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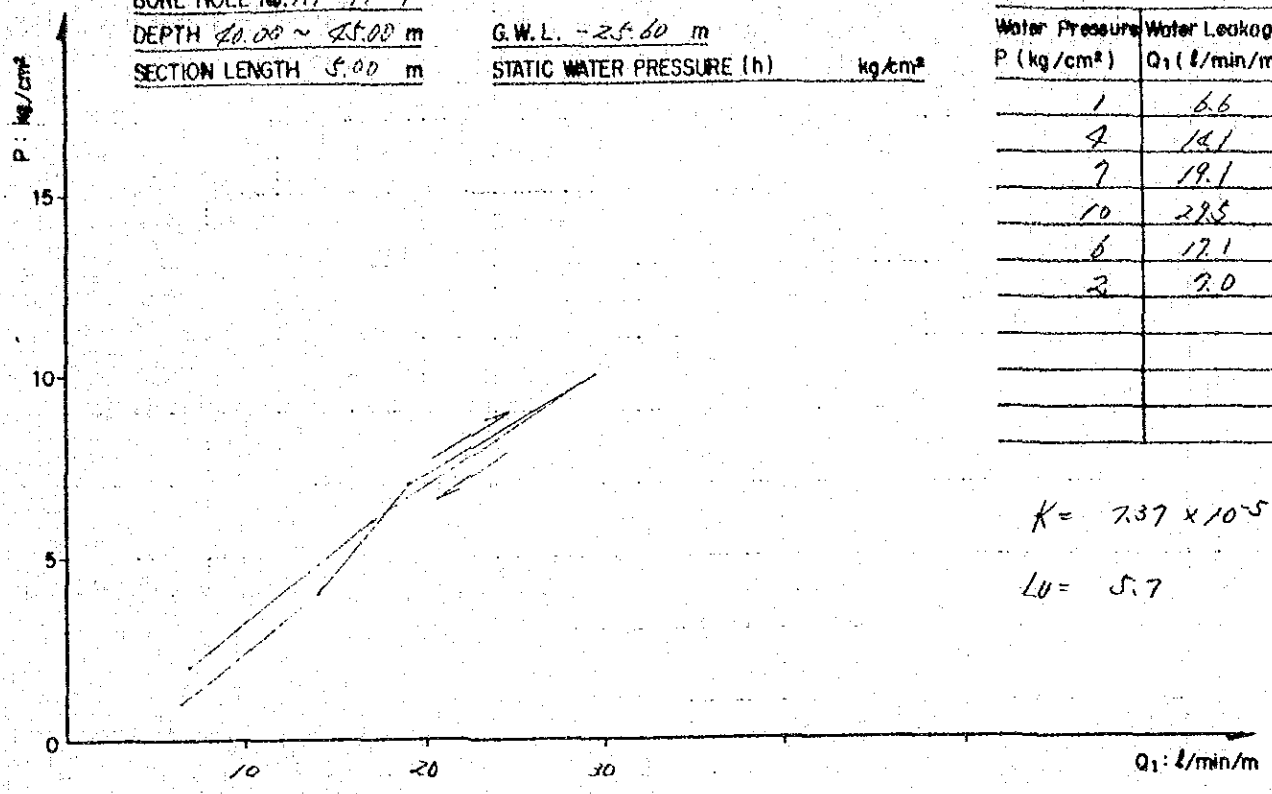
WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-79-1
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. -25.60 m
STATIC WATER PRESSURE (h) kg/cm²

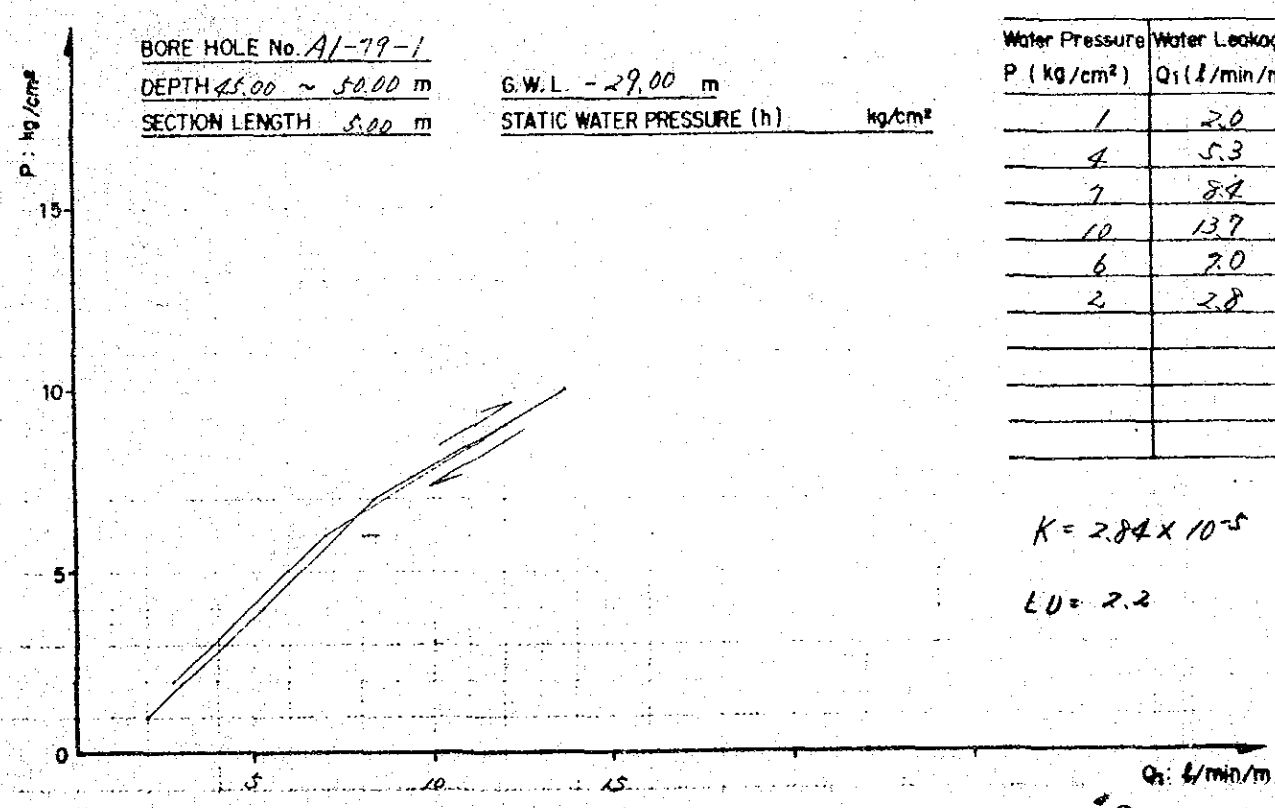


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	6.6
4	14.1
7	19.1
10	28.5
6	17.1
2	9.0

K = 7.37 × 10⁻⁵

Lu = 5.7

BORE HOLE No. A1-79-1
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH 5.00 m
G.W.L. -29.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	2.0
4	5.3
7	8.4
10	13.7
6	7.0
2	2.8

K = 2.84 × 10⁻⁵

Lu = 2.2

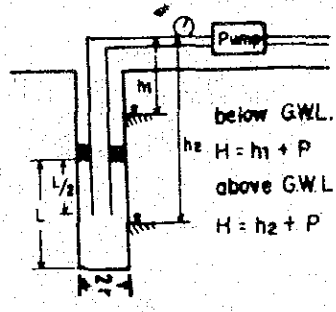
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

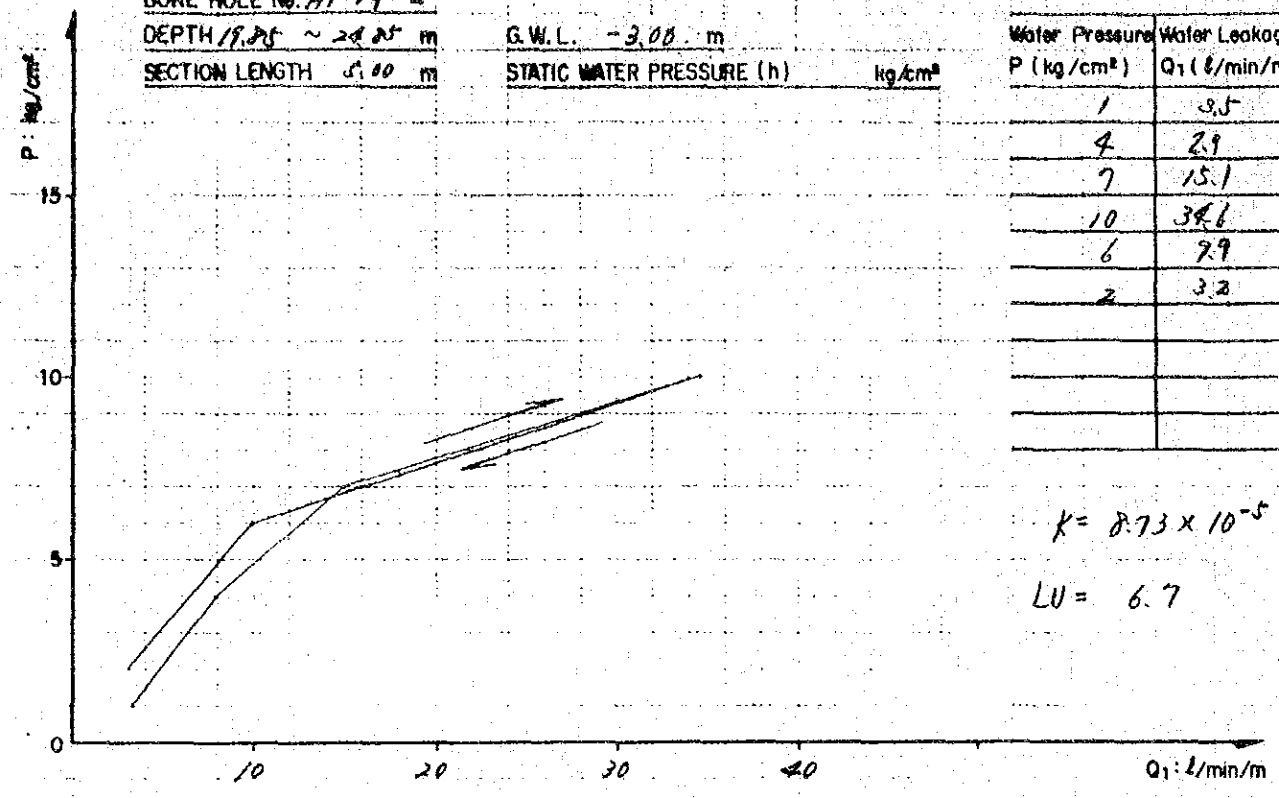
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-2
DEPTH 19.85 ~ 24.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

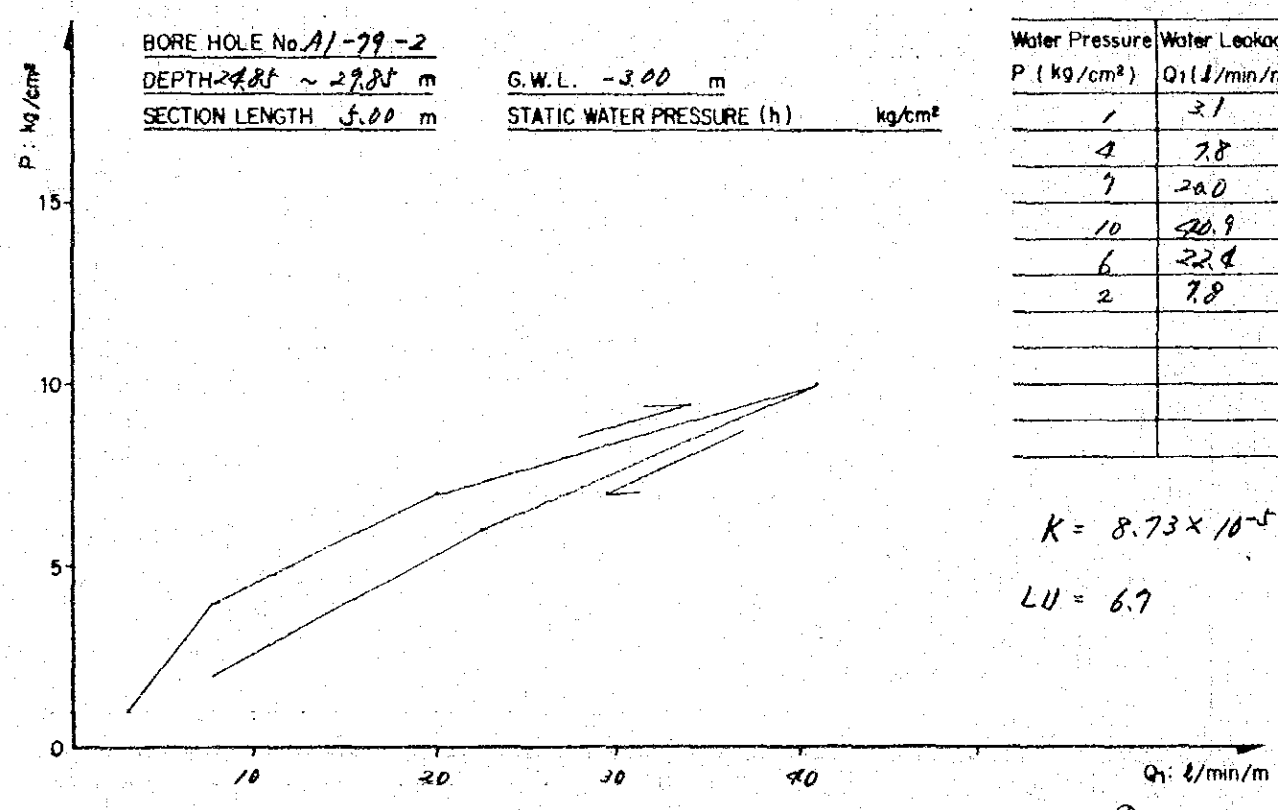


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.5
4	2.9
7	15.1
10	34.6
6	7.9
2	3.2

$K = 8.73 \times 10^{-5}$

$LU = 6.7$

BORE HOLE No. A1-79-2
DEPTH 24.85 ~ 29.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.1
4	7.8
7	20.0
10	30.9
6	22.4
2	7.8

$K = 8.73 \times 10^{-5}$

$LU = 6.7$

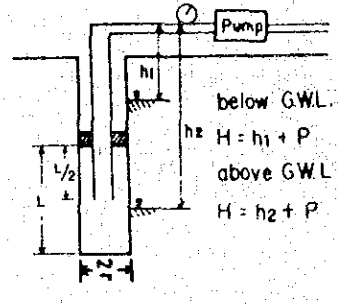
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^{3}$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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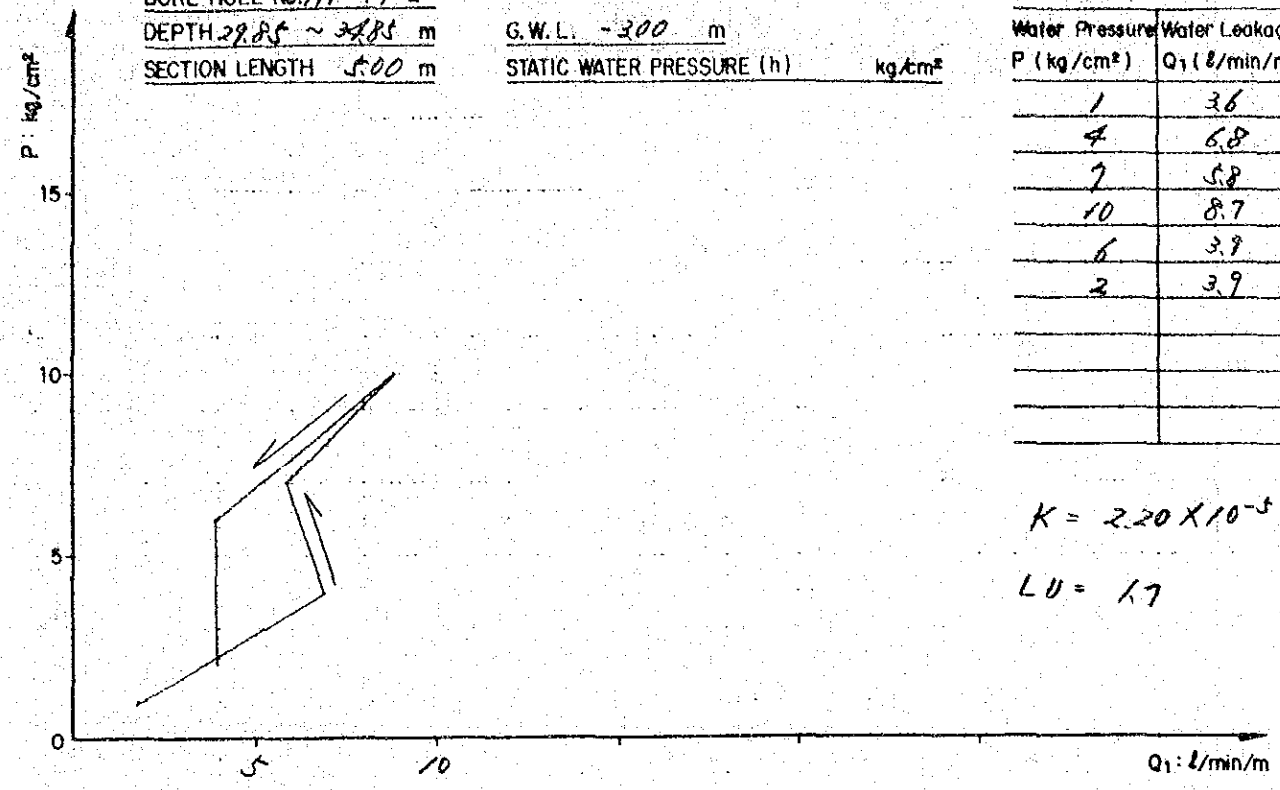
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-2
DEPTH 29.85 ~ 39.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

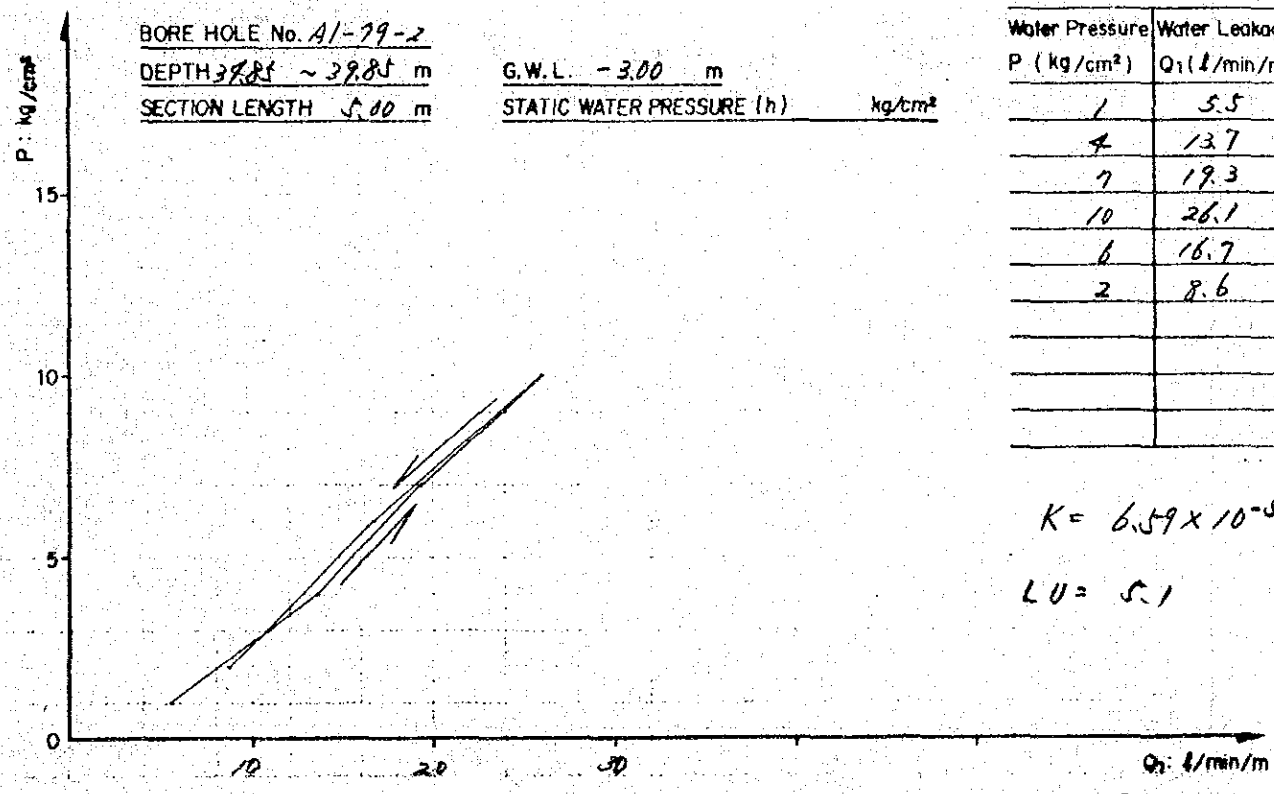


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.6
4	6.8
7	5.8
10	8.7
6	3.9
2	3.9

K = 2.20 X 10⁻⁵

LU = 1.7

BORE HOLE No. A1-79-2
DEPTH 34.85 ~ 39.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	5.5
4	13.7
7	19.3
10	26.1
6	16.7
2	8.6

K = 6.59 X 10⁻⁵

LU = 5.1

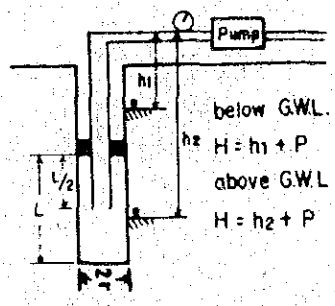
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

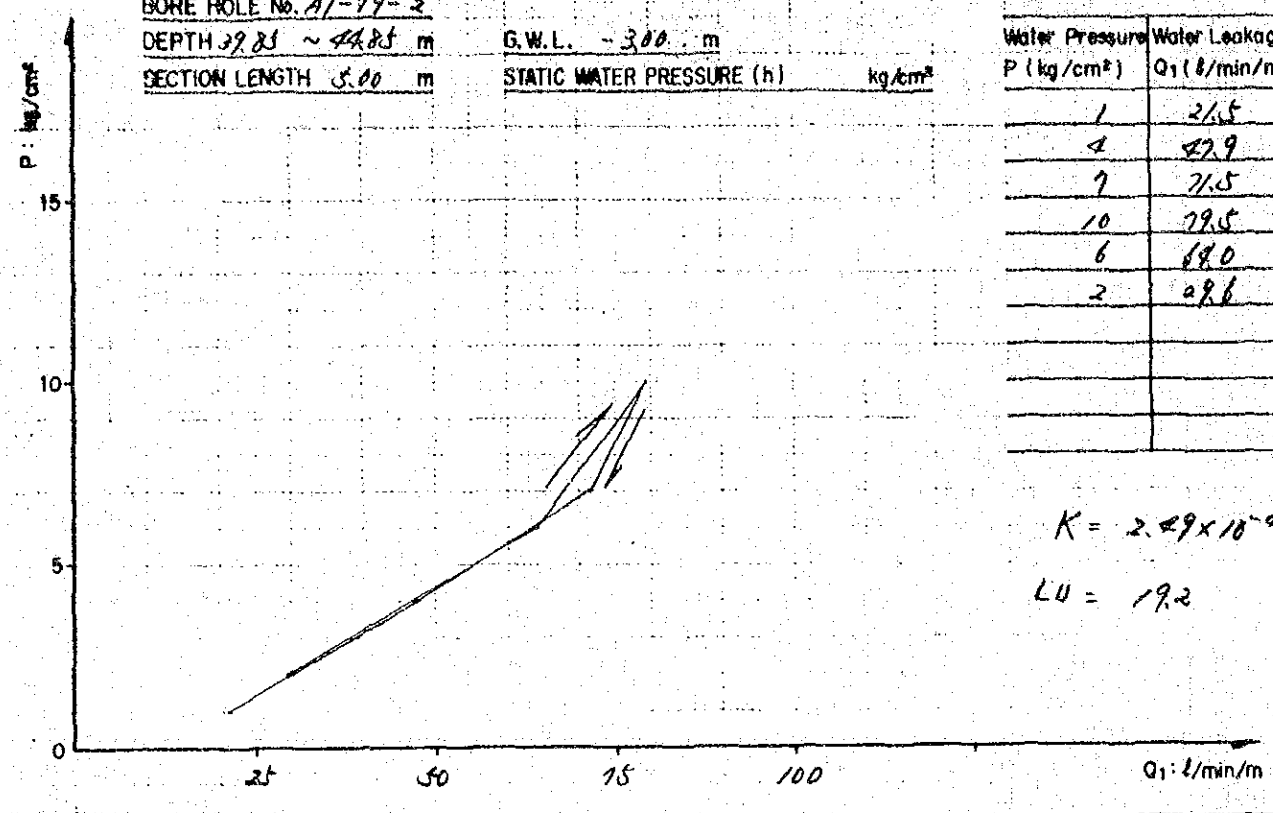
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-2
DEPTH 39.85 ~ 44.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

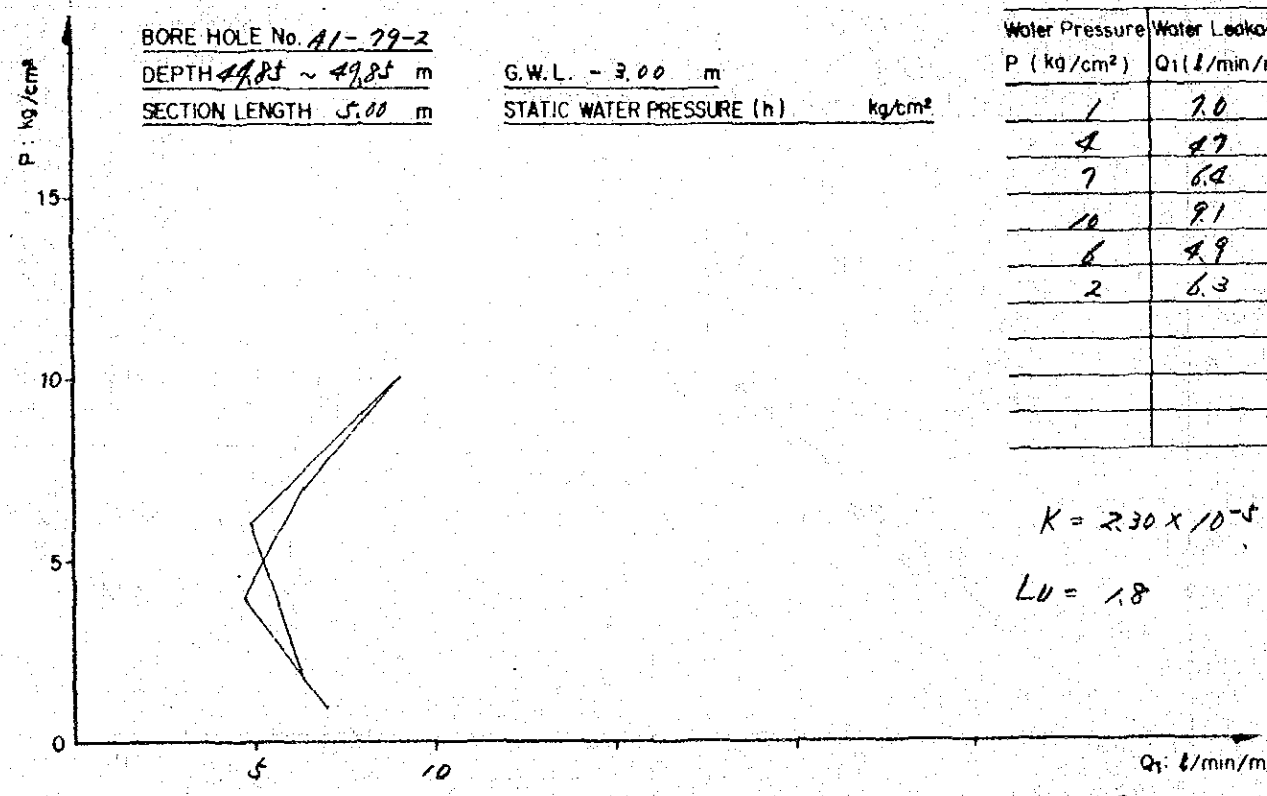


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	21.5
4	42.9
7	71.5
10	79.5
6	68.0
2	29.6

$K = 2.89 \times 10^{-4}$

$Lu = 19.2$

BORE HOLE No. A1-79-2
DEPTH 44.85 ~ 49.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	7.0
4	27
7	6.4
10	9.1
6	4.9
2	6.3

$K = 2.30 \times 10^{-5}$

$Lu = 1.8$

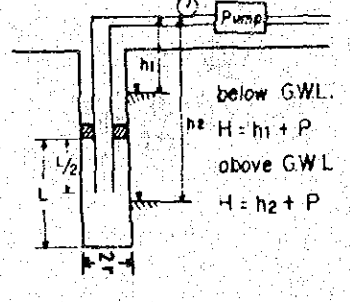
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

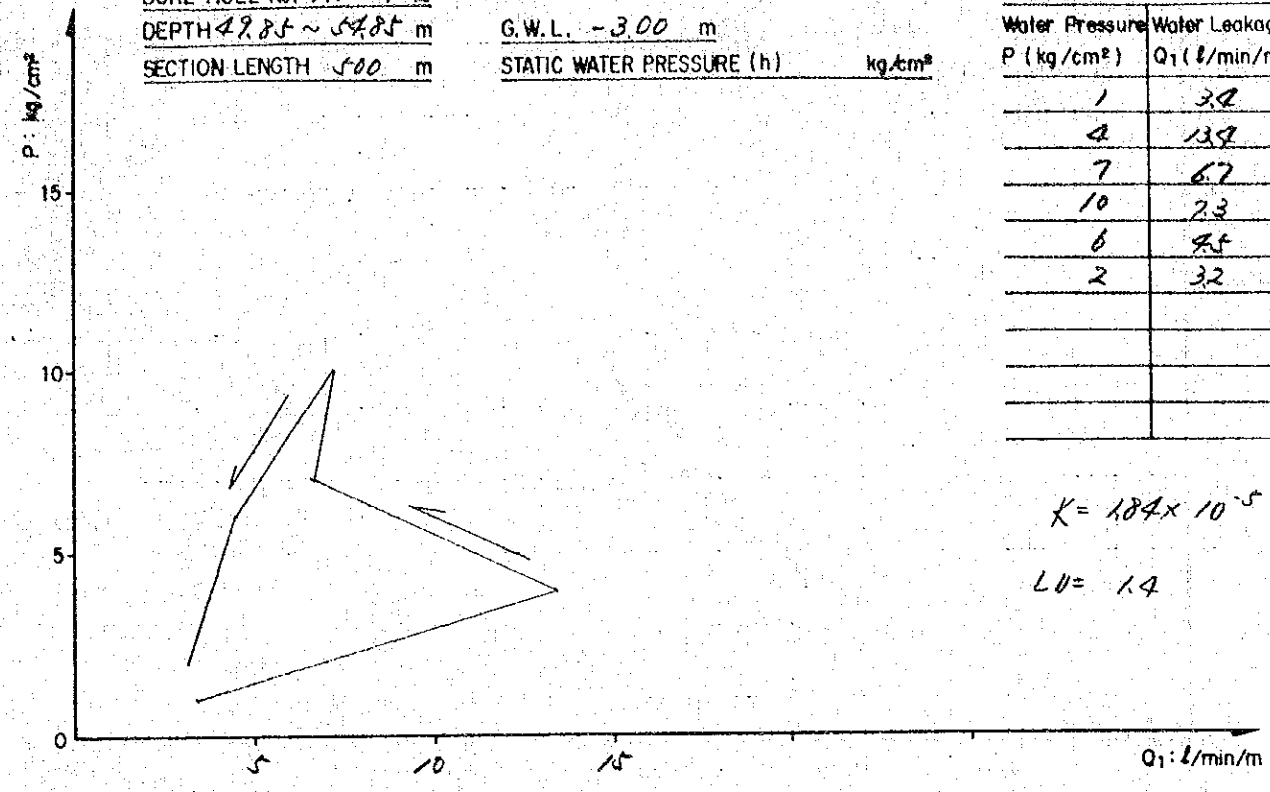
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-79-2
DEPTH 49.85 ~ 54.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

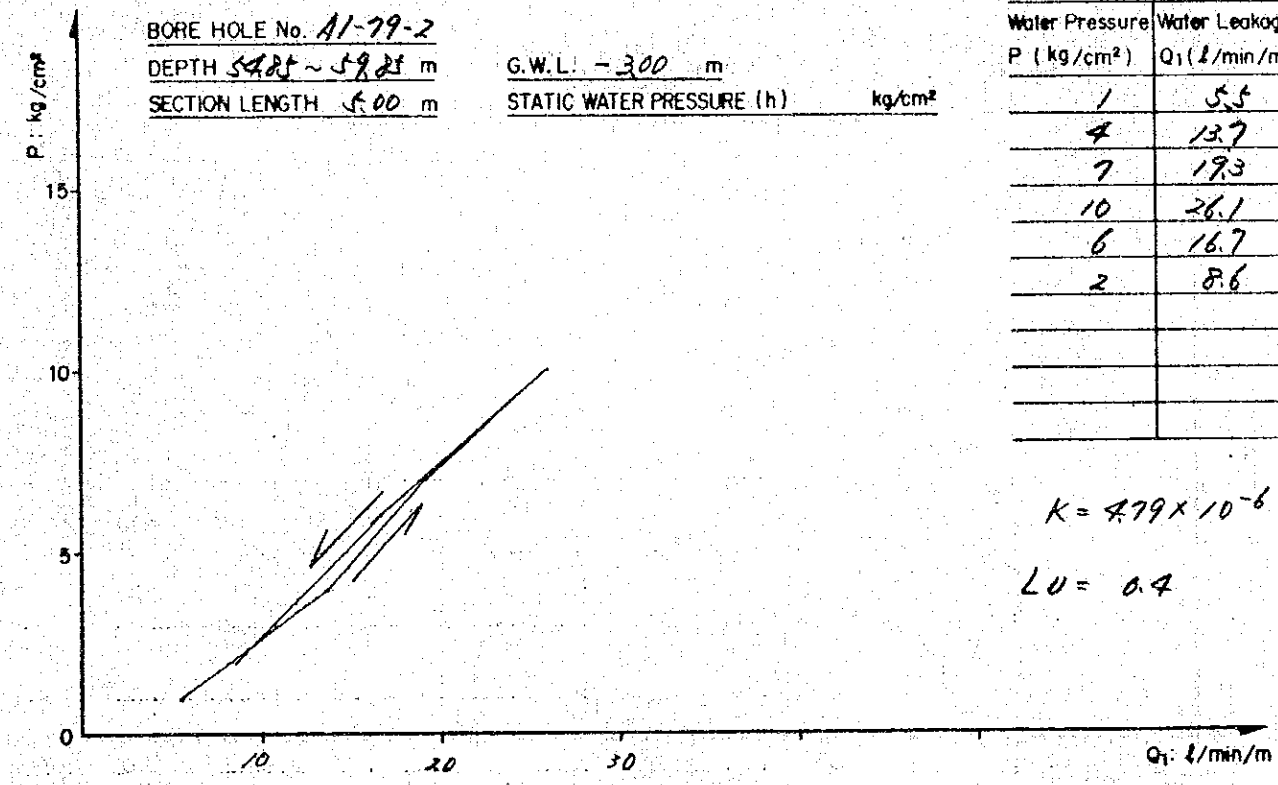


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.4
4	13.8
7	6.7
10	2.3
6	4.5
2	3.2

K = 1.84 × 10⁻⁵

Lu = 1.4

BORE HOLE No. A1-79-2
DEPTH 54.85 ~ 59.85 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	5.5
4	13.7
7	19.3
10	26.1
6	16.7
2	8.6

K = 4.79 × 10⁻⁶

Lu = 0.4

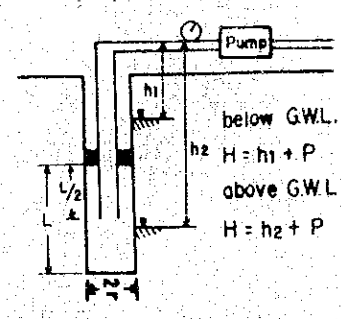
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^{3}$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

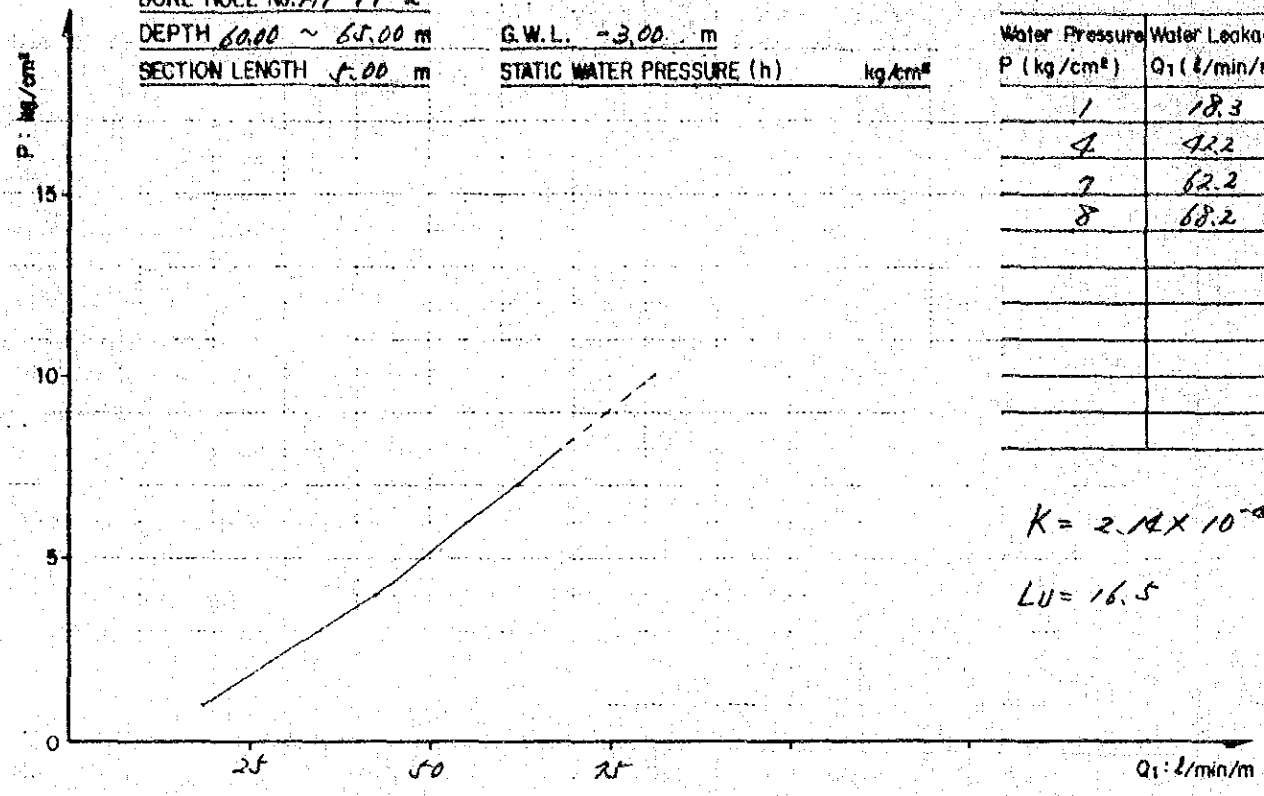
No 5

BORE HOLE No. A1-79-2
DEPTH 60.00 ~ 65.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	18.3
4	42.2
7	62.2
8	68.2

$K = 2.1 \times 10^{-4}$

$Lu = 16.5$

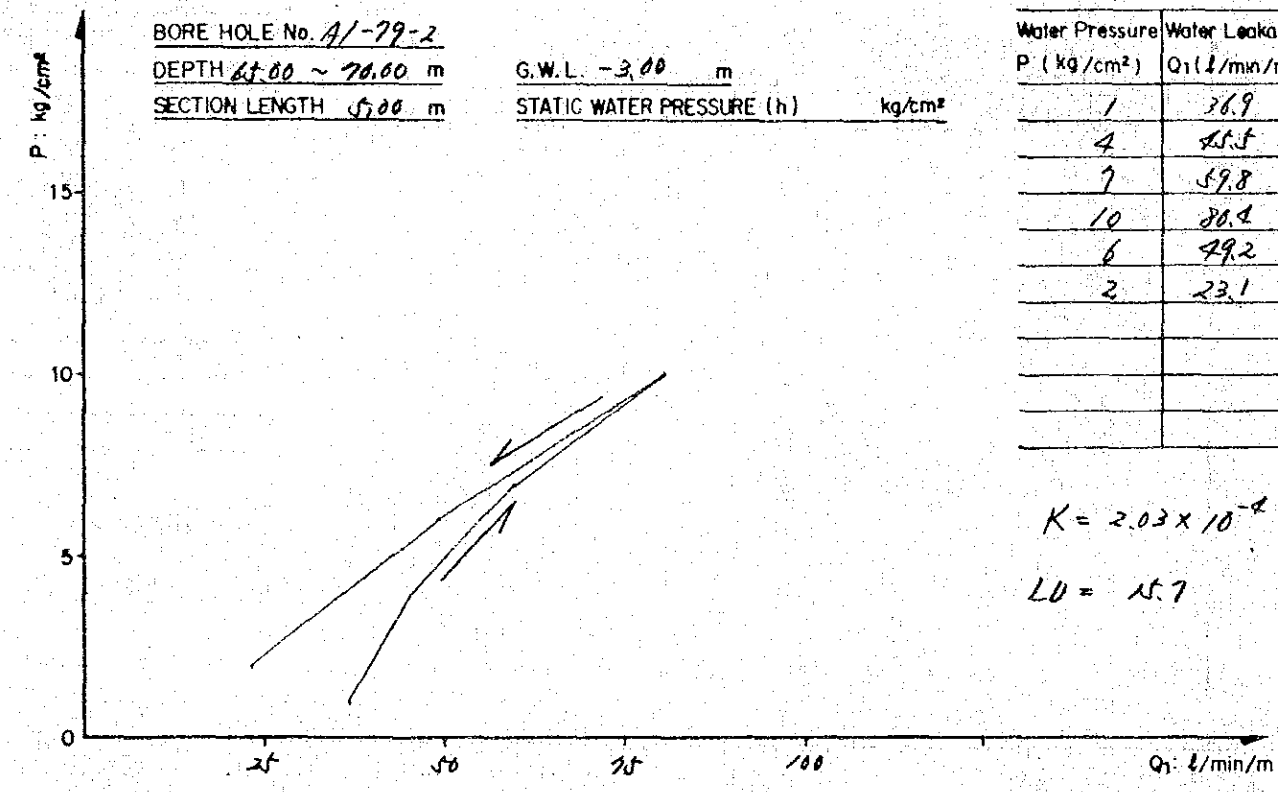


BORE HOLE No. A1-79-2
DEPTH 65.00 ~ 70.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	36.9
4	45.5
7	59.8
10	80.1
6	79.2
2	23.1

$K = 2.03 \times 10^{-4}$

$Lu = 15.7$



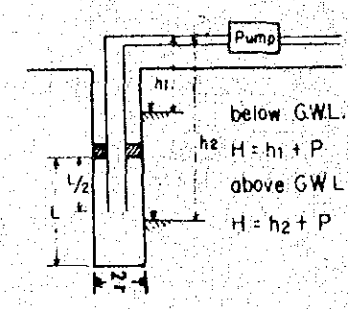
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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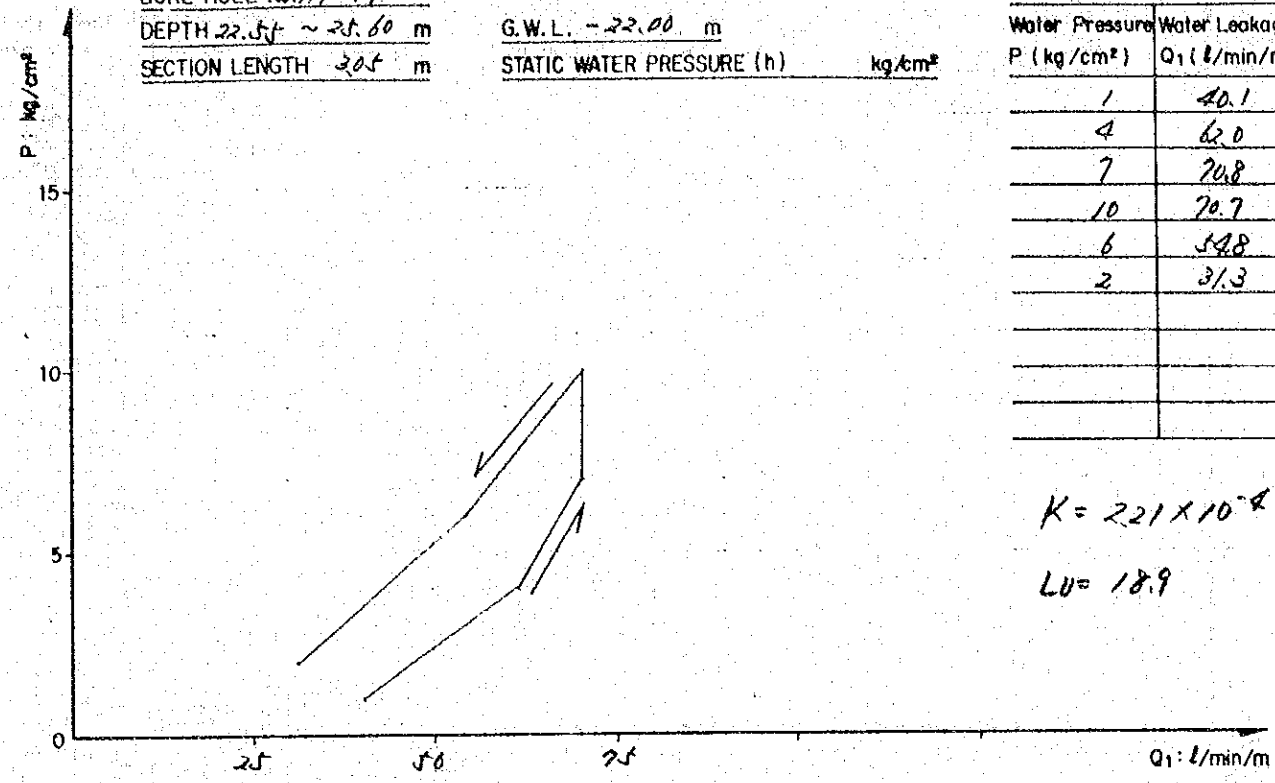
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-3
DEPTH 22.50 ~ 25.60 m
SECTION LENGTH 3.0 m

G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²



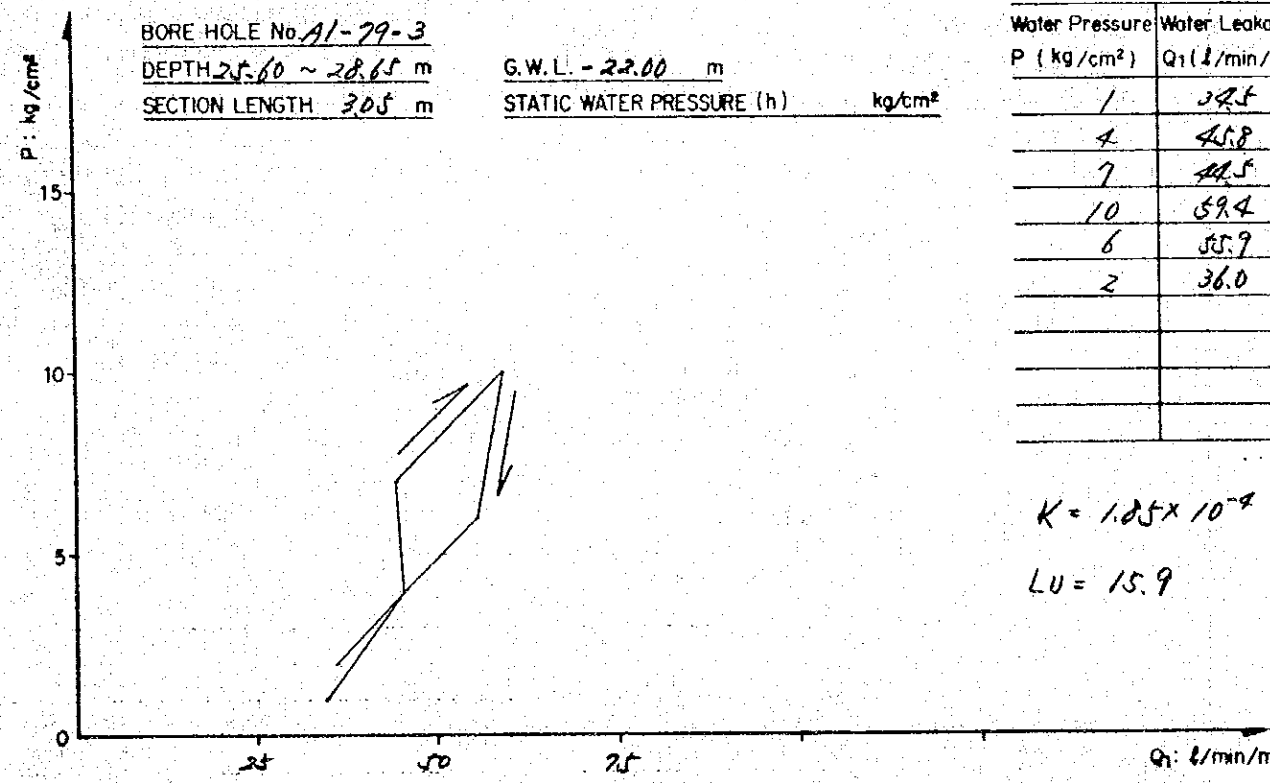
Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	40.1
4	62.0
7	70.8
10	70.7
6	54.8
2	31.3

$K = 2.21 \times 10^{-4}$

$Lu = 18.9$

BORE HOLE No. A1-79-3
DEPTH 25.60 ~ 28.65 m
SECTION LENGTH 3.0 m

G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	34.5
4	45.8
7	44.5
10	59.4
6	55.9
2	36.0

$K = 1.85 \times 10^{-4}$

$Lu = 15.9$

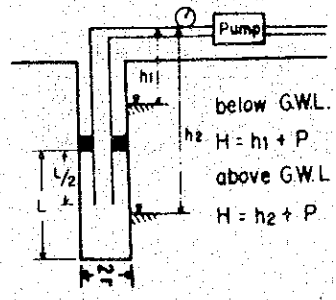
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

