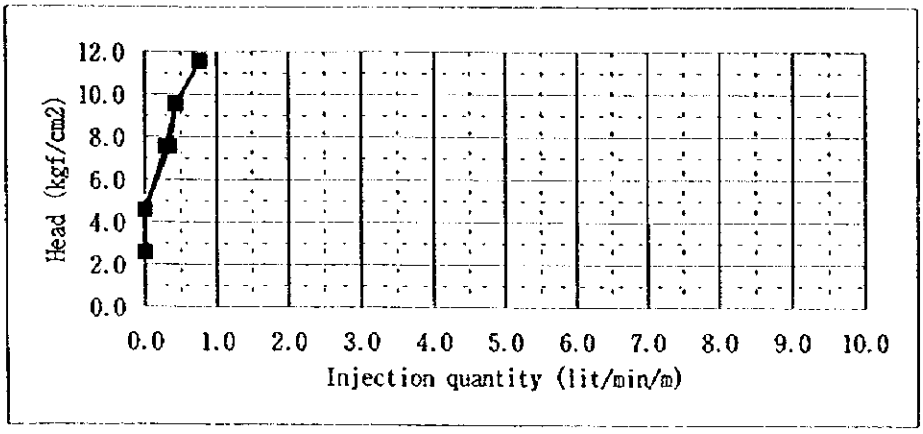


WATER PRESSURE TEST RECORD

Hole No. G95-11 5/5

Test section (m) 23.75 - 30.25

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	6.50	0.55	90.00	14.95	2.6	0.0
3.00	0.0	0.0	0.00	6.50	0.55	90.00	14.95	4.6	0.0
6.00	2.3	0.4	0.00	6.50	0.55	90.00	14.95	7.5	0.5
8.00	2.8	0.4	0.00	6.50	0.55	90.00	14.95	9.5	0.5
10.00	5.0	0.8	0.00	6.50	0.55	90.00	14.95	11.5	0.7
8.00	2.8	0.4	0.00	6.50	0.55	90.00	14.95	9.5	0.5
6.00	1.9	0.3	0.00	6.50	0.55	90.00	14.95	7.5	0.4
3.00	0.0	0.0	0.00	6.50	0.55	90.00	14.95	4.6	0.0
1.00	0.0	0.0	0.00	6.50	0.55	90.00	14.95	2.6	0.0



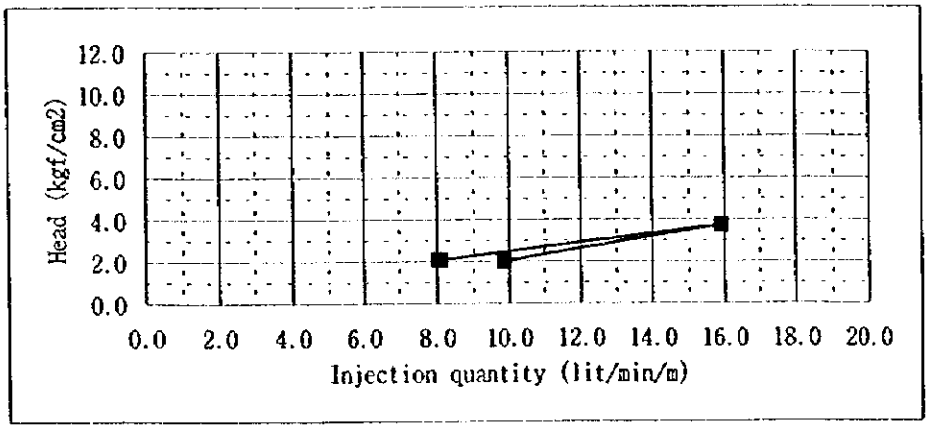
WATER PRESSURE TEST RECORD

Hole No. G95-12 1/4

Test section (m) 8.50 - 13.85

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	52.8	9.9	0.18	5.35	0.80	90.00	11.18	2.0	48.9
3.00	85.1	15.9	0.46	5.35	0.80	90.00	11.18	3.7	42.6
1.00	43.2	8.1	0.12	5.35	0.80	90.00	11.18	2.1	38.9