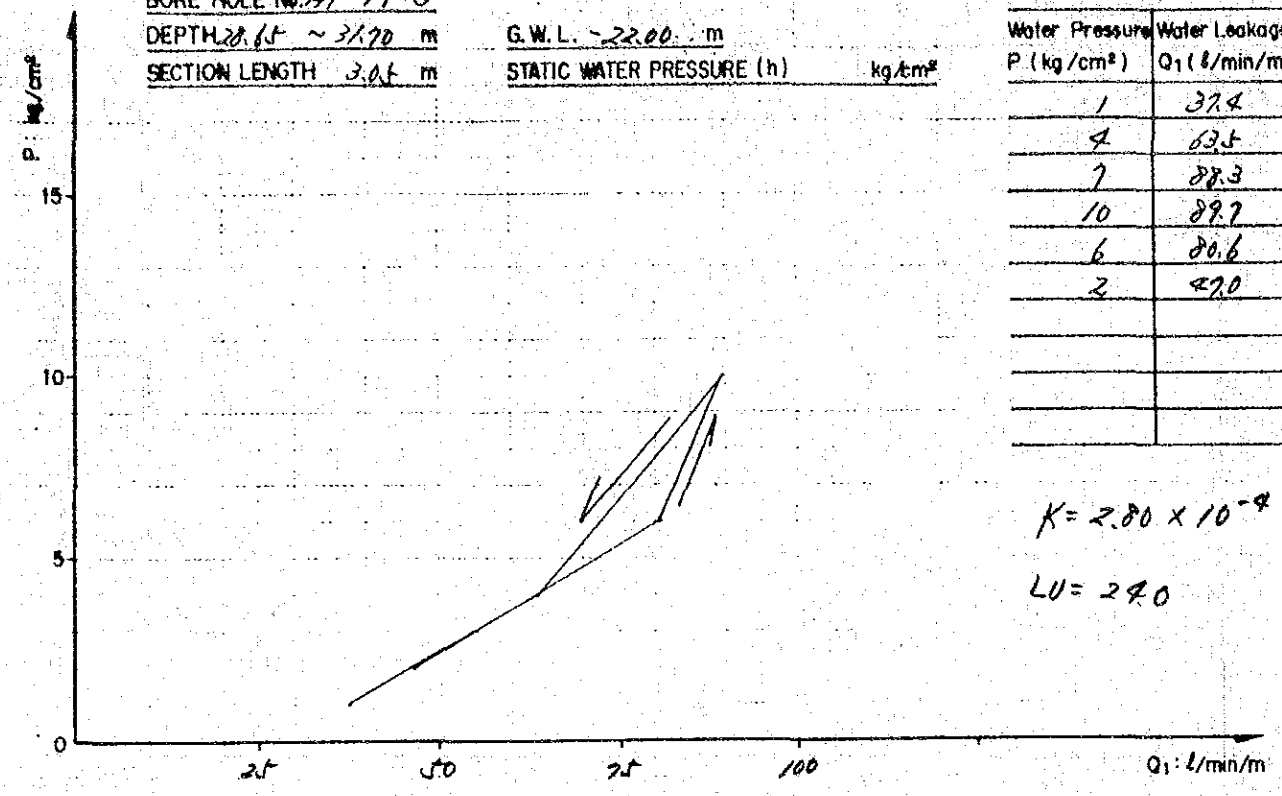
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-3
DEPTH 28.65 ~ 31.70 m
SECTION LENGTH 3.05 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

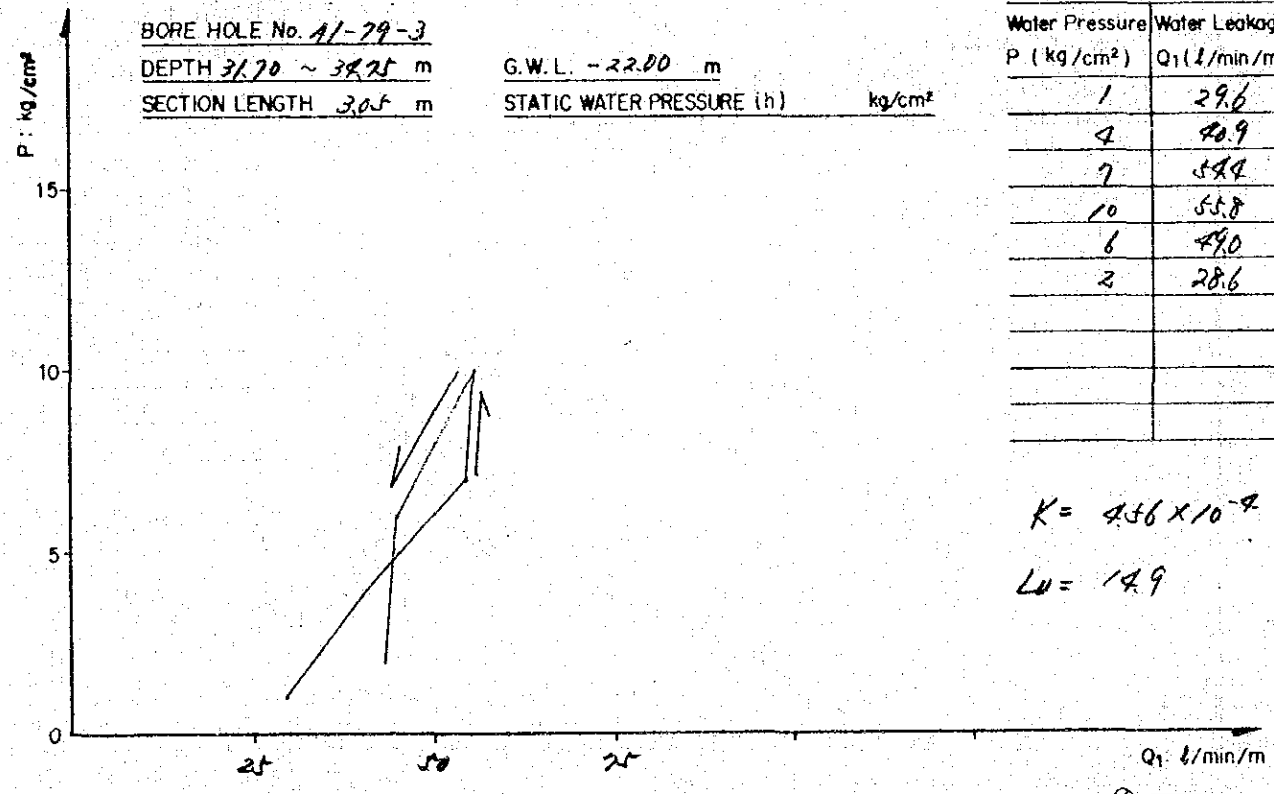


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	37.4
4	63.5
7	88.3
10	89.7
6	80.6
2	47.0

$K = 2.80 \times 10^{-4}$

Lu = 240

BORE HOLE No. A1-79-3
DEPTH 31.70 ~ 34.75 m
SECTION LENGTH 3.05 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	29.6
4	40.9
7	54.4
10	55.8
6	49.0
2	28.6

$K = 4.56 \times 10^{-4}$

Lu = 14.9

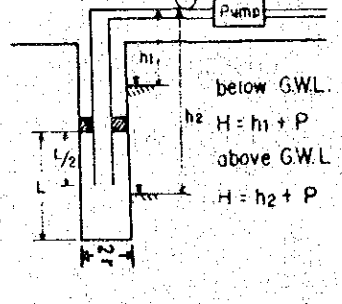
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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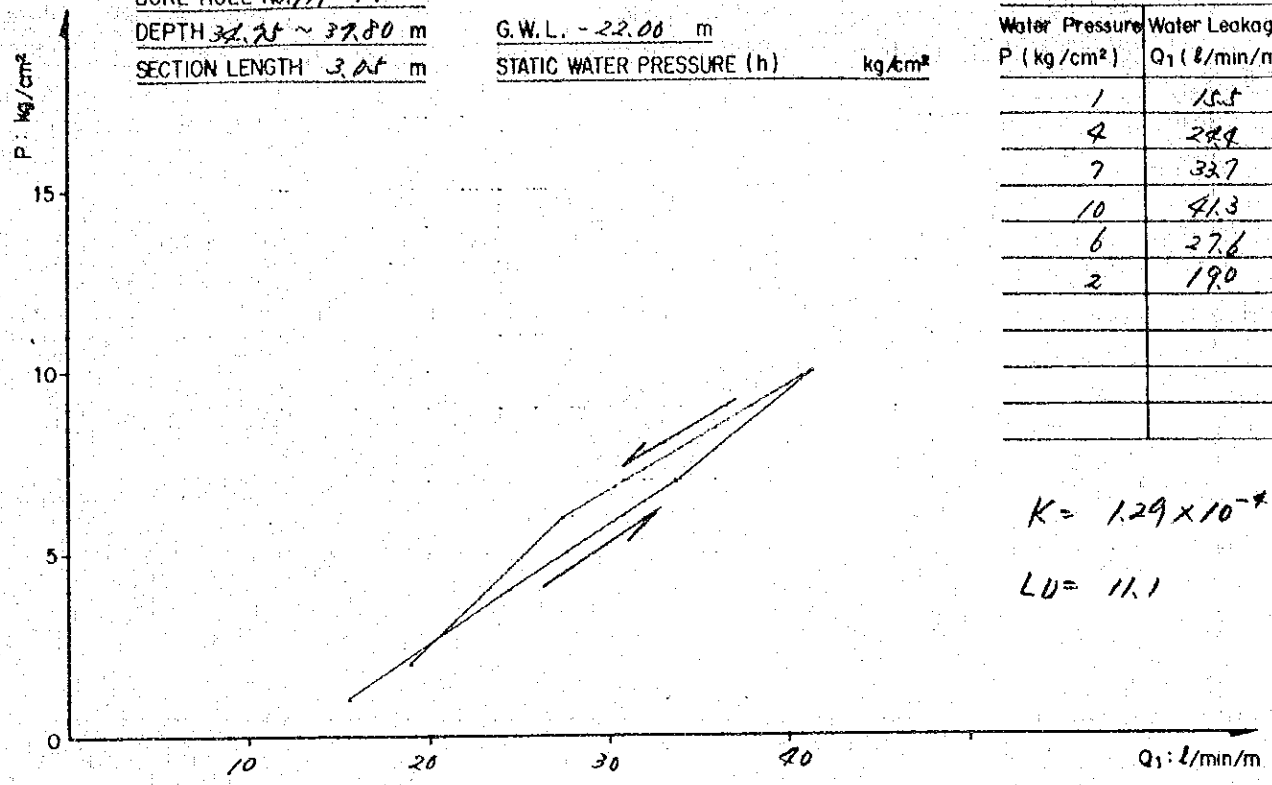
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-3
DEPTH 32.25 ~ 37.80 m
SECTION LENGTH 3.05 m

G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q_1 (ℓ/min/m)
1	15.5
4	28.9
7	32.7
10	41.3
6	27.6
2	19.0



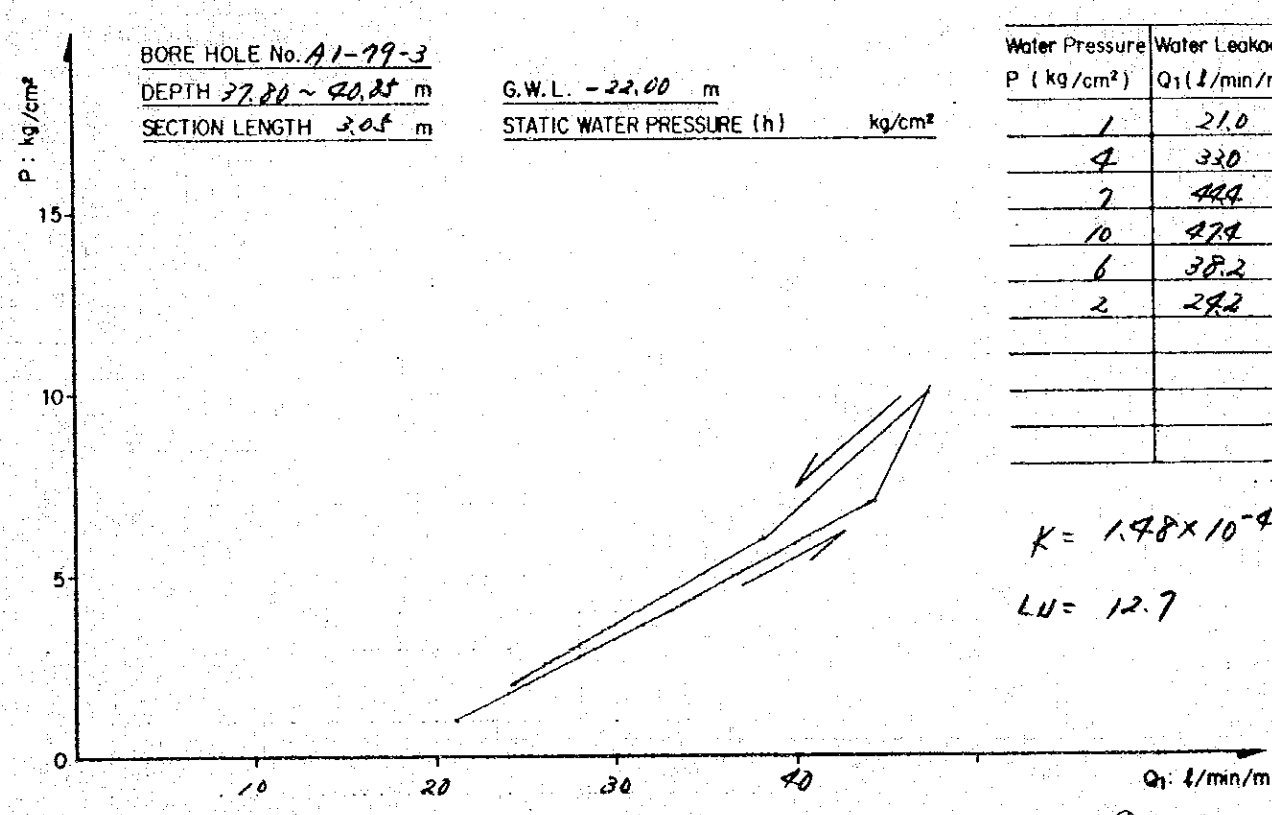
$K = 1.29 \times 10^{-4}$

$Lu = 11.1$

BORE HOLE No. A1-79-3
DEPTH 37.80 ~ 40.85 m
SECTION LENGTH 3.05 m

G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q_1 (ℓ/min/m)
1	21.0
4	33.0
7	44.4
10	47.4
6	38.2
2	24.2



$K = 1.48 \times 10^{-4}$

$Lu = 12.7$

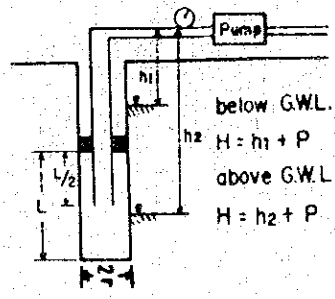
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

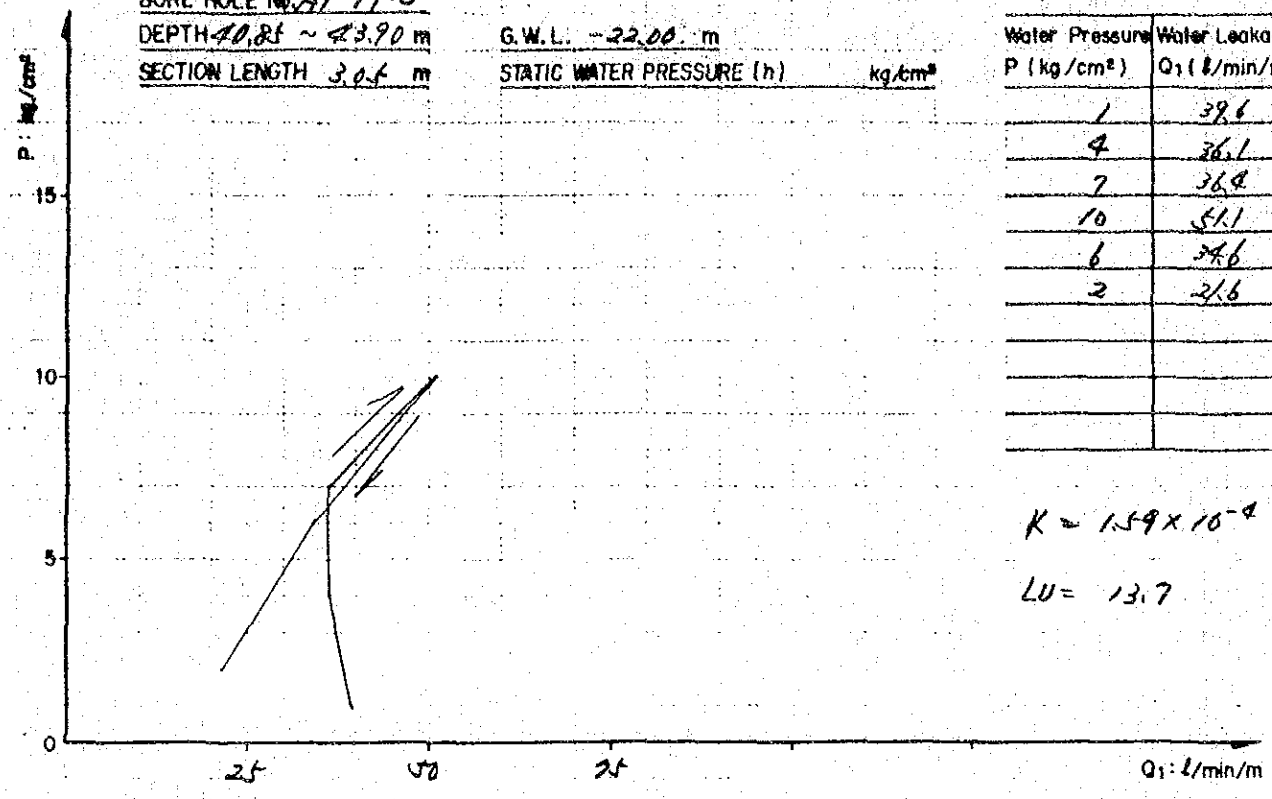
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-79-3
DEPTH 40.85 ~ 43.90 m
SECTION LENGTH 3.05 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

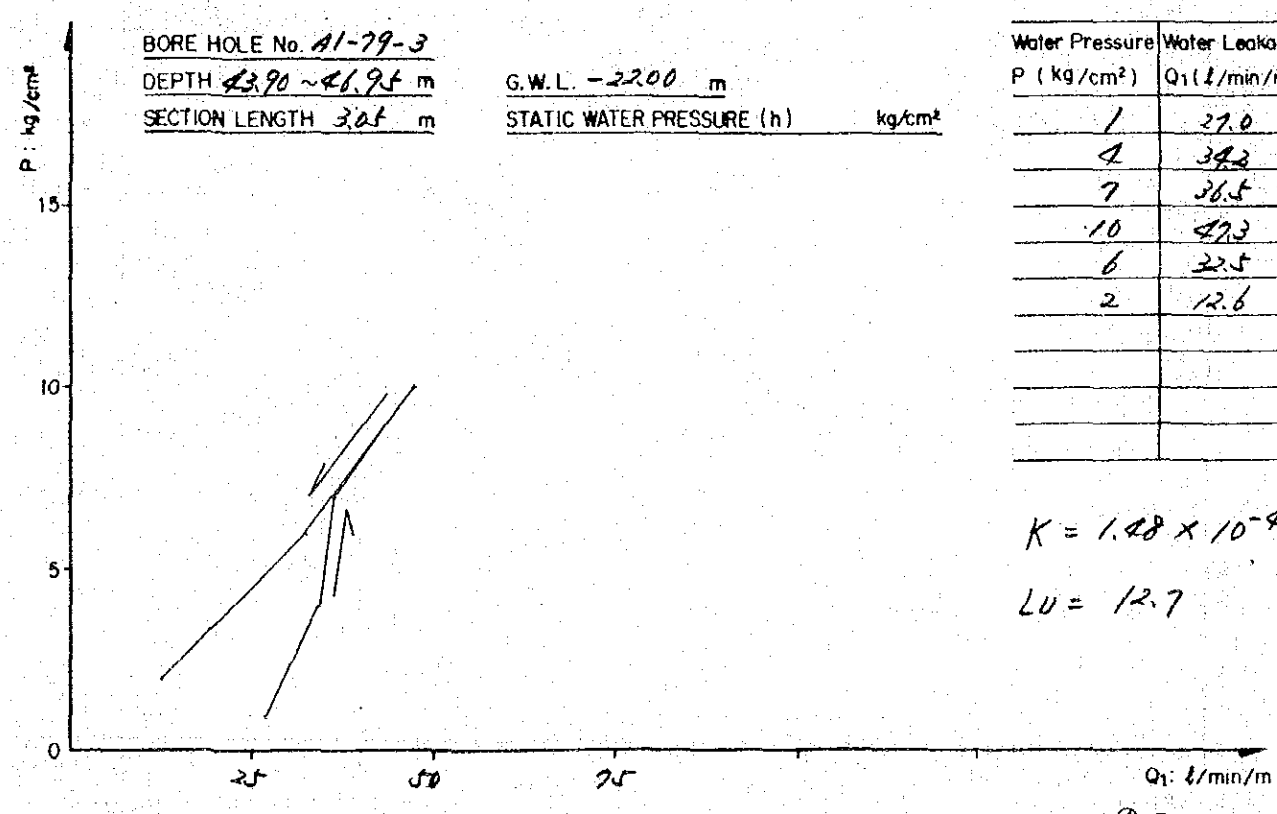


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	39.6
4	36.1
7	36.9
10	41.1
6	34.6
2	21.6

$K = 1.59 \times 10^{-4}$

$Lu = 13.7$

BORE HOLE No. A1-79-3
DEPTH 43.90 ~ 46.95 m
SECTION LENGTH 3.05 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	27.0
4	34.2
7	36.5
10	47.3
6	32.5
2	12.6

$K = 1.48 \times 10^{-4}$

$Lu = 12.7$

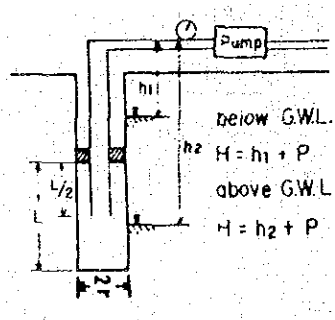
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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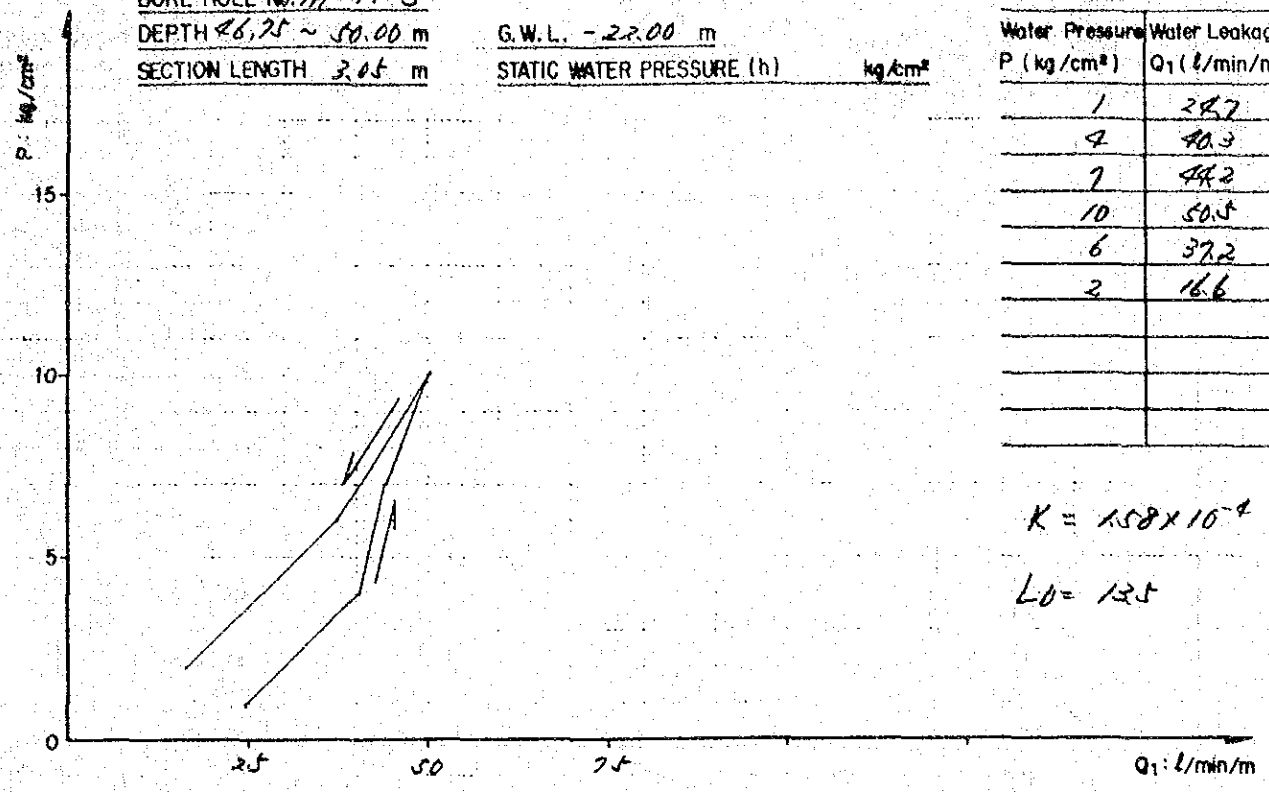
WATER PRESSURE TEST DIAGRAM

No 5

BORE HOLE No. A1-79-3
DEPTH 46.25 ~ 50.00 m
SECTION LENGTH 3.05 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

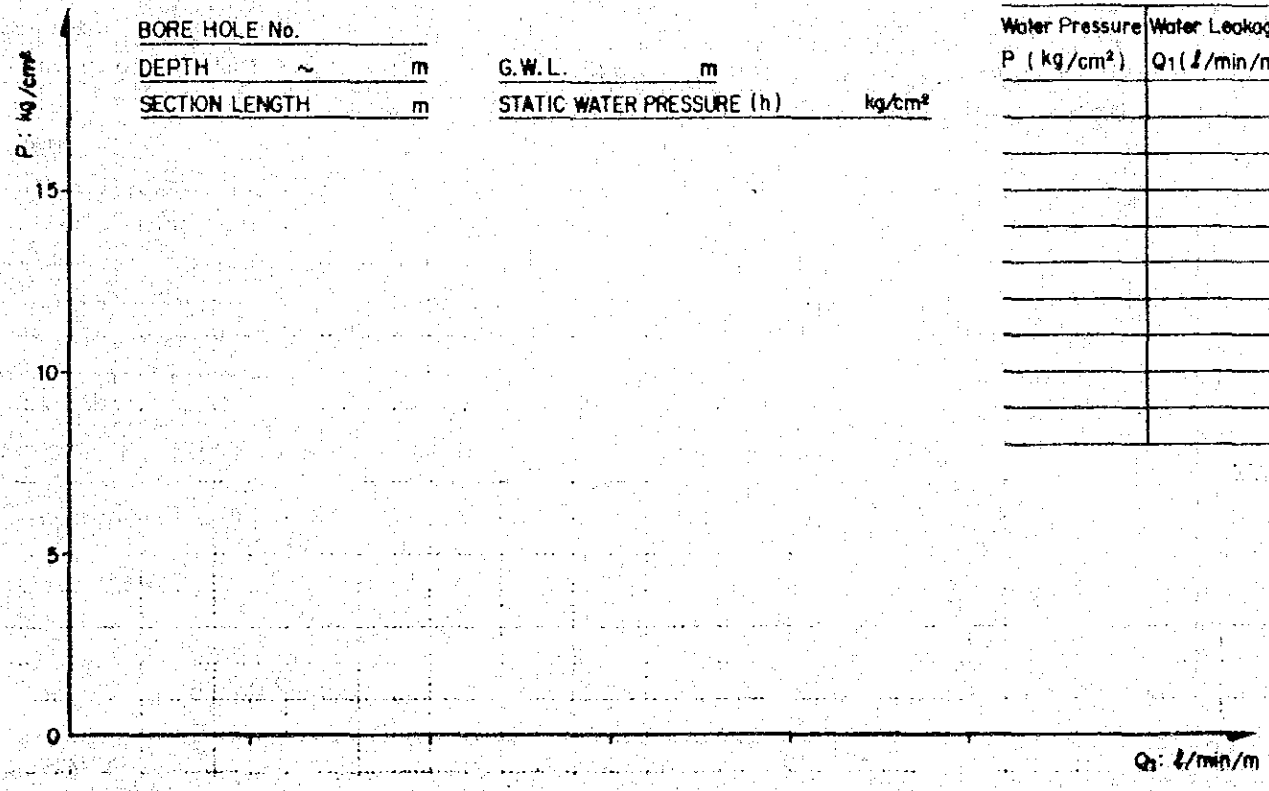
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	28.7
4	40.3
7	44.2
10	50.5
6	37.2
2	16.6



K = 1.58 × 10⁻⁴
Lo = 125

BORE HOLE No.
DEPTH ~ m
SECTION LENGTH m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)



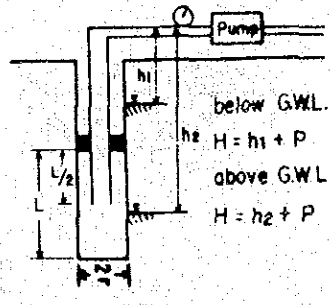
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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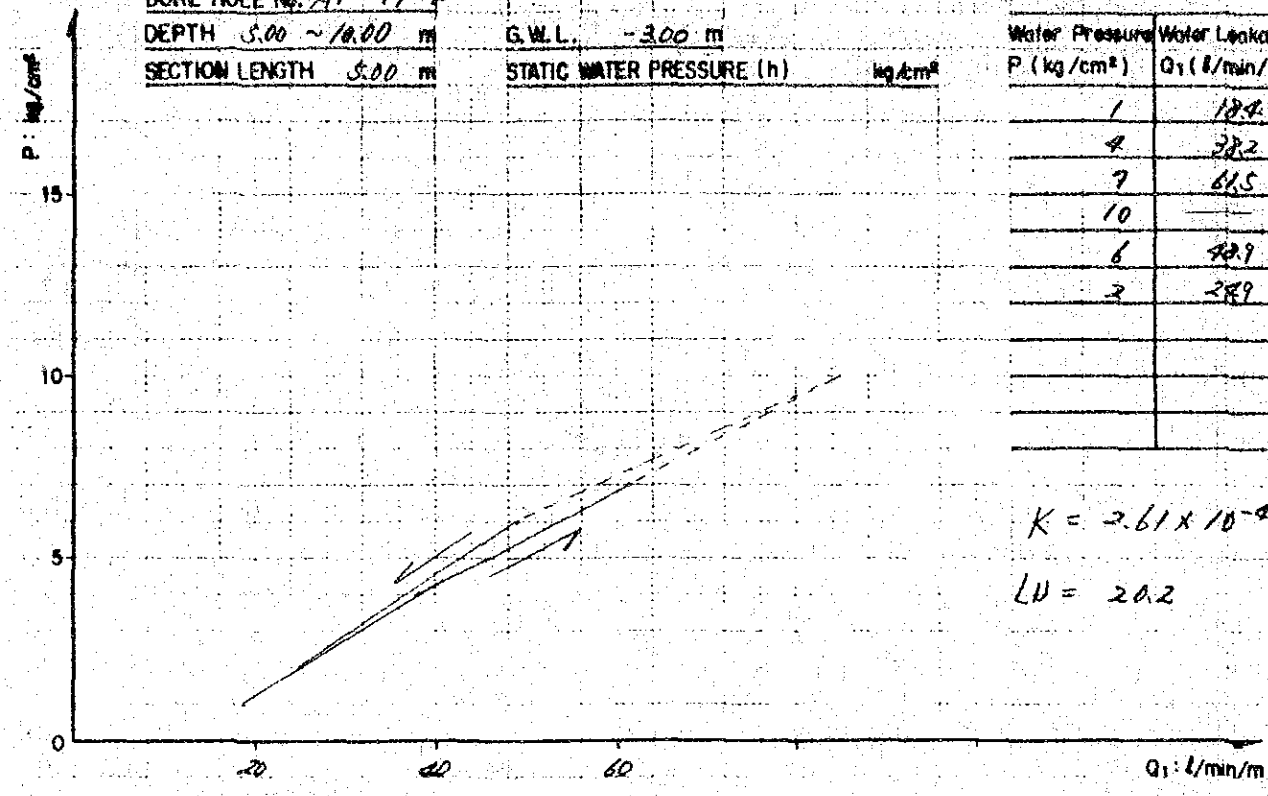
WATER PRESSURE TEST DIAGRAM

No 1.

BORE HOLE No. A1-79-4
DEPTH 5.00 ~ 10.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

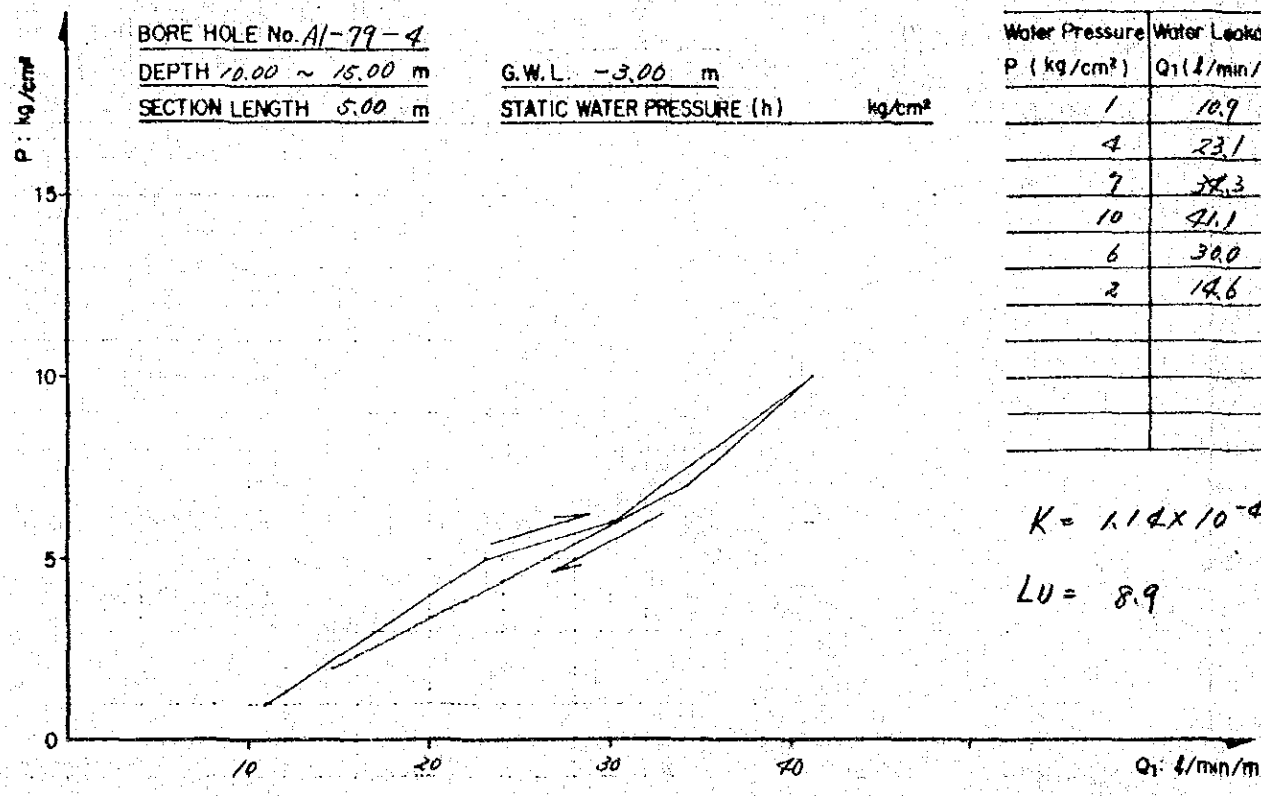


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	18.4
4	38.2
7	61.5
10	—
6	48.9
2	25.9

$K = 2.61 \times 10^{-4}$

$Lu = 20.2$

BORE HOLE No. A1-79-4
DEPTH 10.00 ~ 15.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	10.9
4	23.1
7	35.3
10	47.1
6	30.0
2	14.6

$K = 1.12 \times 10^{-4}$

$Lu = 8.9$

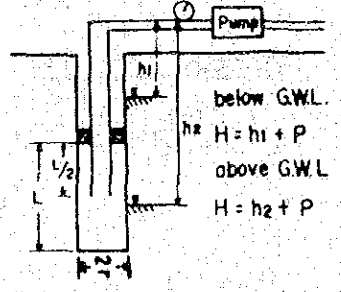
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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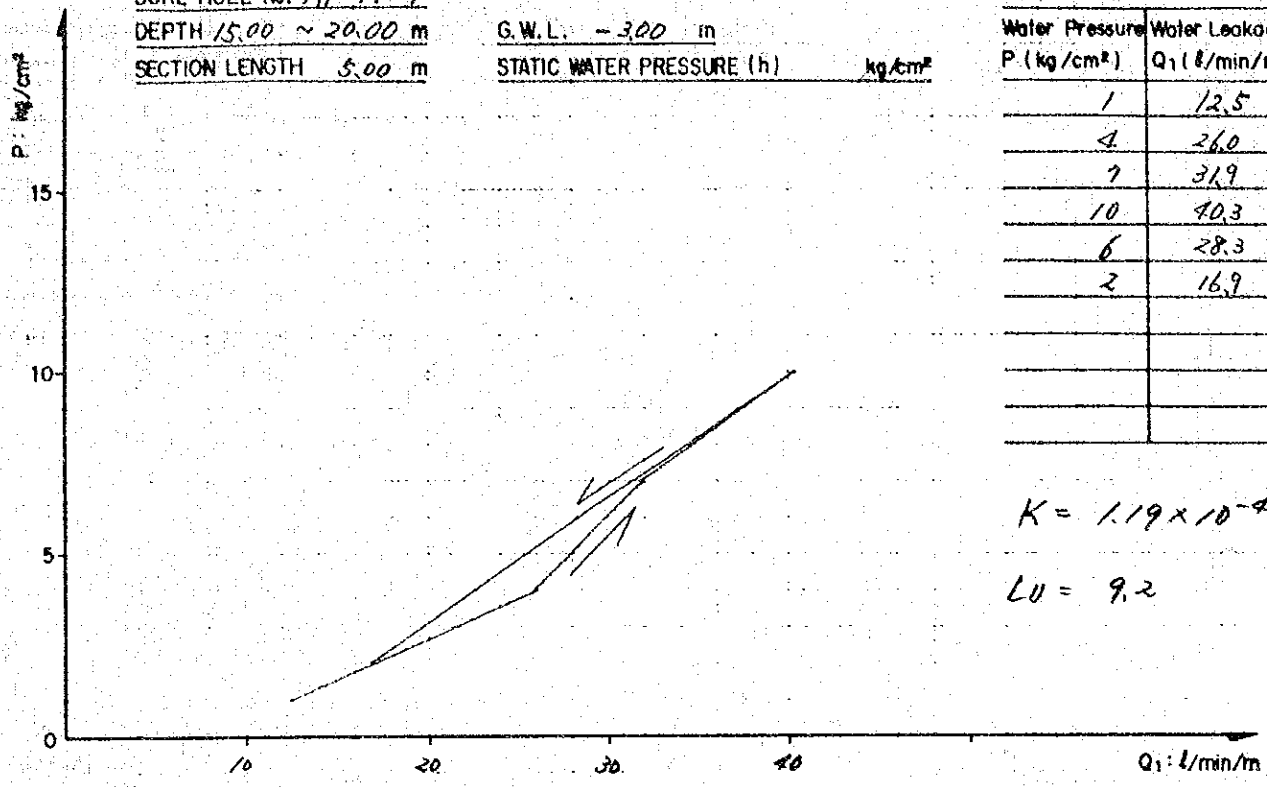
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-4
DEPTH 15.00 ~ 20.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

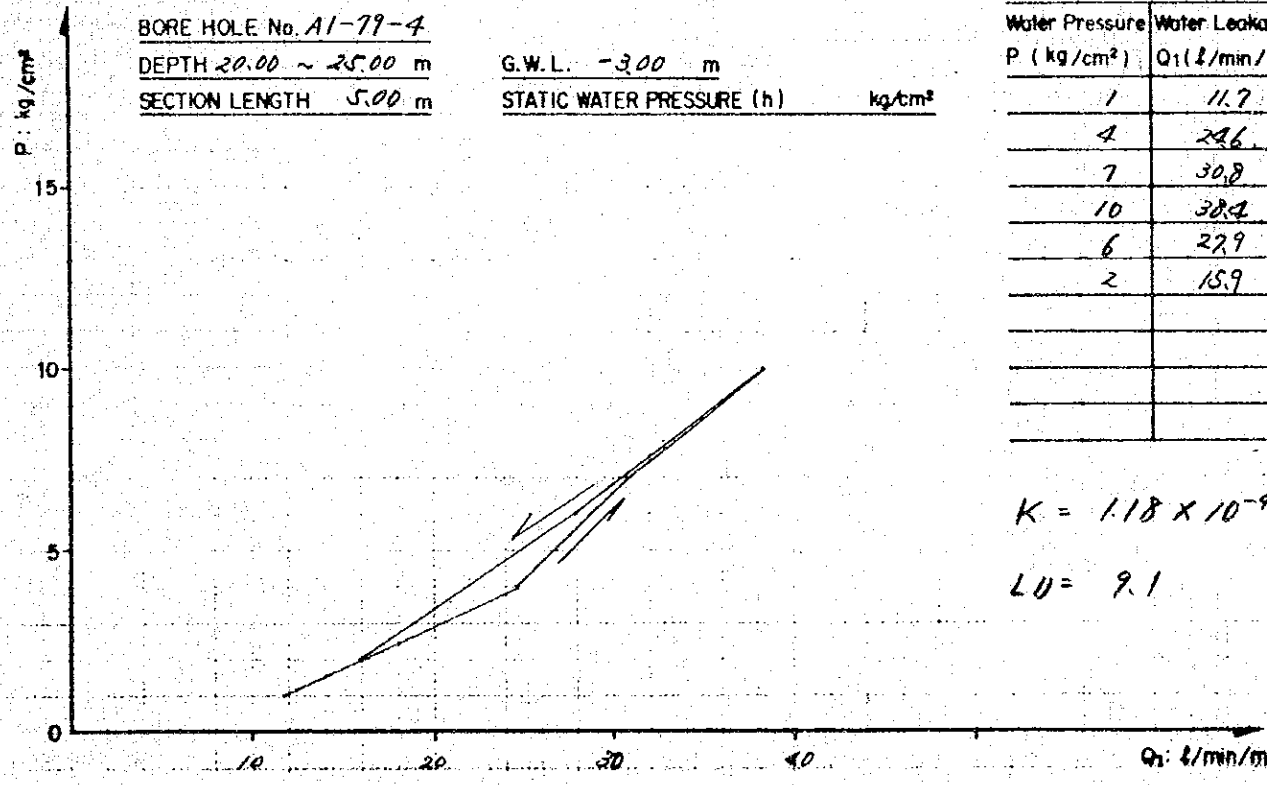


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	12.5
4	26.0
7	31.9
10	40.3
6	28.3
2	16.9

$K = 1.19 \times 10^{-4}$

$Lu = 9.2$

BORE HOLE No. A1-79-4
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	11.7
4	24.6
7	30.8
10	38.4
6	27.9
2	15.9

$K = 1.18 \times 10^{-4}$

$Lu = 9.1$

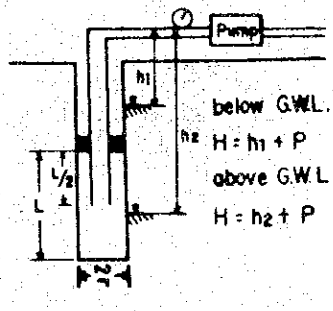
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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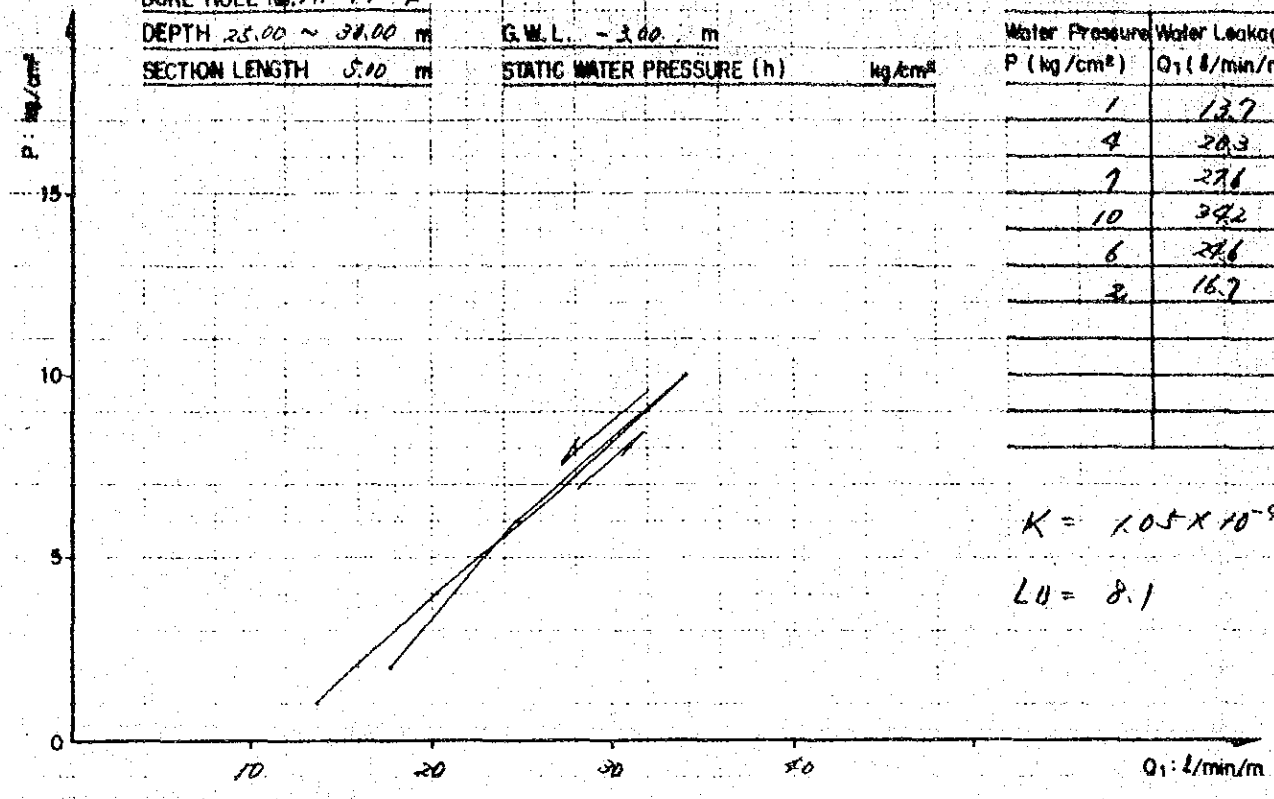
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-4
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.10 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	13.7
4	20.3
7	27.6
10	39.2
6	24.6
2	16.7

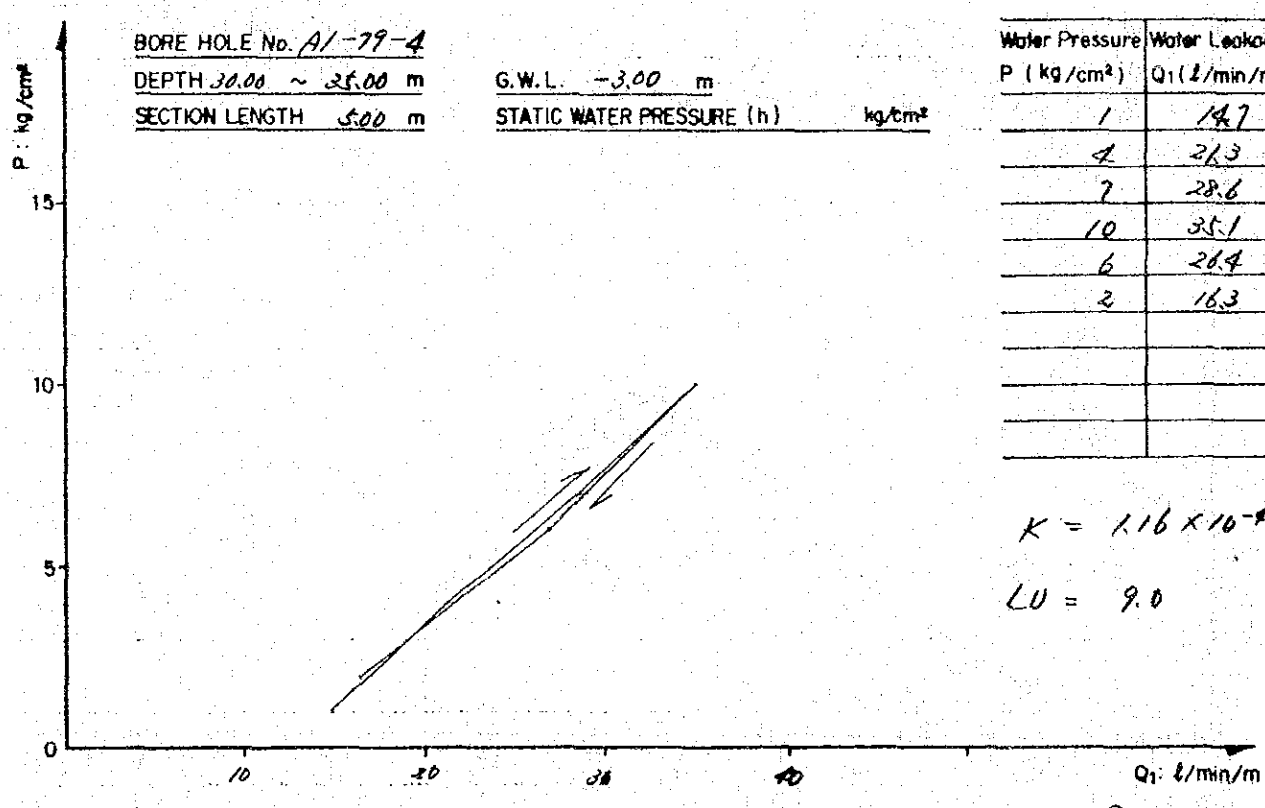


K = 1.05 × 10⁻²

Lu = 8.1

BORE HOLE No. A1-79-4
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. -3.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	14.7
4	21.3
7	28.6
10	35.1
6	26.4
2	16.3



K = 1.16 × 10⁻²

Lu = 9.0

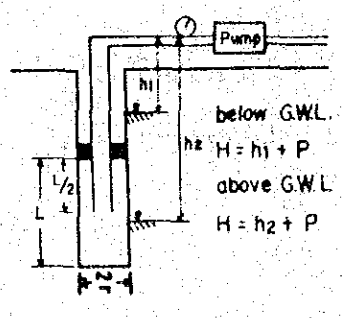
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$