6.90E-05 : Constant number of rod friction loss for BW boring rod

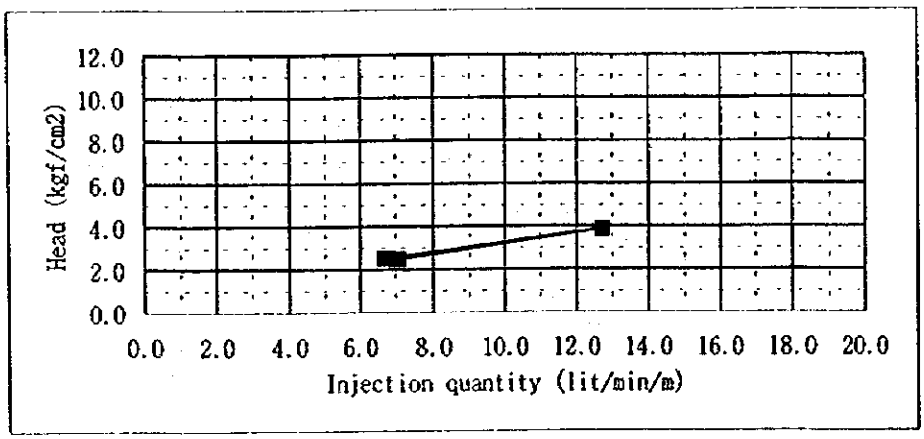


WATER PRESSURE TEST RECORD

Hole No. G95-12 2/4

Test section (m) 13.85 - 19.75

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	41.8	7.1	0.18	5.90	1.45	90.00	15.20	2.5	28.6
2.80	75.1	12.7	0.60	5.90	1.45	90.00	15.20	3.9	32.9
1.00	39.5	6.7	0.16	5.90	1.45	90.00	15.20	2.5	26.8

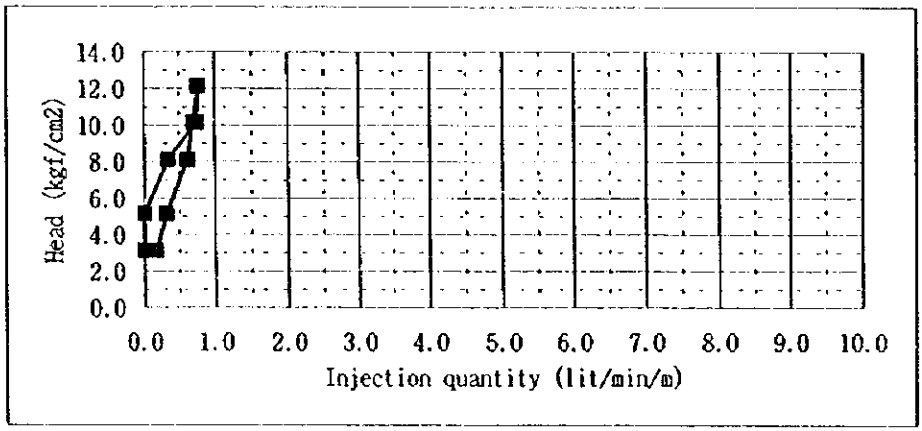


WATER PRESSURE TEST RECORD

Hole No. G95-12 3/4

Test section (m) 19.75 - 24.45

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.70	1.55	90.00	19.75	3.1	0.0
3.00	0.0	0.0	0.00	4.70	1.55	90.00	19.75	5.1	0.0
6.00	1.6	0.3	0.00	4.70	1.55	90.00	19.75	8.1	0.4
8.00	3.5	0.7	0.00	4.70	1.55	90.00	19.75	10.1	0.7
10.00	3.6	0.8	0.00	4.70	1.55	90.00	19.75	12.1	0.6
8.00	3.3	0.7	0.00	4.70	1.55	90.00	19.75	10.1	0.7
6.00	2.9	0.6	0.00	4.70	1.55	90.00	19.75	8.1	0.8
3.00	1.5	0.3	0.00	4.70	1.55	90.00	19.75	5.1	0.6
1.00	0.8	0.2	0.00	4.70	1.55	90.00	19.75	3.1	0.5