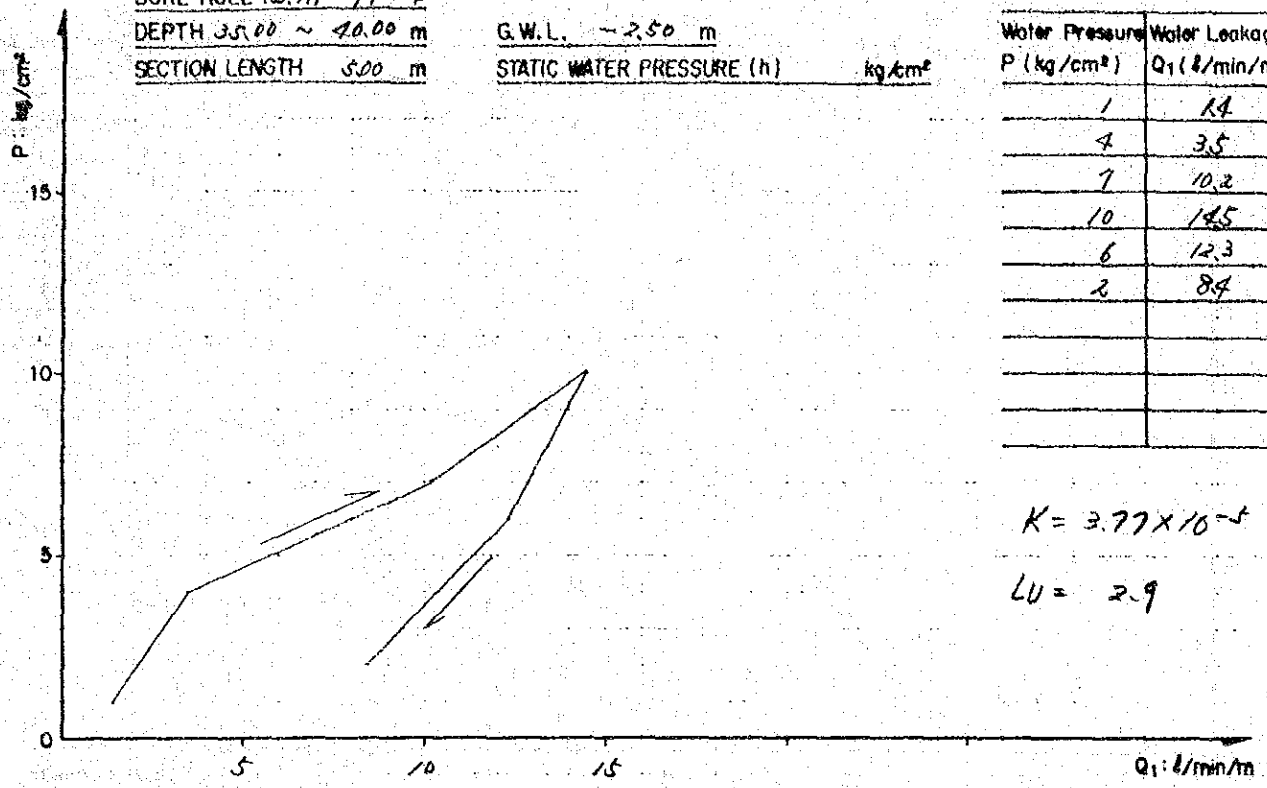


WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1 - 79 - 4
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	1.4
4	3.5
7	10.2
10	14.5
6	12.3
2	8.4

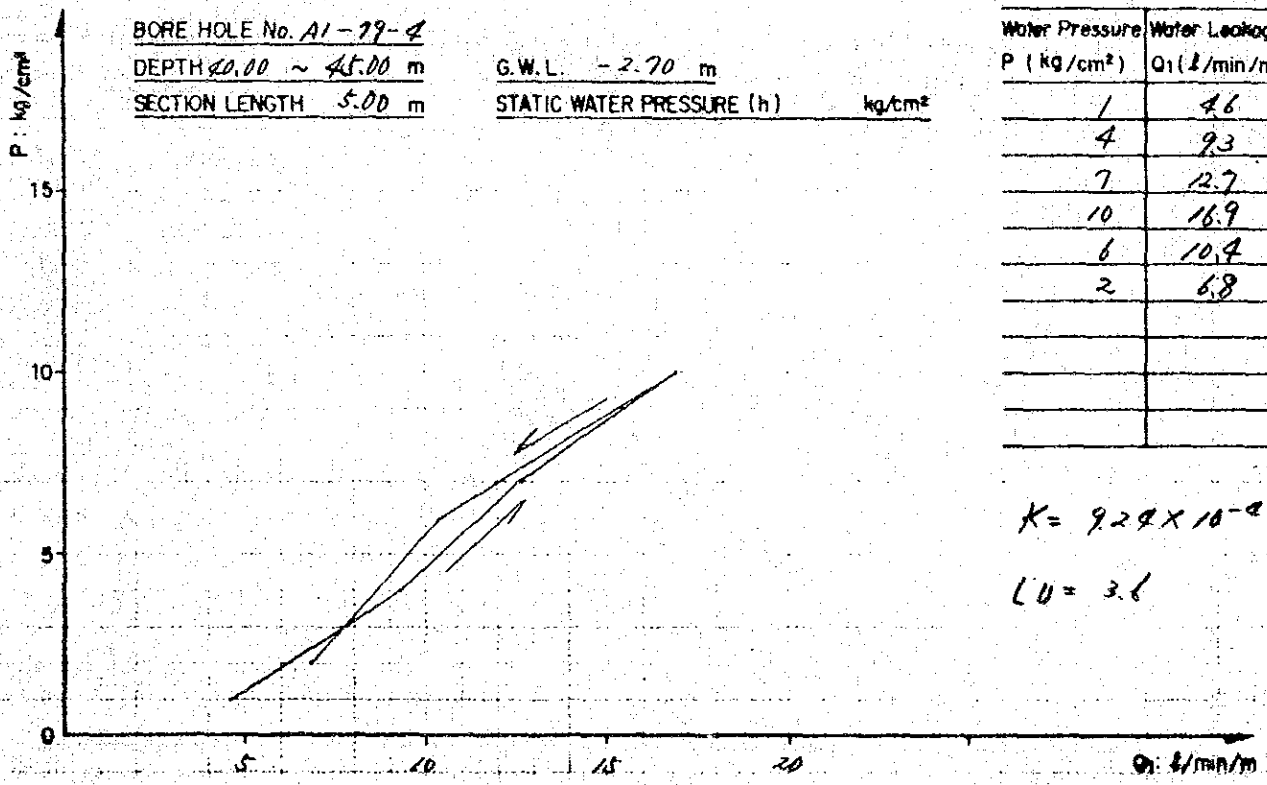


K = 3.77 × 10⁻⁵

Lu = 2.9

BORE HOLE No. A1 - 79 - 4
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.70 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	4.6
4	9.3
7	12.7
10	16.9
6	10.4
2	6.8



K = 9.24 × 10⁻⁴

Lu = 3.6

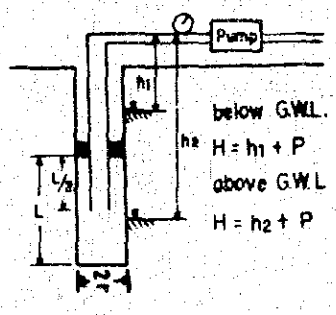
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$

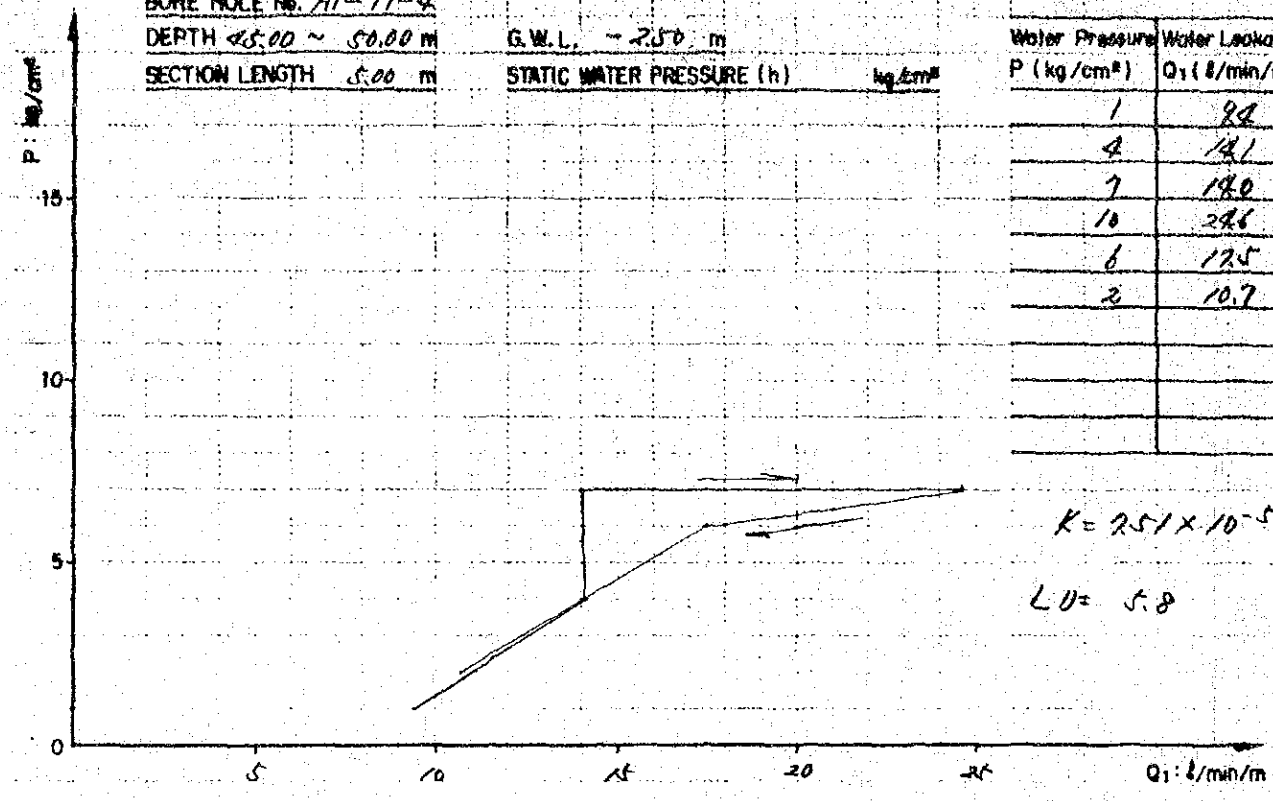


WATER PRESSURE TEST DIAGRAM

No 5

BORE HOLE No. A1-79-2
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	84
4	121
7	180
10	246
6	125
2	10.7

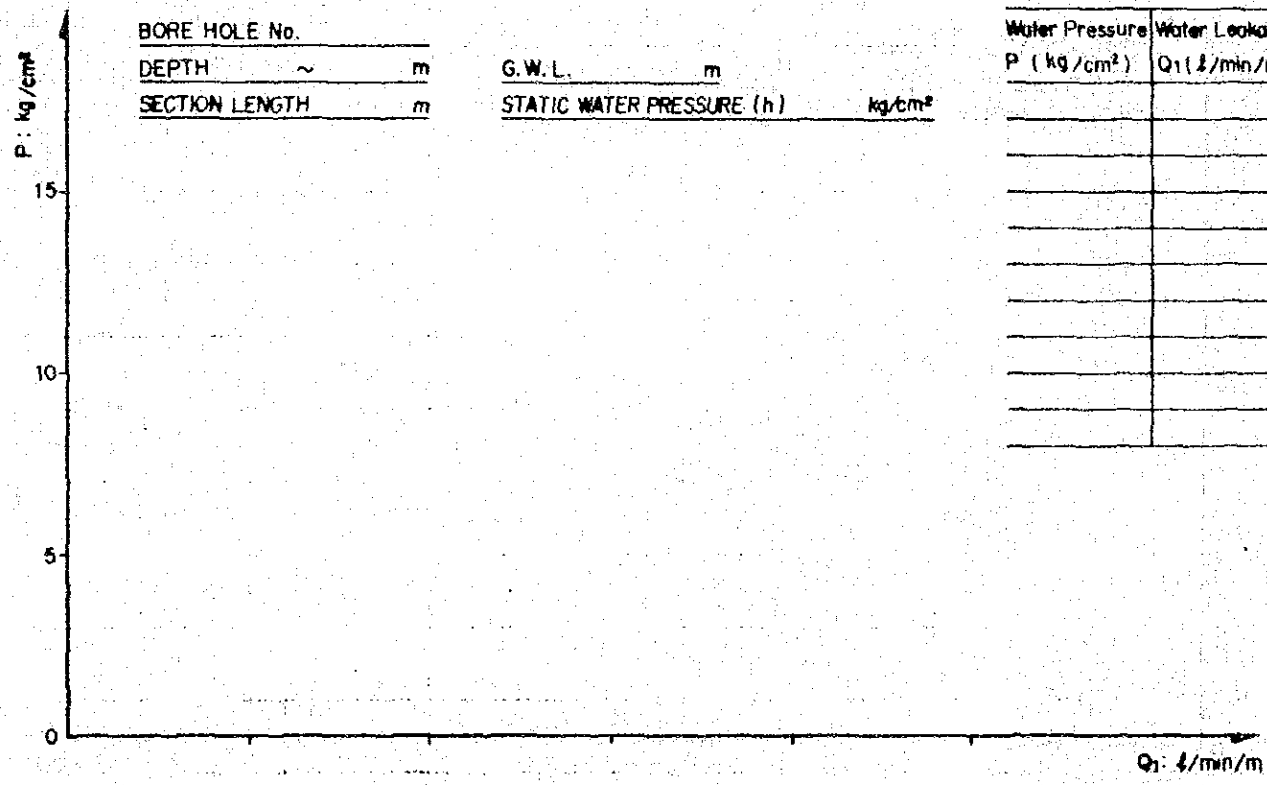


K = 25.1 × 10⁻⁵

Lu = 5.8

BORE HOLE No.
DEPTH ~ m
SECTION LENGTH m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)



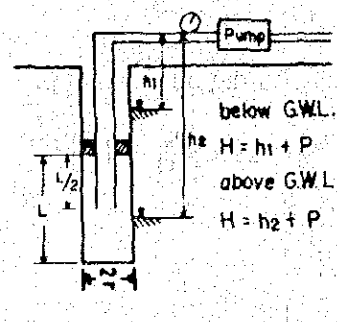
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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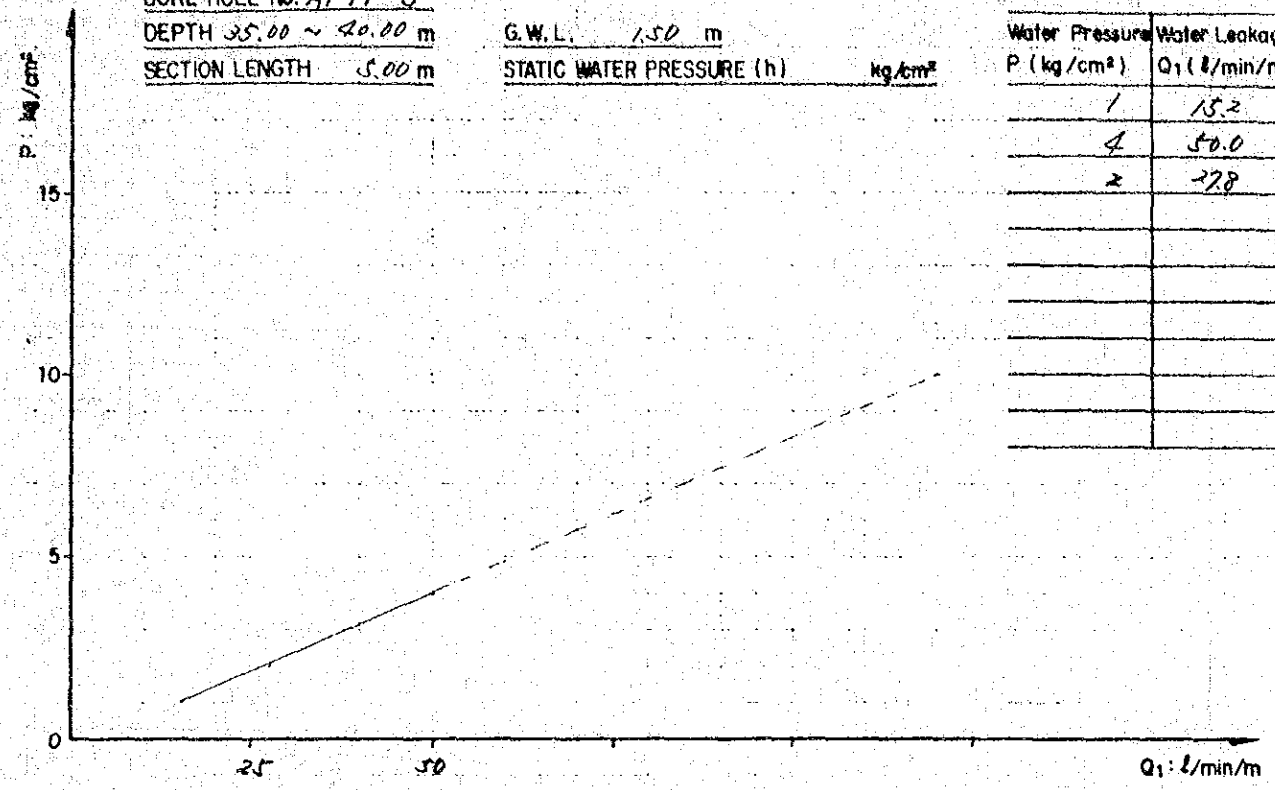
WATER PRESSURE TEST DIAGRAM

No 1

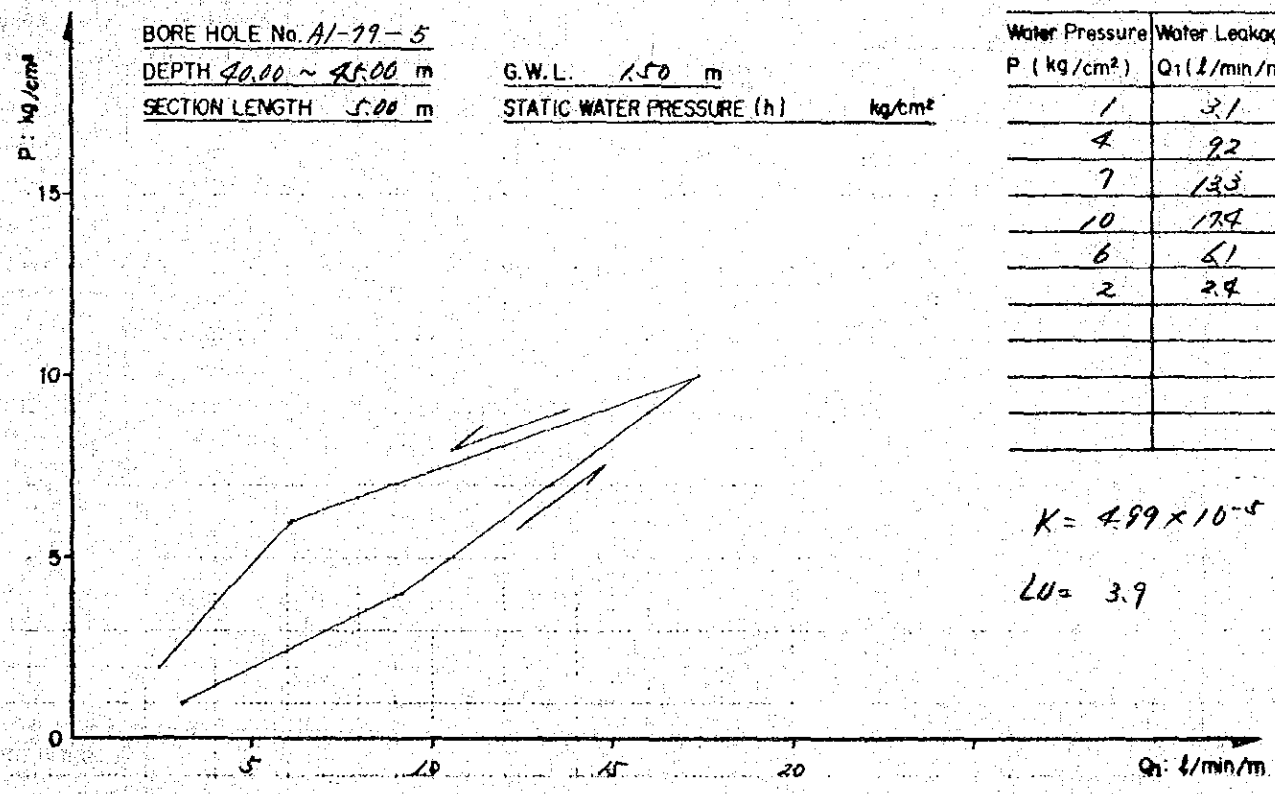
BORE HOLE No. A1-79-5
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	15.2
4	50.0
2	27.8



BORE HOLE No. A1-79-5
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.1
4	9.2
7	13.3
10	17.4
6	6.1
2	2.4



$K = 4.99 \times 10^{-5}$

$Lu = 3.9$

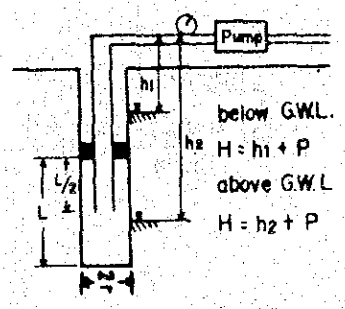
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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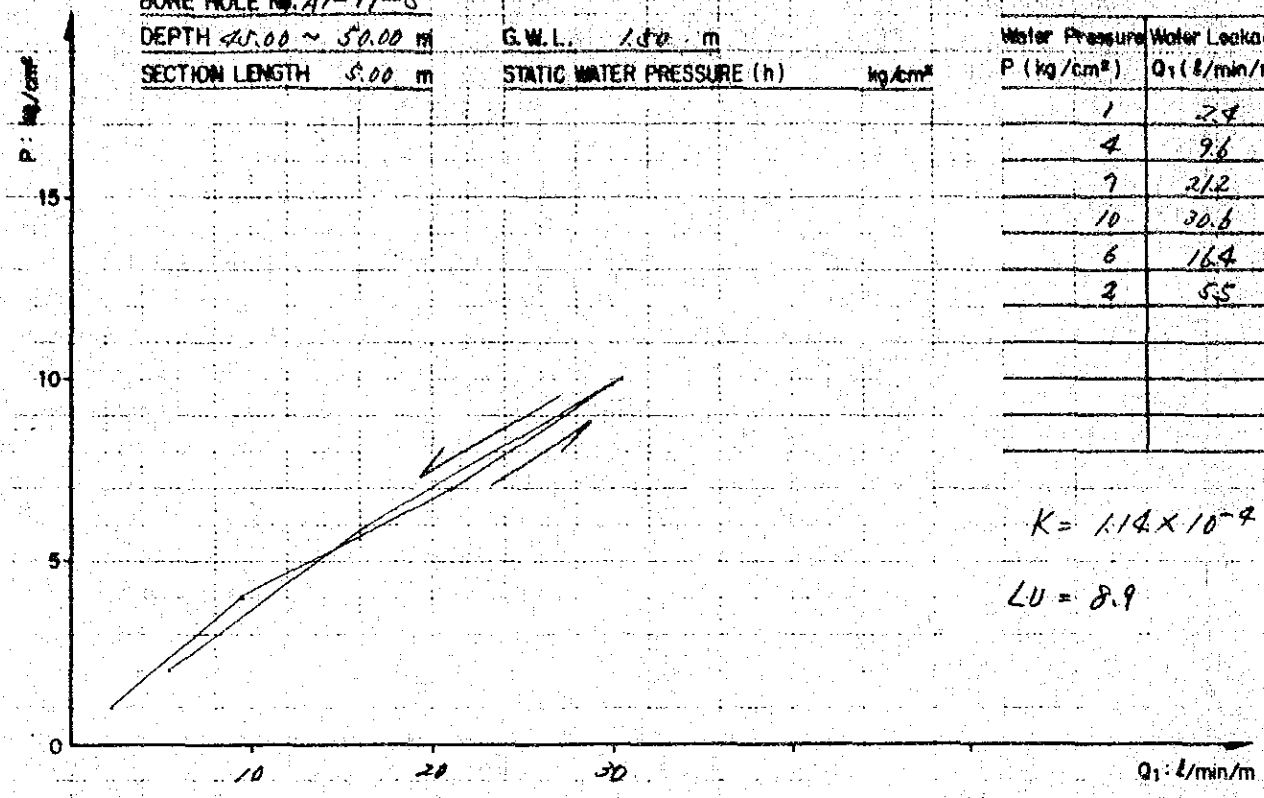
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-5
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²

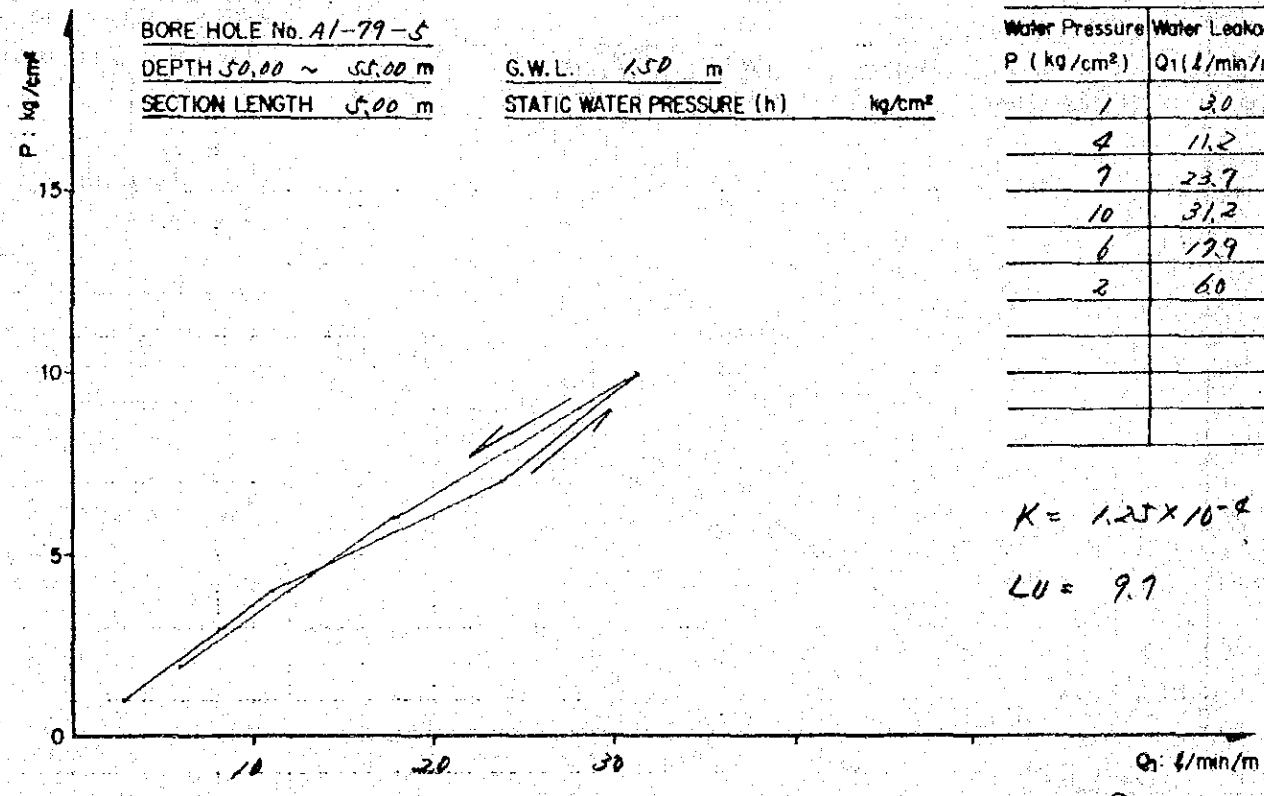


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	2.4
4	9.6
7	21.2
10	30.6
6	16.4
2	5.5

$K = 1.14 \times 10^{-2}$

$Lu = 8.9$

BORE HOLE No. A1-79-5
DEPTH 50.00 ~ 55.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.0
4	11.2
7	23.7
10	31.2
6	17.9
2	6.0

$K = 1.25 \times 10^{-2}$

$Lu = 9.7$

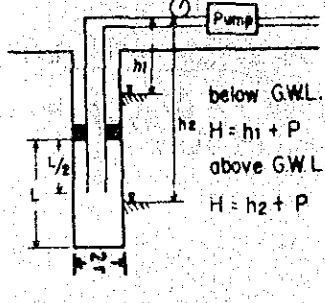
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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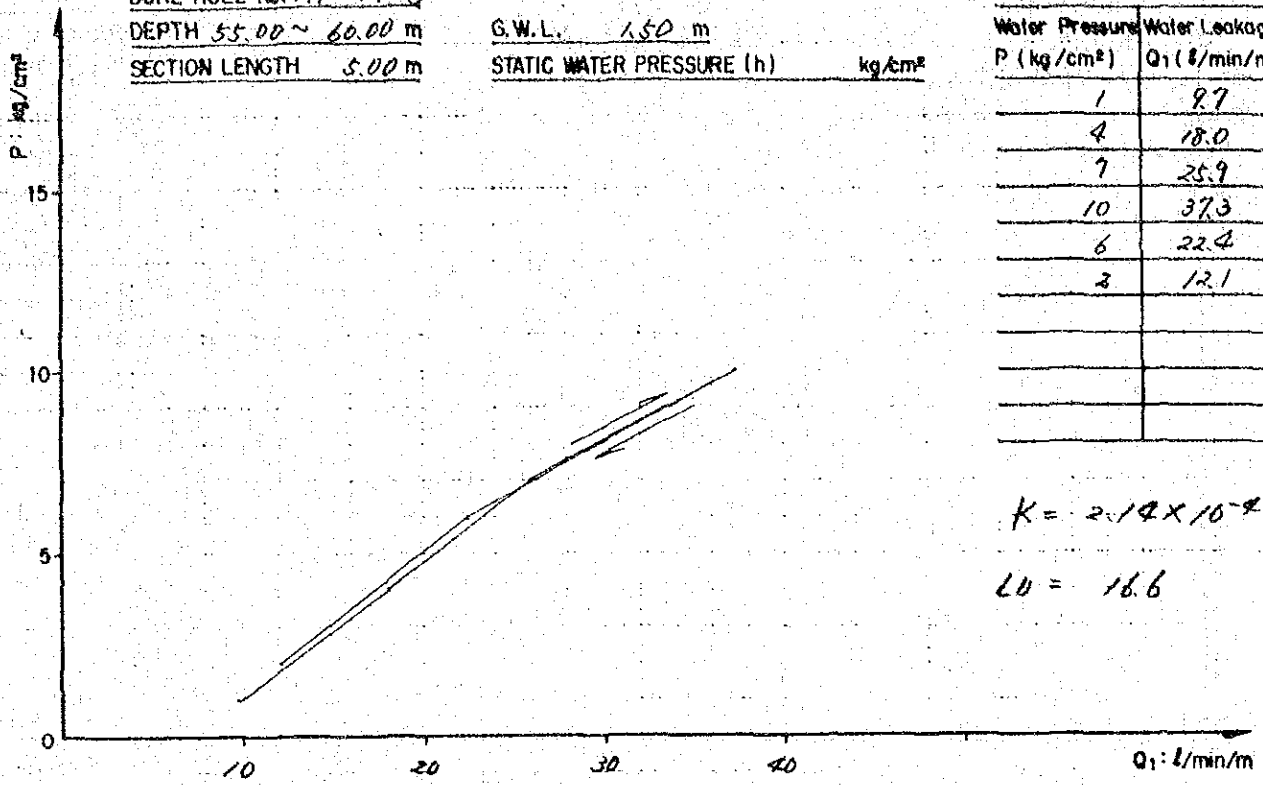
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-5
DEPTH 55.00 ~ 60.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	9.7
4	18.0
7	25.9
10	37.3
6	22.4
2	12.1

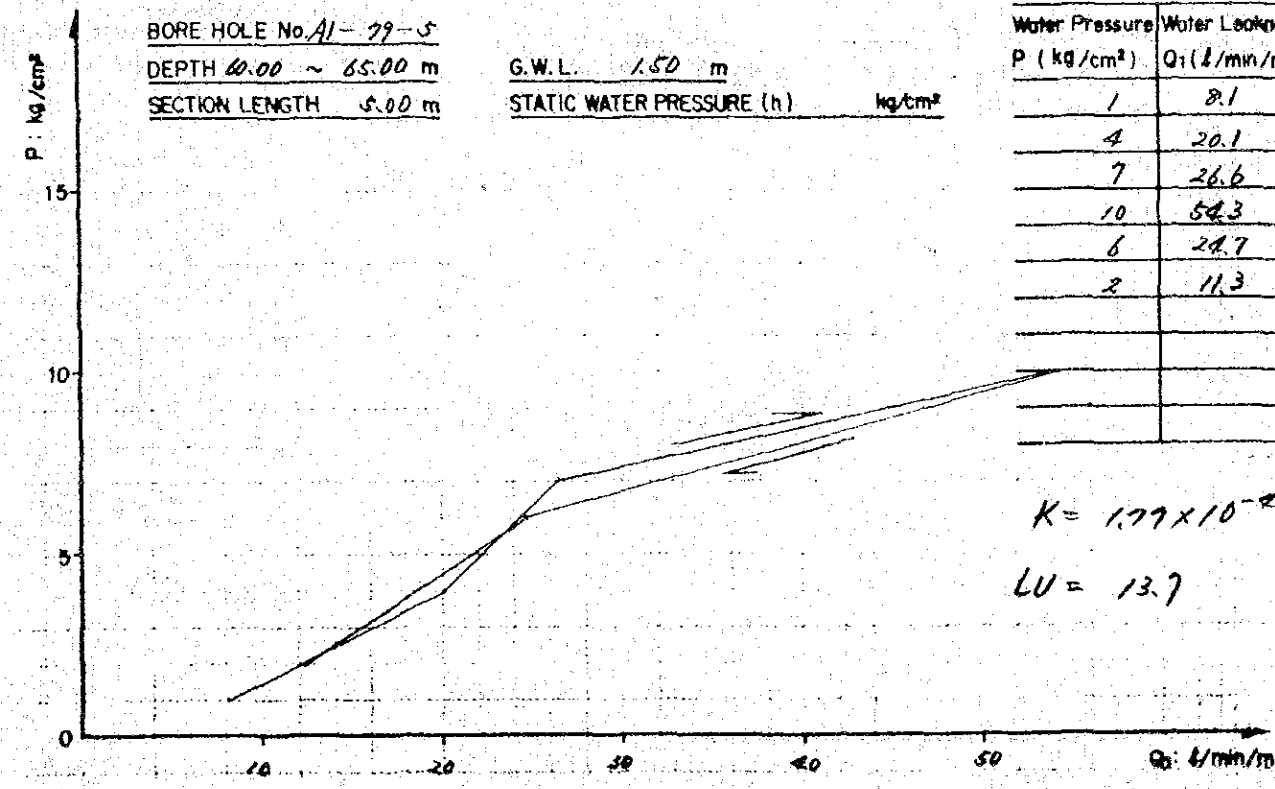


K = 2.12 × 10⁻²

Lu = 16.6

BORE HOLE No. A1-79-5
DEPTH 60.00 ~ 65.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	8.1
4	20.1
7	26.6
10	54.3
6	24.7
2	11.3



K = 1.77 × 10⁻²

Lu = 13.7

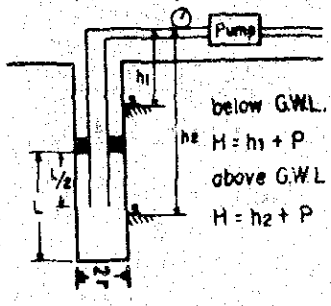
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^2$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

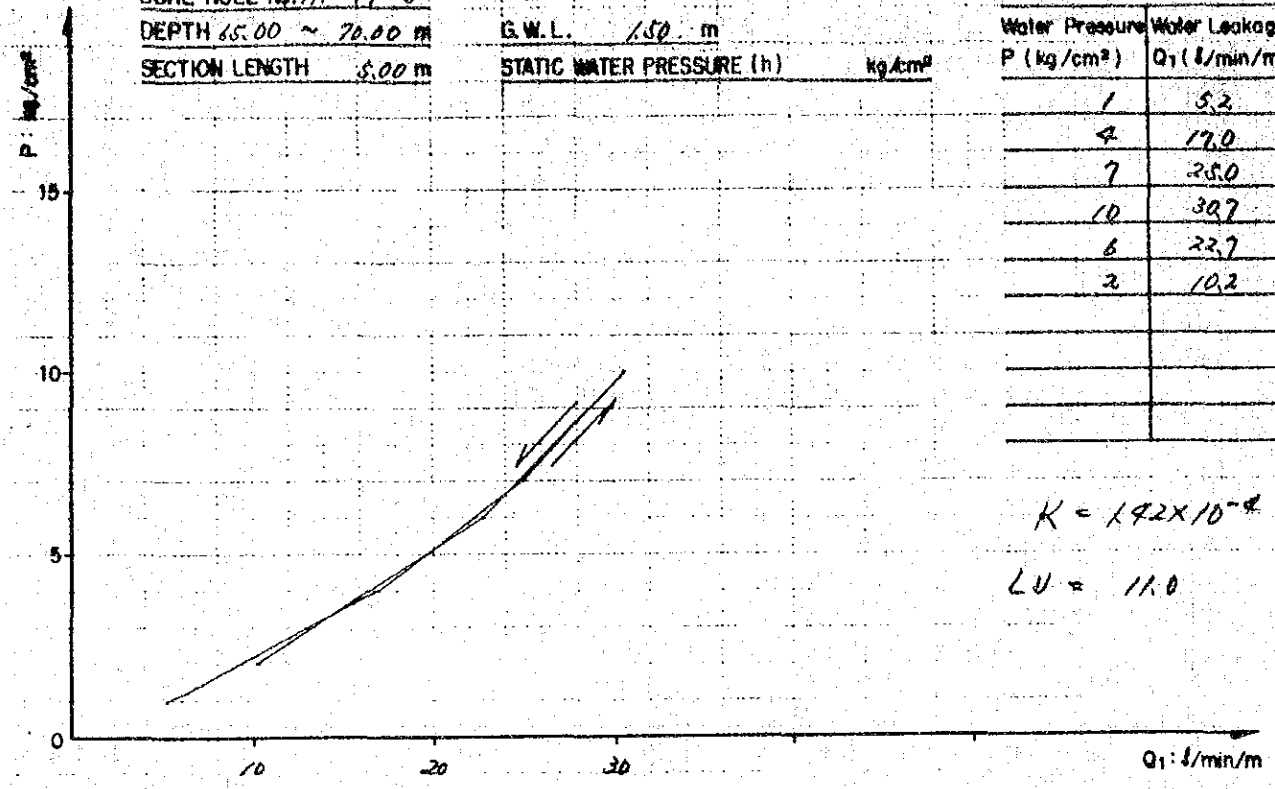
$$Q_2 = Q \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-77-5
DEPTH 65.00 ~ 70.00 m
SECTION LENGTH 5.00 m
G.W.L. 1.50 m
STATIC WATER PRESSURE (h) kg/cm²

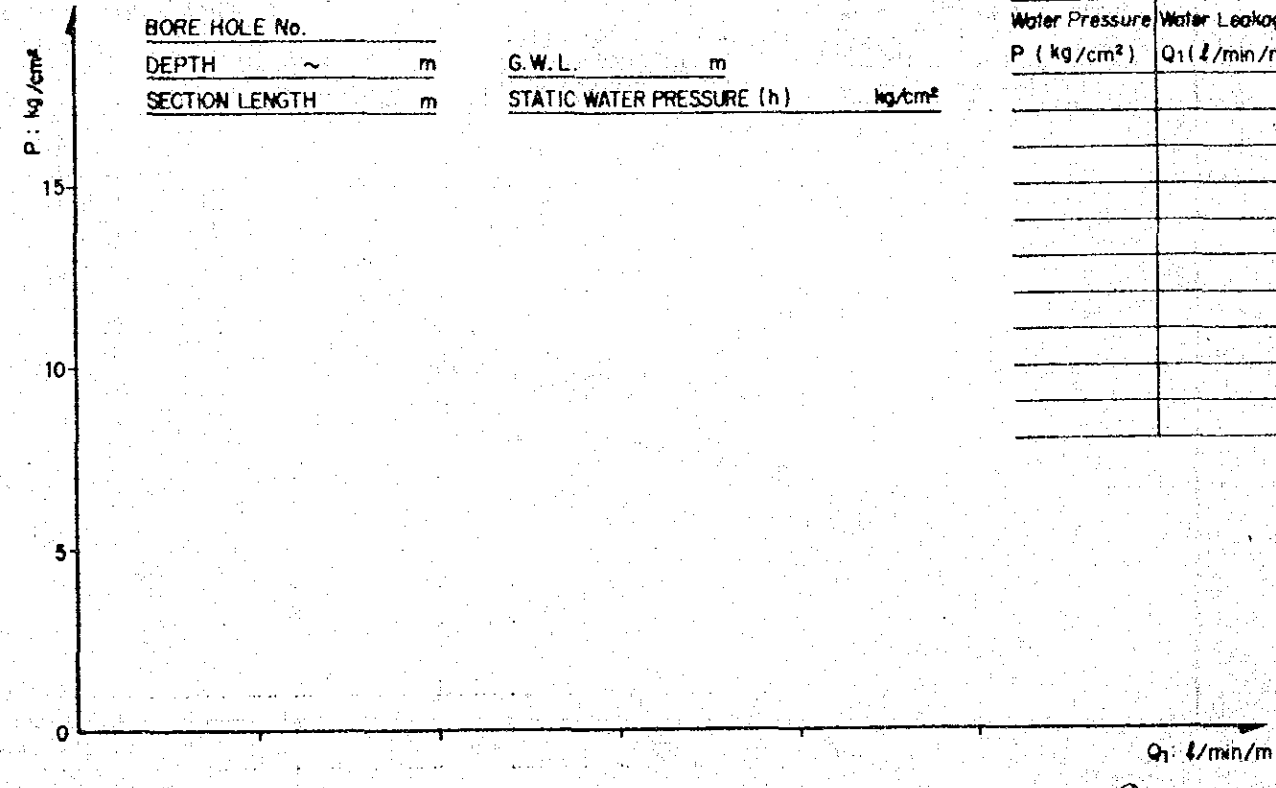


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	5.2
4	17.0
7	25.0
10	30.7
6	22.7
2	10.2

K = 1.92×10⁻²

Lu = 11.0

BORE HOLE No.
DEPTH ~ m
SECTION LENGTH m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)

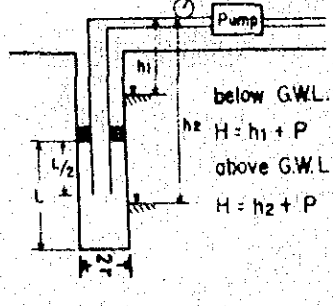
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

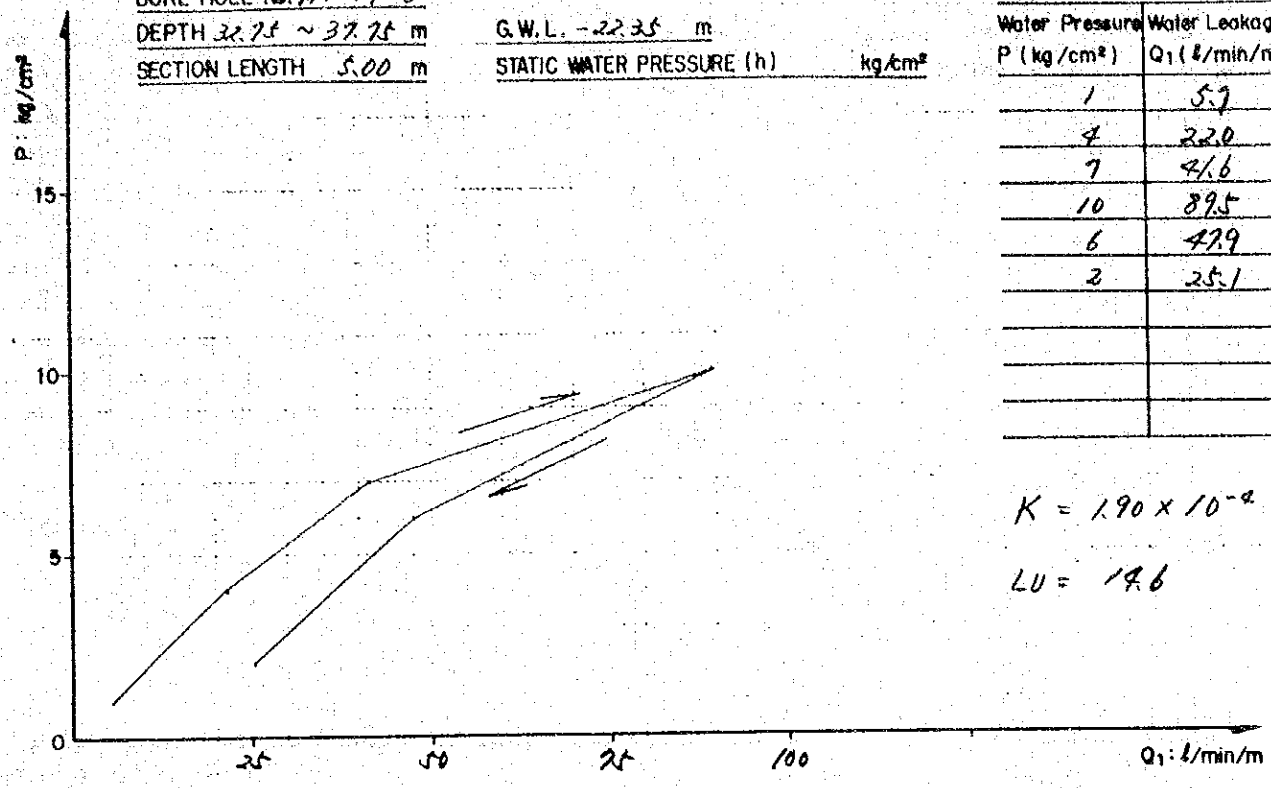
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-6
DEPTH 32.75 ~ 37.75 m
SECTION LENGTH 5.00 m
G.W.L. -22.35 m
STATIC WATER PRESSURE (h) kg/cm²

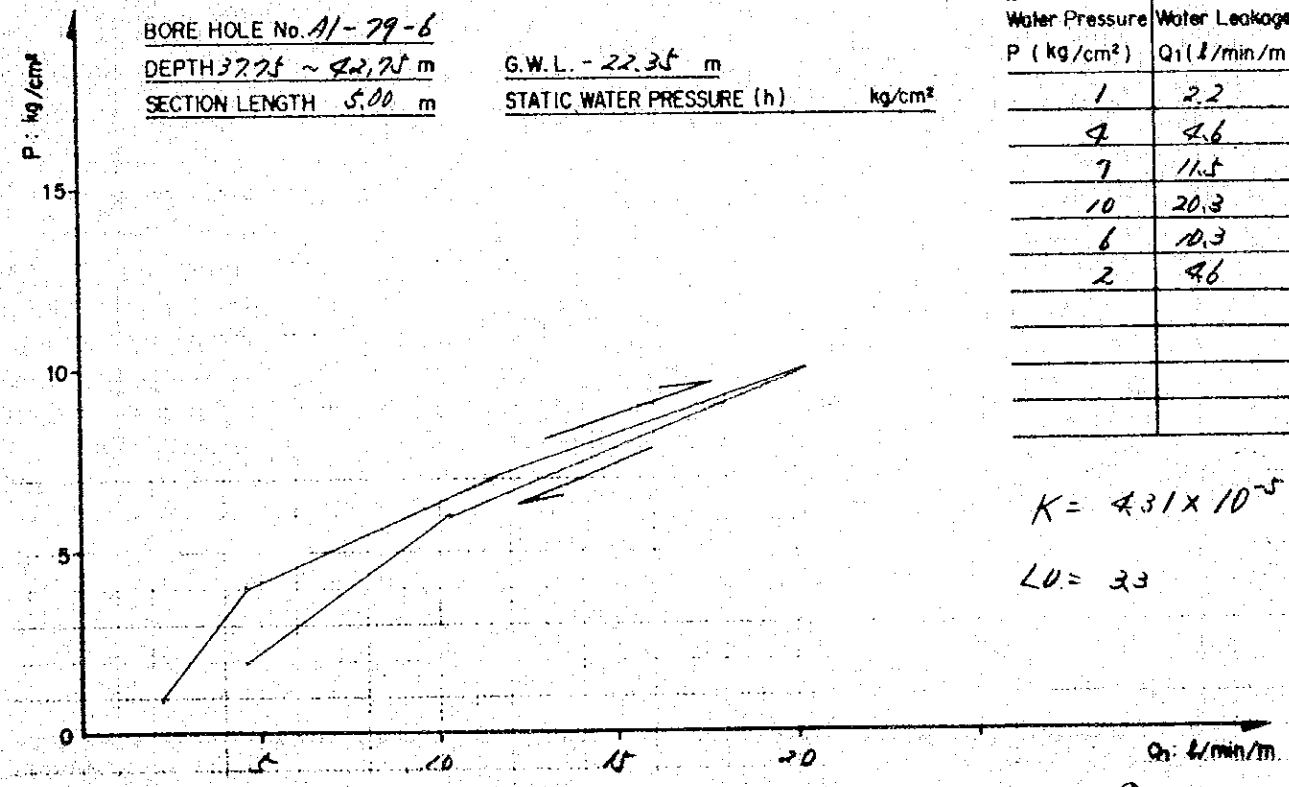


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	5.7
4	22.0
7	41.6
10	89.5
6	47.9
2	25.1

$K = 1.90 \times 10^{-4}$

$Lu = 19.6$

BORE HOLE No. A1-79-6
DEPTH 37.75 ~ 42.75 m
SECTION LENGTH 5.00 m
G.W.L. -22.35 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	2.2
4	4.6
7	11.5
10	20.3
6	10.3
2	4.6

$K = 4.31 \times 10^{-5}$

$Lu = 33$

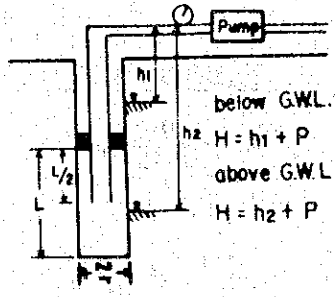
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

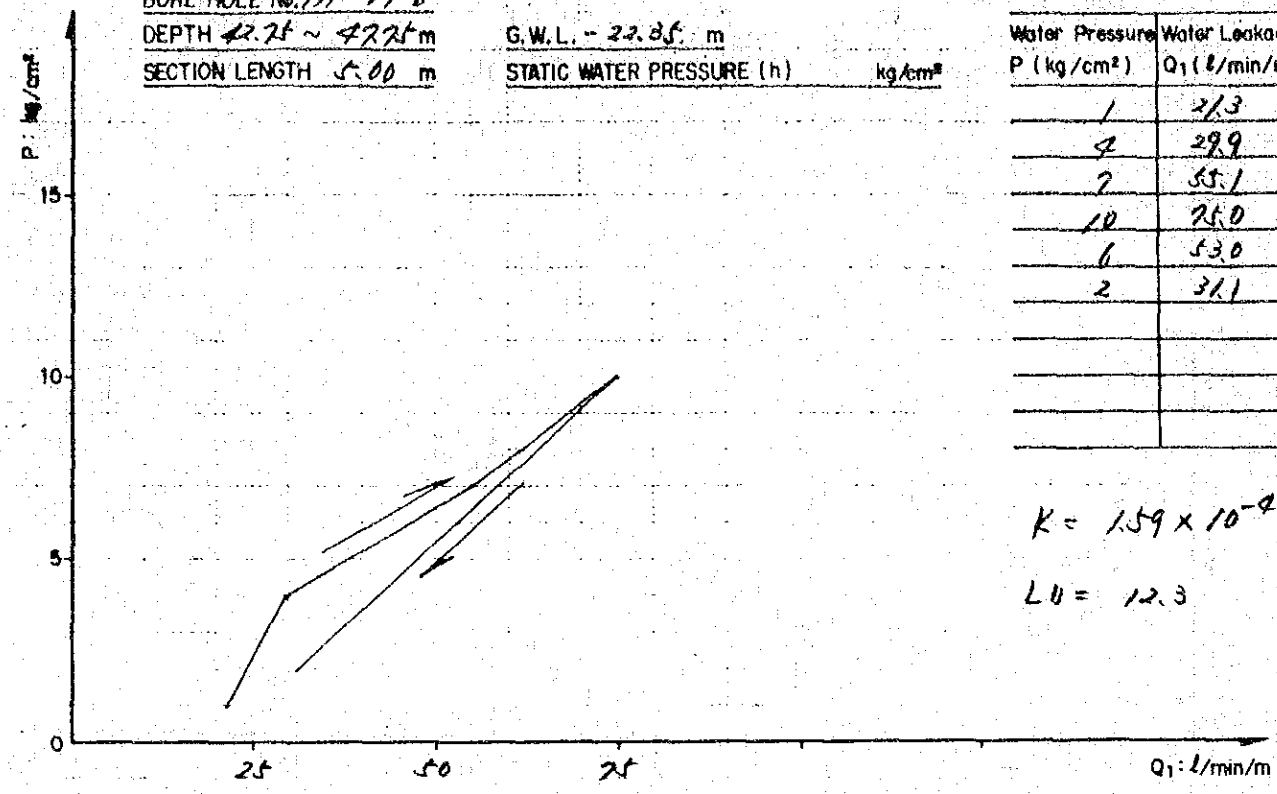
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-6
DEPTH 42.25 ~ 47.25 m
SECTION LENGTH 5.00 m
G.W.L. - 22.35 m
STATIC WATER PRESSURE (h) kg/cm²