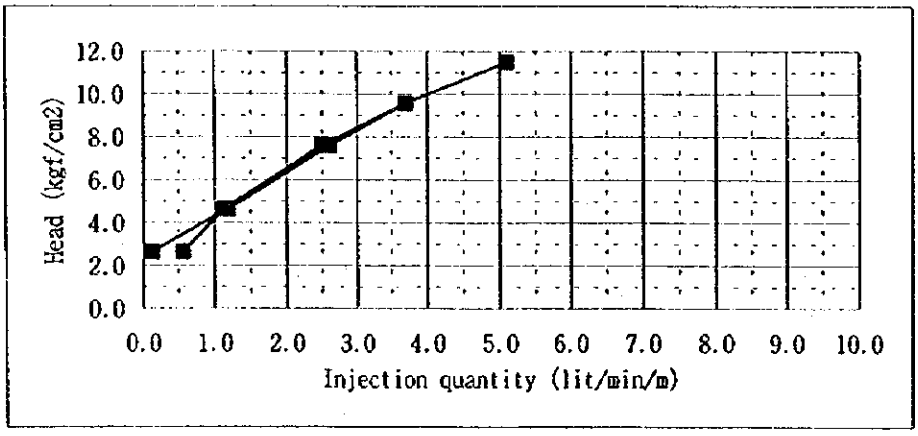


WATER PRESSURE TEST RECORD

Hole No. G95-12 4/4

Test section (m) 24.45 - 30.10

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	3.2	0.6	0.00	5.65	0.85	90.00	15.40	2.6	2.2
3.00	6.4	1.1	0.01	5.65	0.85	90.00	15.40	4.6	2.5
6.00	14.1	2.5	0.03	5.65	0.85	90.00	15.40	7.6	3.3
8.00	20.9	3.7	0.08	5.65	0.85	90.00	15.40	9.5	3.9
10.00	28.8	5.1	0.14	5.65	0.85	90.00	15.40	11.5	4.4
8.00	20.9	3.7	0.08	5.65	0.85	90.00	15.40	9.5	3.9
6.00	14.7	2.6	0.04	5.65	0.85	90.00	15.40	7.6	3.4
3.00	6.7	1.2	0.01	5.65	0.85	90.00	15.40	4.6	2.6
1.00	0.7	0.1	0.00	5.65	0.85	90.00	15.40	2.6	0.5



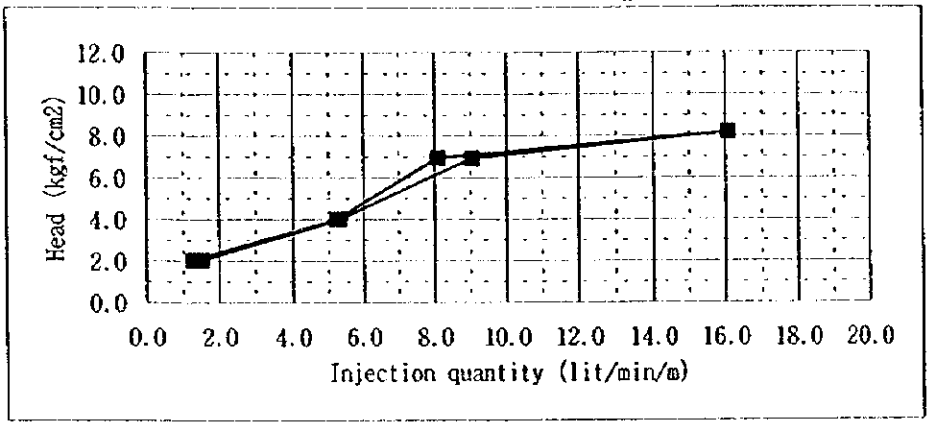
WATER PRESSURE TEST RECORD

Hole No. G95-13 1/4

Test section (m) 7.20 - 12.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	7.6	1.5	0.00	5.00	0.60	90.00	9.70	2.0	7.5
3.00	26.6	5.3	0.01	5.00	0.60	90.00	9.70	4.0	13.3
6.00	45.2	9.0	0.11	5.00	0.60	90.00	9.70	6.9	13.1
7.50	80.4	16.1	0.35	5.00	0.60	90.00	9.70	8.2	19.7
6.00	40.5	8.1	0.09	5.00	0.60	90.00	9.70	6.9	11.7
3.00	26.1	5.2	0.01	5.00	0.60	90.00	9.70	4.0	13.1
1.00	6.3	1.3	0.00	5.00	0.60	90.00	9.70	2.0	6.2

6.90E-05 : Constant number of rod friction loss for BW boring rod

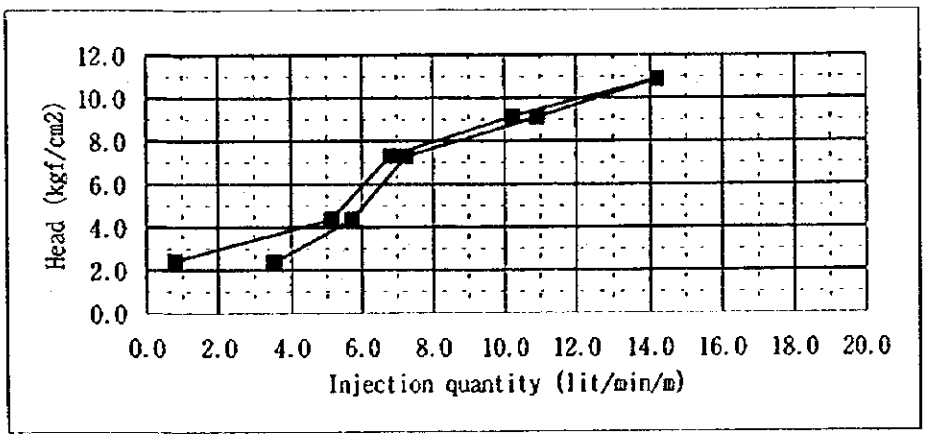


WATER PRESSURE TEST RECORD

Hole No. G95-13 2/4

Test section (m) 12.20 - 17.50

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	4.2	0.8	0.00	5.30	1.65	90.00	12.60	2.4	3.3
3.00	27.2	5.1	0.07	5.30	1.65	90.00	12.60	4.4	11.8
6.00	36.1	6.8	0.12	5.30	1.65	90.00	12.60	7.3	9.3
8.00	54.2	10.2	0.28	5.30	1.65	90.00	12.60	9.1	11.2
10.00	75.3	14.2	0.54	5.30	1.65	90.00	12.60	10.9	13.1
8.00	57.9	10.9	0.32	5.30	1.65	90.00	12.60	9.1	12.0
6.00	38.5	7.3	0.14	5.30	1.65	90.00	12.60	7.3	10.0
3.00	30.3	5.7	0.09	5.30	1.65	90.00	12.60	4.3	13.2
1.00	18.7	3.5	0.03	5.30	1.65	90.00	12.60	2.4	14.8

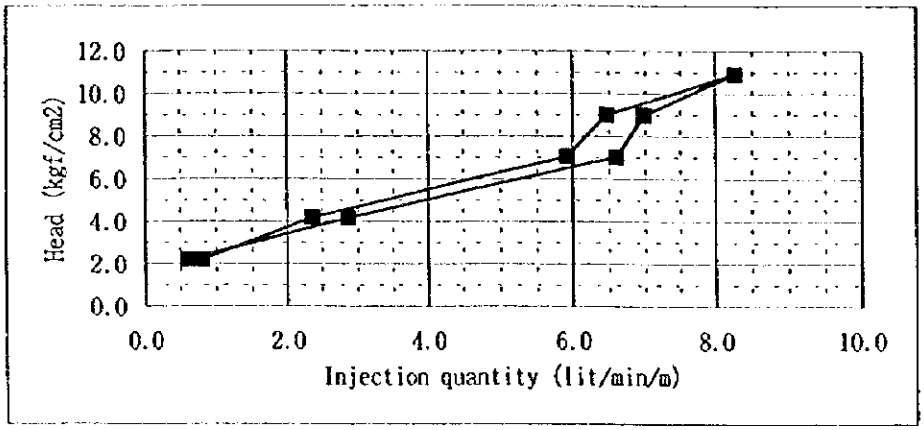


WATER PRESSURE TEST RECORD

Hole No. G95-13 3/4

Test section (m) 19.20 - 24.70

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	3.3	0.6	0.00	5.50	0.60	90.00	11.35	2.2	2.7
3.00	15.8	2.9	0.03	5.50	0.60	90.00	11.35	4.2	6.9
6.00	36.3	6.6	0.18	5.50	0.60	90.00	11.35	7.0	9.4
8.00	38.4	7.0	0.20	5.50	0.60	90.00	11.35	9.0	7.8
10.00	45.5	8.3	0.28	5.50	0.60	90.00	11.35	10.9	7.6
8.00	35.6	6.5	0.17	5.50	0.60	90.00	11.35	9.0	7.2
6.00	32.6	5.9	0.15	5.50	0.60	90.00	11.35	7.0	8.4
3.00	13.0	2.4	0.02	5.50	0.60	90.00	11.35	4.2	5.7
1.00	4.4	0.8	0.00	5.50	0.60	90.00	11.35	2.2	3.6