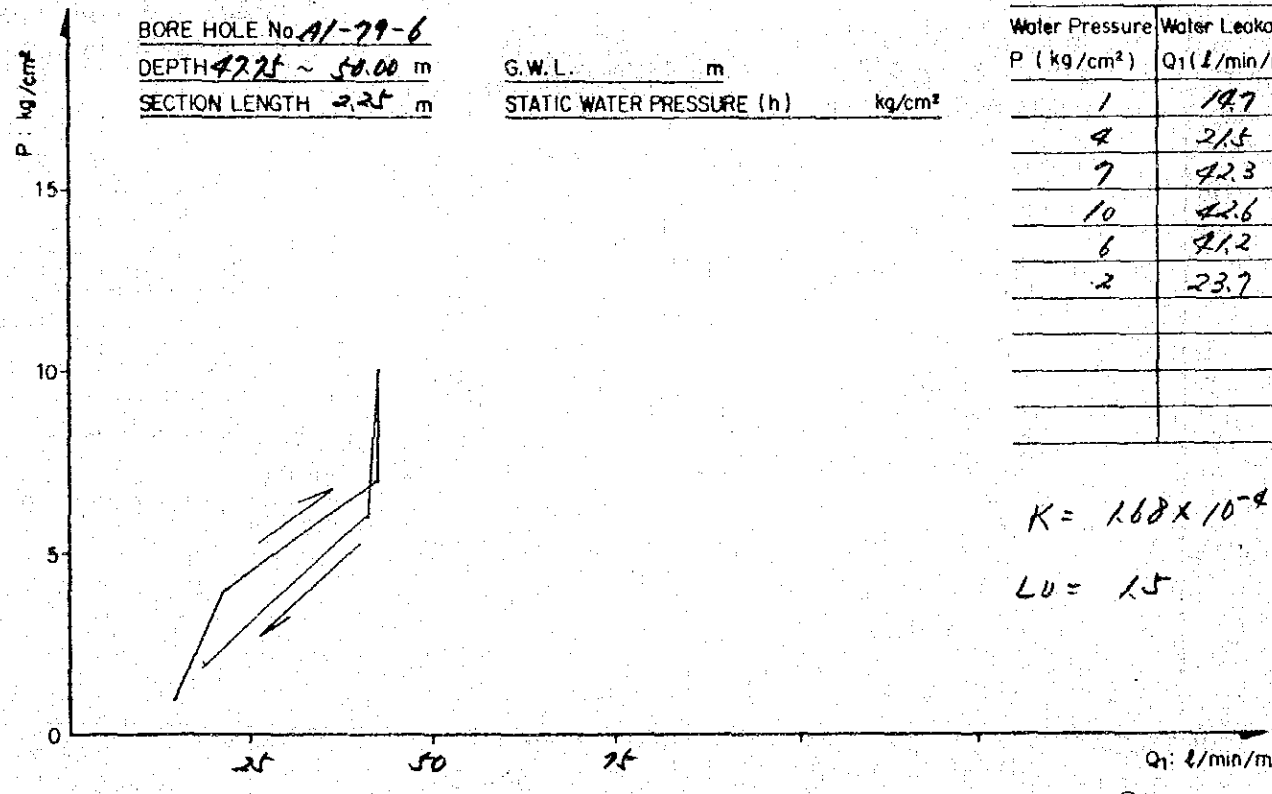


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	21.3
4	29.9
7	35.1
10	25.0
6	33.0
2	31.1

K = 1.59 × 10⁻⁴

Lu = 12.3

BORE HOLE No. A1-79-6
DEPTH 47.25 ~ 50.00 m
SECTION LENGTH 2.25 m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	19.7
4	21.5
7	42.3
10	42.6
6	41.2
2	23.7

K = 1.68 × 10⁻⁴

Lu = 15

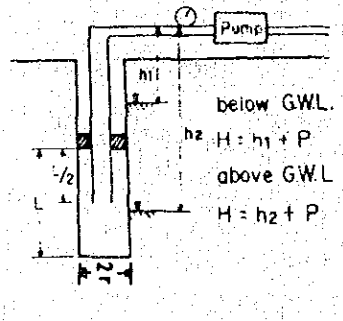
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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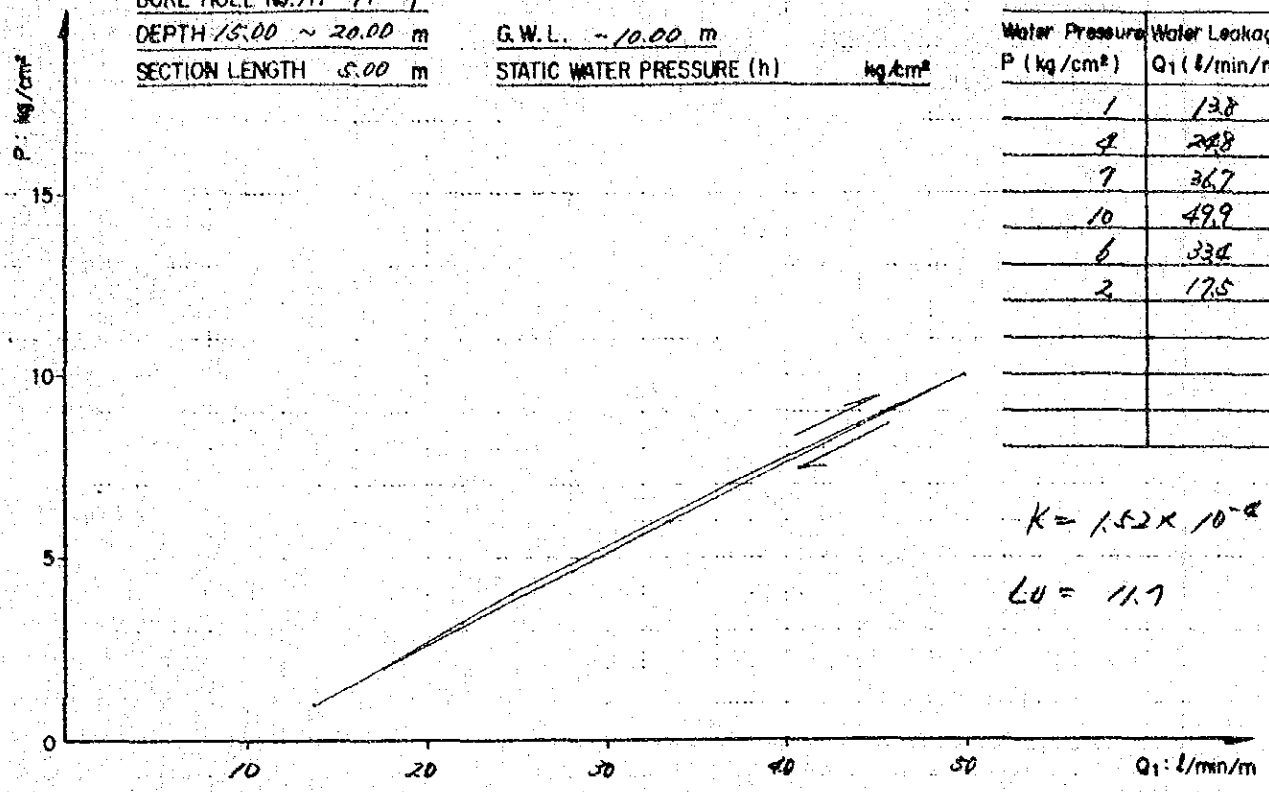
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-7
DEPTH 15.00 ~ 20.00 m
SECTION LENGTH 5.00 m
G.W.L. -10.00 m
STATIC WATER PRESSURE (h) kg/cm²

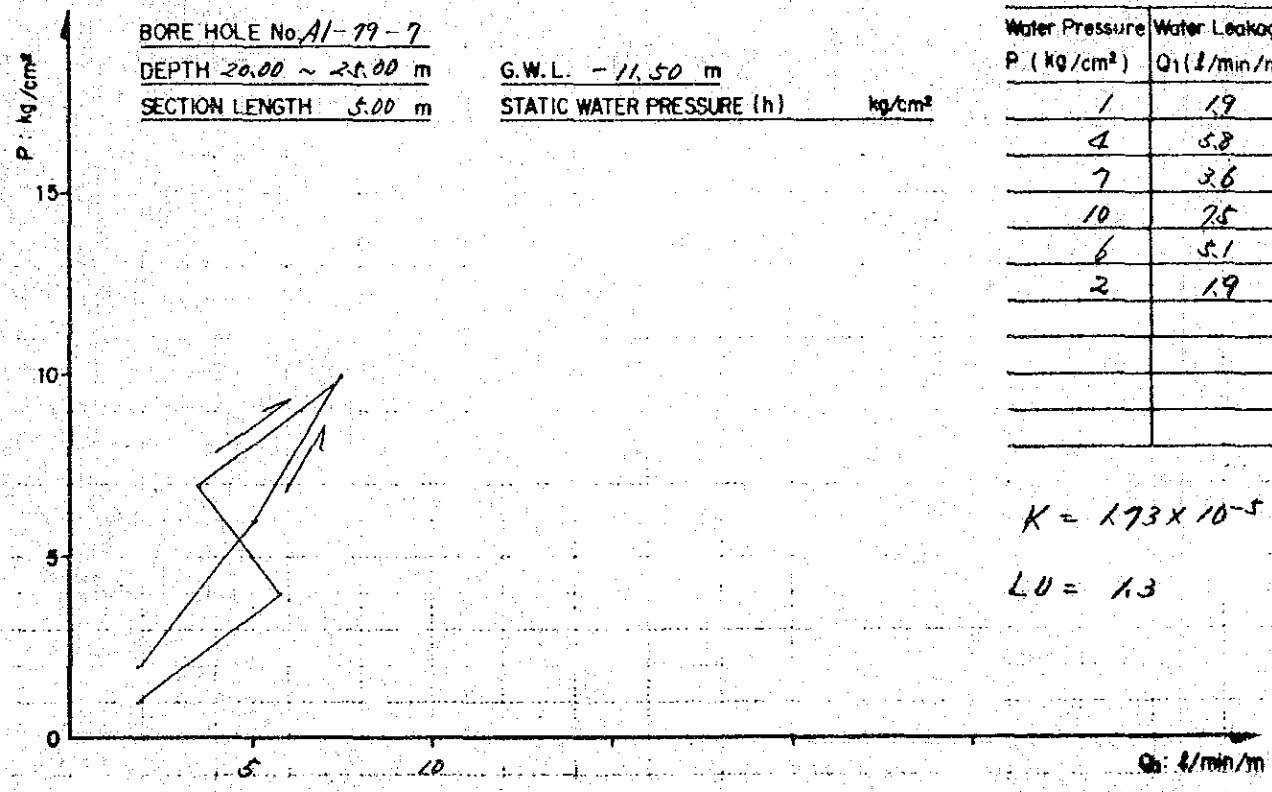
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	13.8
4	24.8
7	36.7
10	49.9
6	33.4
2	17.5



K = 1.52 × 10⁻⁴
Lu = 11.1

BORE HOLE No. A1-79-7
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. -11.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	1.9
4	5.8
7	9.6
10	7.5
6	5.1
2	1.9



K = 1.73 × 10⁻⁵
Lu = 1.3

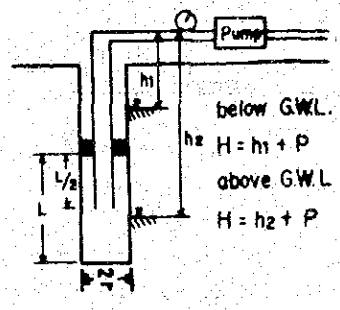
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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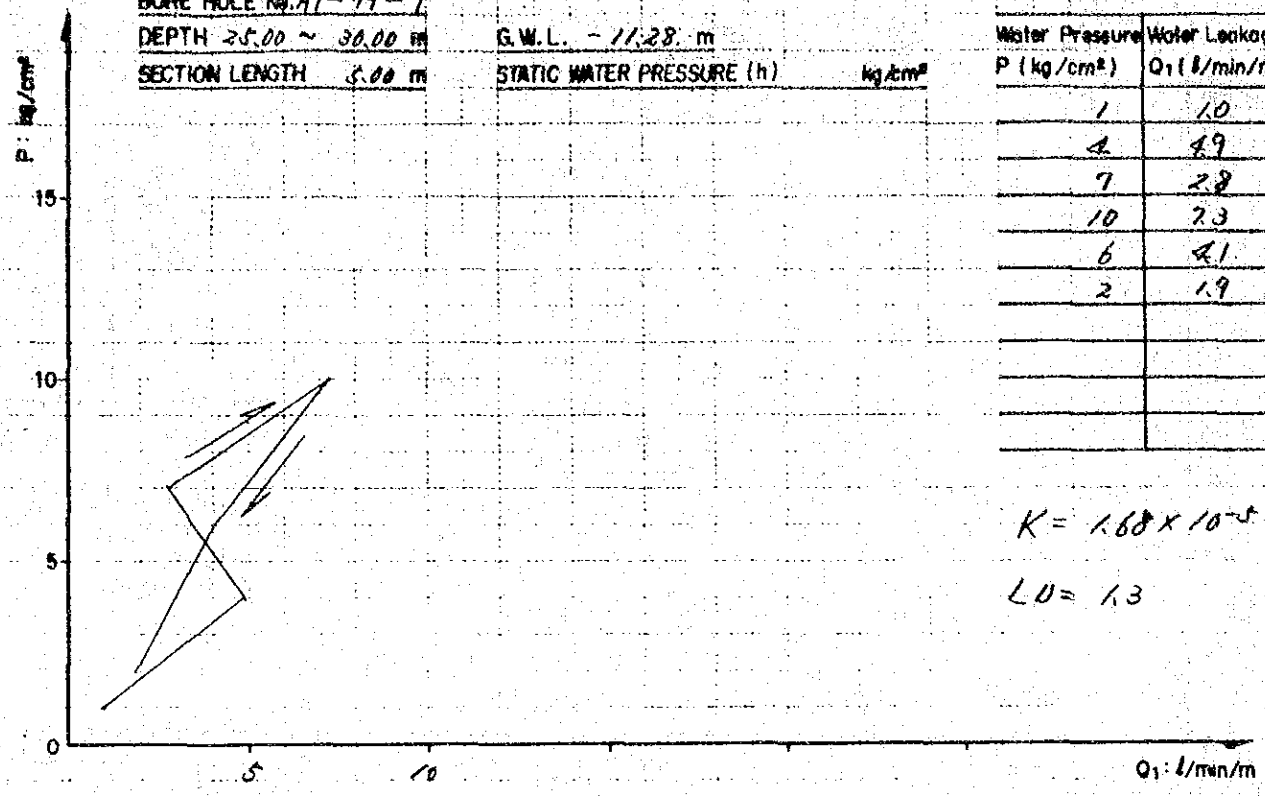
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1 – 79 – 7
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. – 11.28 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (l/min/m)
1	1.0
4	4.9
7	2.8
10	2.3
6	4.1
2	1.9

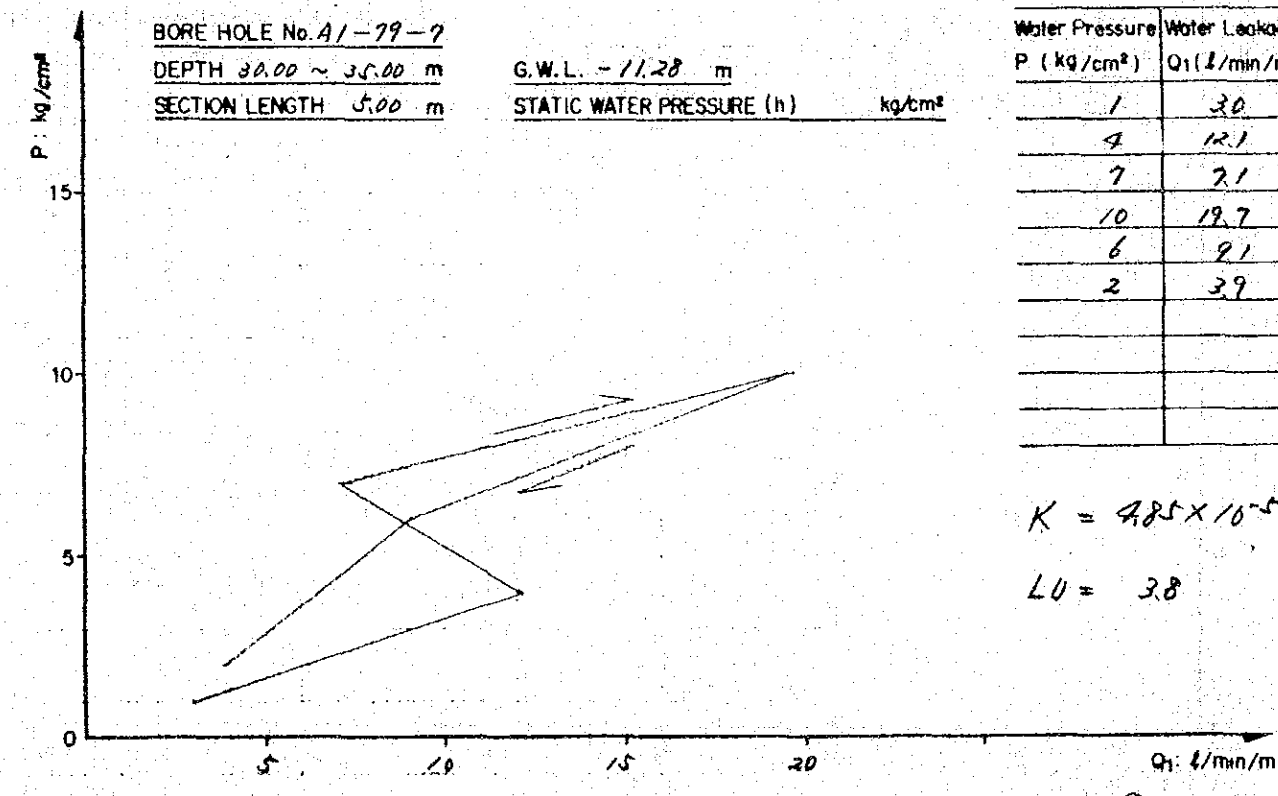


K = 1.68 × 10⁻⁵

Lu = 1.3

BORE HOLE No. A1 – 79 – 7
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. – 11.28 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (l/min/m)
1	3.0
4	12.1
7	7.1
10	19.7
6	9.1
2	3.9



K = 4.85 × 10⁻⁵

Lu = 3.8

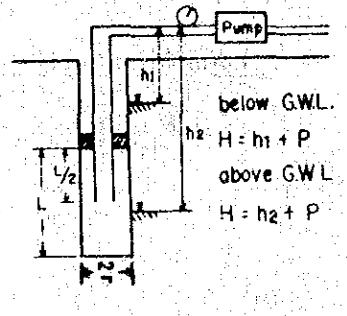
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

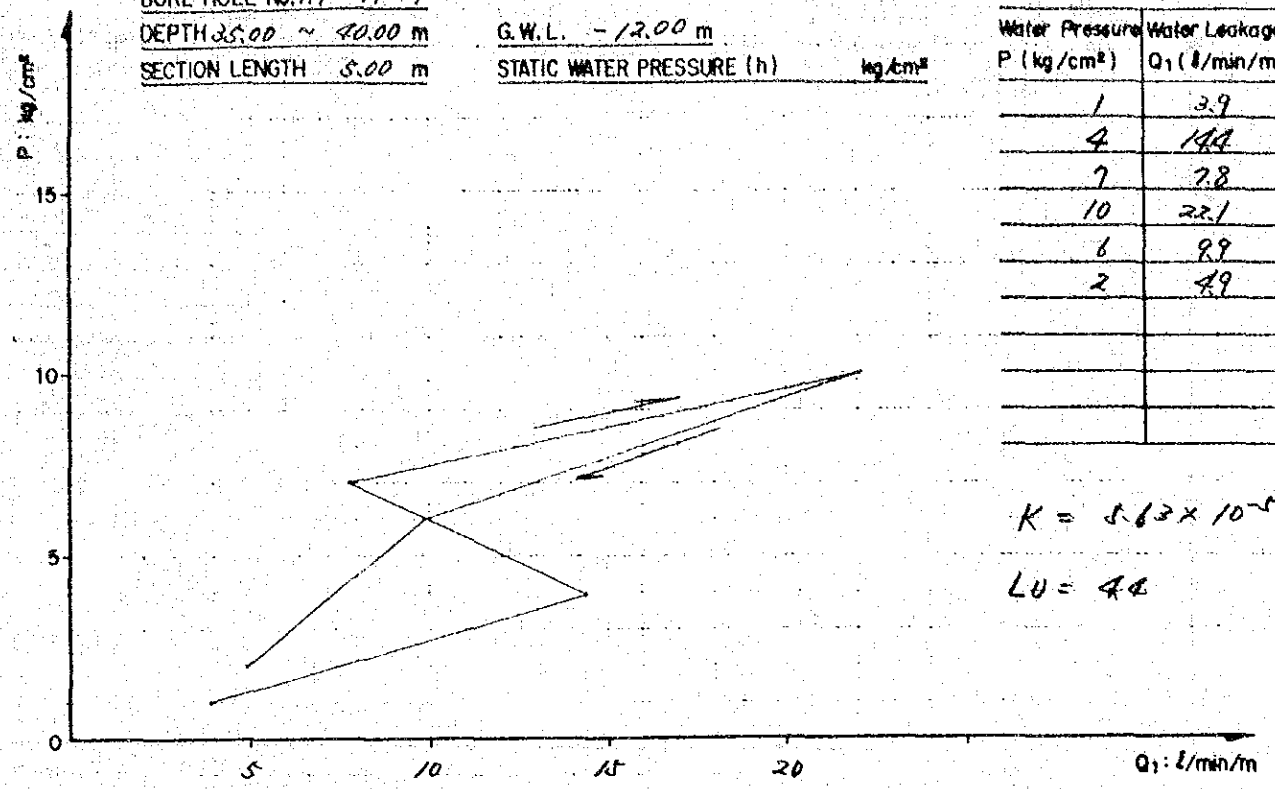
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-7
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. -12.00 m
STATIC WATER PRESSURE (h) kg/cm²

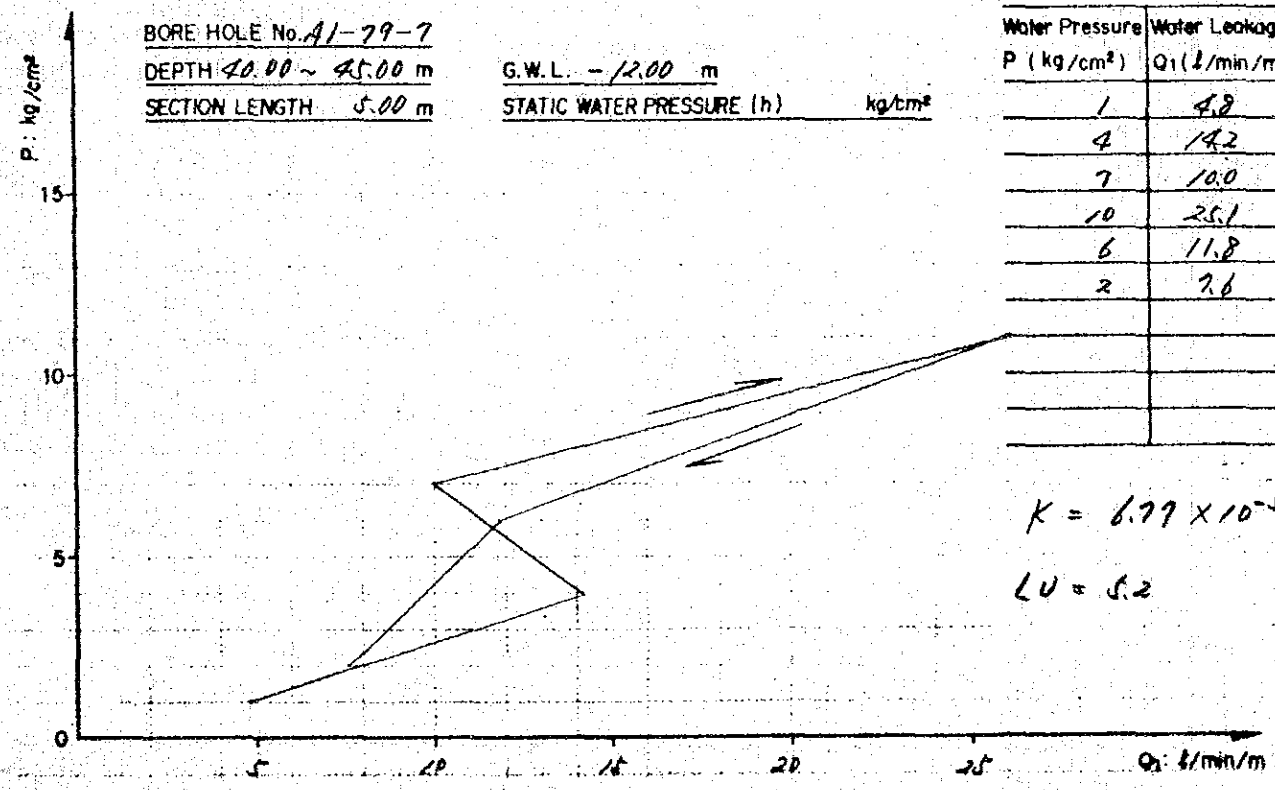


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	3.9
4	14.4
7	7.8
10	22.1
6	9.9
2	4.9

$K = 5.63 \times 10^{-5}$

$Lu = 4.6$

BORE HOLE No. A1-79-7
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. -12.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	4.8
4	14.2
7	10.0
10	25.1
6	11.8
2	7.6

$K = 6.77 \times 10^{-5}$

$Lu = 5.2$

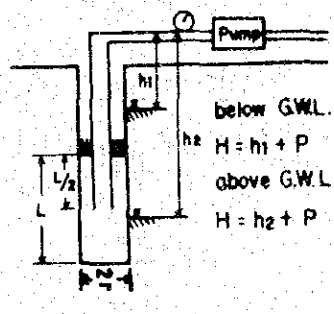
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.30 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$

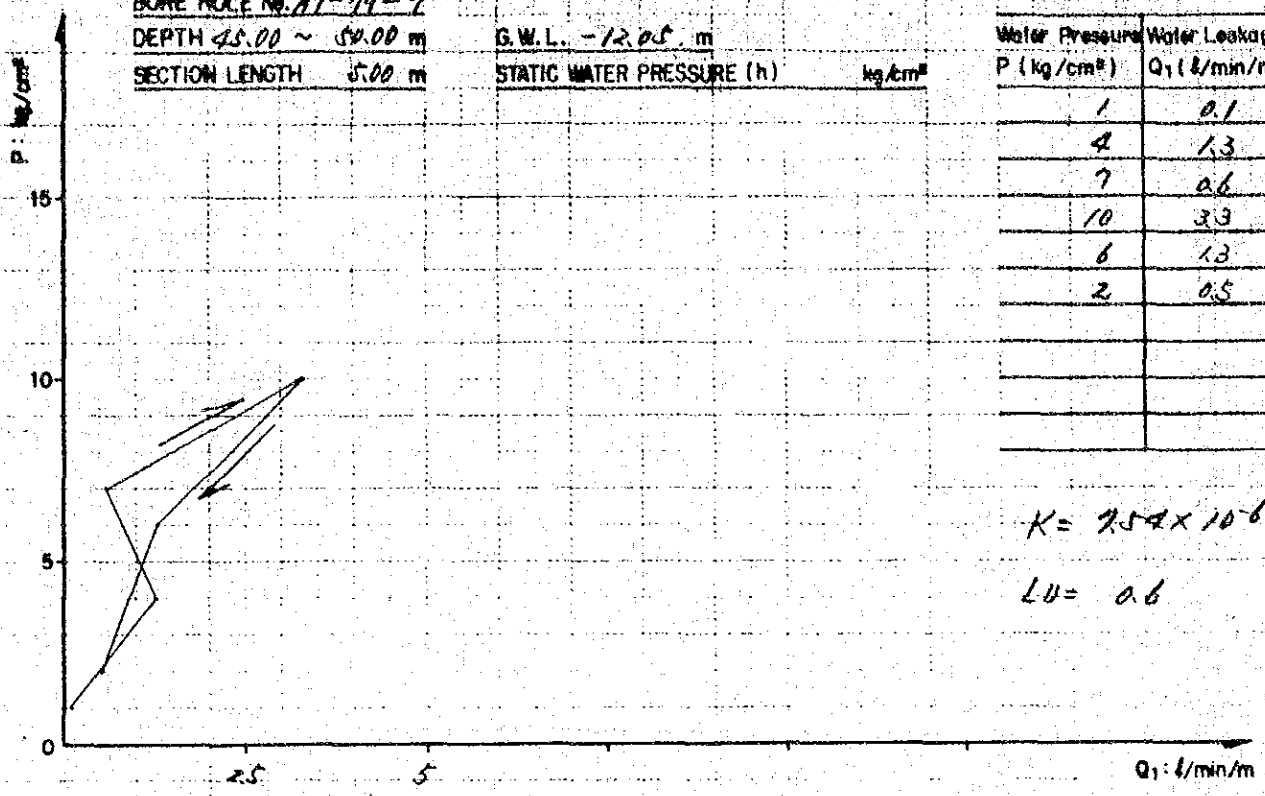


WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-29-2
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH 5.00 m
G.W.L. -12.05 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	0.1
4	1.3
7	0.6
10	3.3
6	1.3
2	0.5

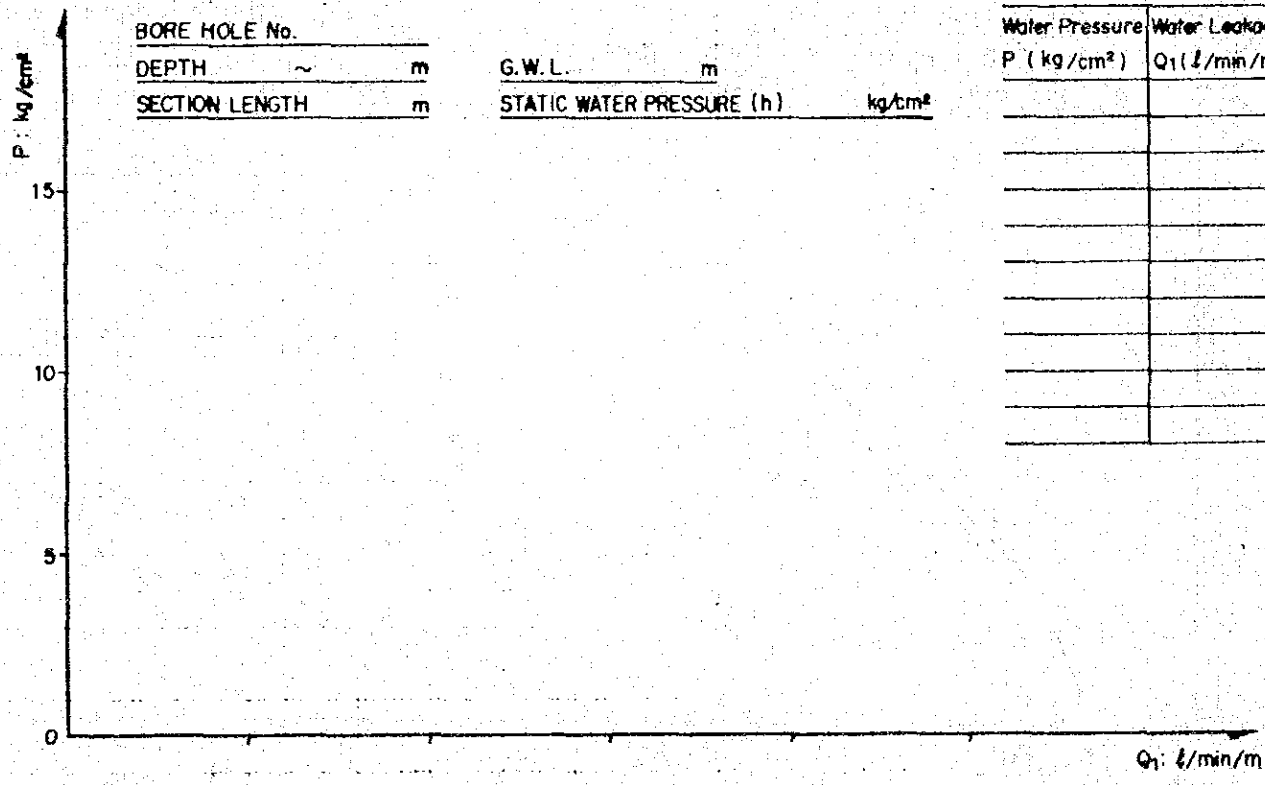


K = 2.54 × 10⁻⁶

Lu = 0.6

BORE HOLE No.
DEPTH ~ m
SECTION LENGTH m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)



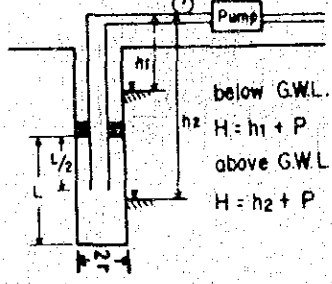
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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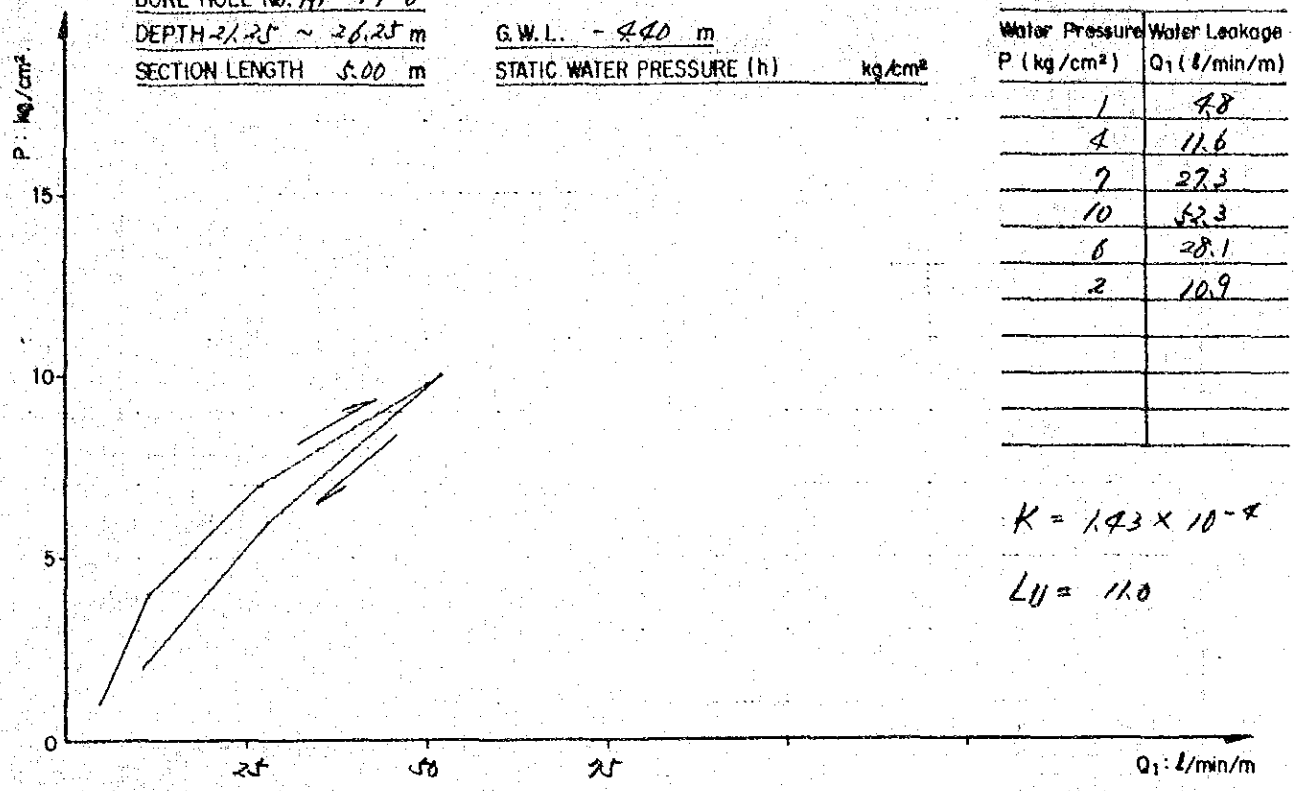
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-8
DEPTH 21.25 ~ 26.25 m
SECTION LENGTH 5.00 m
G.W.L. - 4.40 m
STATIC WATER PRESSURE (h) kg/cm²

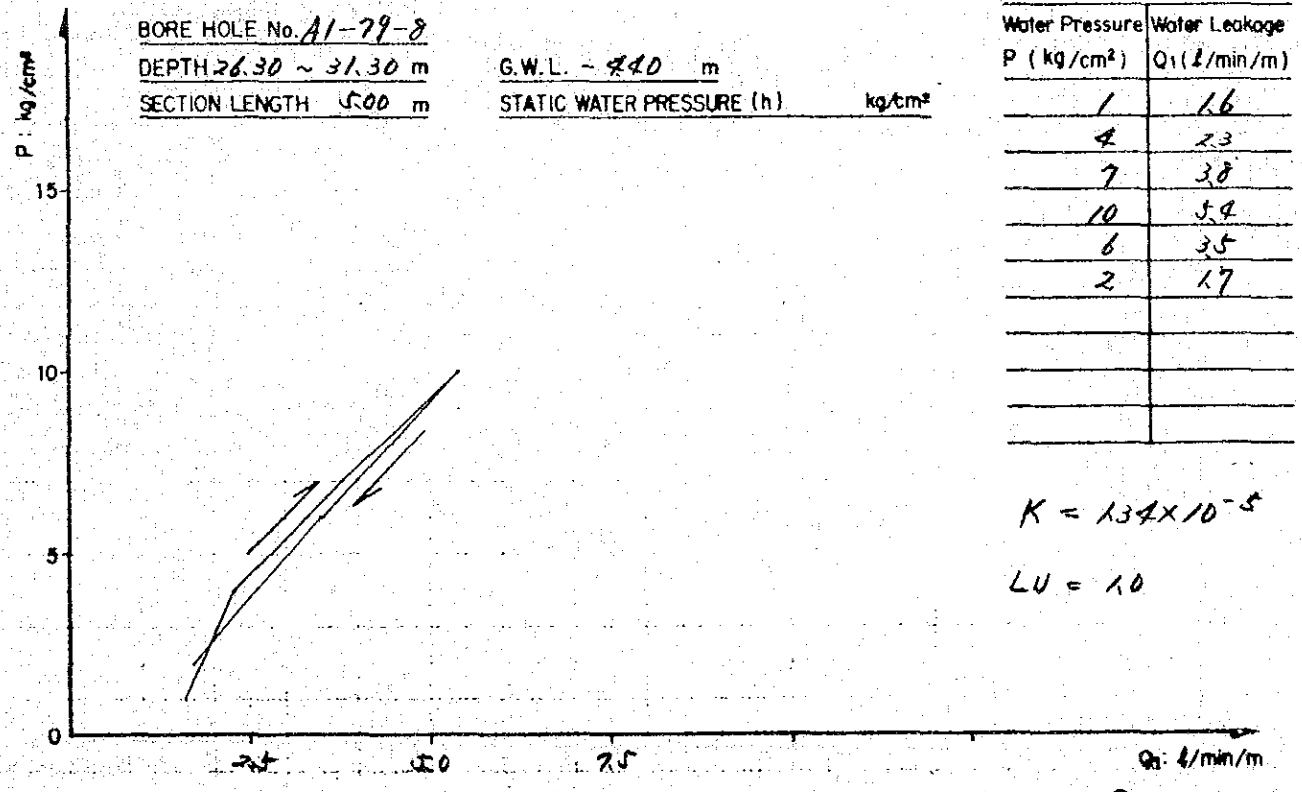


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	4.8
4	11.6
7	27.3
10	53.3
6	28.1
2	10.9

$K = 1.43 \times 10^{-4}$

$Lu = 11.0$

BORE HOLE No. A1-79-8
DEPTH 26.30 ~ 31.30 m
SECTION LENGTH 5.00 m
G.W.L. - 4.40 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	1.6
4	2.3
7	3.8
10	5.4
6	3.5
2	1.7

$K = 1.34 \times 10^{-5}$

$LU = 1.0$

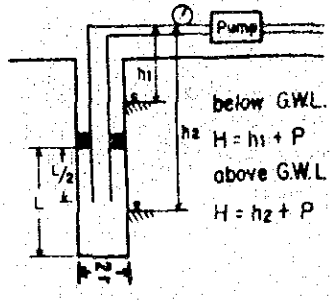
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

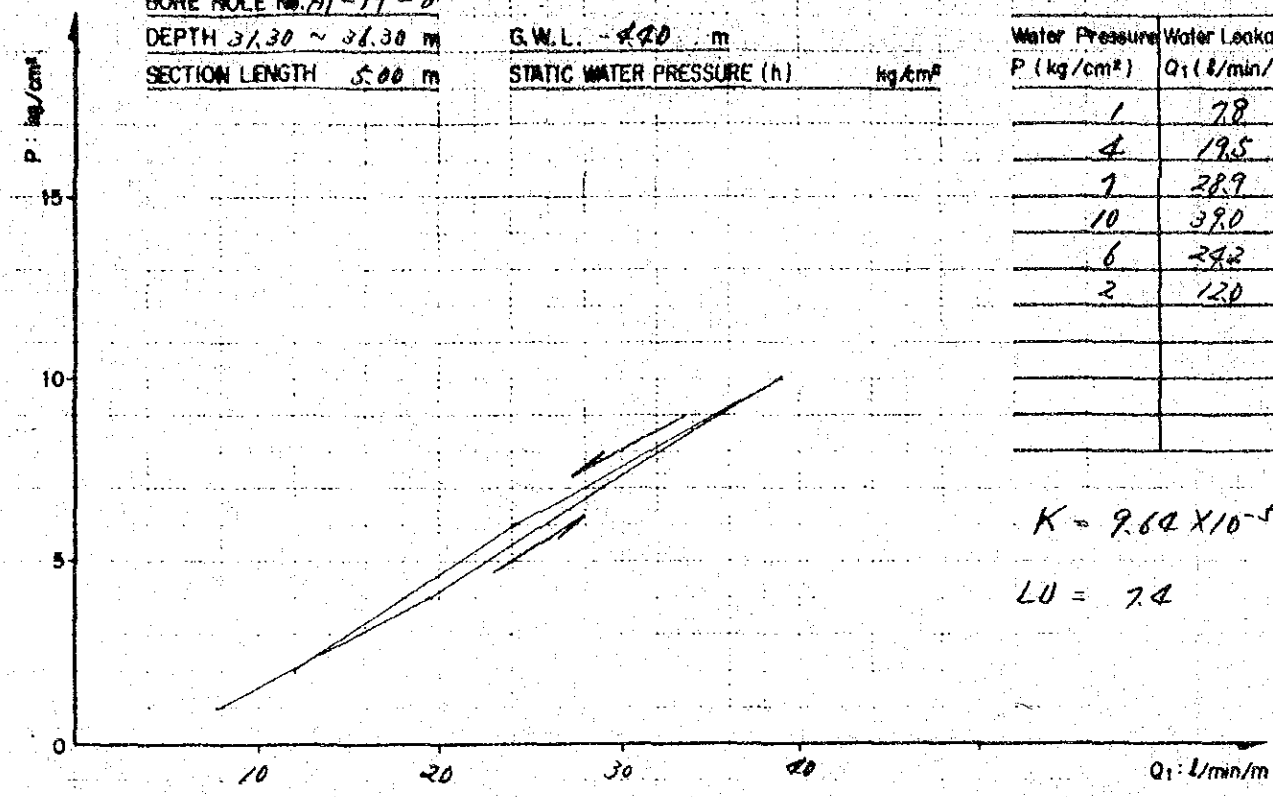
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-8
DEPTH 31.30 ~ 36.30 m
SECTION LENGTH 5.00 m
G.W.L. -4.40 m
STATIC WATER PRESSURE (h) kg/cm²

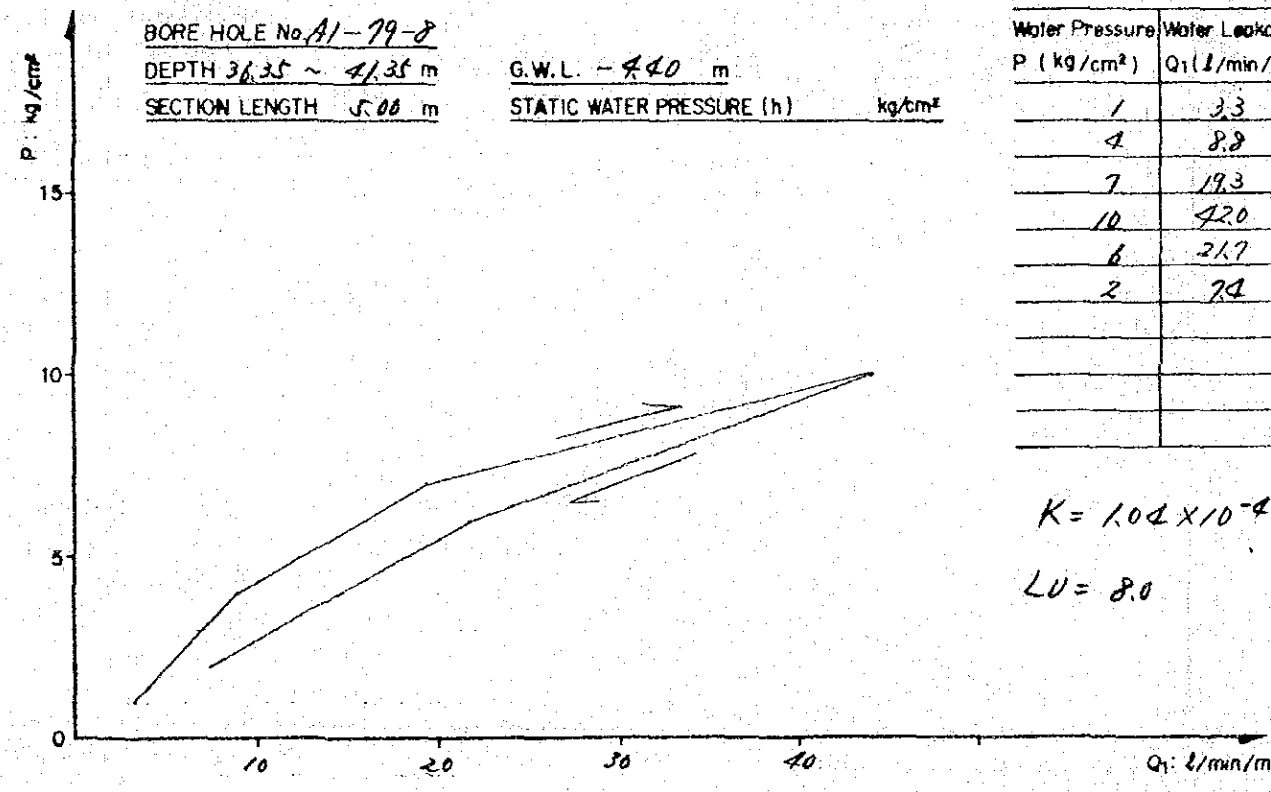


Water Pressure P (kg/cm²)	Water Leakage Q1 (l/min/m)
1	7.8
4	19.5
7	28.9
10	39.0
6	24.2
2	12.0

K = 9.64 X 10⁻⁴

LU = 7.4

BORE HOLE No. A1-79-8
DEPTH 36.35 ~ 41.35 m
SECTION LENGTH 5.00 m
G.W.L. -4.40 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (l/min/m)
1	3.3
4	8.8
7	19.3
10	42.0
6	21.7
2	7.4

K = 1.04 X 10⁻³

LU = 8.0

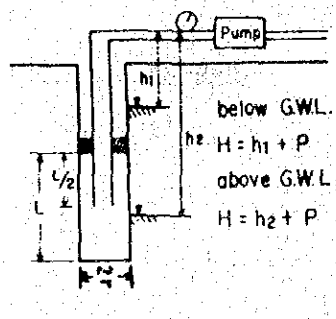
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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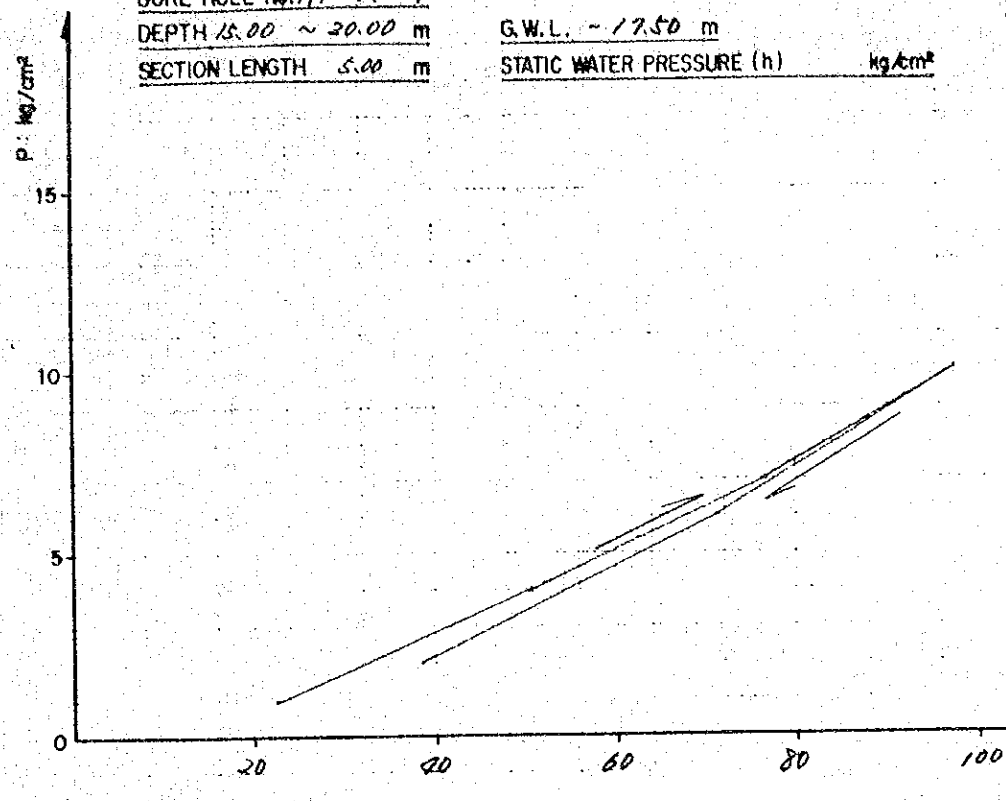
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-19-9
DEPTH 15.00 ~ 20.00 m
SECTION LENGTH 5.00 m