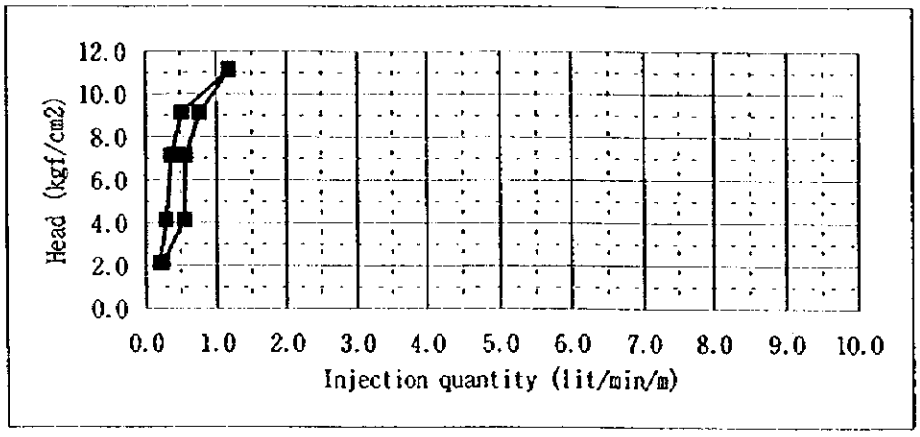


WATER PRESSURE TEST RECORD

Hole No. G95-13 4/4

Test section (m) 24.70 - 30.10

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	1.3	0.2	0.00	5.40	1.00	90.00	10.20	2.1	1.1
3.00	3.0	0.6	0.00	5.40	1.00	90.00	10.20	4.1	1.3
6.00	3.1	0.6	0.00	5.40	1.00	90.00	10.20	7.1	0.8
8.00	4.2	0.8	0.00	5.40	1.00	90.00	10.20	9.1	0.9
10.00	6.4	1.2	0.01	5.40	1.00	90.00	10.20	11.1	1.1
8.00	2.8	0.5	0.00	5.40	1.00	90.00	10.20	9.1	0.6
6.00	2.0	0.4	0.00	5.40	1.00	90.00	10.20	7.1	0.5
3.00	1.6	0.3	0.00	5.40	1.00	90.00	10.20	4.1	0.7
1.00	1.1	0.2	0.00	5.40	1.00	90.00	10.20	2.1	1.0



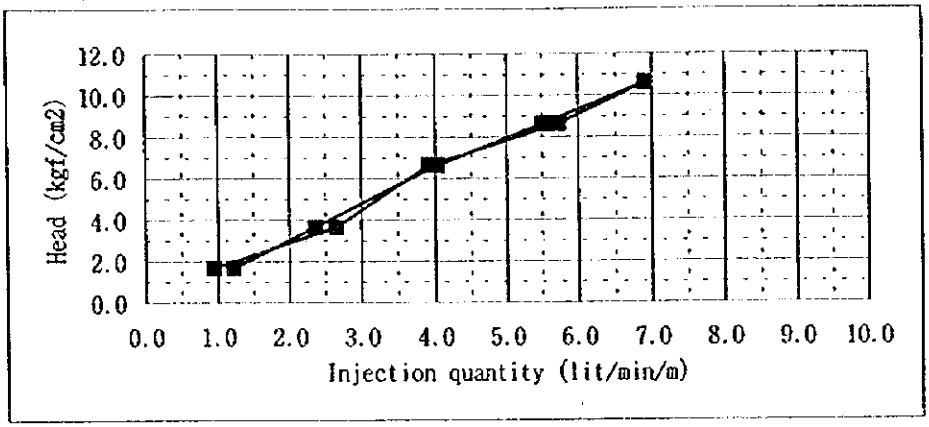
WATER PRESSURE TEST RECORD

Hole No. G95-14 1/9

Test section (m) 5.70 - 11.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	5.2	0.9	0.00	5.50	0.60	90.00	6.00	1.7	5.7
3.00	14.6	2.7	0.01	5.50	0.60	90.00	6.00	3.7	7.3
6.00	21.6	3.9	0.02	5.50	0.60	90.00	6.00	6.6	5.9
8.00	31.5	5.7	0.04	5.50	0.60	90.00	6.00	8.6	6.6
10.00	38.0	6.9	0.06	5.50	0.60	90.00	6.00	10.6	6.5
8.00	30.3	5.5	0.04	5.50	0.60	90.00	6.00	8.6	6.4
6.00	22.2	4.0	0.02	5.50	0.60	90.00	6.00	6.6	6.1
3.00	13.0	2.4	0.01	5.50	0.60	90.00	6.00	3.7	6.5
1.00	6.7	1.2	0.00	5.50	0.60	90.00	6.00	1.7	7.3

6.90E-05 : Constant number of rod friction loss for BW boring rod

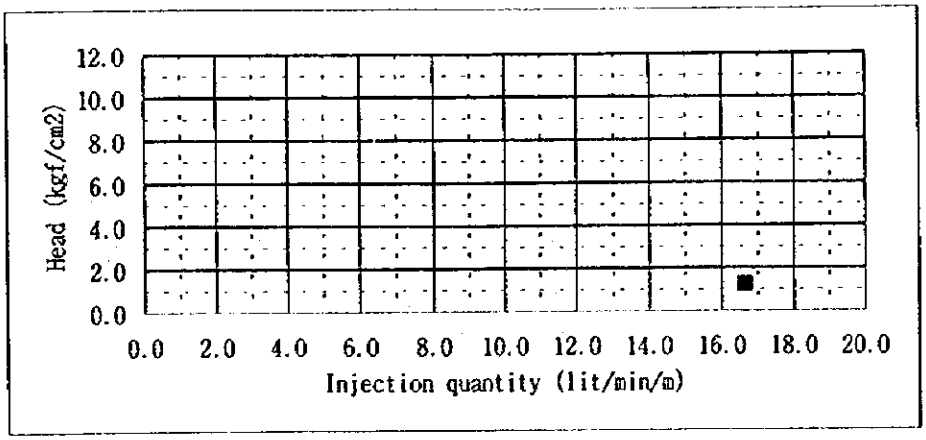


WATER PRESSURE TEST RECORD

Hole No. G95-14 2/9

Test section (m) 11.20 - 16.90

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
0.50	94.9	16.6	0.76	5.70	1.10	90.00	14.05	1.3	133.1

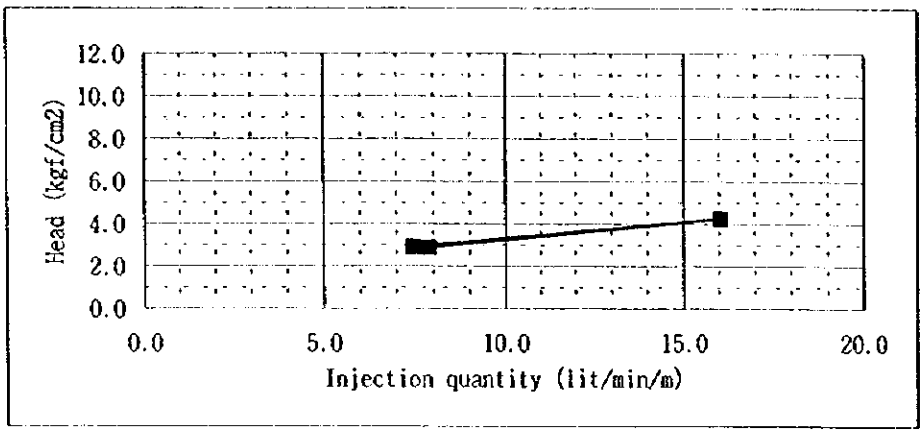


WATER PRESSURE TEST RECORD

Hole No. C95-14 3/9

Test section (m) 16.90 - 22.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	38.0	7.5	0.18	5.10	1.40	90.00	19.45	2.9	25.7
3.00	81.8	16.0	0.84	5.10	1.40	90.00	19.45	4.2	37.8
1.00	40.2	7.9	0.20	5.10	1.40	90.00	19.45	2.9	27.4

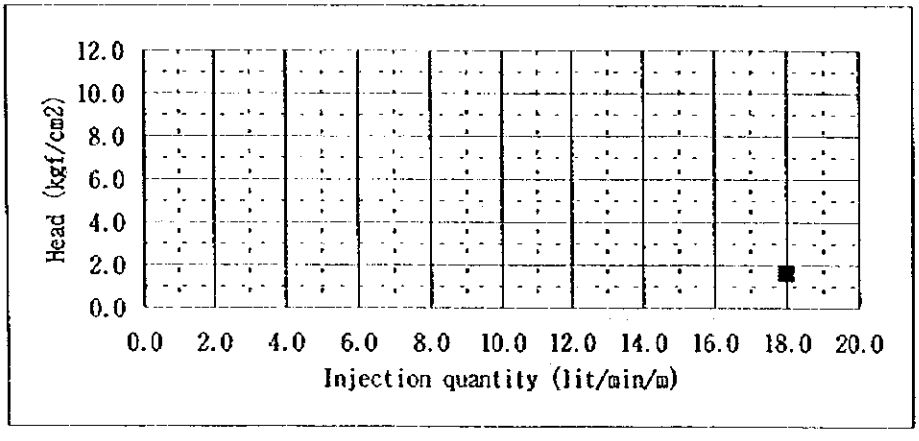


WATER PRESSURE TEST RECORD

Hole No. C95-14 4/9

Test section (m) 22.00 - 27.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
0.50	89.9	18.0	1.27	5.00	0.80	90.00	23.00	1.6	111.8