G.W.L. - 17.50 m
STATIC WATER PRESSURE (h) kg/cm²



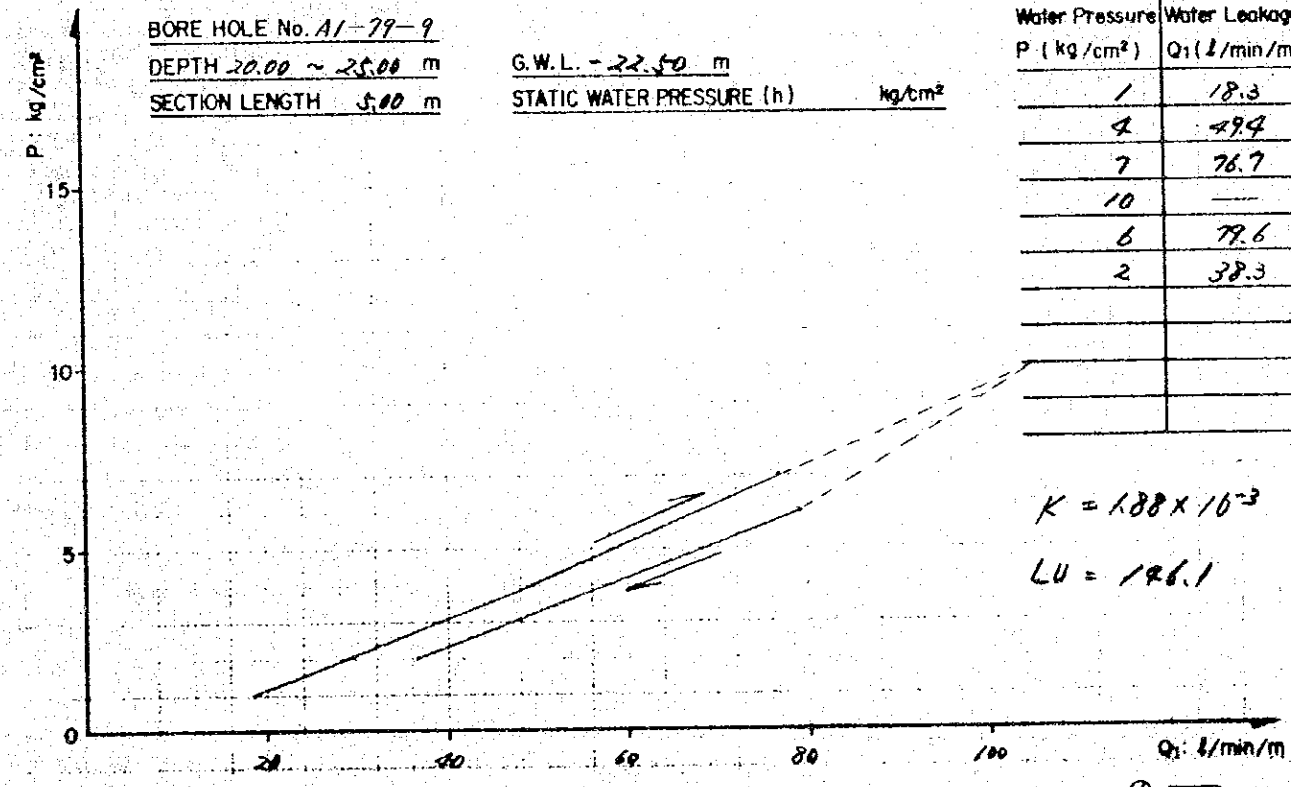
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	23.0
4	50.5
7	76.6
10	97.8
6	71.4
2	38.8

K = 1.45 × 10⁻³

Lu = 112.2

BORE HOLE No. A1-19-9
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m

G.W.L. - 22.50 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	18.3
4	49.4
7	76.7
10	—
6	79.6
2	38.3

K = 1.88 × 10⁻³

Lu = 126.1

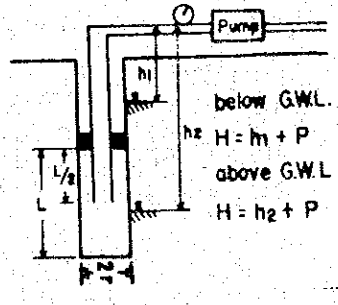
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

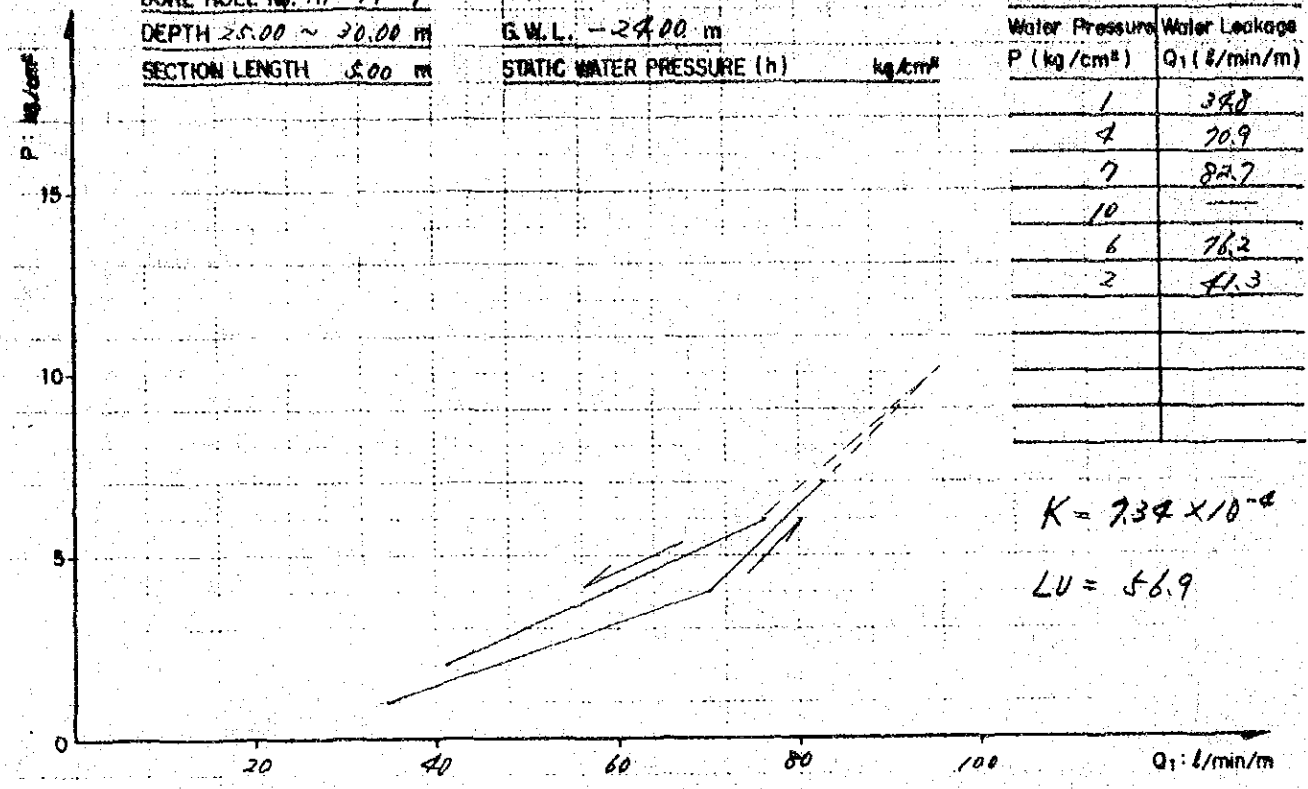
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-8
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²

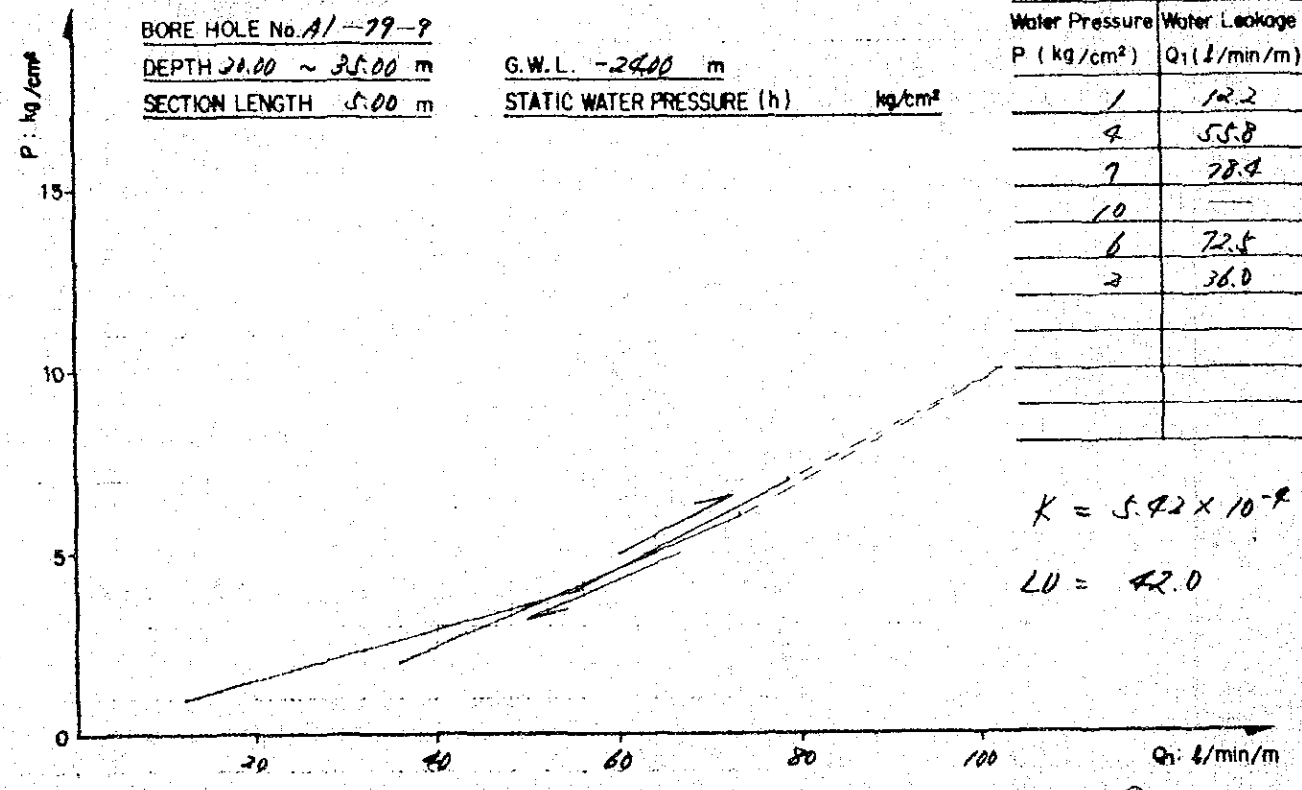


Water Pressure P (kg/cm²)	Water Leakage Q1 (l/min/m)
1	39.8
4	70.9
7	82.7
10	—
6	76.2
2	41.3

K = 7.34 × 10⁻⁴

Lu = 56.9

BORE HOLE No. A1-79-9
DEPTH 31.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (l/min/m)
1	12.2
4	55.8
7	78.4
10	—
6	72.5
2	36.0

K = 5.42 × 10⁻⁴

Lu = 42.0

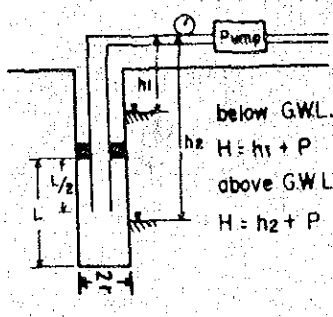
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^5$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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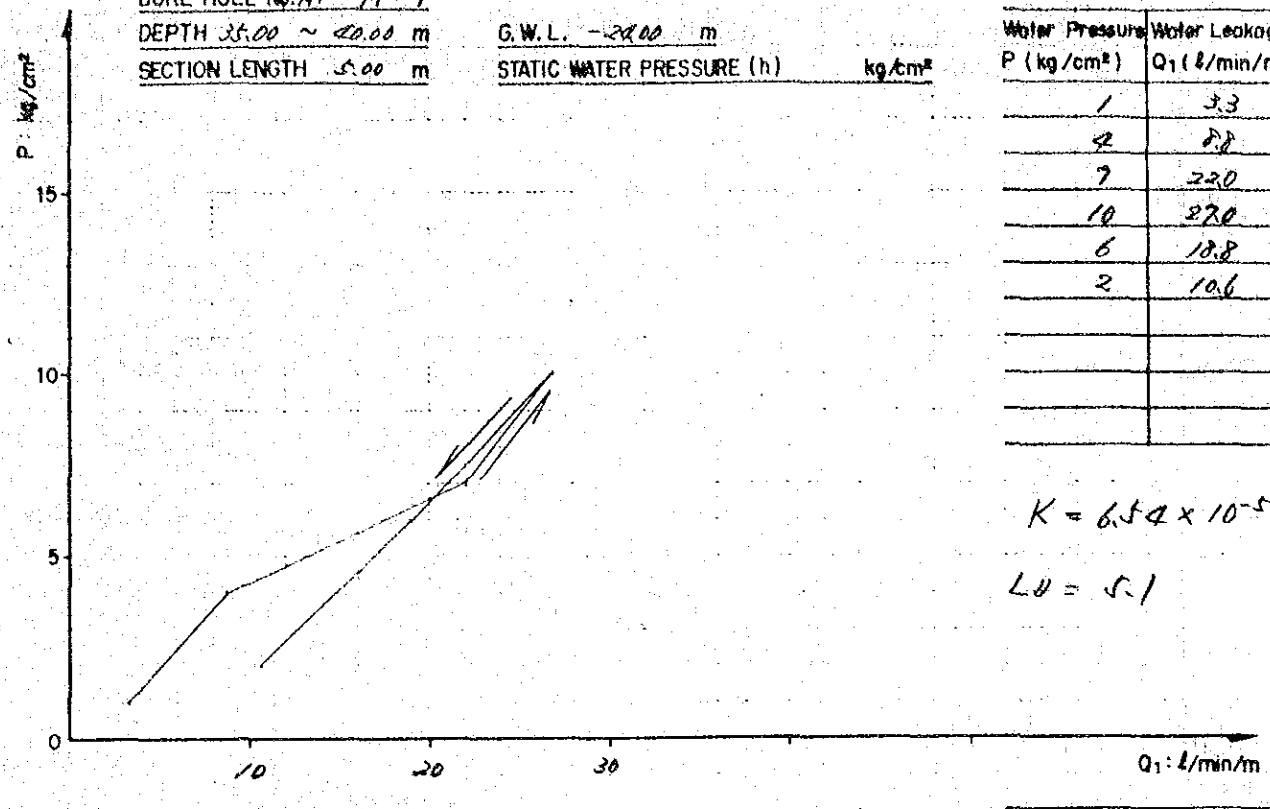
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1 − 79 − 9
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. −2.00 m
STATIC WATER PRESSURE (h) kg/cm²

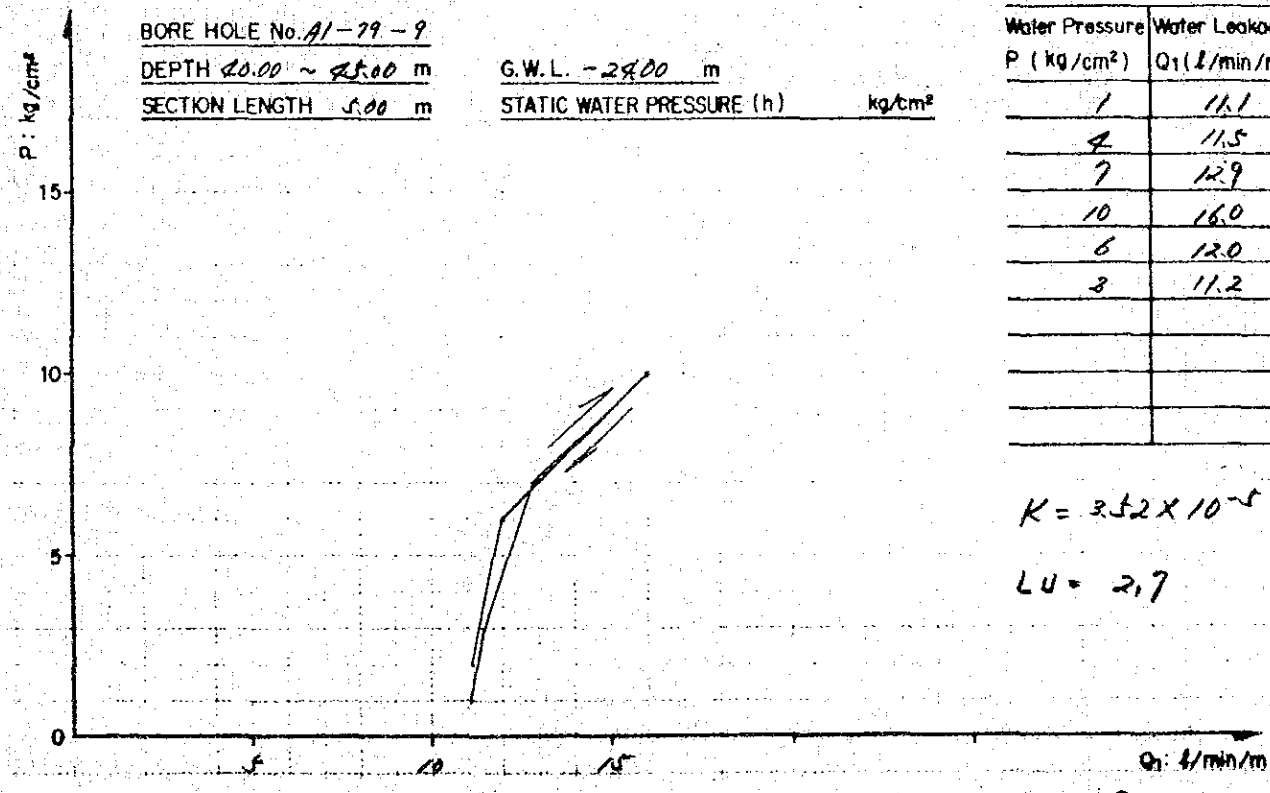
Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	3.3
4	8.8
7	22.0
10	22.0
6	18.8
2	10.6



K = 6.54 × 10⁻⁵
Lu = 5.1

BORE HOLE No. A1 − 79 − 9
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. −2.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	11.1
4	11.5
7	12.9
10	16.0
6	12.0
3	11.2



K = 3.52 × 10⁻⁵
Lu = 2.7

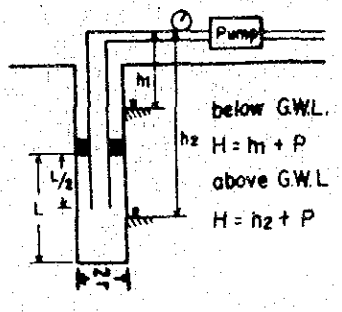
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{T}$$

$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

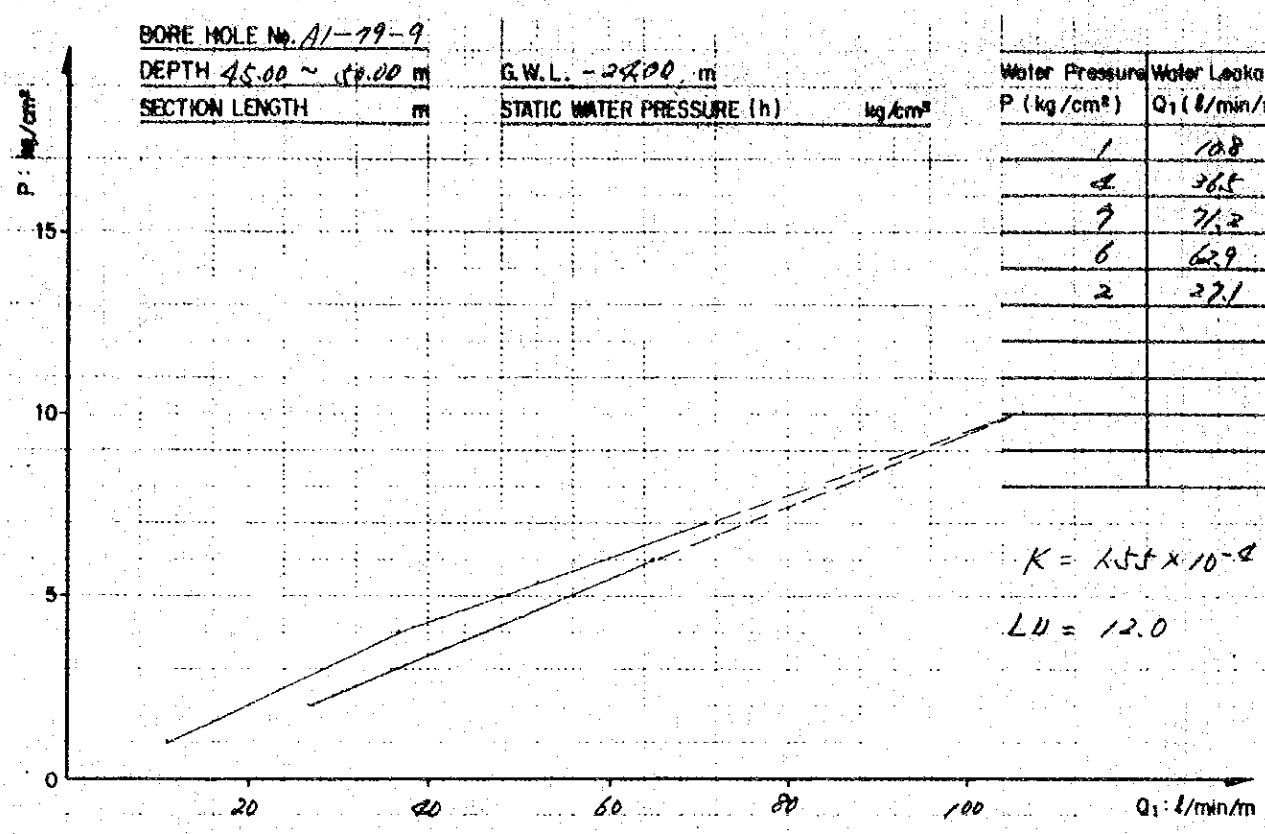
No 4

BORE HOLE No. A1-79-9

DEPTH 45.00 ~ 57.00 m　　G.W.L. -24.00 m

SECTION LENGTH m　　STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	10.8
4	36.5
9	71.2
6	62.9
2	37.1



K = 1.55 × 10⁻⁴

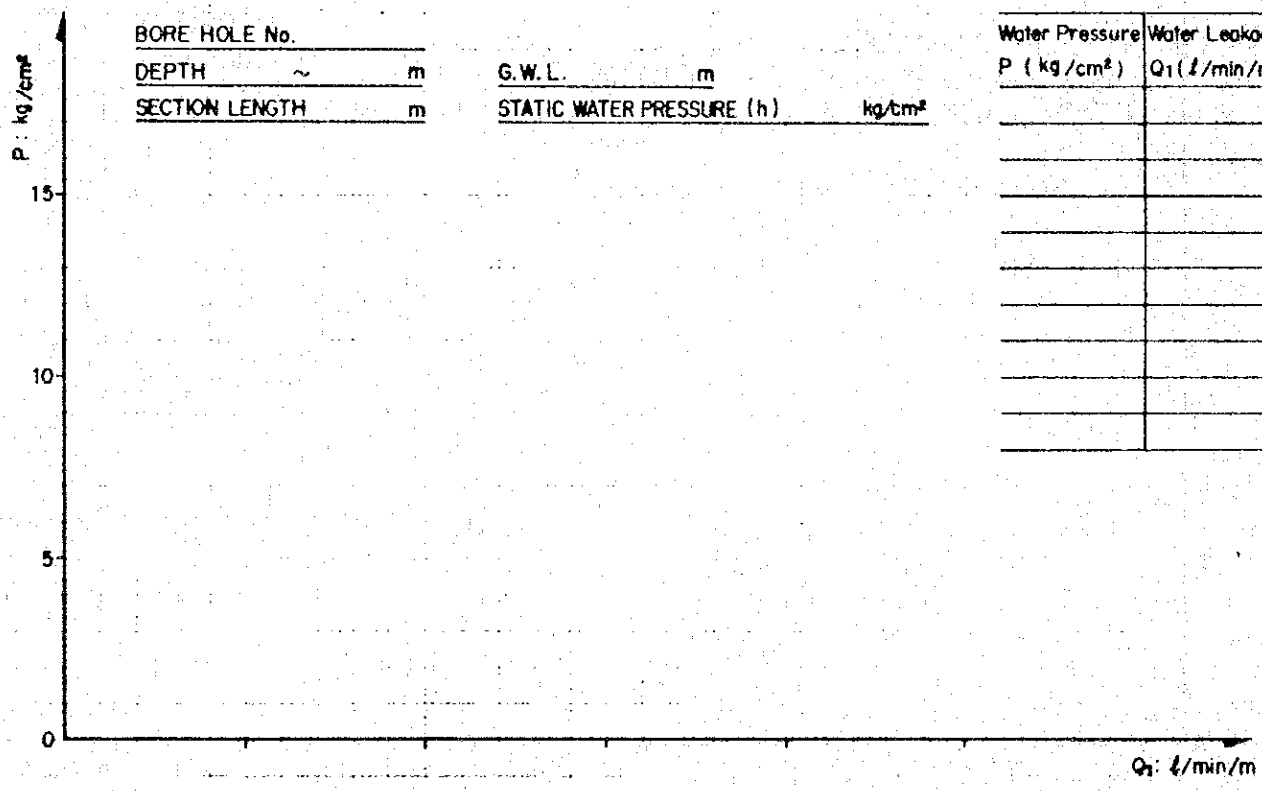
Lu = 12.0

BORE HOLE No.

DEPTH ~ m　　G.W.L. m

SECTION LENGTH m　　STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)



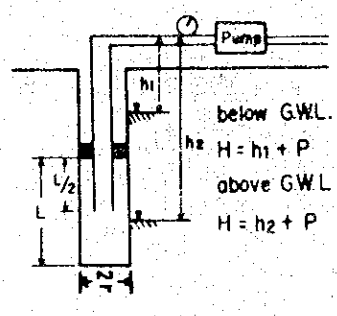
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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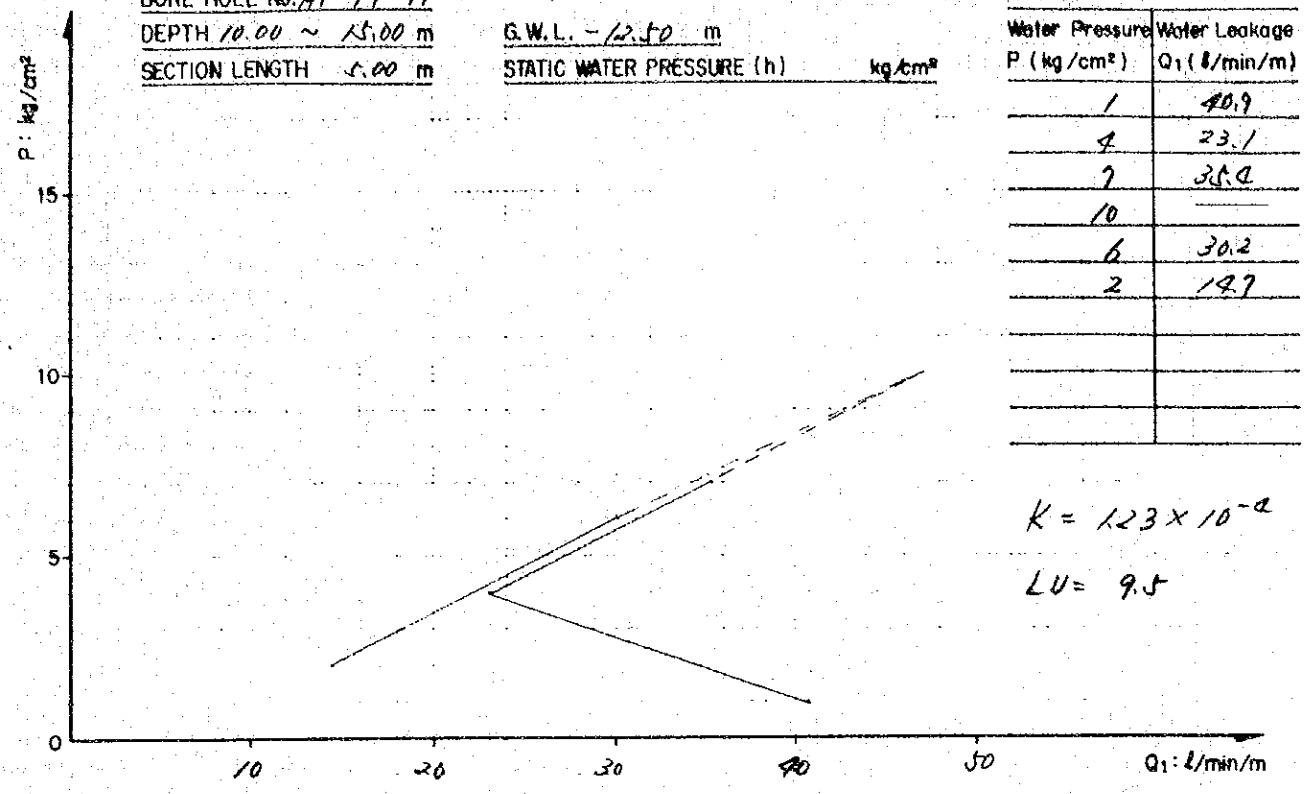
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-11
DEPTH 10.00 ~ 15.00 m
SECTION LENGTH 5.00 m
G.W.L. - 12.50 m
STATIC WATER PRESSURE (h) kg/cm²



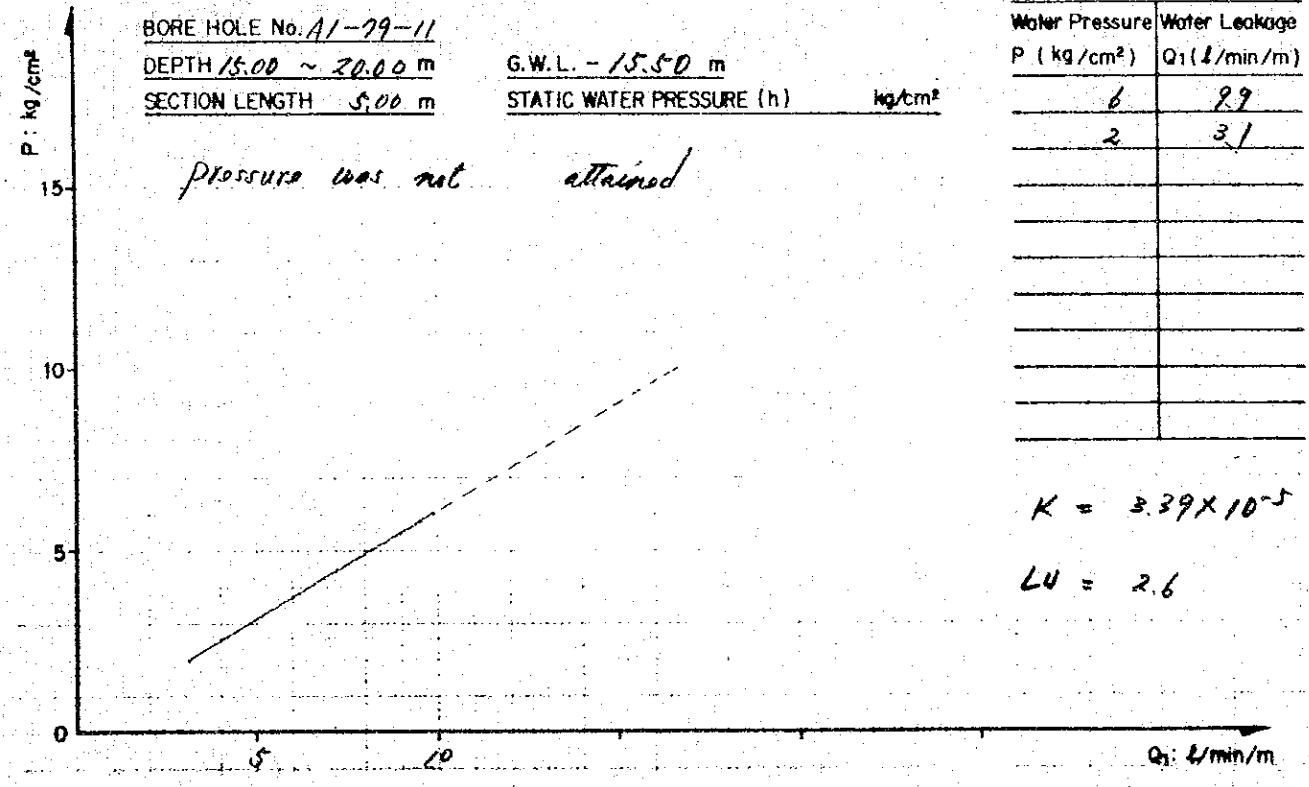
Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	40.9
4	23.1
7	32.0
10	
6	30.2
2	19.7

$K = 1.23 \times 10^{-4}$

$Lu = 9.5$

BORE HOLE No. A1-79-11
DEPTH 15.00 ~ 20.00 m
SECTION LENGTH 5.00 m
G.W.L. - 15.50 m
STATIC WATER PRESSURE (h) kg/cm²

Pressure was not attained



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
6	8.9
2	3.1

$K = 3.39 \times 10^{-5}$

$Lu = 2.6$

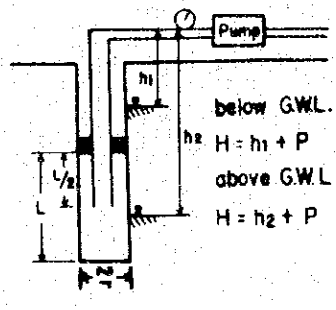
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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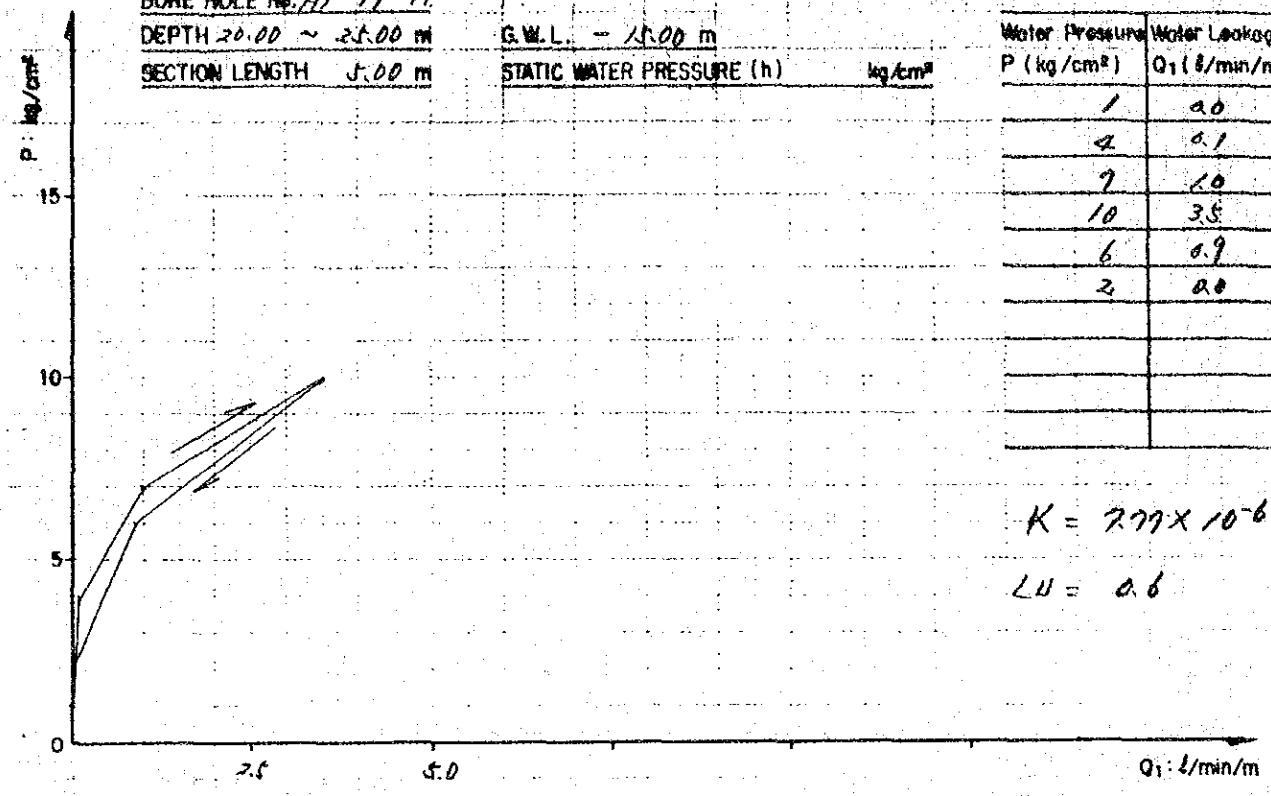
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-11
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. - 15.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	0.0
4	0.1
7	1.0
10	3.5
6	0.9
2	0.0

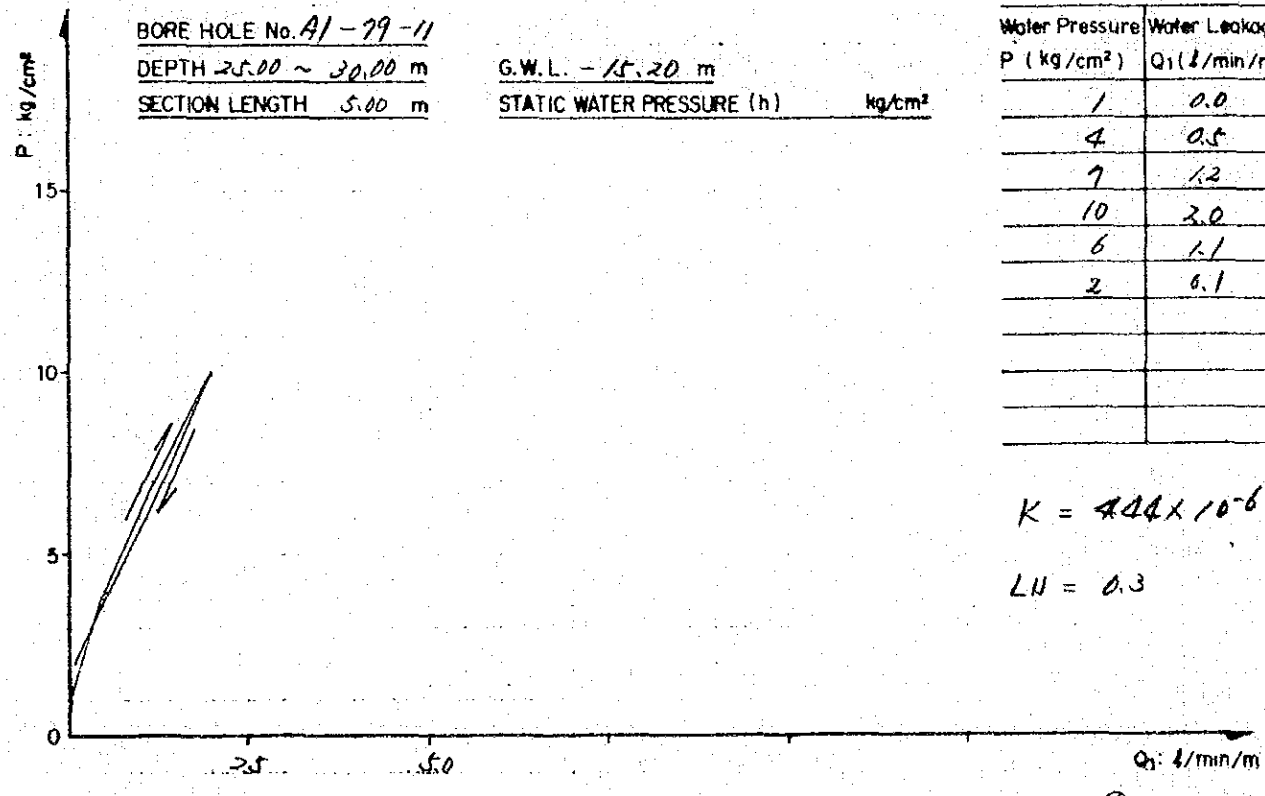


$K = 2.79 \times 10^{-6}$

Lu = 0.6

BORE HOLE No. A1-79-11
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. - 15.20 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	0.0
4	0.5
7	1.2
10	2.0
6	1.1
2	0.1



$K = 4.44 \times 10^{-6}$

Lu = 0.3

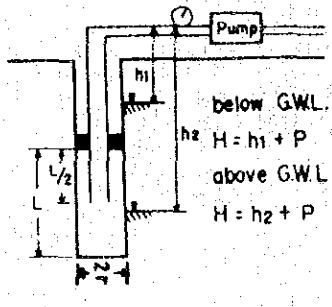
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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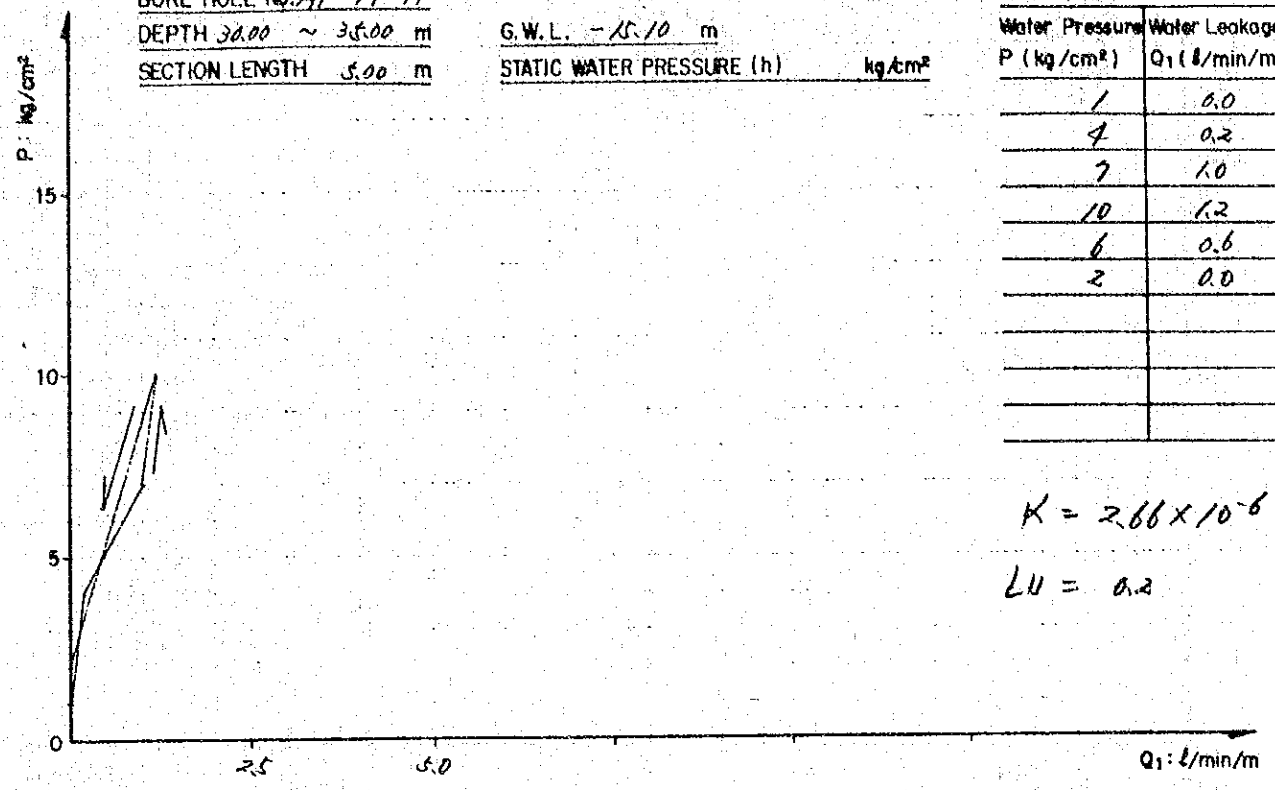
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-11
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. -15.10 m
STATIC WATER PRESSURE (h) kg/cm²

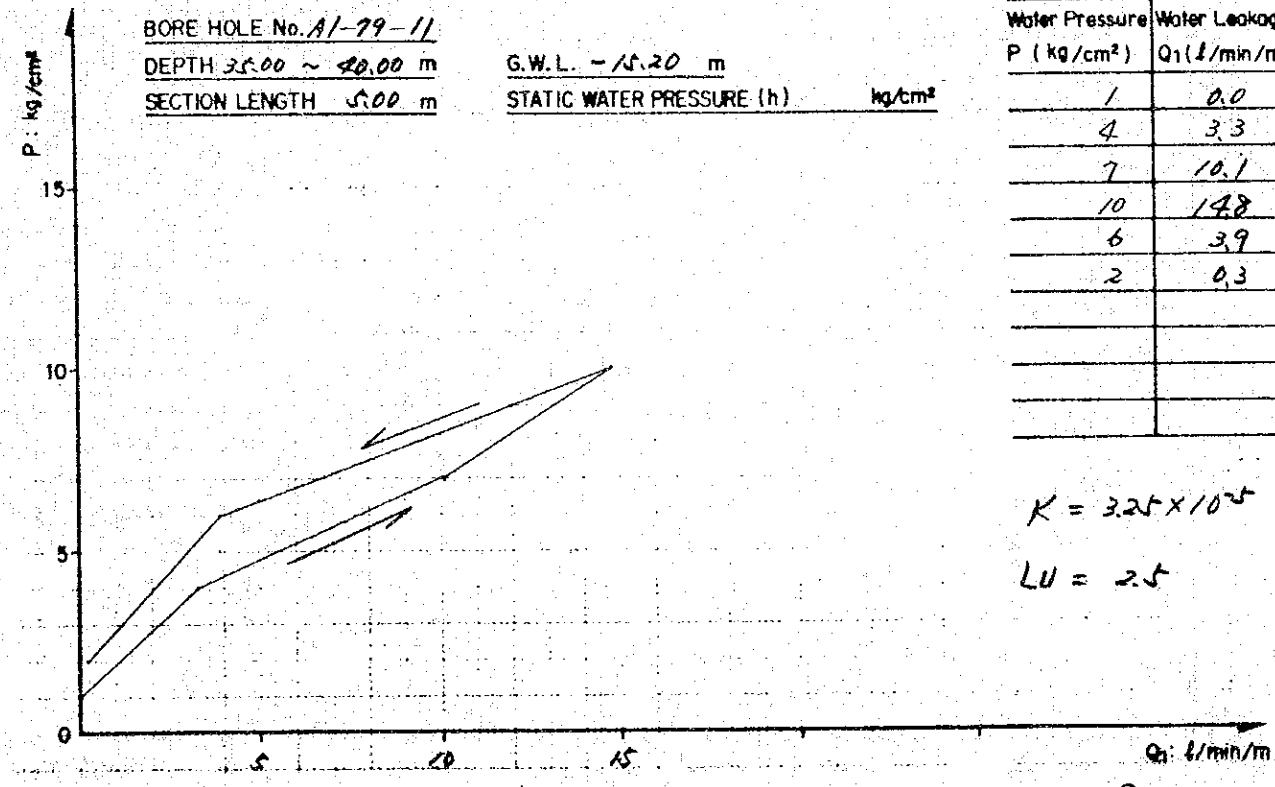


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	0.0
4	0.2
7	1.0
10	1.2
6	0.6
2	0.0

$K = 2.66 \times 10^{-6}$

Lu = 0.2

BORE HOLE No. A1-79-11
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. -15.20 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	0.0
4	3.3
7	10.1
10	14.8
6	3.9
2	0.3

$K = 3.25 \times 10^{-5}$

Lu = 2.5

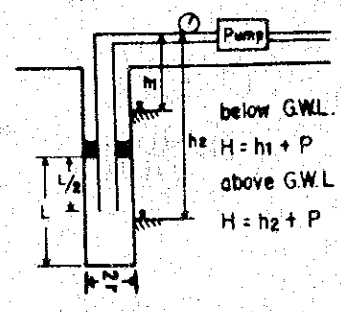
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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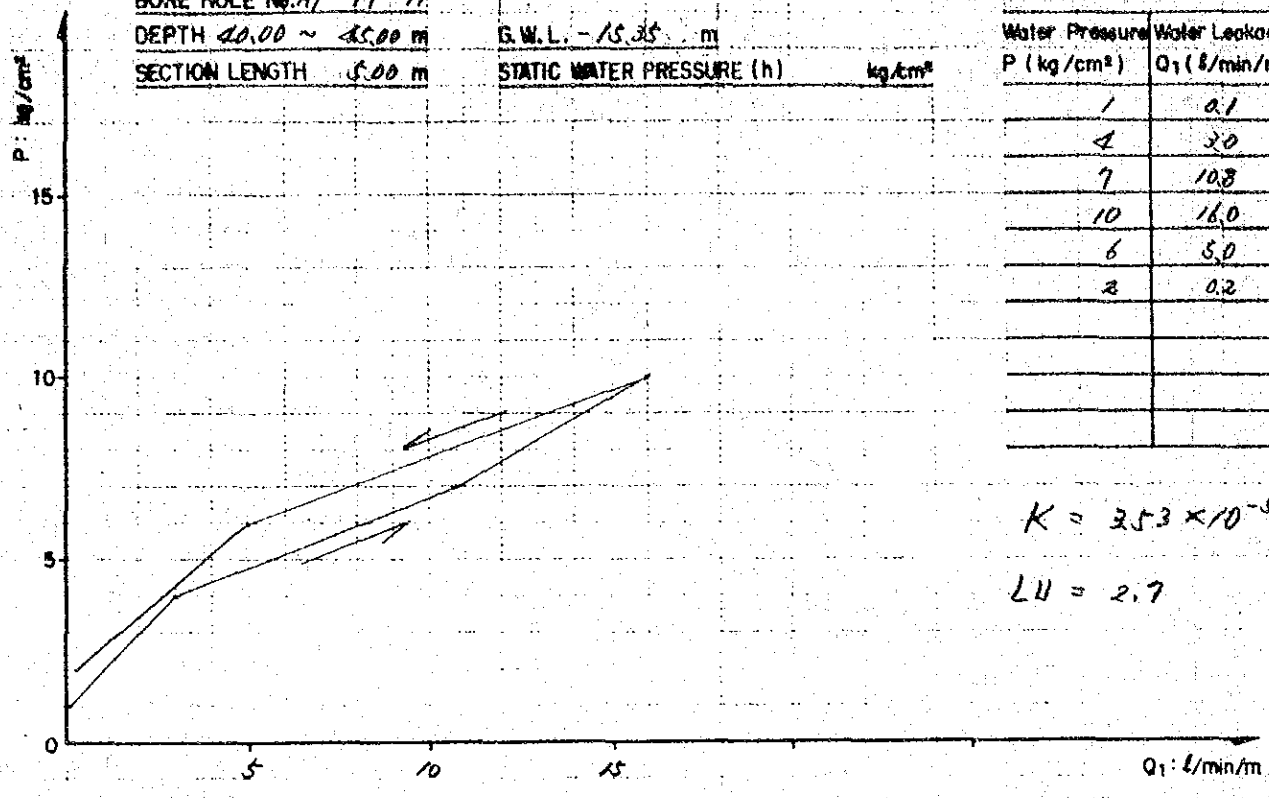
WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A/ − 79 − 11
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. − 15.35 m
STATIC WATER PRESSURE (h) kg/cm²