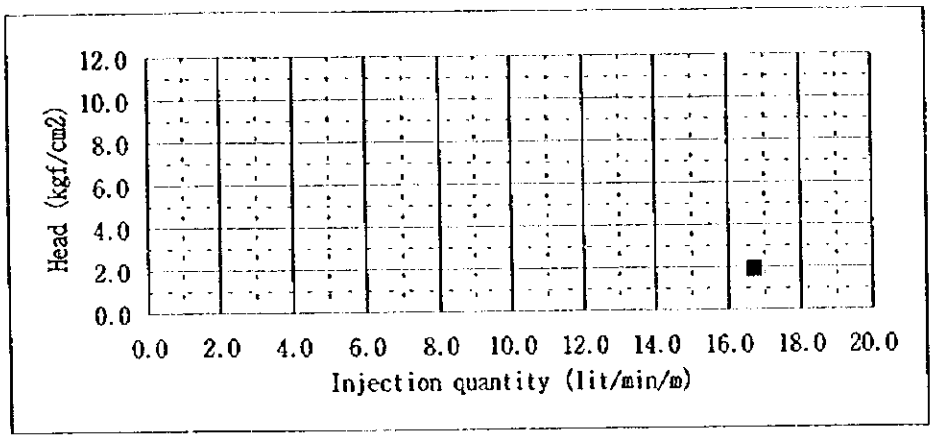


WATER PRESSURE TEST RECORD

Hole No. G95-14 5/9

Test section (m) 27.00 - 32.30

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
0.40	88.6	16.7	1.48	5.30	0.30	90.00	29.55	1.9	87.7

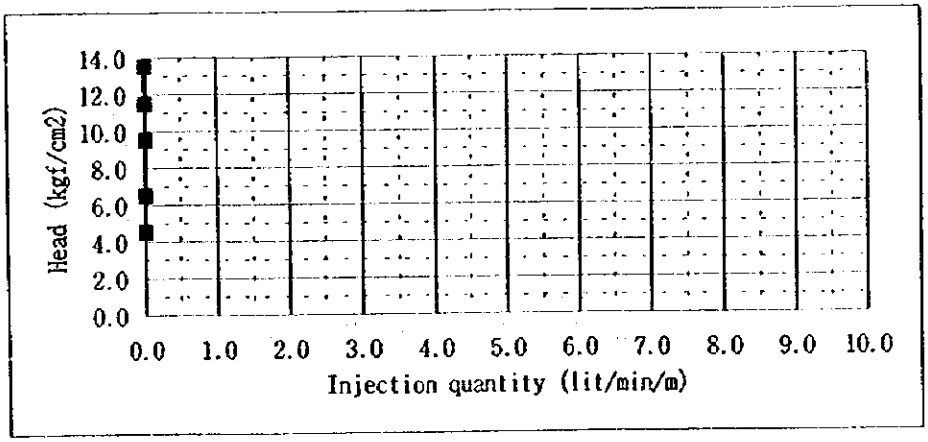


WATER PRESSURE TEST RECORD

Hole No. G95-14 6/9

Test section (m) 32.00 - 36.75

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	Injection quantity (l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w.level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.75	1.30	90.00	33.75	4.5	0.0
3.00	0.0	0.0	0.00	4.75	1.30	90.00	33.75	6.5	0.0
6.00	0.0	0.0	0.00	4.75	1.30	90.00	33.75	9.5	0.0
8.00	0.0	0.0	0.00	4.75	1.30	90.00	33.75	11.5	0.0
10.00	0.0	0.0	0.00	4.75	1.30	90.00	33.75	13.5	0.0