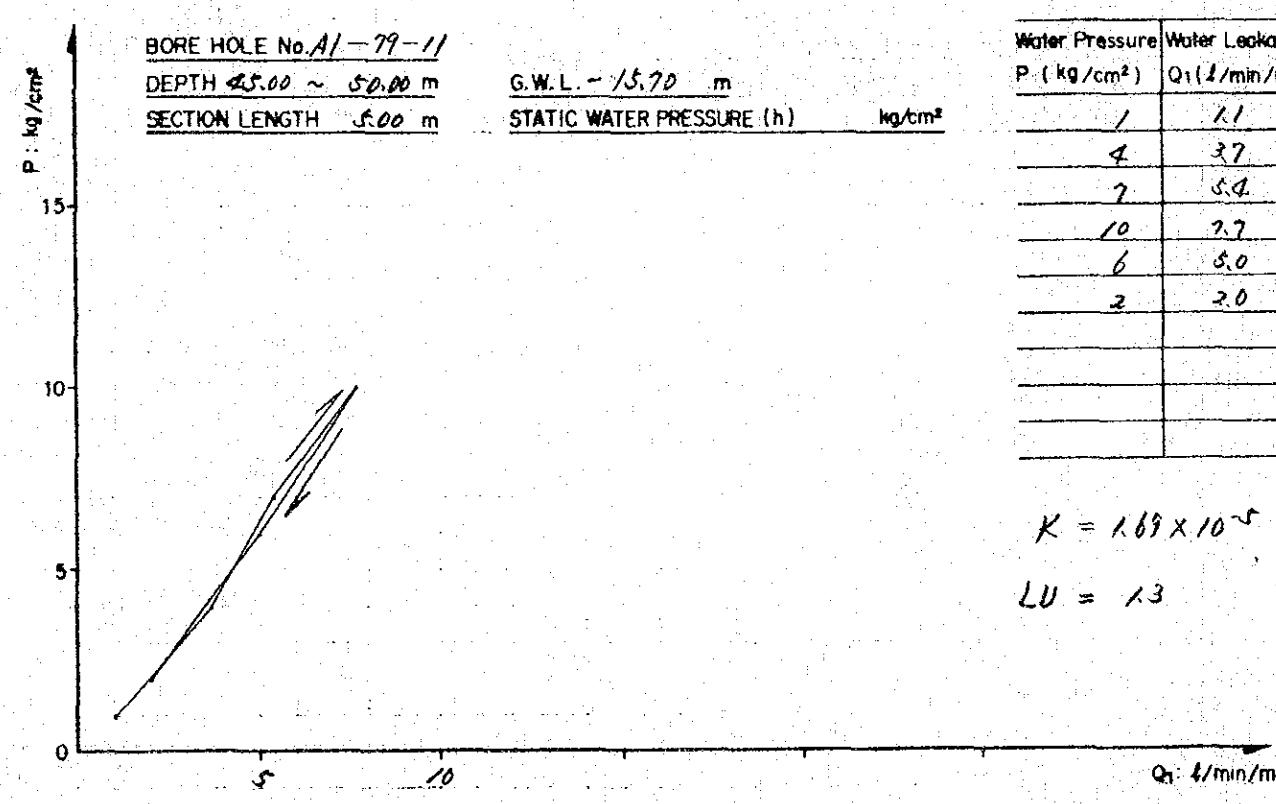


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	0.1
4	3.0
7	10.8
10	16.0
6	5.0
2	0.2

K = 2.53 × 10⁻⁵

Lu = 2.7

BORE HOLE No. A/ − 79 − 11
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH 5.00 m
G.W.L. − 15.70 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	1.1
4	3.7
7	5.4
10	7.7
6	5.0
2	2.0

K = 1.69 × 10⁻⁵

Lu = 1.3

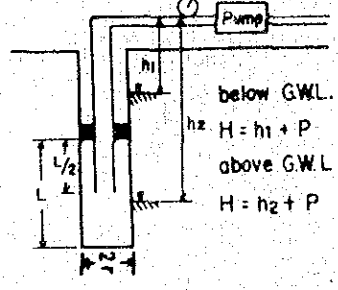
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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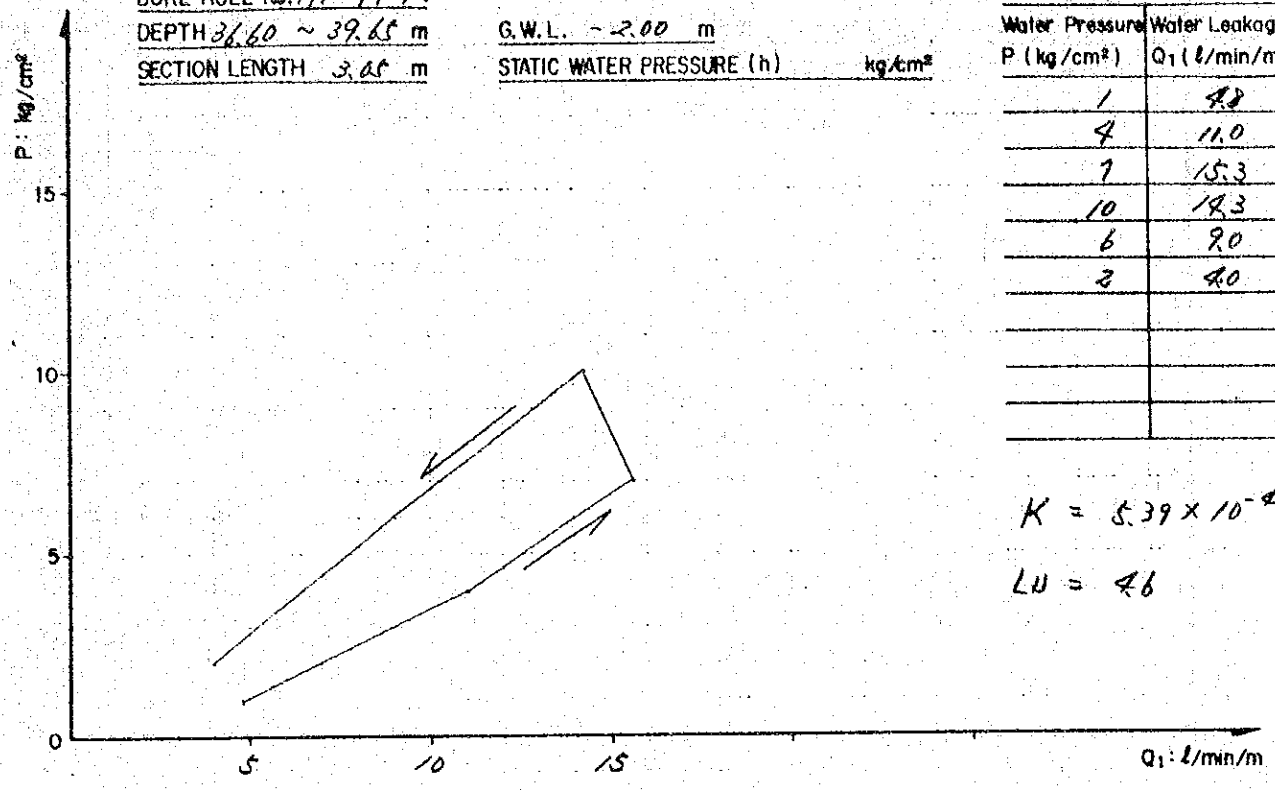
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-12
DEPTH 36.60 ~ 39.65 m
SECTION LENGTH 3.05 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²

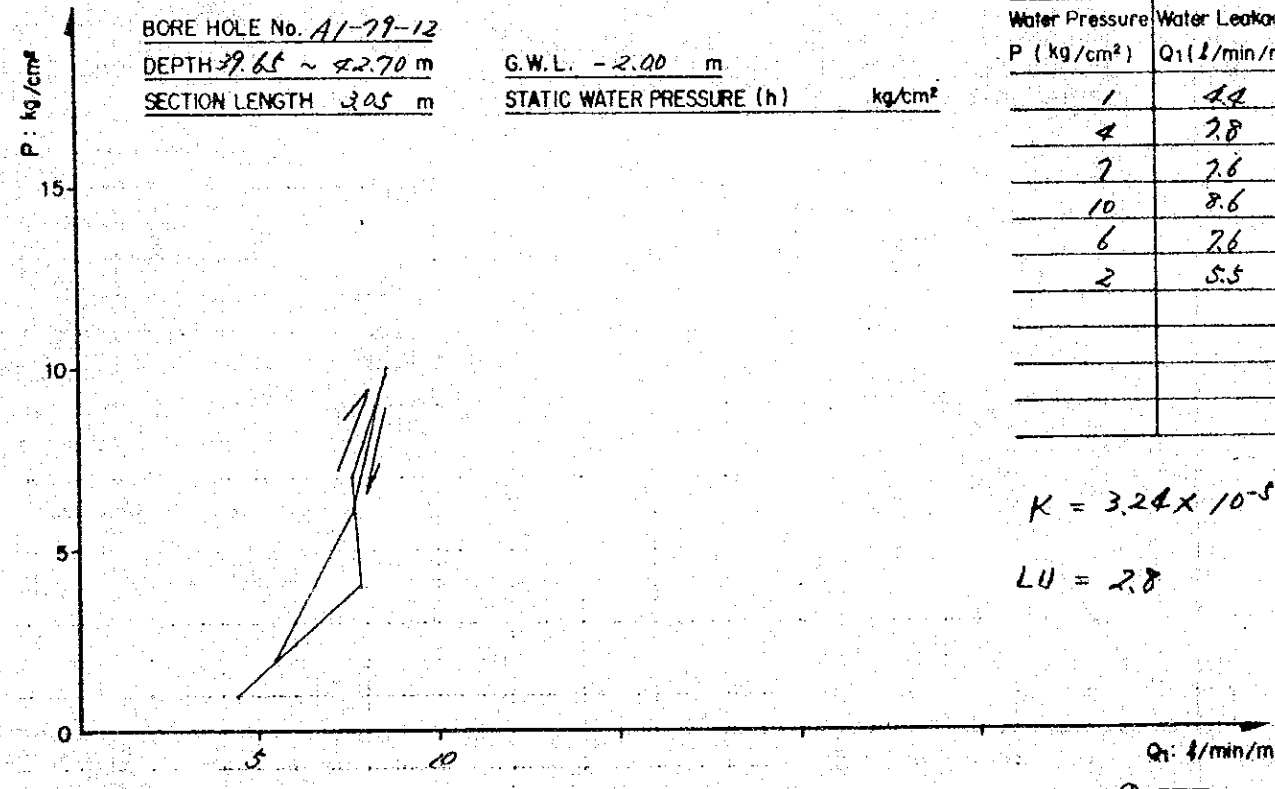


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	4.8
4	11.0
7	15.3
10	19.3
6	9.0
2	4.0

$K = 5.39 \times 10^{-4}$

Lu = 46

BORE HOLE No. A1-79-12
DEPTH 39.65 ~ 42.70 m
SECTION LENGTH 3.05 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	4.4
4	7.8
7	7.6
10	8.6
6	7.6
2	5.5

$K = 3.24 \times 10^{-5}$

Lu = 2.8

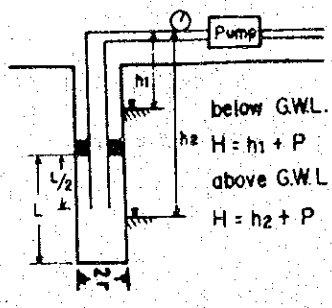
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

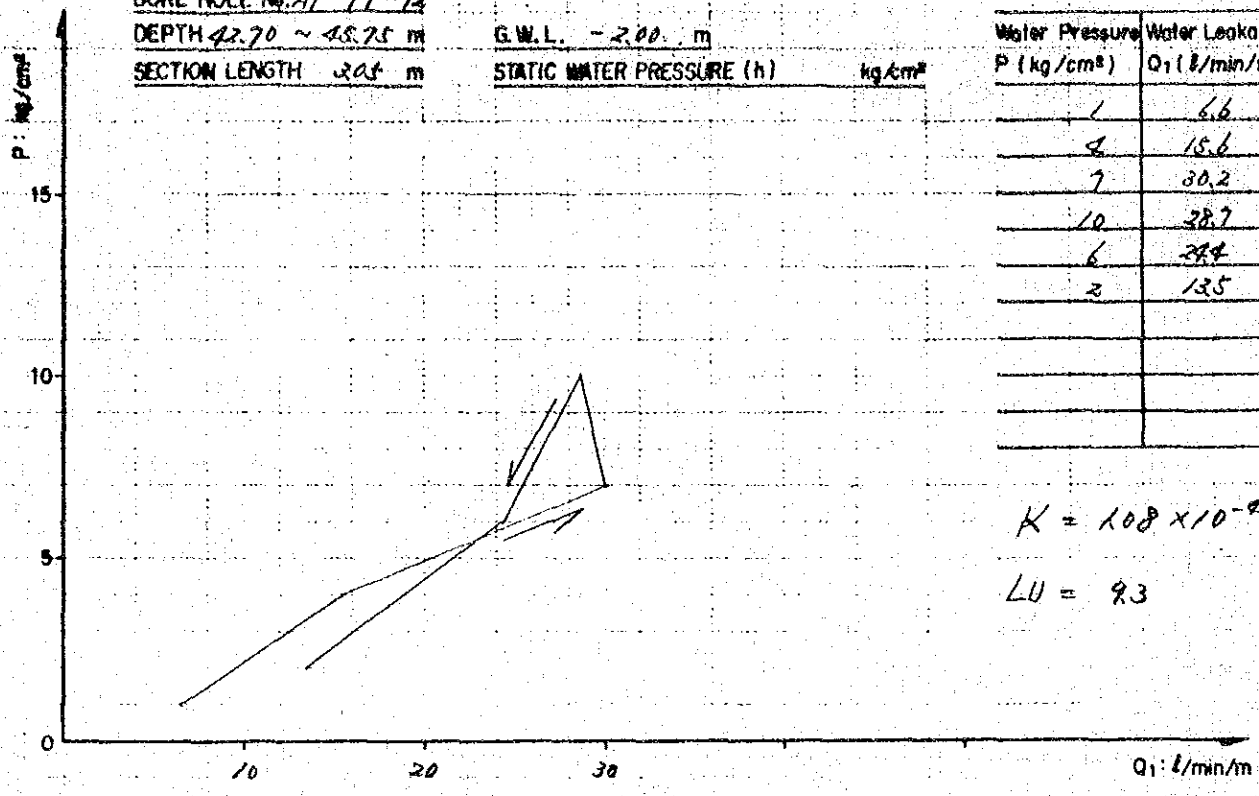
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-12
DEPTH 42.70 ~ 45.75 m
SECTION LENGTH 3.05 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²

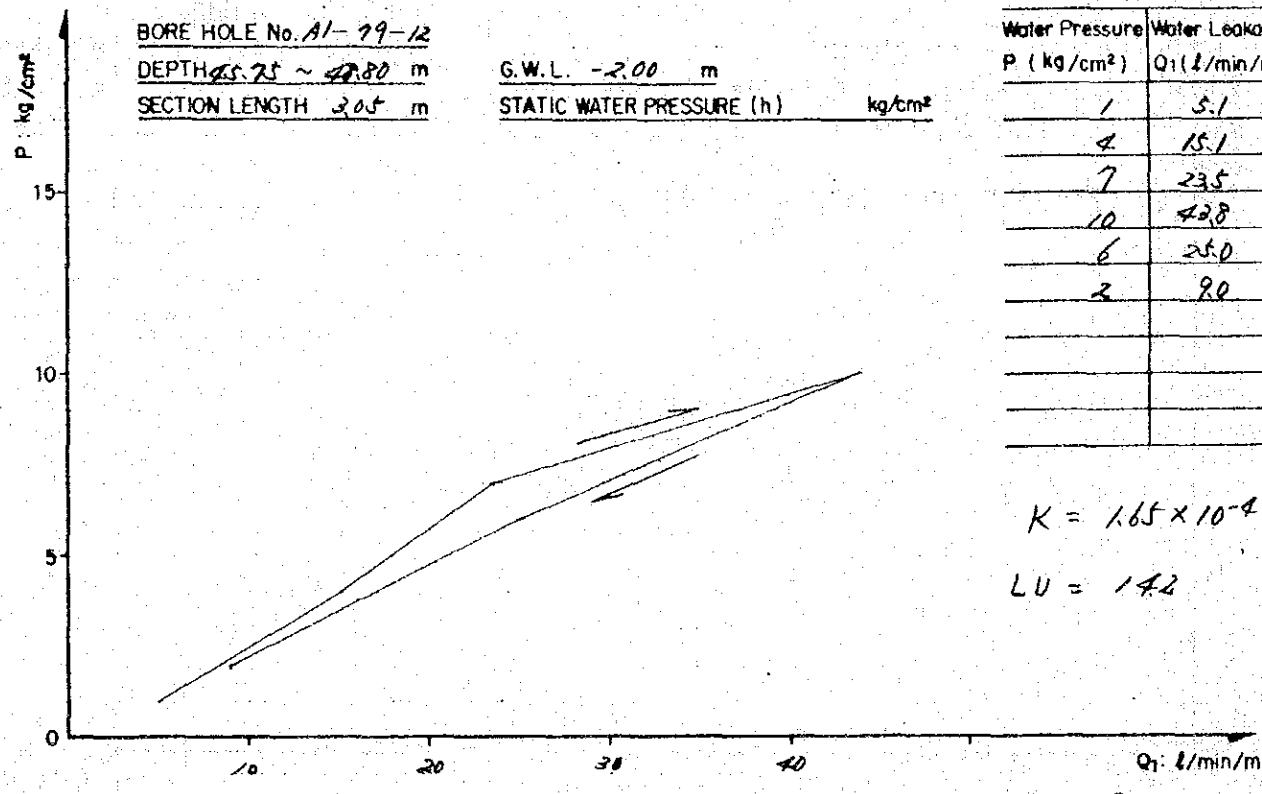


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	6.6
4	15.6
7	30.2
10	38.7
6	29.4
2	13.5

$K = 1.08 \times 10^{-2}$

$Lu = 9.3$

BORE HOLE No. A1-79-12
DEPTH 45.75 ~ 48.80 m
SECTION LENGTH 3.05 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	5.1
4	15.1
7	23.5
10	42.8
6	25.0
2	9.0

$K = 1.65 \times 10^{-2}$

$Lu = 14.2$

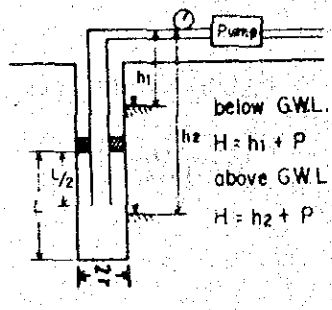
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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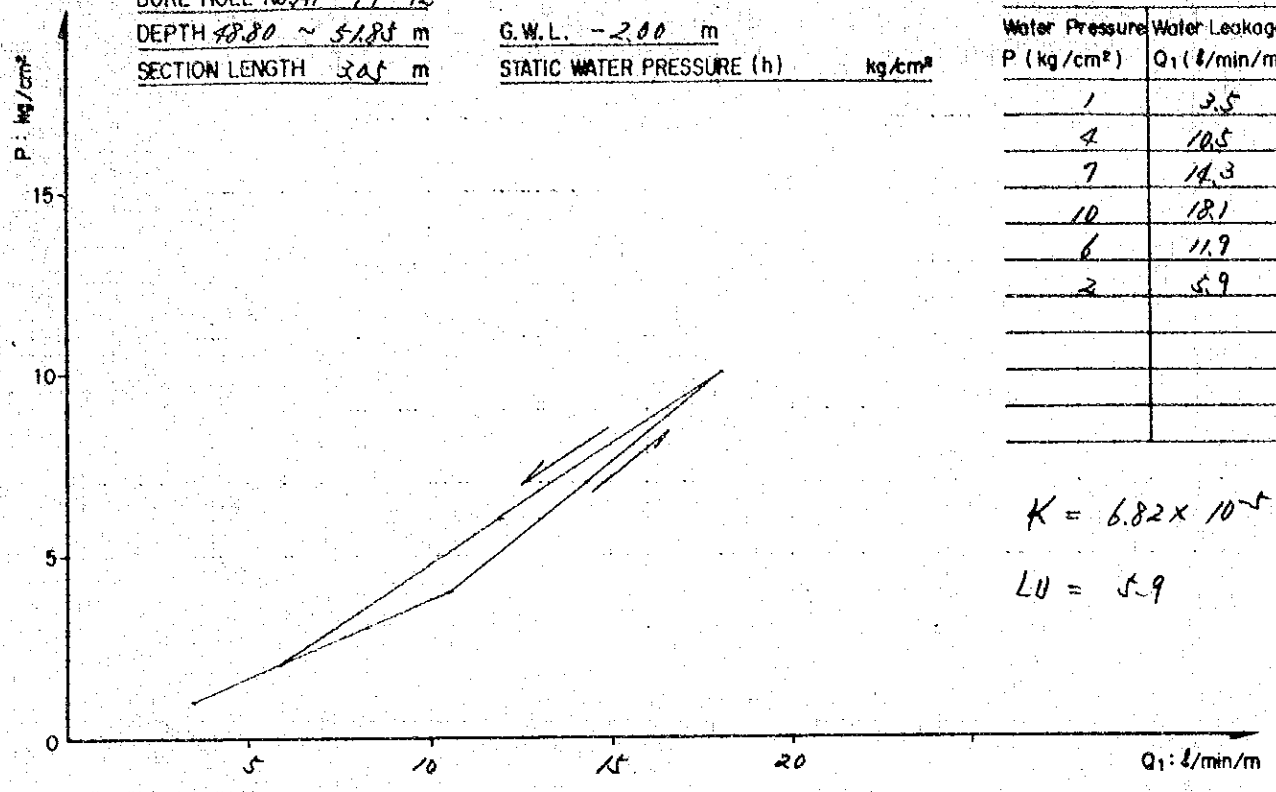
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-12
DEPTH 48.80 ~ 51.85 m
SECTION LENGTH 3.05 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	3.5
4	10.5
7	14.3
10	18.1
6	11.9
2	5.9



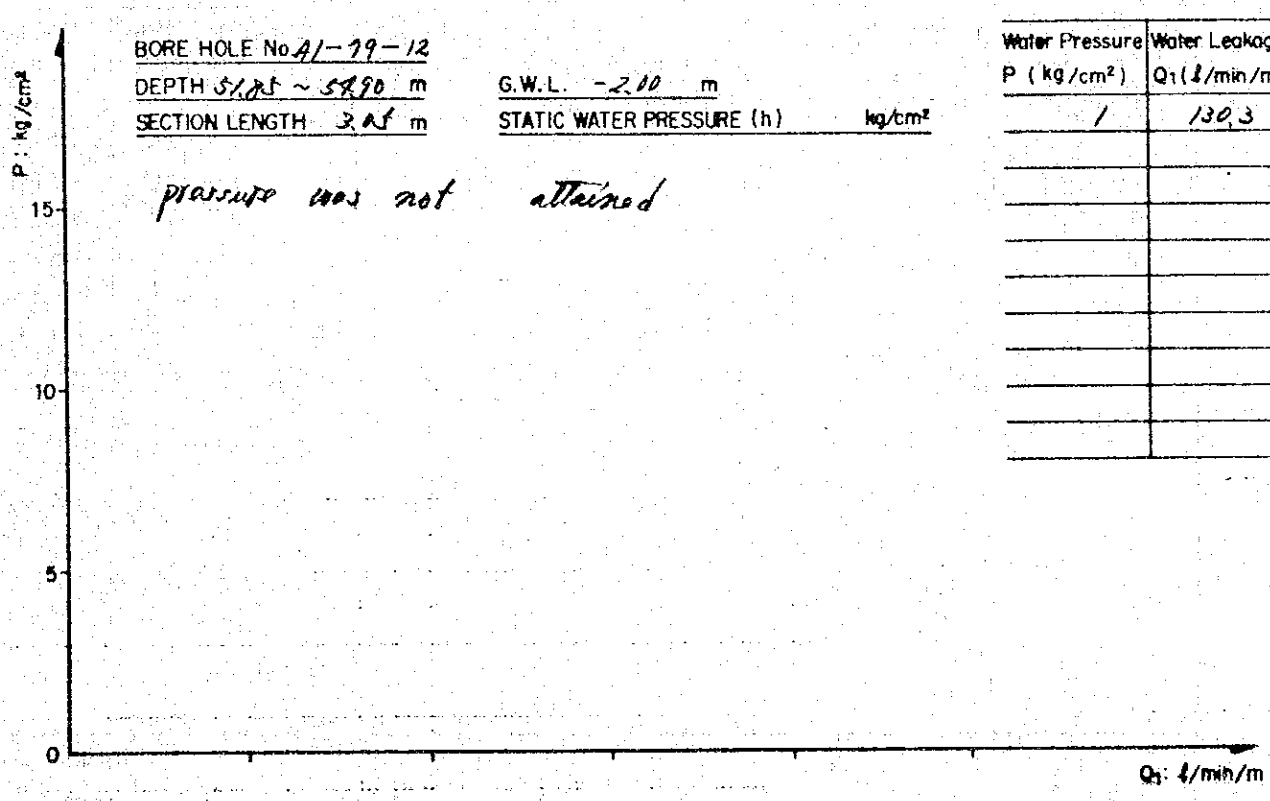
$K = 6.82 \times 10^{-5}$

$Lu = 5.9$

BORE HOLE No. A1-79-12
DEPTH 51.85 ~ 54.90 m
SECTION LENGTH 3.05 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²

pressure was not attained

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	130.3



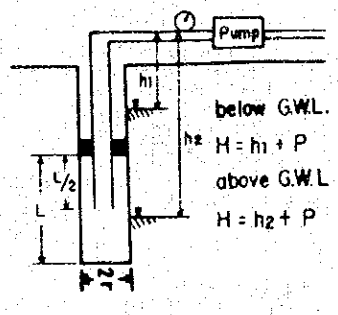
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



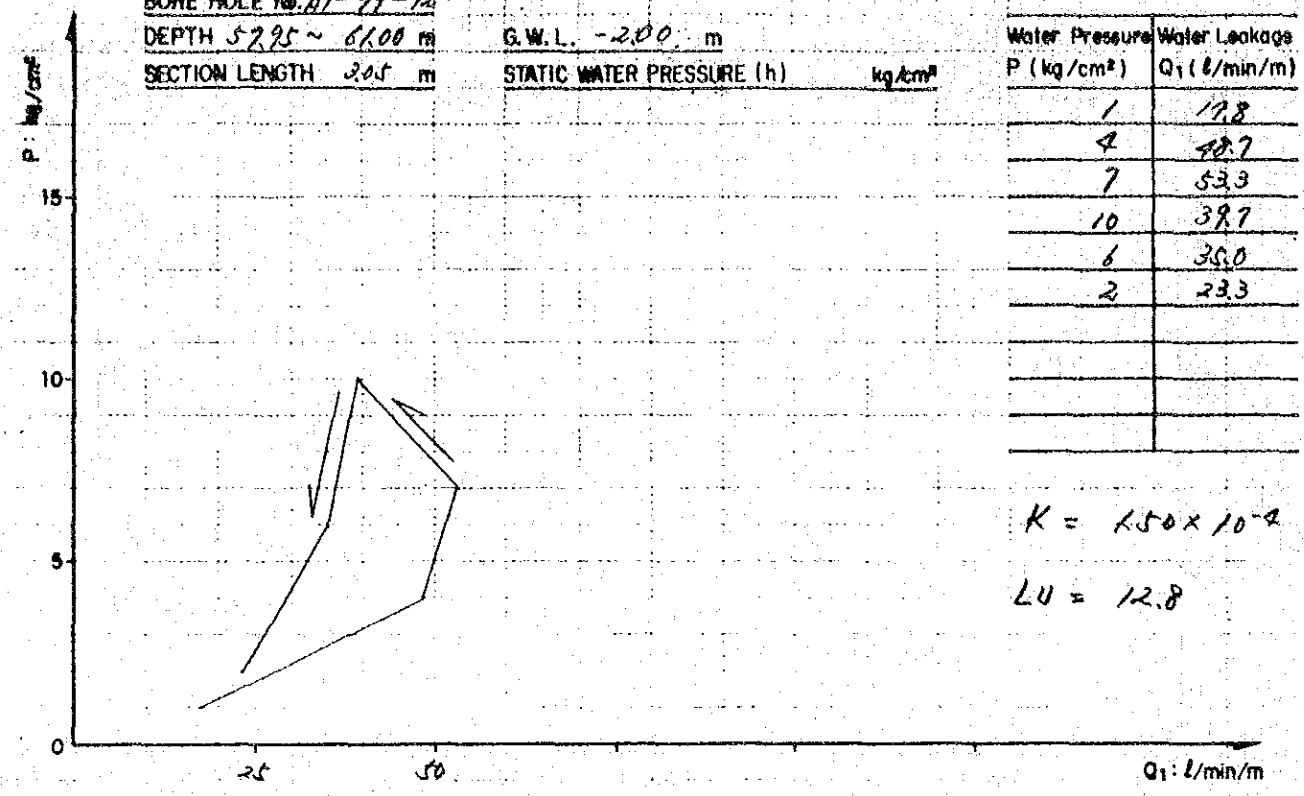
WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-79-12

DEPTH 52.95 ~ 61.00 m　　G.W.L. -2.00 m

SECTION LENGTH 3.05 m　　STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	19.8
4	48.7
7	53.3
10	39.7
6	35.0
2	23.3

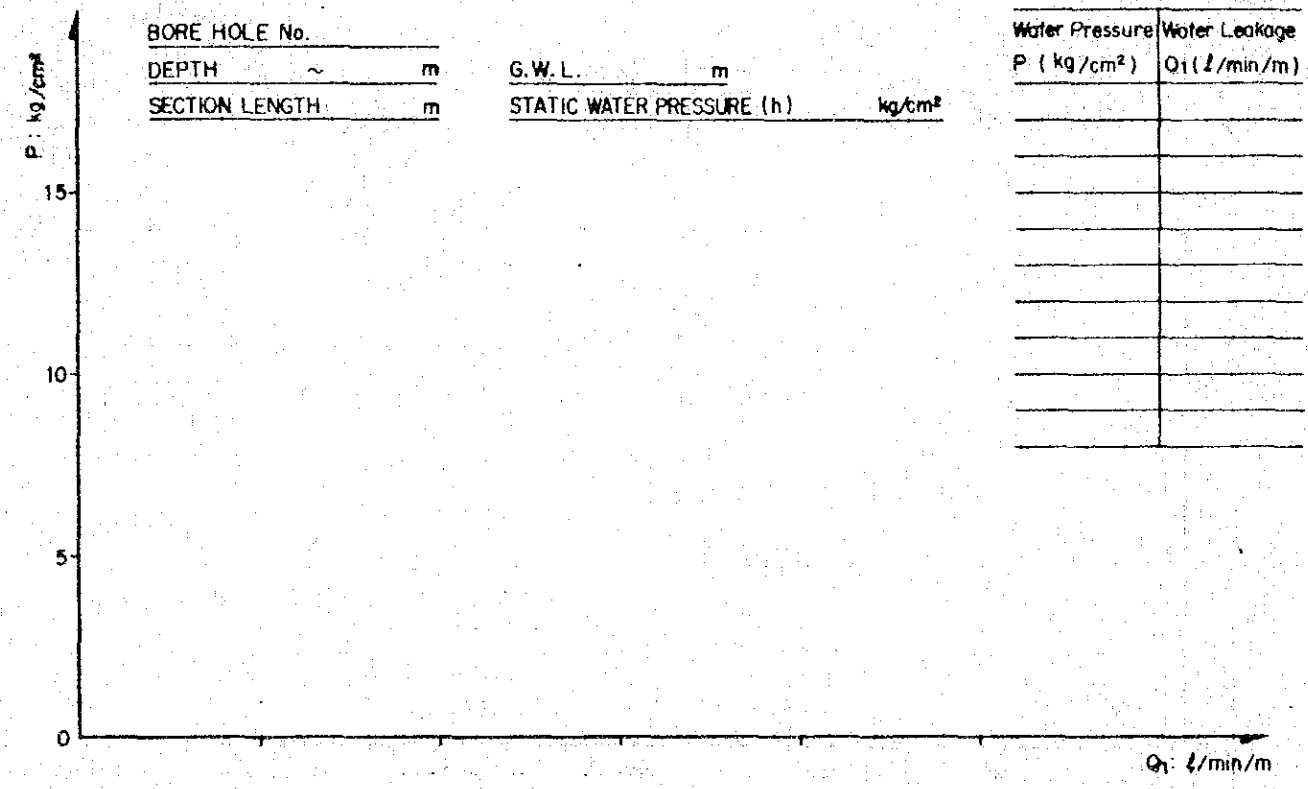
$K = 1.50 \times 10^{-2}$

$Lu = 12.8$

BORE HOLE No.

DEPTH ~ m　　G.W.L. m

SECTION LENGTH m　　STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)

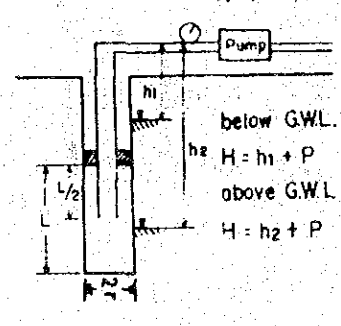
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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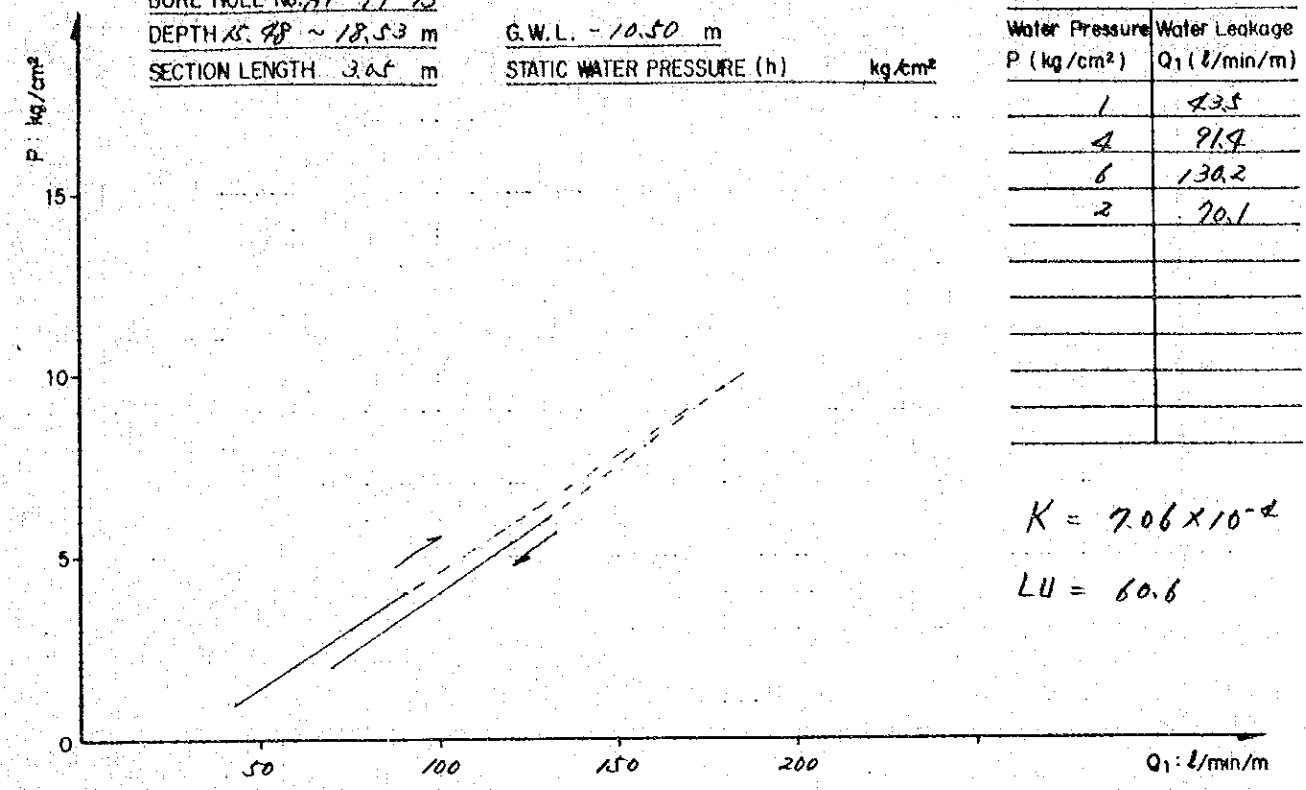
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-13
DEPTH 15.98 ~ 18.53 m
SECTION LENGTH 3.05 m

G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	43.5
4	91.9
6	130.2
2	70.1



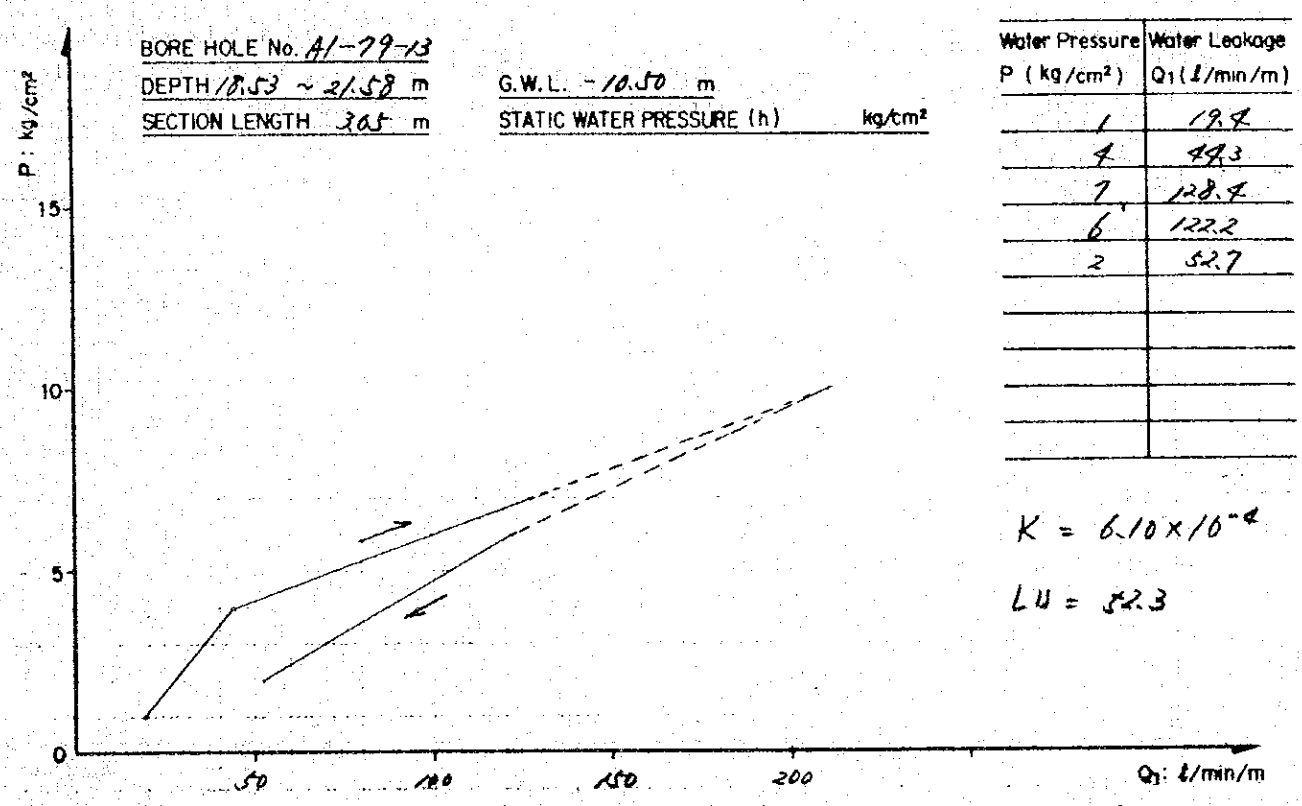
$K = 7.06 \times 10^{-4}$

$Lu = 60.6$

BORE HOLE No. A1-79-13
DEPTH 18.53 ~ 21.58 m
SECTION LENGTH 3.05 m

G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	19.4
4	49.3
7	128.4
6	122.2
2	52.7



$K = 6.10 \times 10^{-4}$

$Lu = 52.3$

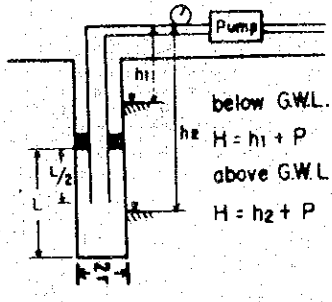
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

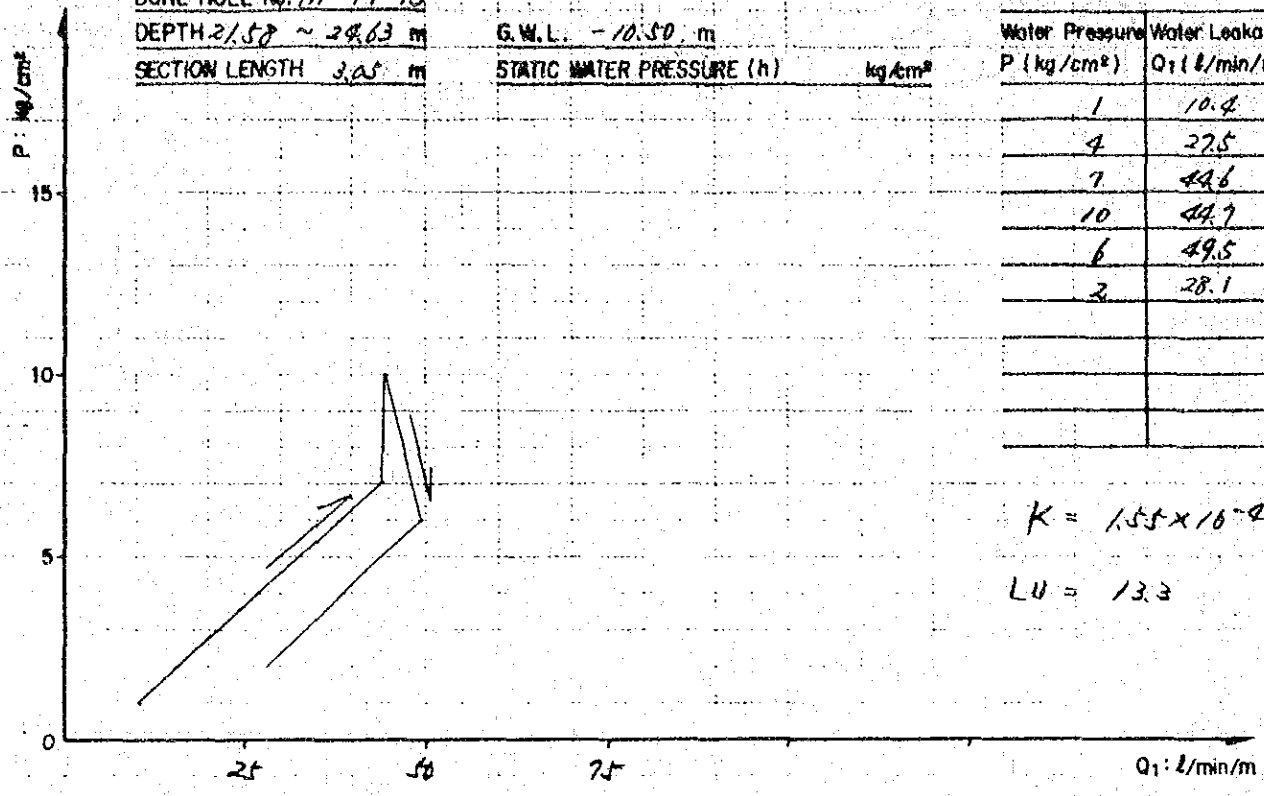
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-13
DEPTH 21.58 ~ 24.63 m
SECTION LENGTH 3.05 m
G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²

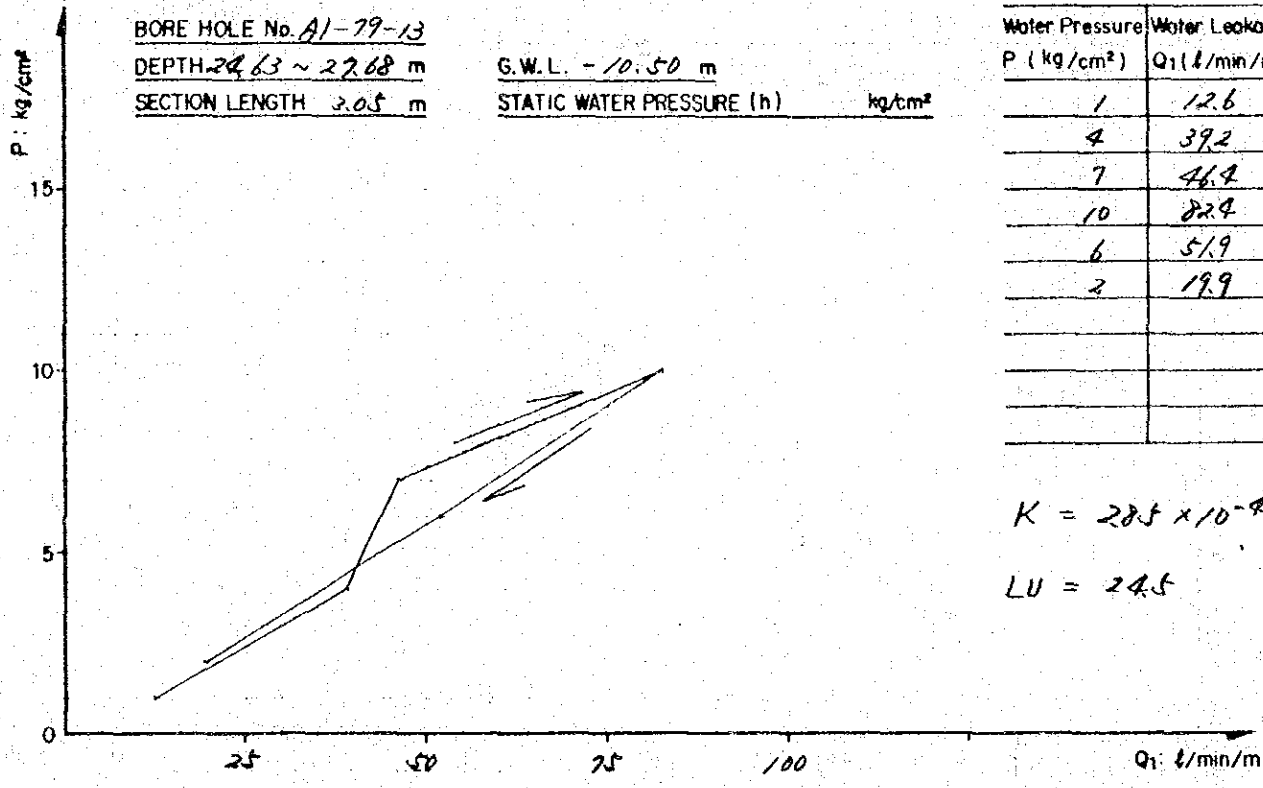


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	10.4
4	27.5
7	44.6
10	44.7
6	49.5
2	28.1

K = 1.55 × 10⁻⁴

Lu = 13.3

BORE HOLE No. A1-79-13
DEPTH 24.63 ~ 27.68 m
SECTION LENGTH 3.05 m
G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	12.6
4	39.2
7	46.4
10	82.4
6	51.9
2	19.9

K = 2.85 × 10⁻⁴

Lu = 24.5

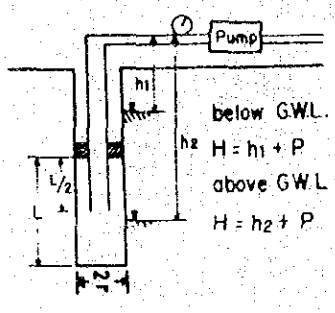
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$

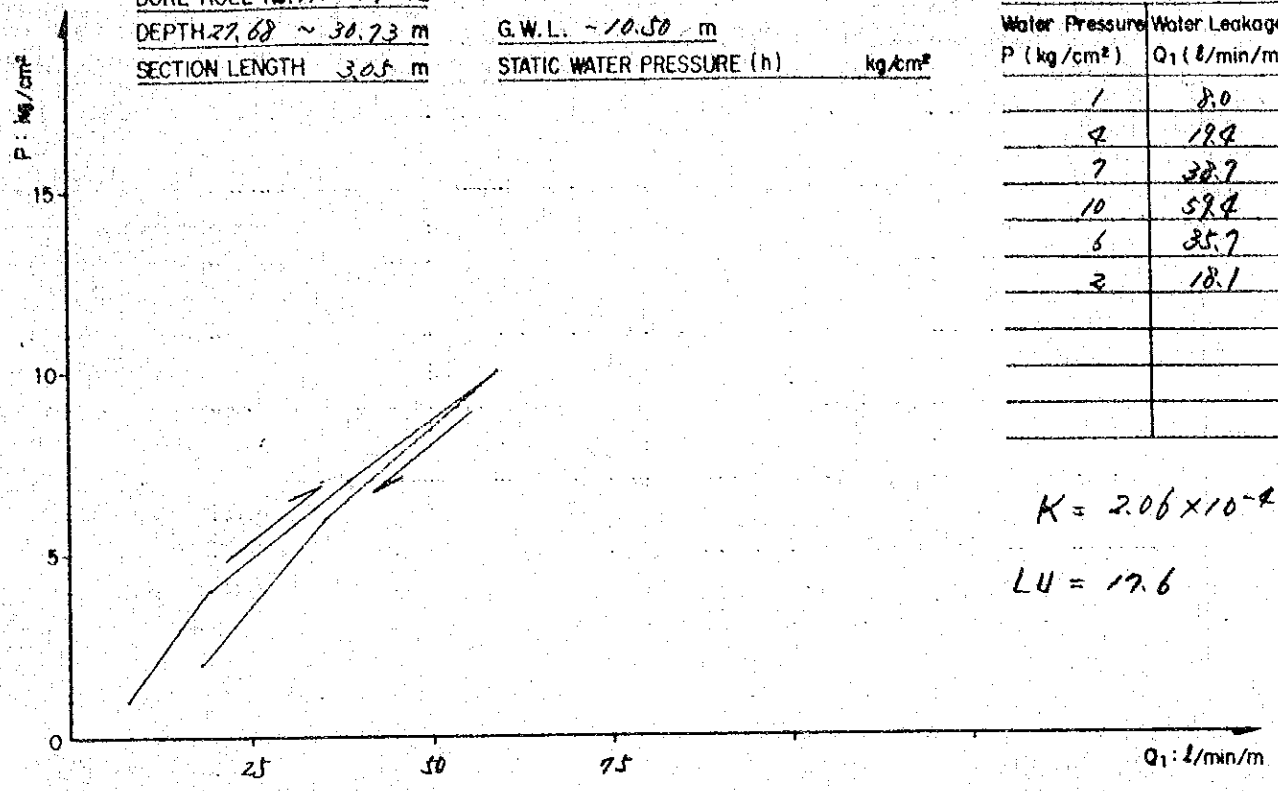


WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-13
DEPTH 27.68 ~ 30.73 m
SECTION LENGTH 3.05 m

G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²



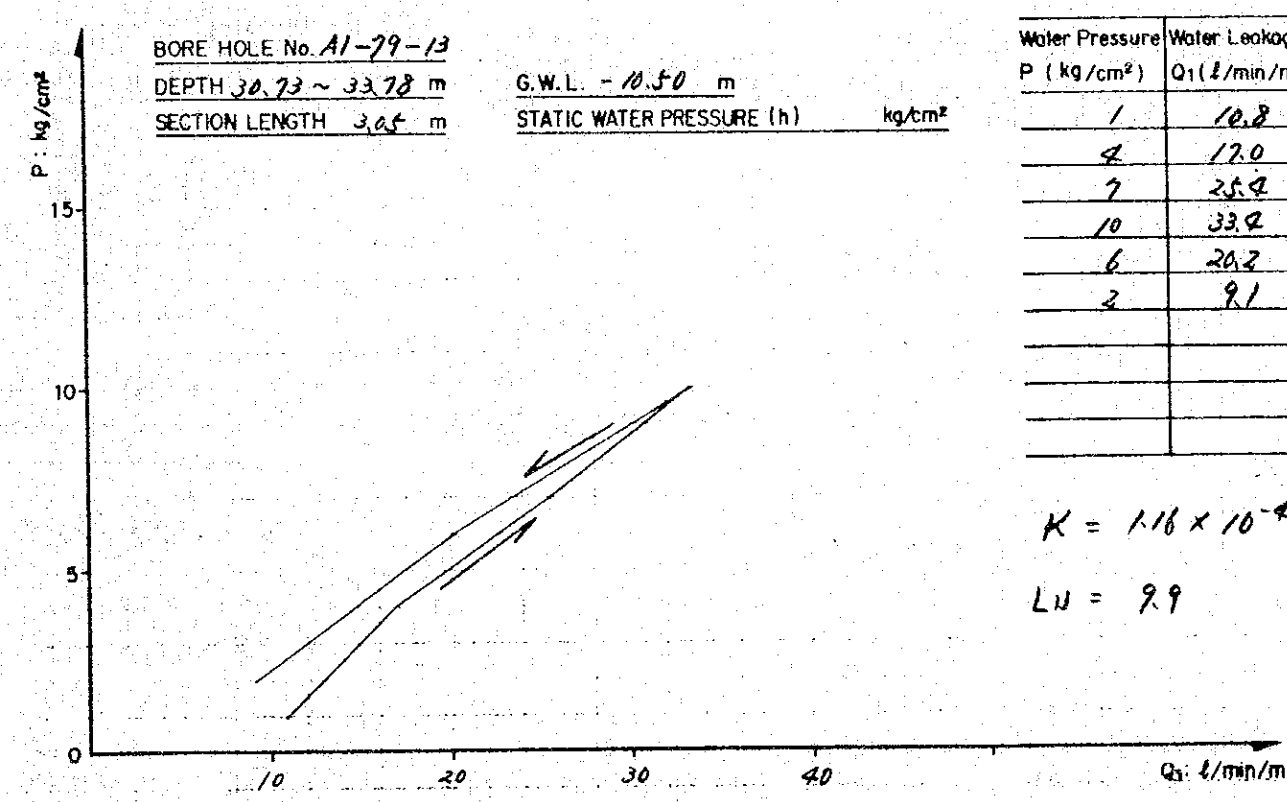
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	8.0
4	19.4
7	38.7
10	59.4
6	35.7
3	18.1

K = 2.06 × 10⁻⁴

Lu = 17.6

BORE HOLE No. A1-79-13
DEPTH 30.73 ~ 33.78 m
SECTION LENGTH 3.05 m

G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	10.8
4	17.0
7	25.4
10	33.4
6	20.2
3	9.1

K = 1.16 × 10⁻⁴

Lu = 9.9

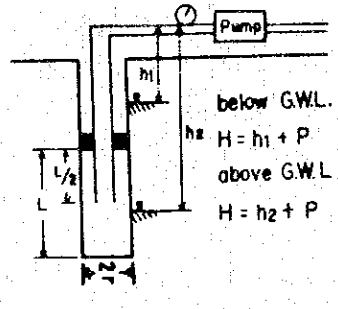
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

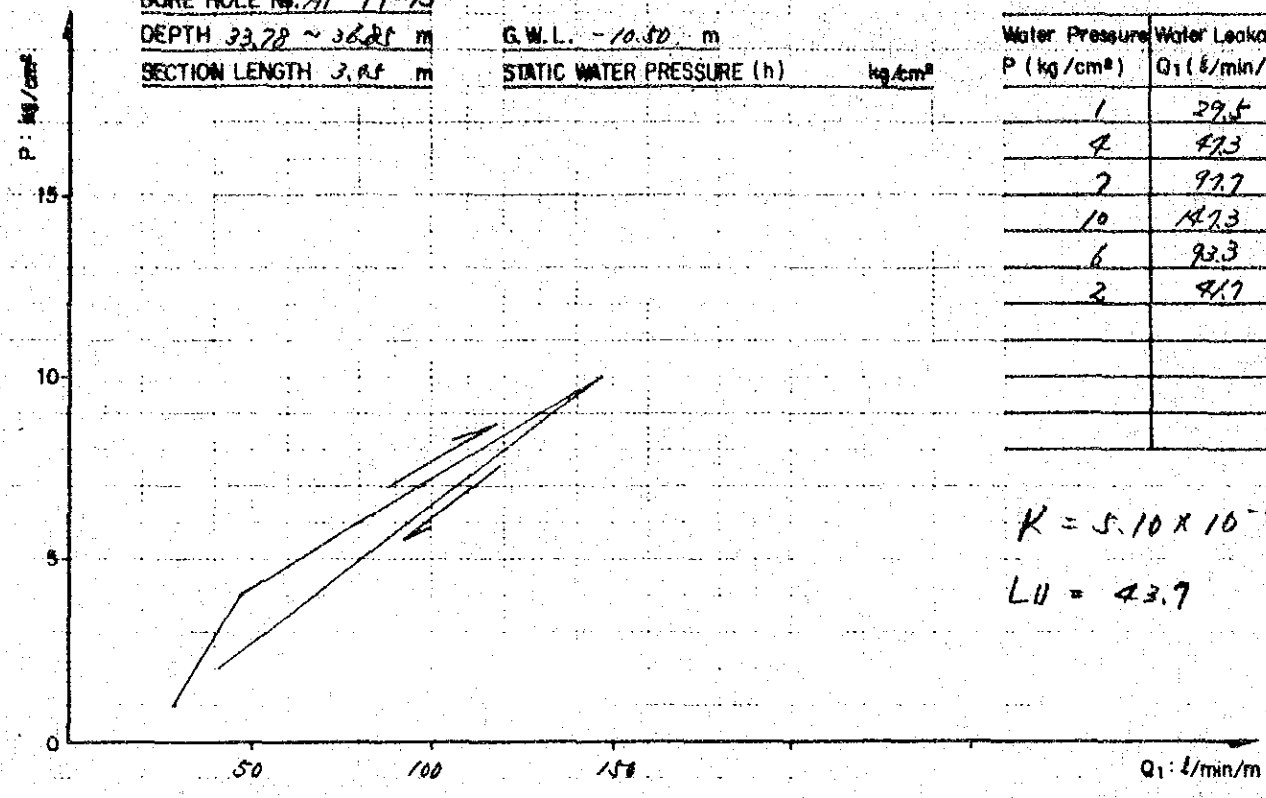
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-79-13
DEPTH 33.78 ~ 36.83 m
SECTION LENGTH 3.05 m
G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²

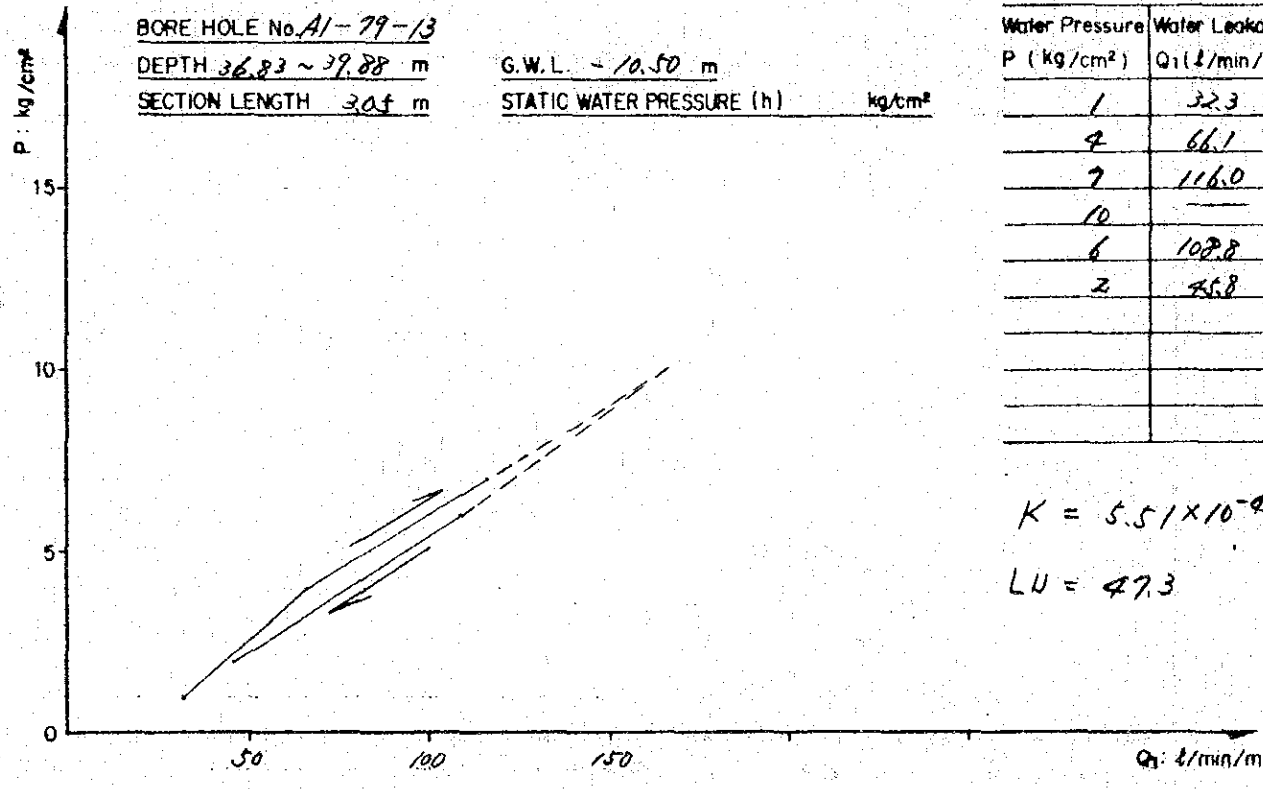


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	29.5
4	47.3
7	91.7
10	147.3
6	93.3
2	41.7

$K = 5.10 \times 10^{-4}$

$Lu = 43.7$

BORE HOLE No. A1-79-13
DEPTH 36.83 ~ 39.88 m
SECTION LENGTH 3.05 m
G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	32.3
4	66.1
7	116.0
10	—
6	108.8
2	45.8

$K = 5.51 \times 10^{-4}$

$Lu = 47.3$

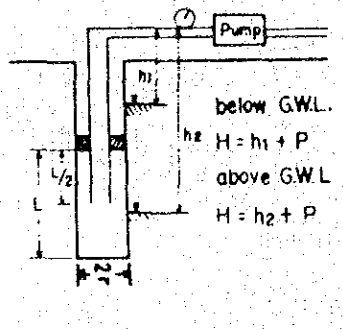
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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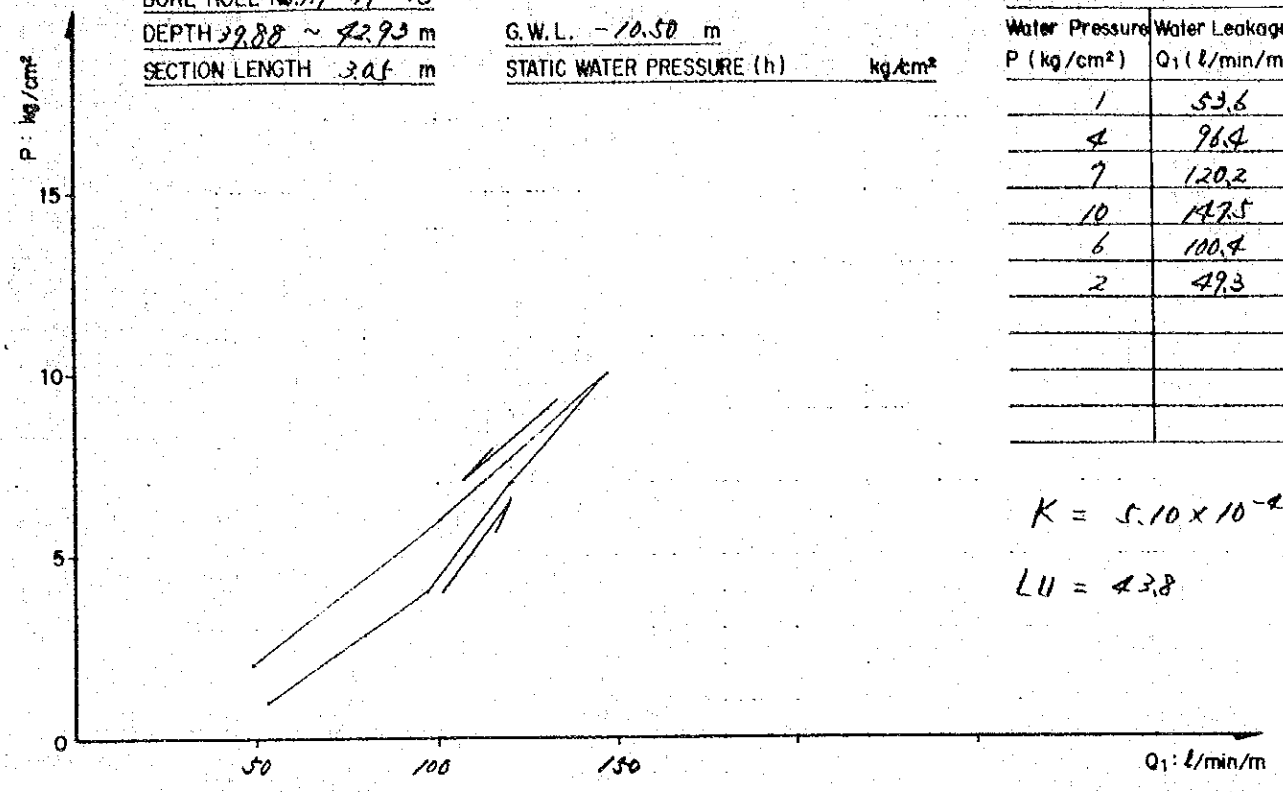
WATER PRESSURE TEST DIAGRAM

No 5

BORE HOLE No. A1-79-13
DEPTH 39.88 ~ 42.93 m
SECTION LENGTH 3.05 m
G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²

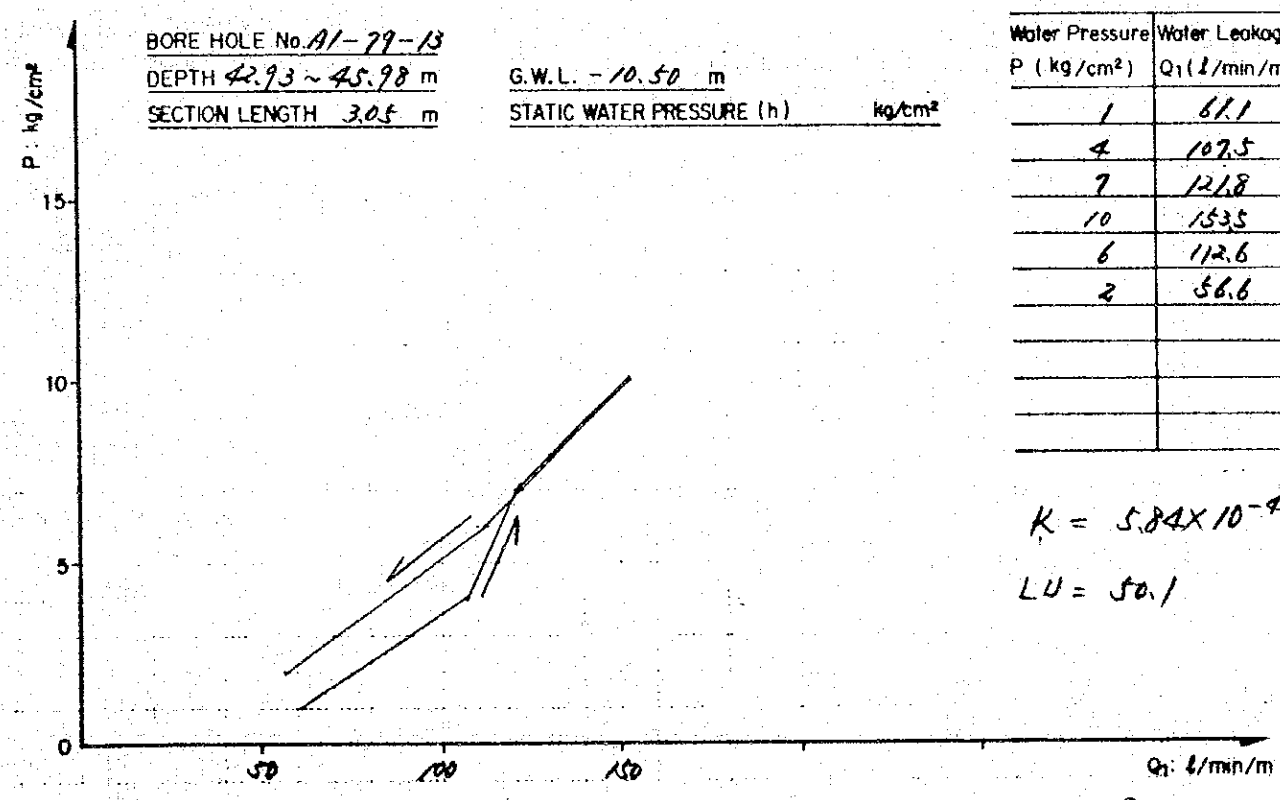
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	53.6
4	96.4
7	120.2
10	147.5
6	100.4
2	49.3



K = 5.10 × 10⁻⁴
Lu = 43.8

BORE HOLE No. A1-79-13
DEPTH 42.93 ~ 45.98 m
SECTION LENGTH 3.05 m
G.W.L. -10.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	61.1
4	107.5
7	121.8
10	153.5
6	112.6
2	56.6



K = 5.84 × 10⁻⁴
Lu = 50.1

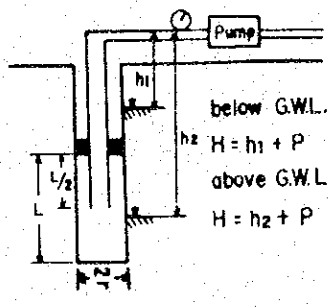
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 6

BORE HOLE No. A1-99-13

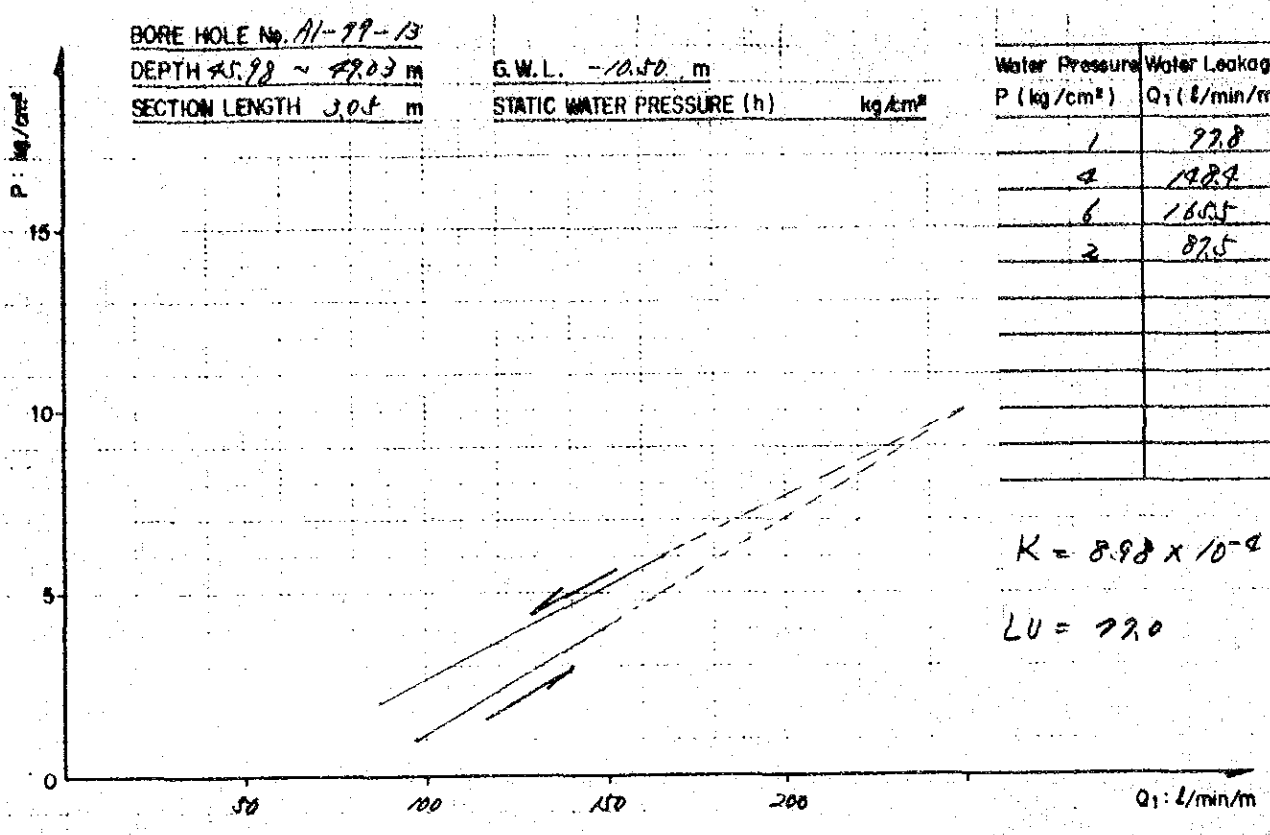
DEPTH 45.98 ~ 49.03 m

SECTION LENGTH 3.05 m

G.W.L. -10.50 m

STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	92.8
4	148.4
6	165.5
2	87.5



K = 8.98 × 10⁻⁴

Lu = 92.0

BORE HOLE No.

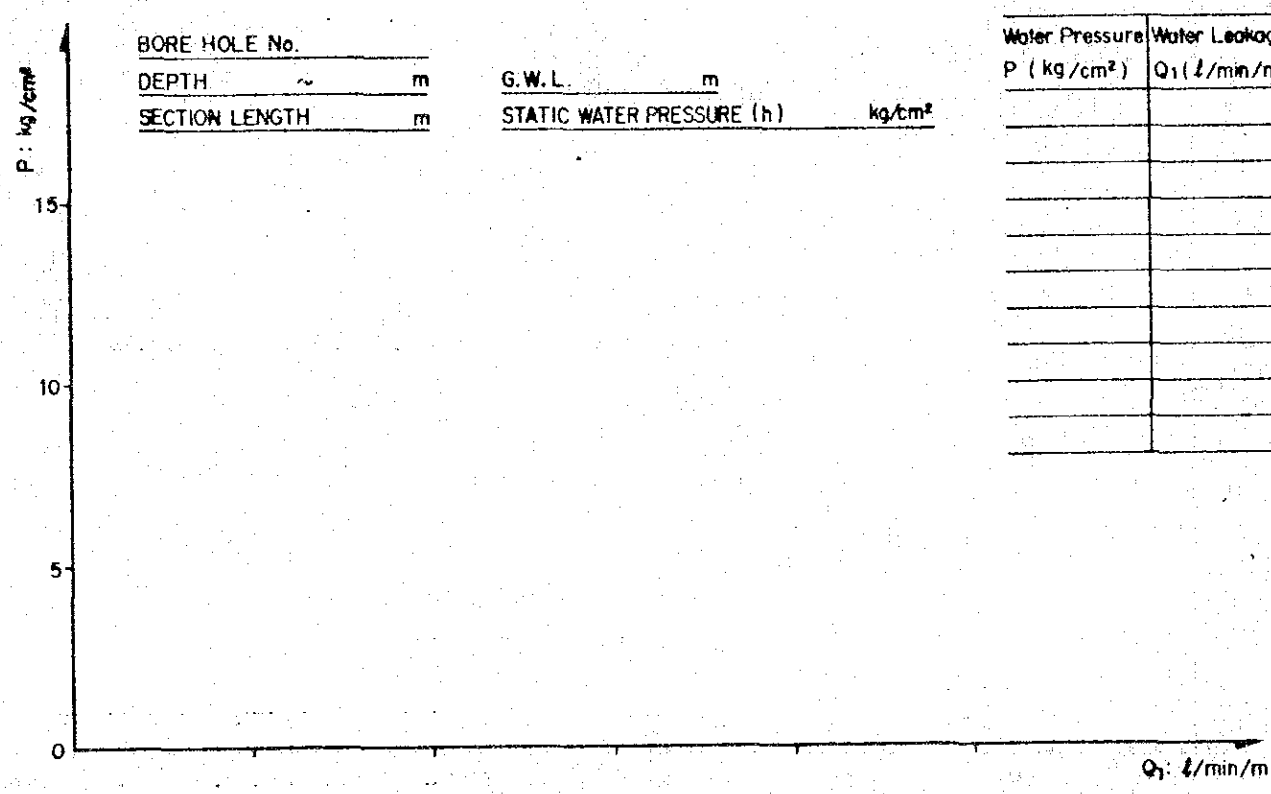
DEPTH ~ m

SECTION LENGTH m

G.W.L. m

STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)



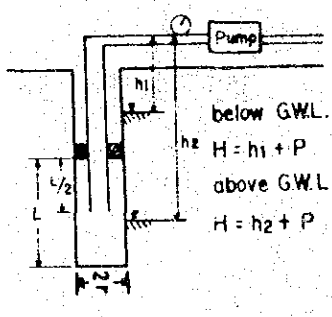
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^4$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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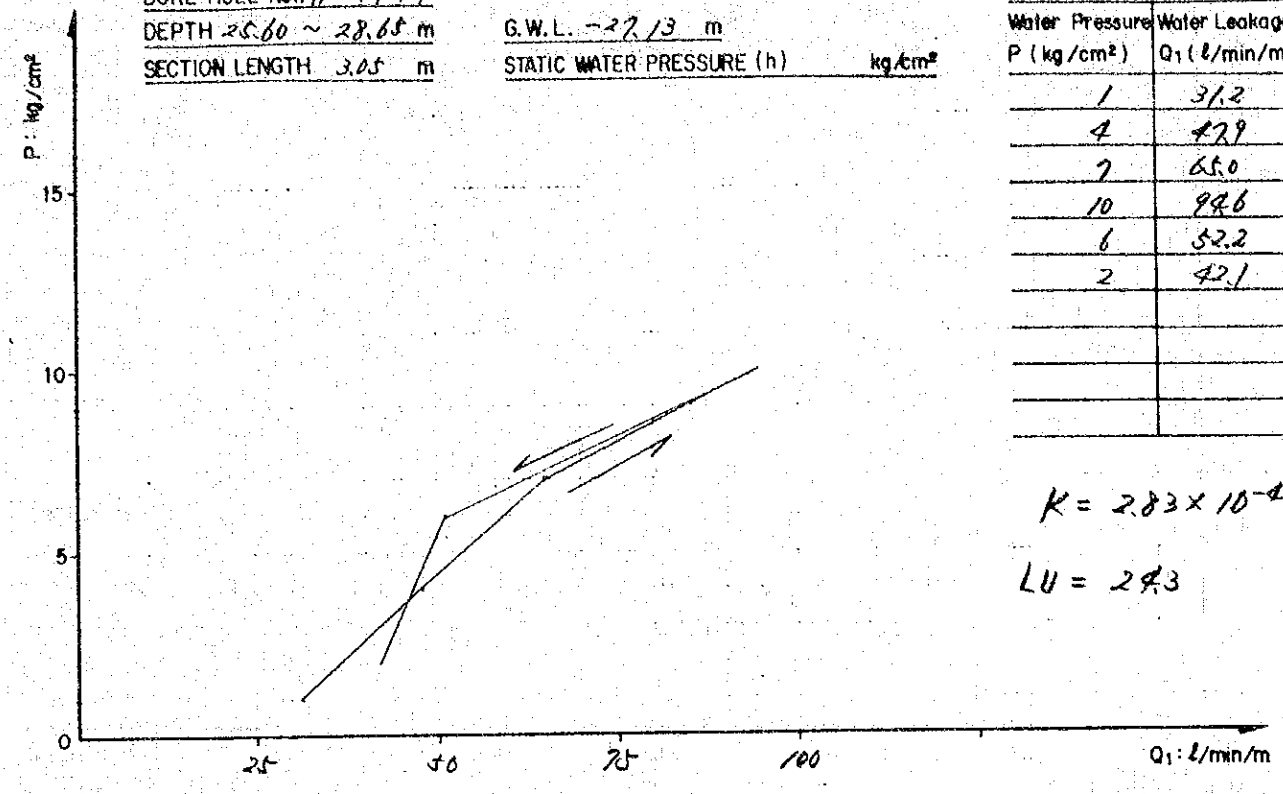
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A1-79-14
DEPTH 25.60 ~ 28.65 m
SECTION LENGTH 3.05 m
G.W.L. -27.13 m
STATIC WATER PRESSURE (h) kg/cm²

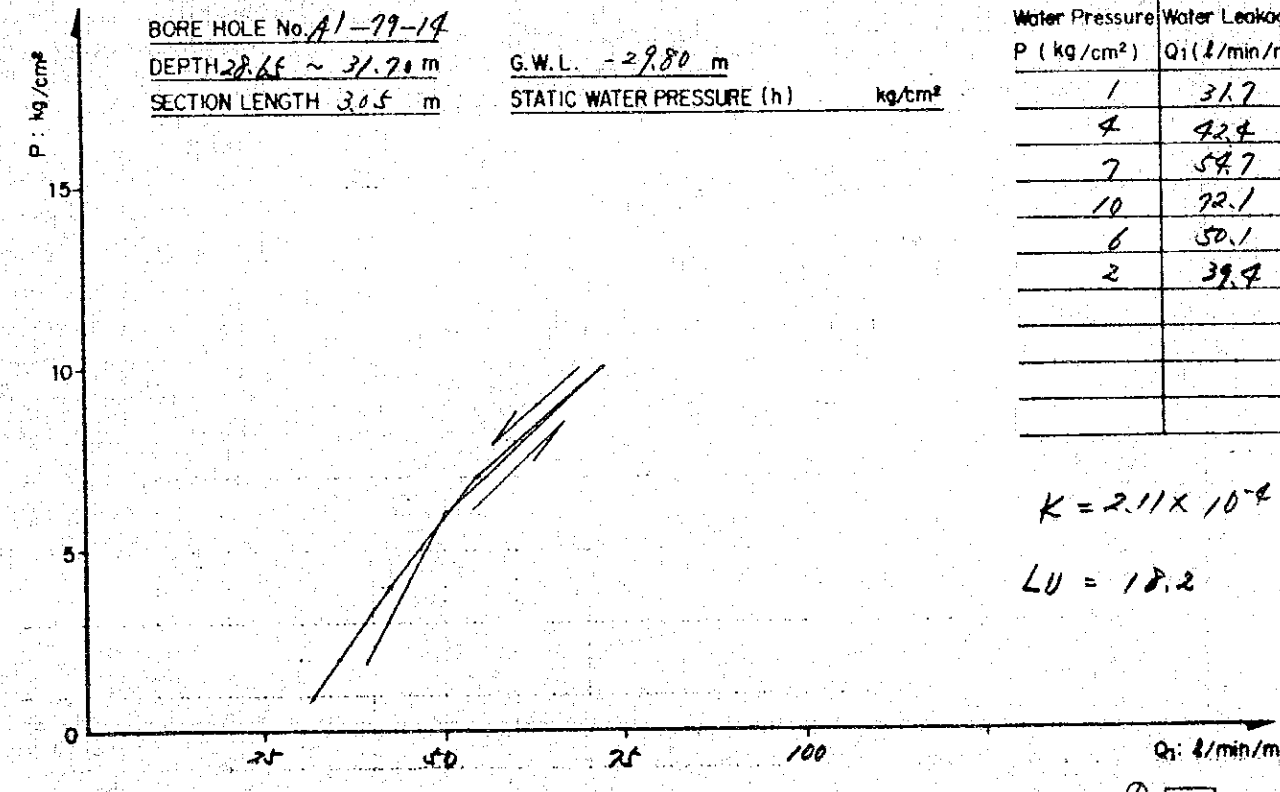


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	31.2
4	42.9
7	65.0
10	99.6
6	52.2
2	42.1

$K = 2.83 \times 10^{-4}$

$Lu = 24.3$

BORE HOLE No. A1-79-14
DEPTH 28.65 ~ 31.70 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	31.7
4	42.4
7	54.7
10	72.1
6	50.1
2	39.4

$K = 2.11 \times 10^{-4}$

$Lu = 18.2$

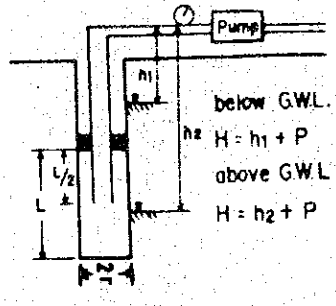
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

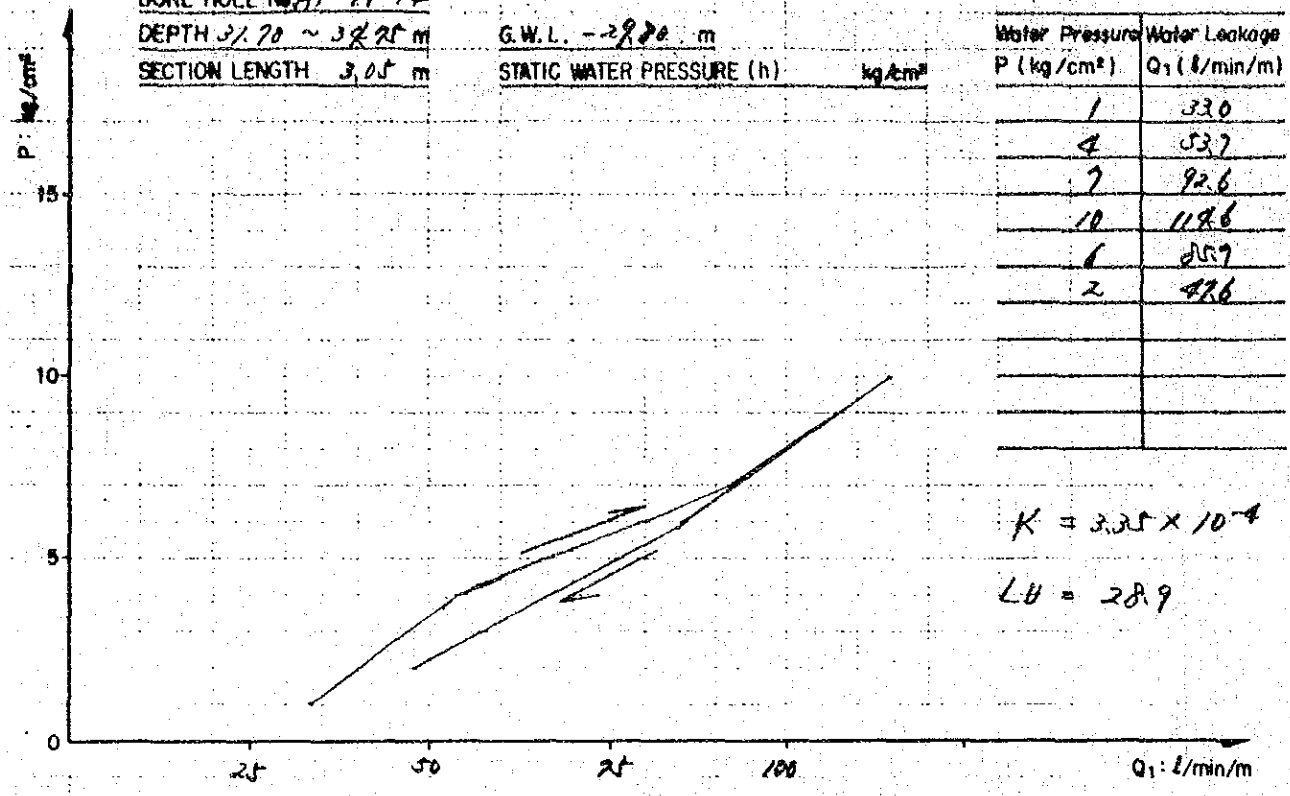
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A1-79-14
DEPTH 31.70 ~ 32.25 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²

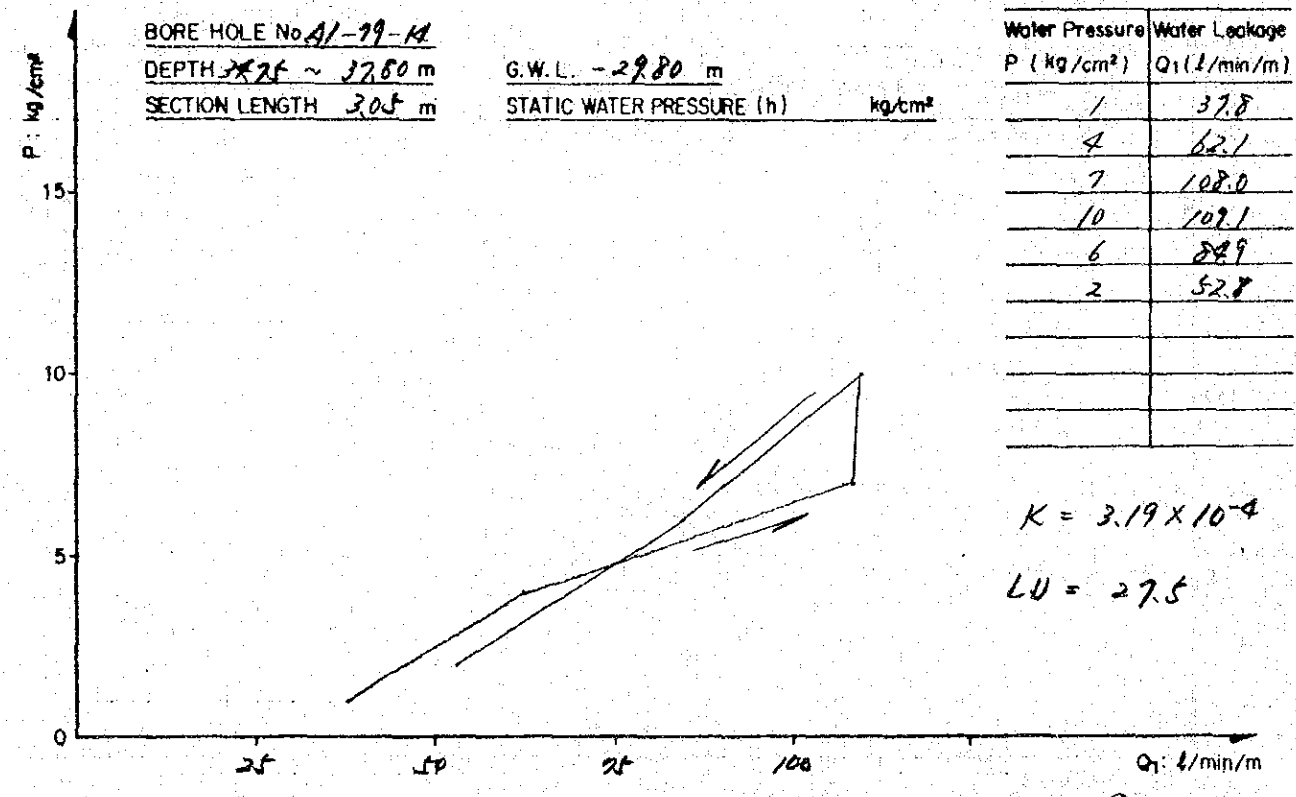


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	33.0
4	53.7
7	92.6
10	119.6
6	88.7
2	47.6

$K = 3.35 \times 10^{-4}$

$Lu = 28.9$

BORE HOLE No. A1-79-14
DEPTH 32.25 ~ 32.80 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	37.8
4	62.1
7	108.0
10	109.1
6	88.9
2	52.8

$K = 3.19 \times 10^{-4}$

$Lu = 27.5$

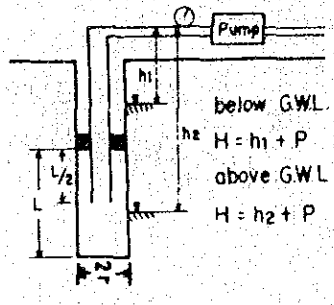
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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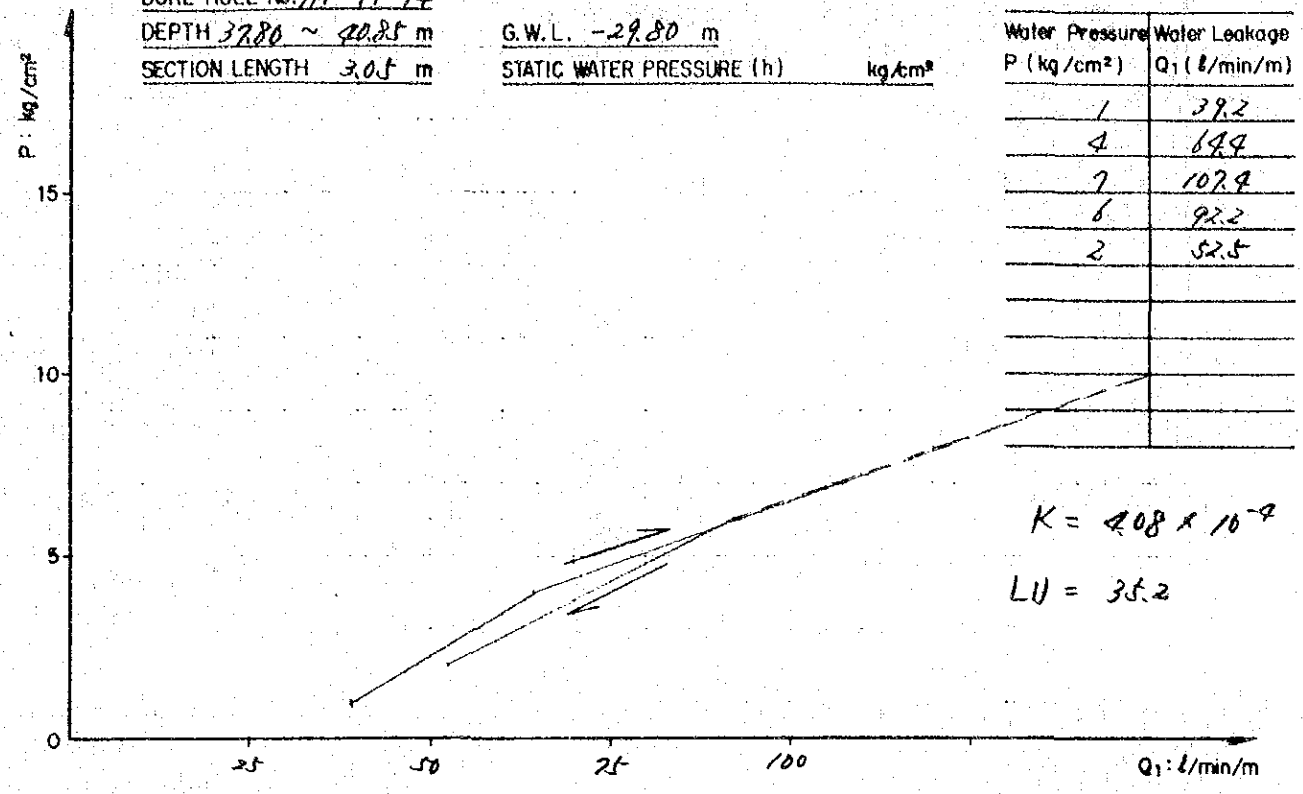
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A1-79-14
DEPTH 37.80 ~ 40.85 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²

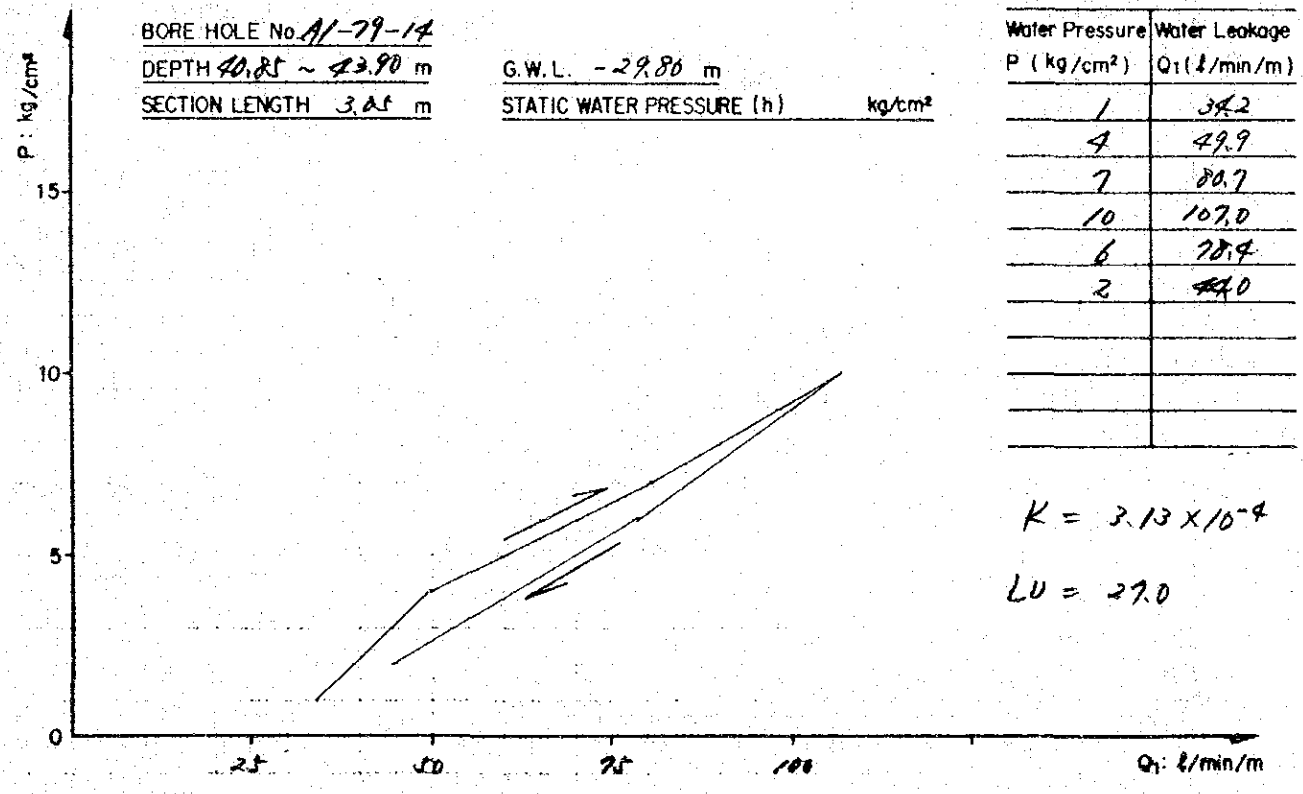
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	39.2
4	64.4
7	102.9
6	92.2
2	52.5



K = 4.08 × 10⁻⁴
Lu = 35.2

BORE HOLE No. A1-79-14
DEPTH 40.85 ~ 43.90 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	34.2
4	49.9
7	80.7
10	107.0
6	78.4
2	40.0



K = 3.13 × 10⁻⁴
Lu = 27.0

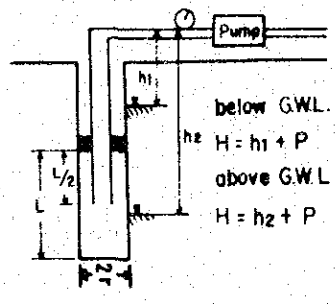
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

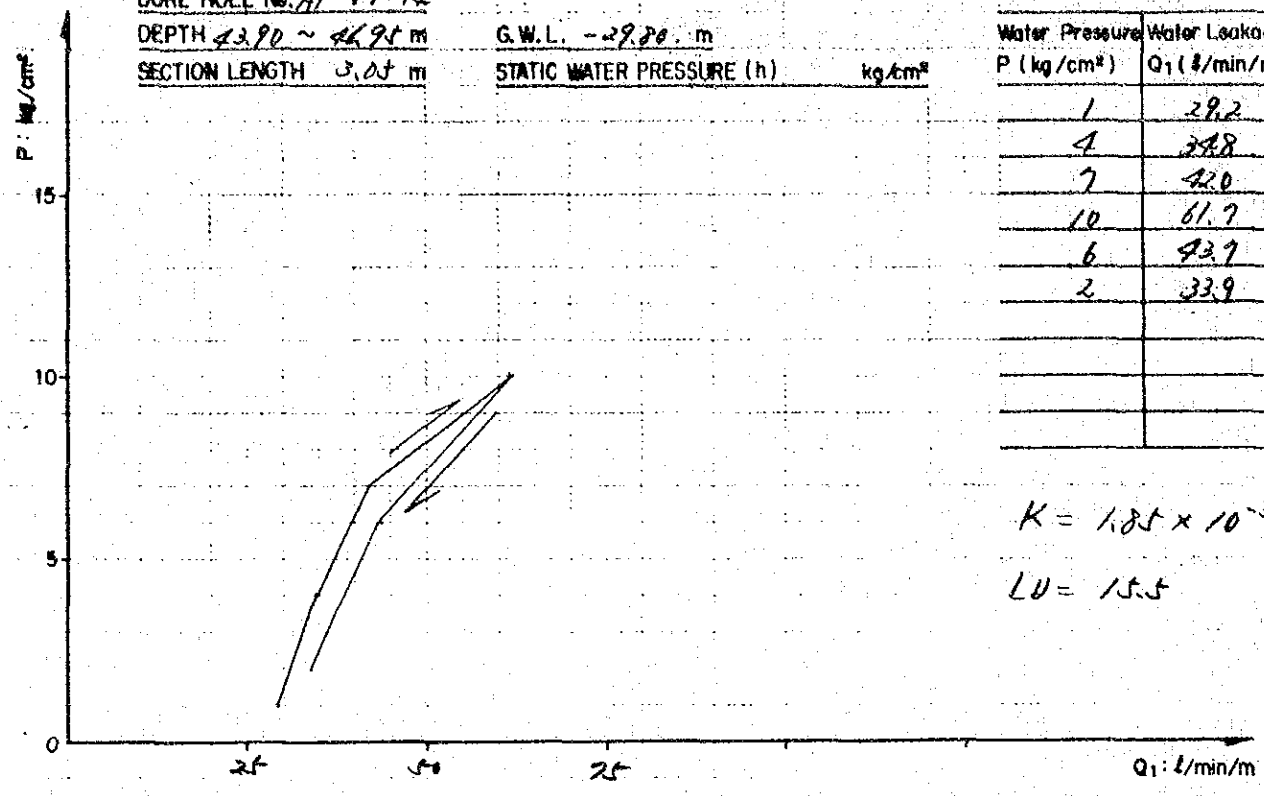
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A1-79-M
DEPTH 43.90 ~ 46.95 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²