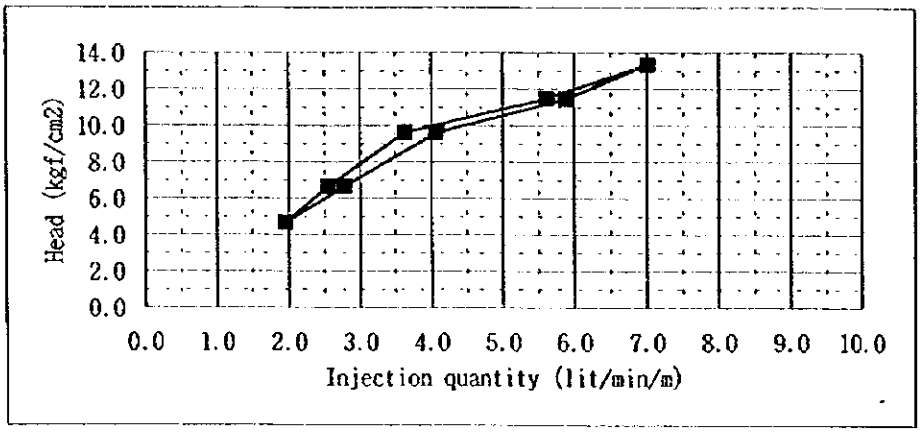


WATER PRESSURE TEST RECORD

Hole No. C95-14 7/9

Test section (m) 36.75 - 42.00

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	10.3	2.0	0.03	5.25	1.05	90.00	36.00	4.7	4.2
3.00	13.4	2.6	0.05	5.25	1.05	90.00	36.00	6.7	3.8
6.00	19.1	3.6	0.10	5.25	1.05	90.00	36.00	9.6	3.8
8.00	29.5	5.6	0.23	5.25	1.05	90.00	36.00	11.5	4.9
10.00	36.8	7.0	0.35	5.25	1.05	90.00	36.00	13.4	5.2
8.00	30.9	5.9	0.25	5.25	1.05	90.00	36.00	11.5	5.1
6.00	21.4	4.1	0.12	5.25	1.05	90.00	36.00	9.6	4.3
3.00	14.6	2.8	0.06	5.25	1.05	90.00	36.00	6.6	4.2
1.00	10.3	2.0	0.03	5.25	1.05	90.00	36.00	4.7	4.2

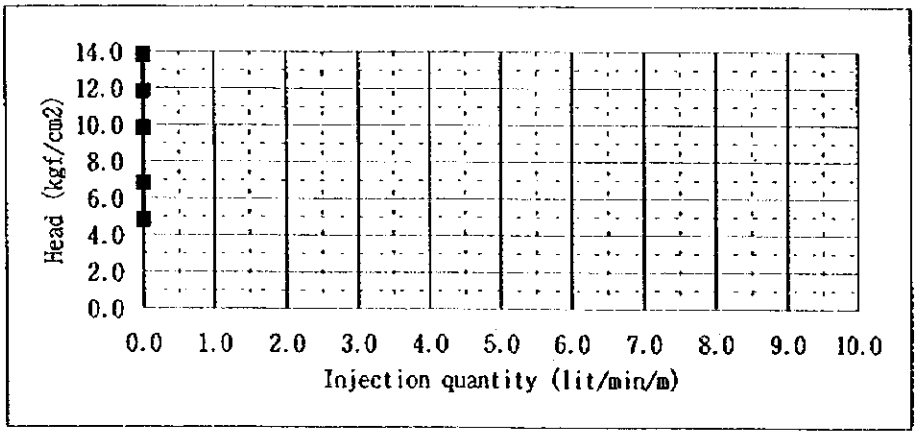


WATER PRESSURE TEST RECORD

Hole No. C95-14 8/9

Test section (m) 42.00 - 45.75

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	3.75	0.30	90.00	37.85	4.8	0.0
3.00	0.0	0.0	0.00	3.75	0.30	90.00	37.85	6.8	0.0
6.00	0.0	0.0	0.00	3.75	0.30	90.00	37.85	9.8	0.0
8.00	0.0	0.0	0.00	3.75	0.30	90.00	37.85	11.8	0.0
10.00	0.0	0.0	0.00	3.75	0.30	90.00	37.85	13.8	0.0



WATER PRESSURE TEST RECORD

Hole No. G95-14 9/9

Test section (m) 45.75 - 50.20

Gauge pressure (kgf/cm2)	Injection quantity (lit/min)	(l/min/m)	Friction head loss (kgf/cm2)	Test sect.L (m)	Gauge height (m)	Hole angle (deg.)	Ground w. level (m)	Total head (kg/cm2)	Lugeon unit
1.00	0.0	0.0	0.00	4.45	0.95	90.00	38.50	4.9	0.0
3.00	0.0	0.0	0.00	4.45	0.95	90.00	38.50	6.9	0.0
6.00	0.0	0.0	0.00	4.45	0.95	90.00	38.50	9.9	0.0
8.00	0.0	0.0	0.00	4.45	0.95	90.00	38.50	11.9	0.0
10.00	0.0	0.0	0.00	4.45	0.95	90.00	38.50	13.9	0.0