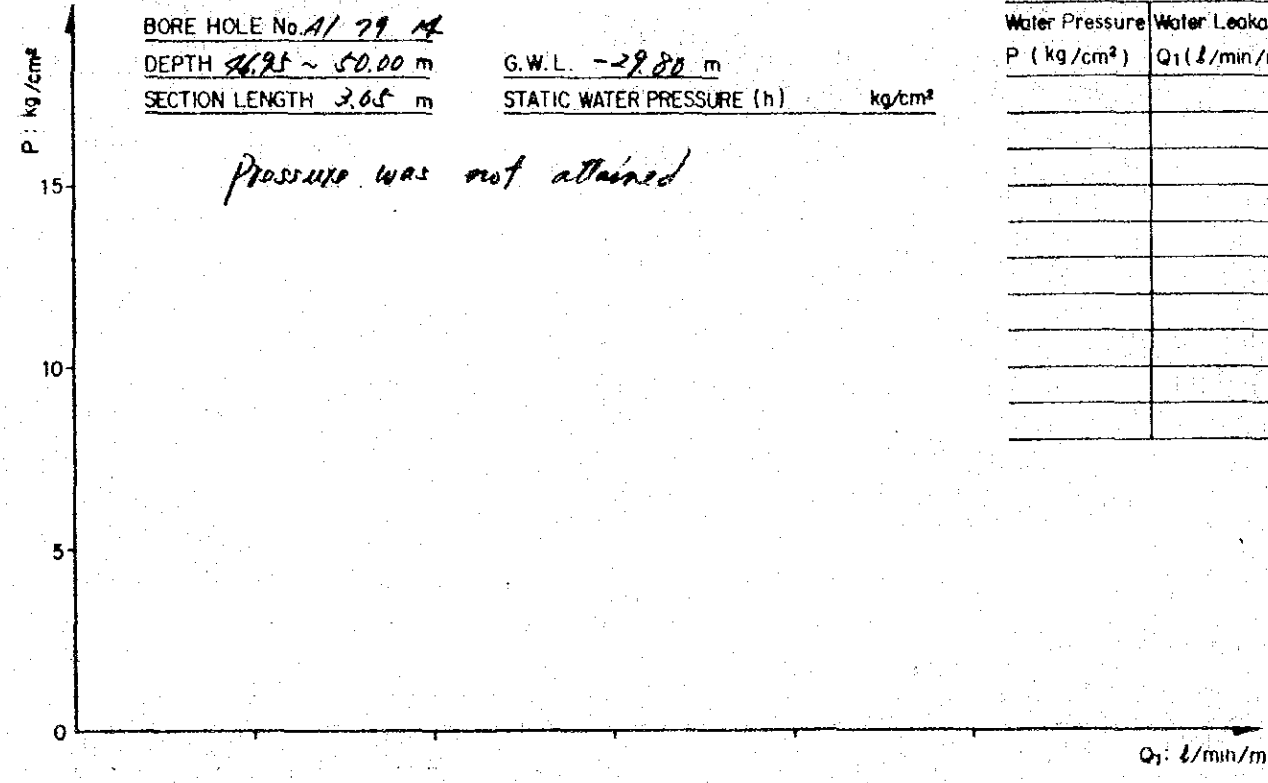
Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	29.2
4	34.8
7	42.0
10	61.7
6	43.7
2	33.9

$K = 1.85 \times 10^{-3}$

$Lu = 15.5$

BORE HOLE No. A1 79 M
DEPTH 46.95 ~ 50.00 m
SECTION LENGTH 3.05 m
G.W.L. -29.80 m
STATIC WATER PRESSURE (h) kg/cm²

Pressure was not attained



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)

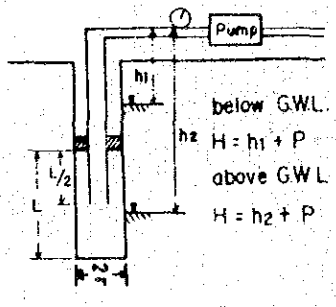
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

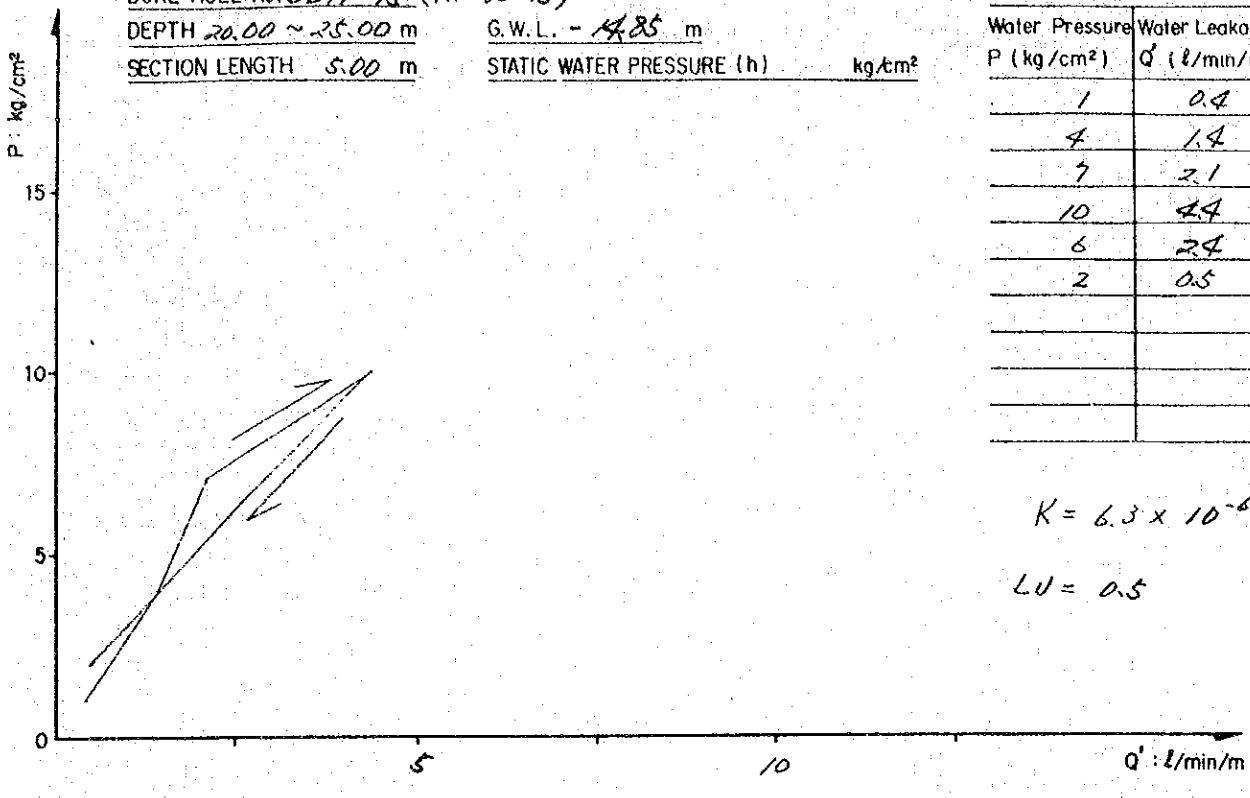
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No

BORE HOLE No. DDH-25 (A1-80-15)
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. - 14.85 m
STATIC WATER PRESSURE (h) kg/cm²

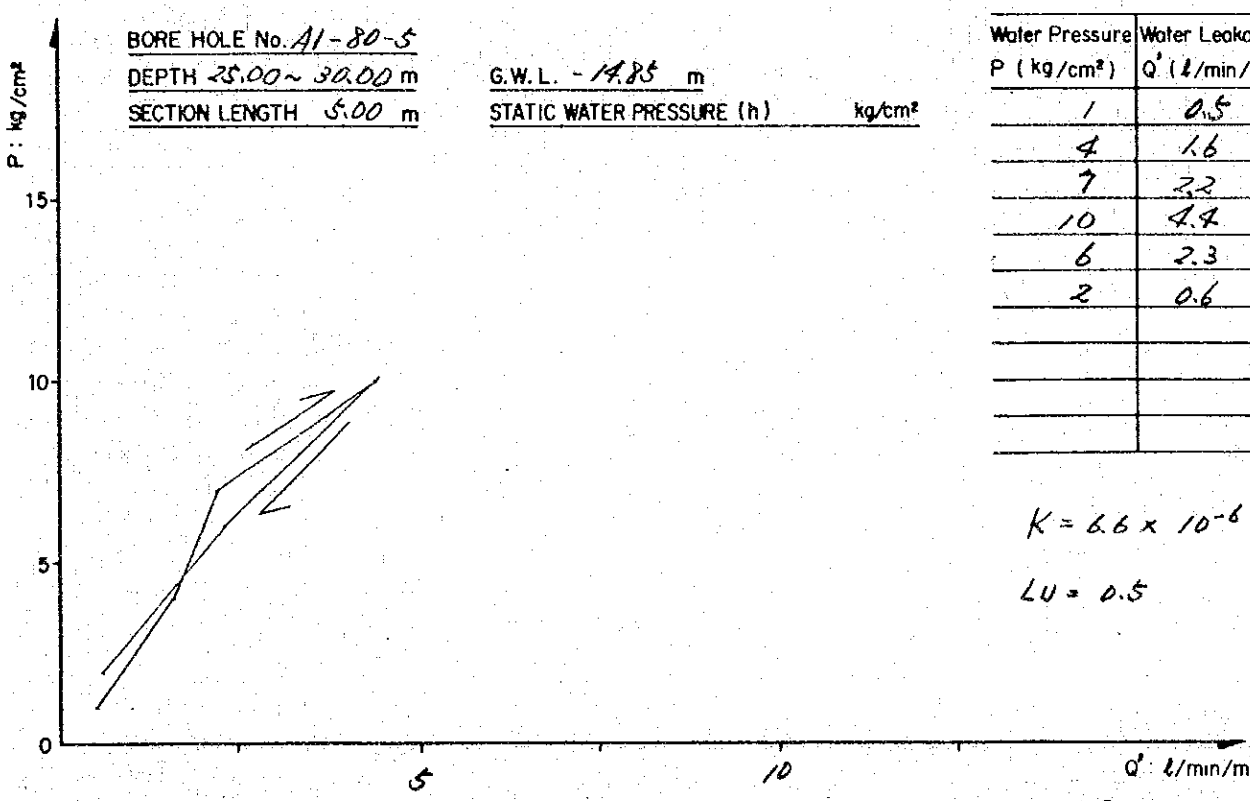


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0.4
4	1.4
7	2.1
10	4.4
6	2.4
2	0.5

K = 6.3 × 10⁻⁶

Lu = 0.5

BORE HOLE No. A1-80-5
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. - 14.85 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0.5
4	1.6
7	2.2
10	4.4
6	2.3
2	0.6

K = 6.6 × 10⁻⁶

Lu = 0.5

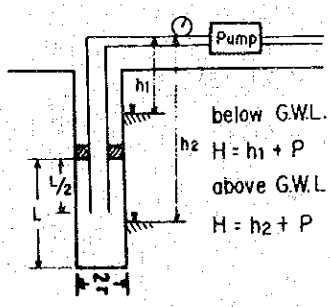
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

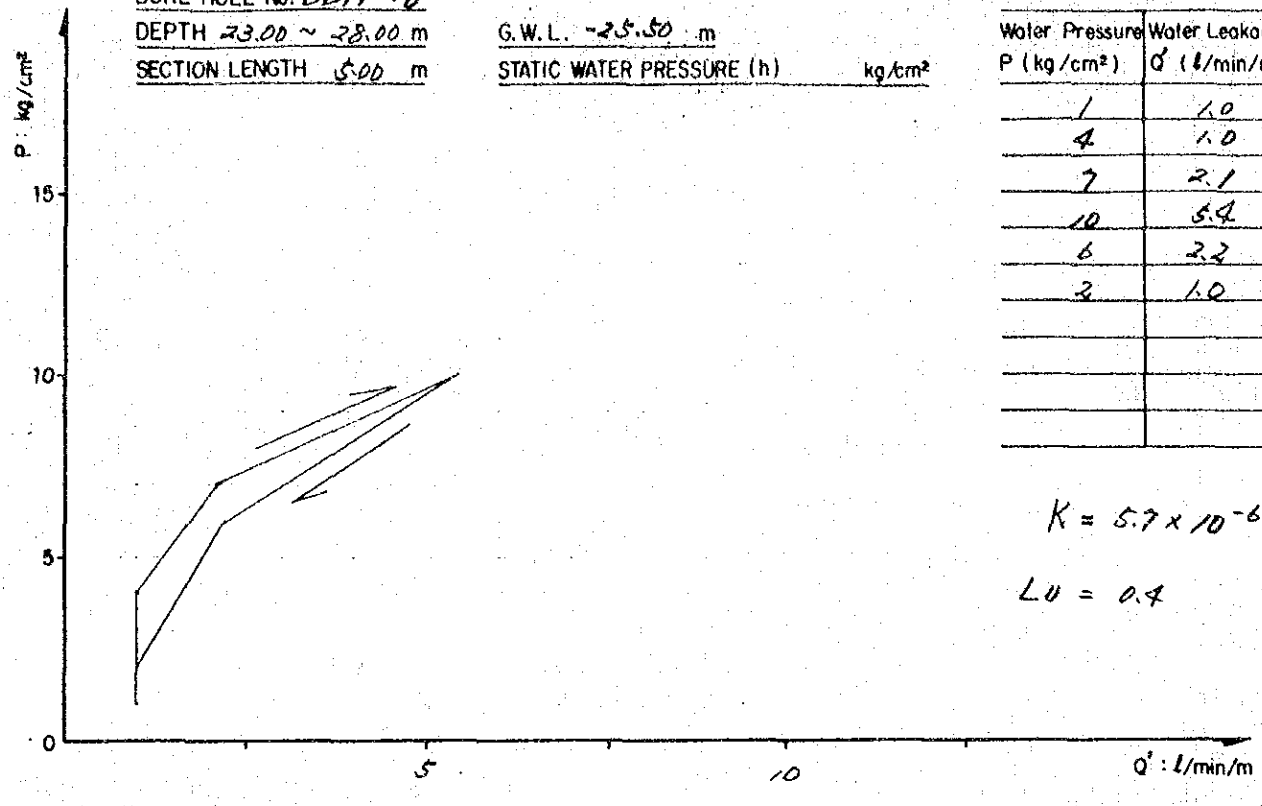
$$Q = Q' \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 16-1

BORE HOLE No. DDH-16
DEPTH 23.00 ~ 28.00 m
SECTION LENGTH 5.00 m
G.W.L. -25.50 m
STATIC WATER PRESSURE (h) kg/cm²

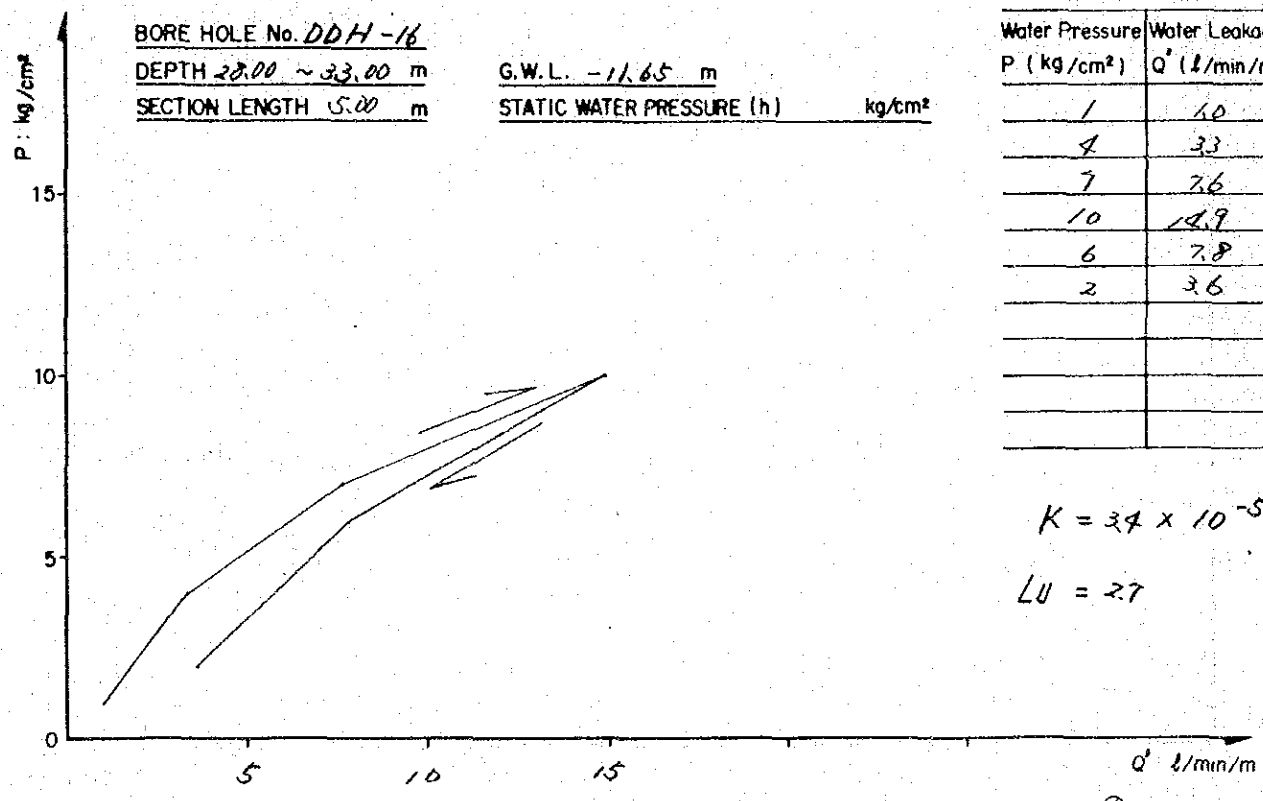


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	1.0
7	2.1
10	5.4
6	2.2
2	1.0

$K = 5.7 \times 10^{-6}$

$Lu = 0.4$

BORE HOLE No. DDH-16
DEPTH 28.00 ~ 33.00 m
SECTION LENGTH 5.00 m
G.W.L. -11.65 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	3.3
7	7.6
10	14.9
6	7.8
2	3.6

$K = 34 \times 10^{-5}$

$Lu = 27$

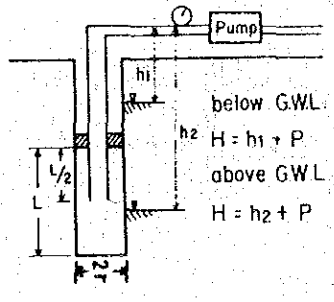
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q}{2\pi \cdot L \cdot H} \times 60 \times \log_{10} \frac{L}{r}$$

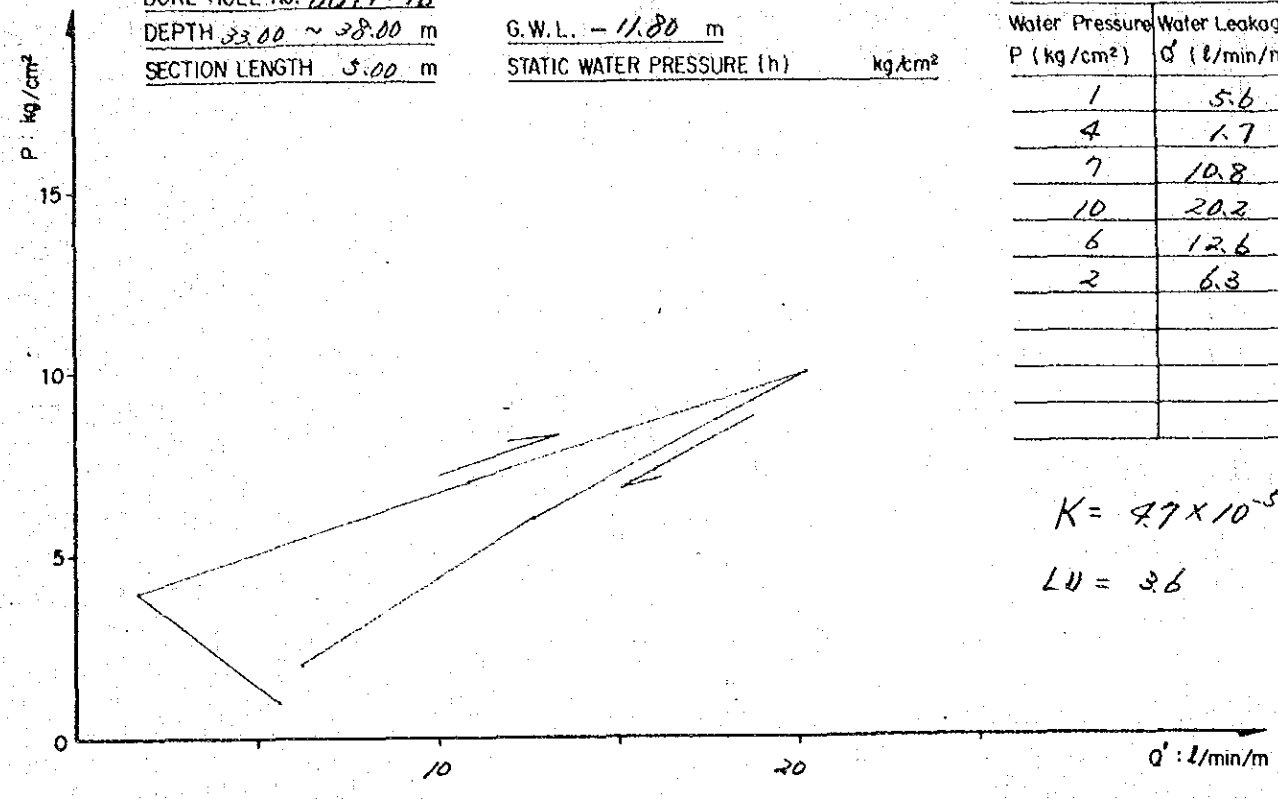
$Q = Q' \times 1000$



WATER PRESSURE TEST DIAGRAM

No 16-2

BORE HOLE No. DDH-16
DEPTH 33.00 ~ 38.00 m
SECTION LENGTH 5.00 m
G.W.L. − 11.80 m
STATIC WATER PRESSURE (h) kg/cm²

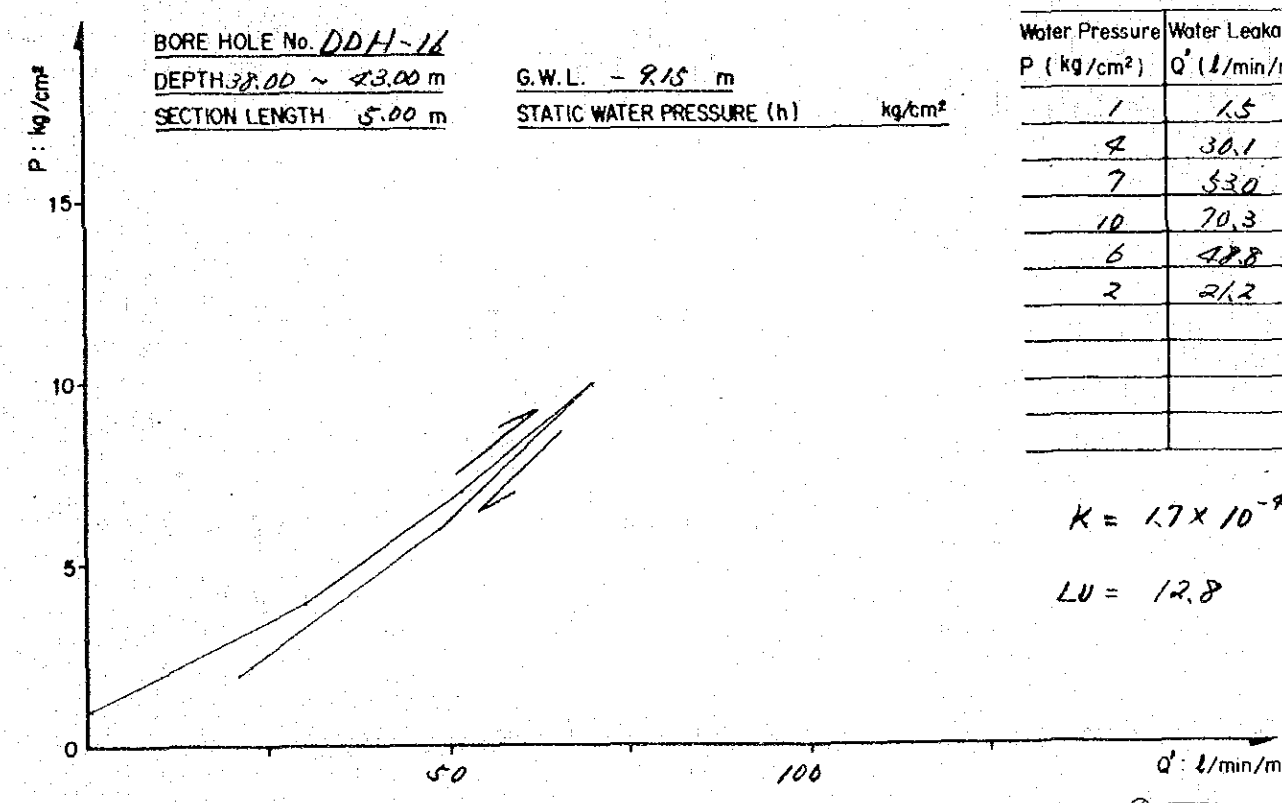


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	5.6
4	1.7
7	10.8
10	20.2
6	12.6
2	6.3

K = 4.7 × 10⁻⁵

Lu = 3.6

BORE HOLE No. DDH-16
DEPTH 38.00 ~ 43.00 m
SECTION LENGTH 5.00 m
G.W.L. − 9.15 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.5
4	30.1
7	53.0
10	70.3
6	48.8
2	21.2

K = 1.7 × 10⁻⁴

Lu = 12.8

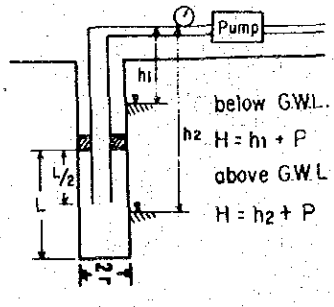
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q}{2\pi \cdot L \cdot H} \times 60 \times \log_{10} \frac{L}{r}$$

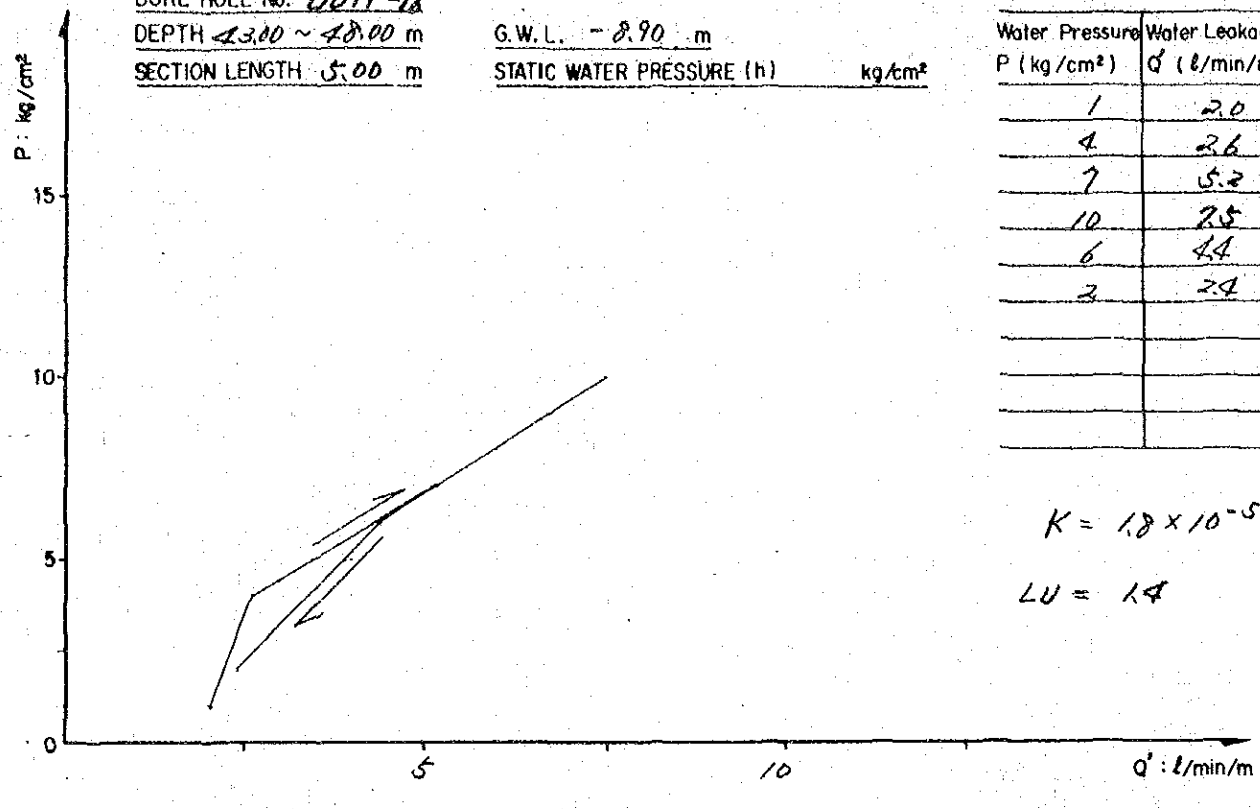
$$Q = Q' \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 16-3

BORE HOLE No. DDH-16
DEPTH 43.00 ~ 48.00 m
SECTION LENGTH 5.00 m
G.W.L. -8.90 m
STATIC WATER PRESSURE (h) kg/cm²

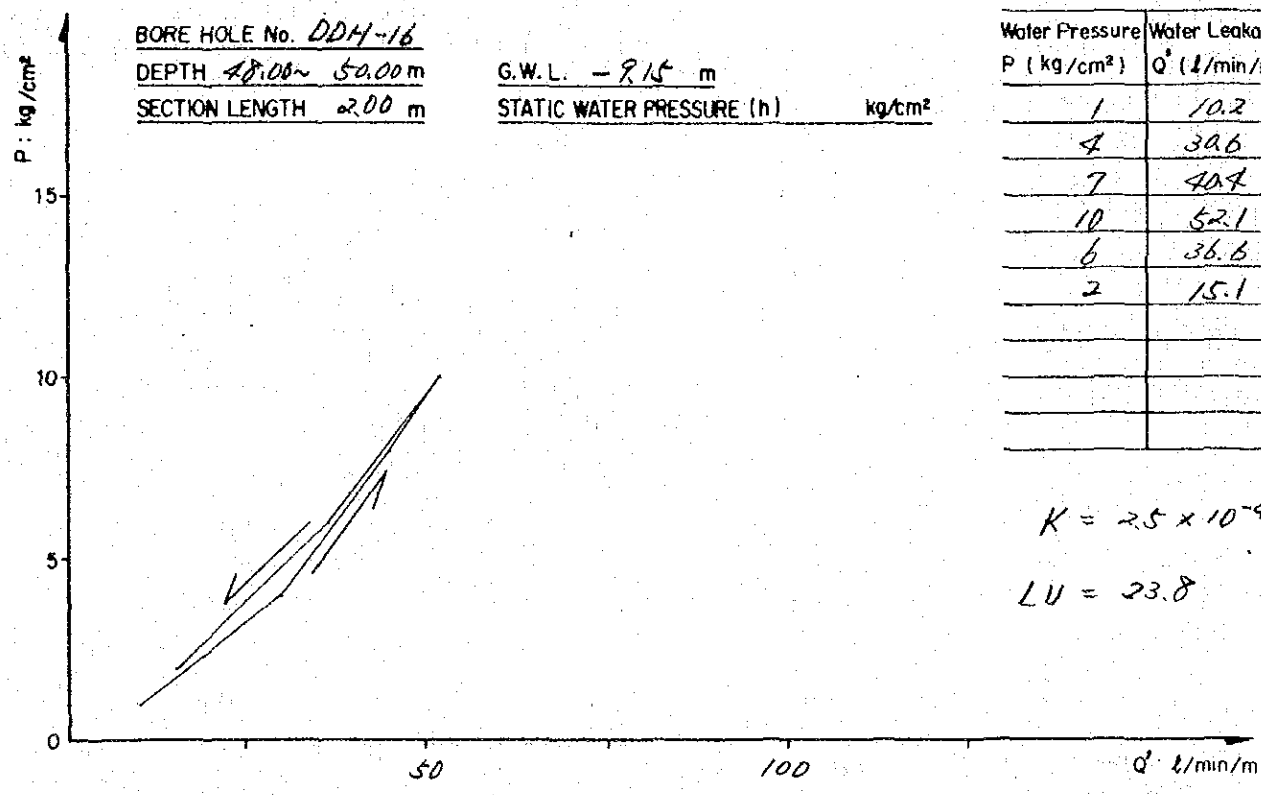


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	2.0
4	2.6
7	5.2
10	7.5
6	4.4
2	2.4

$K = 1.8 \times 10^{-5}$

$Lu = 1.4$

BORE HOLE No. DDH-16
DEPTH 48.00~ 50.00 m
SECTION LENGTH 2.00 m
G.W.L. -9.15 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	10.2
4	39.6
7	40.4
10	52.1
6	36.6
2	15.1

$K = 2.5 \times 10^{-4}$

$Lu = 23.8$

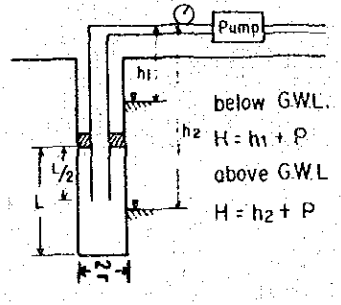
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^{5}$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q}{2\pi \cdot L \cdot H} \times 60 \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$



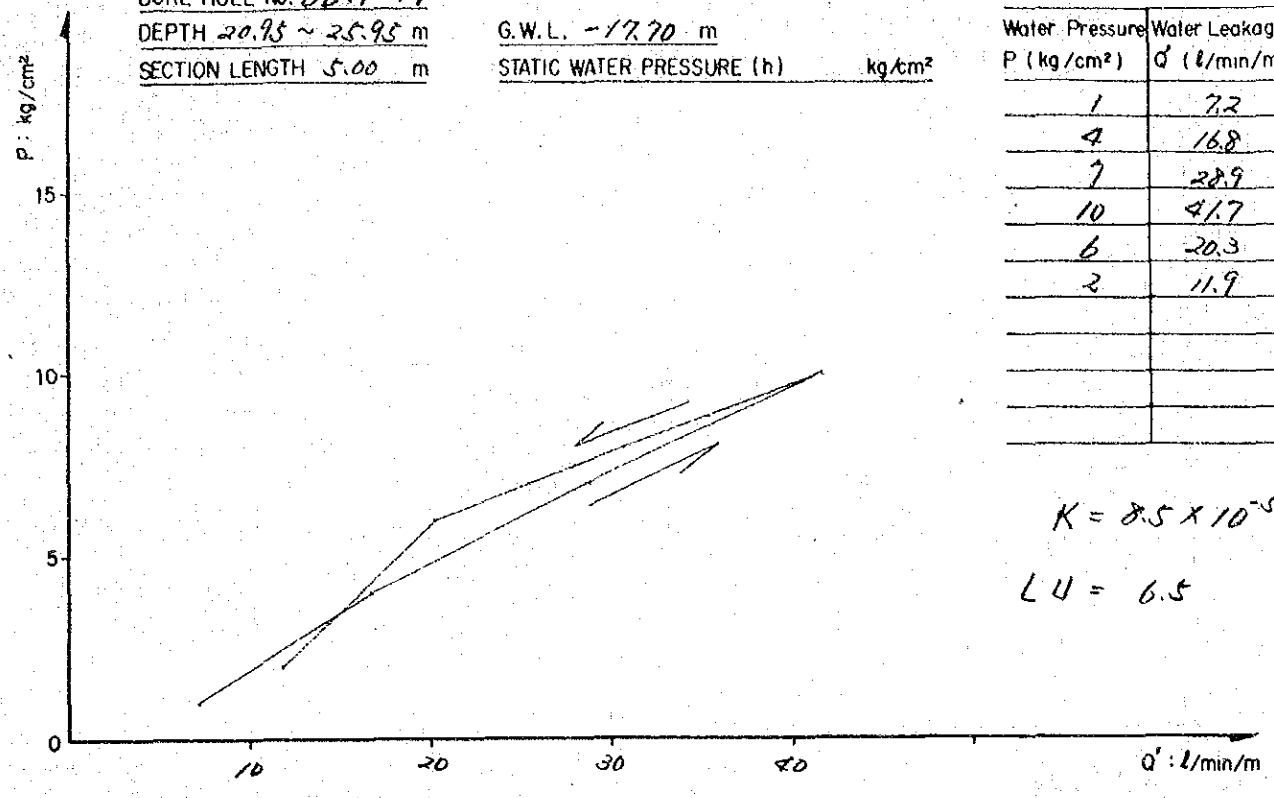
WATER PRESSURE TEST DIAGRAM

No 17-1

BORE HOLE No. DDH-17
DEPTH 20.95 ~ 25.95 m
SECTION LENGTH 5.00 m

G.W.L. -17.70 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (l/min/m)
1	7.2
4	16.8
7	28.9
10	41.7
6	20.3
2	11.9



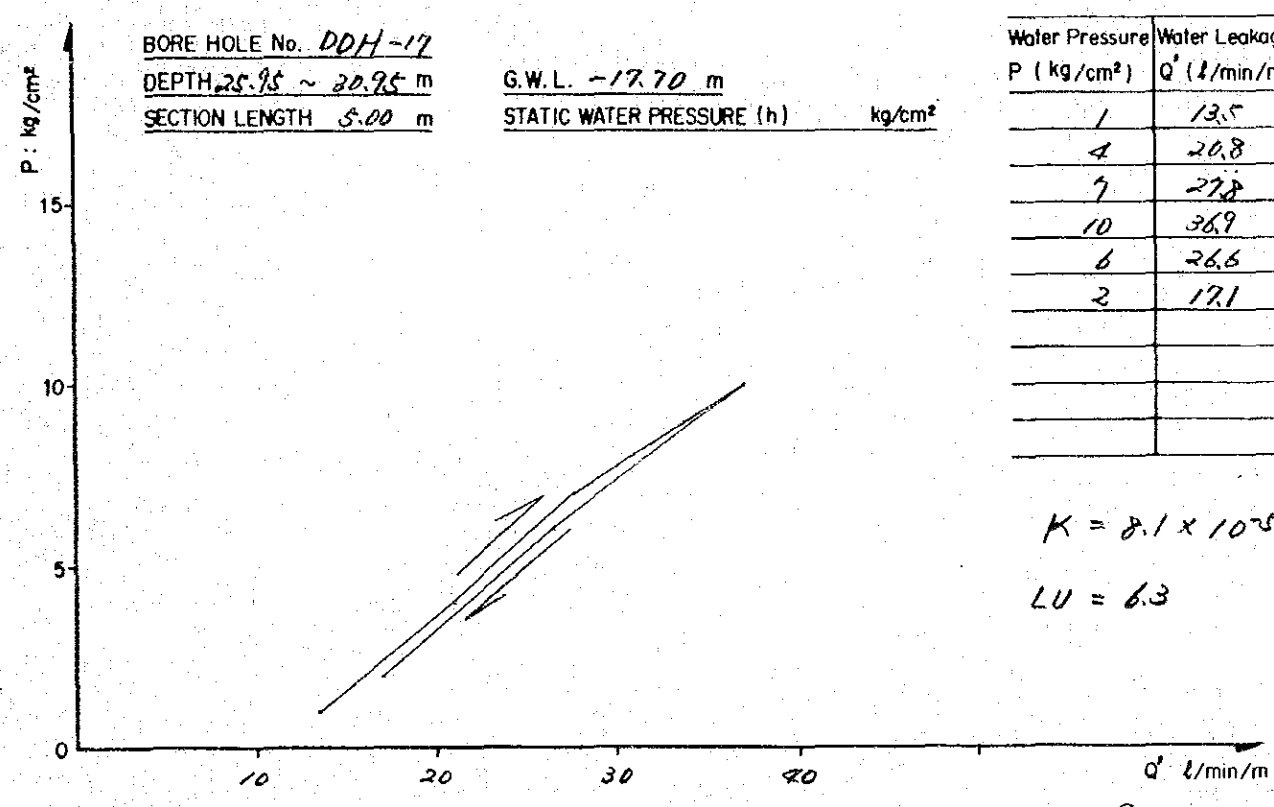
$K = 8.5 \times 10^{-5}$

$LU = 6.5$

BORE HOLE No. DDH-17
DEPTH 25.95 ~ 30.95 m
SECTION LENGTH 5.00 m

G.W.L. -17.70 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (l/min/m)
1	13.5
4	20.8
7	27.8
10	36.9
6	26.6
2	17.1



$K = 8.1 \times 10^{-5}$

$LU = 6.3$

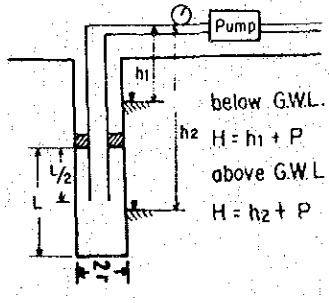
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q\ /60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

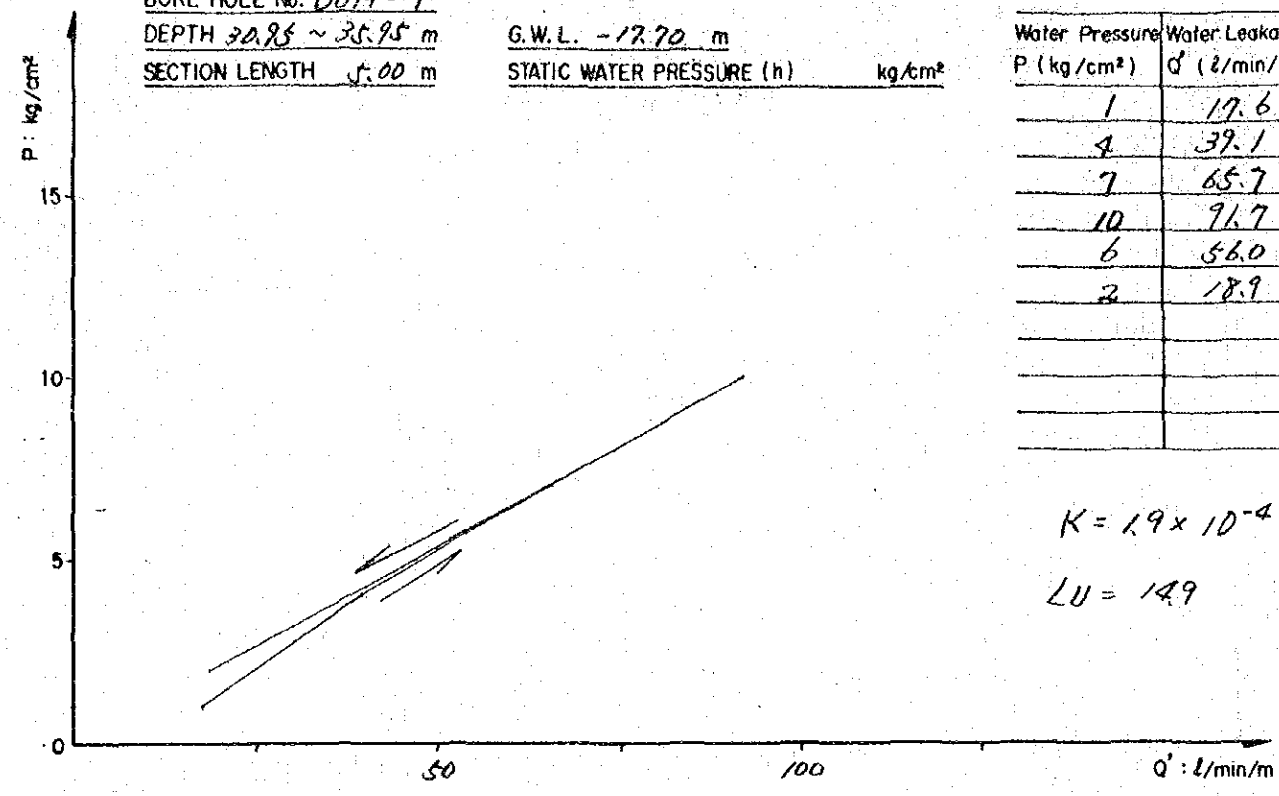
$Q = Q' \times 1000$



WATER PRESSURE TEST DIAGRAM

No 17-2

BORE HOLE No. DDH-17
DEPTH 30.95 ~ 35.95 m
SECTION LENGTH 5.00 m
G.W.L. -17.70 m
STATIC WATER PRESSURE (h) kg/cm²

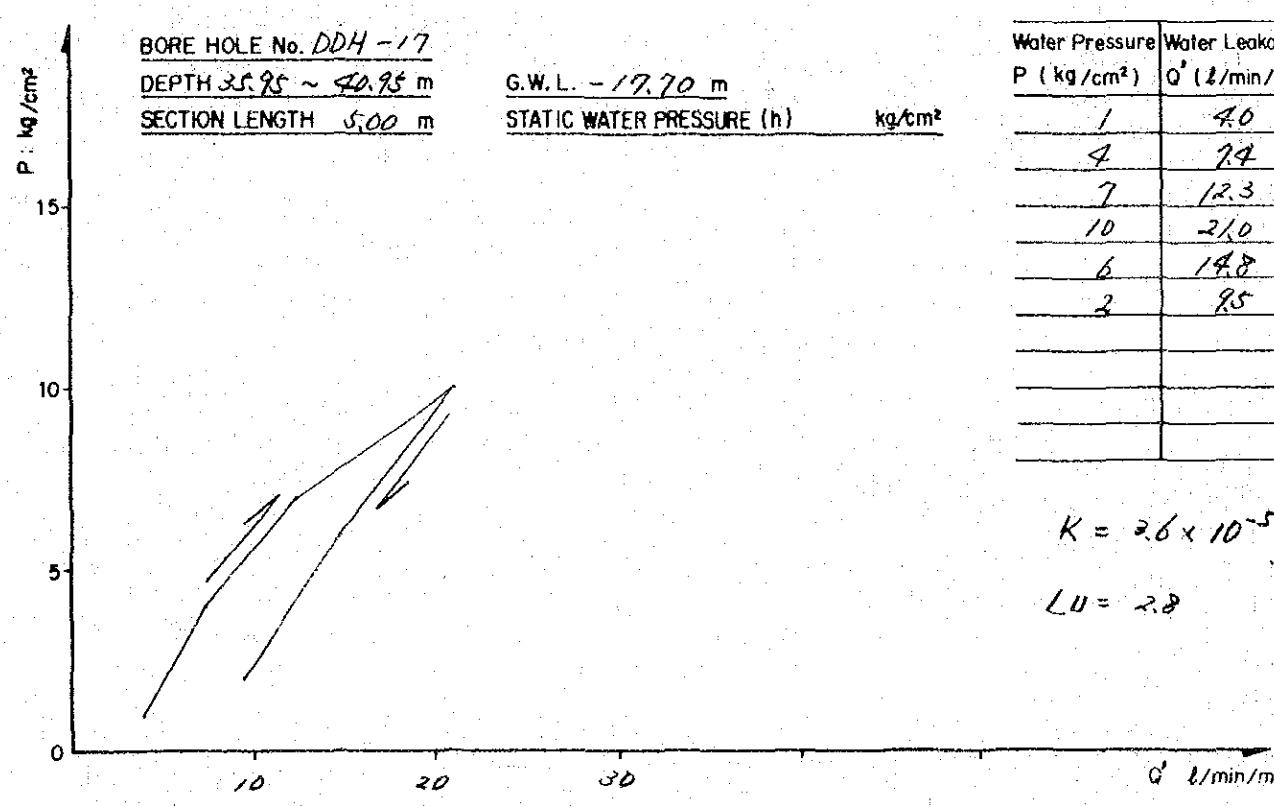


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	19.6
4	39.1
7	65.7
10	91.7
6	56.0
2	18.9

K = 1.9 × 10⁻⁴

Lu = 14.9

BORE HOLE No. DDH-17
DEPTH 35.95 ~ 40.95 m
SECTION LENGTH 5.00 m
G.W.L. -17.70 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	4.0
4	7.4
7	12.3
10	21.0
6	14.8
2	8.5

K = 2.6 × 10⁻⁵

Lu = 2.8

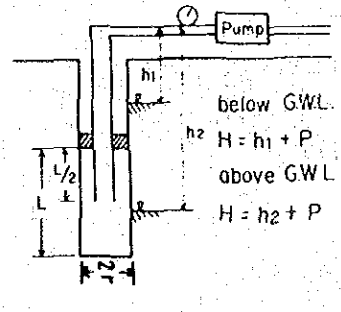
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q = Q' \times 1000$$



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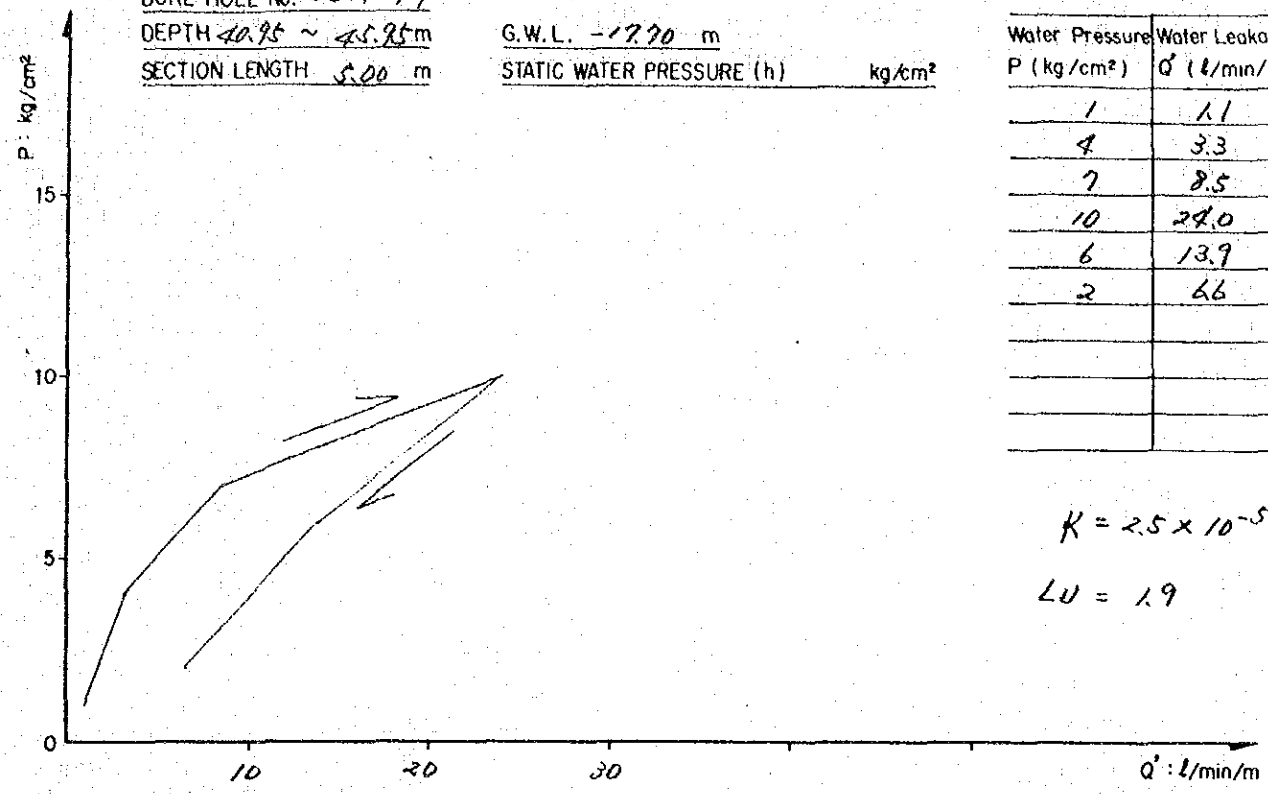
WATER PRESSURE TEST DIAGRAM

No 17-3

BORE HOLE No. DDH-17
DEPTH 40.95 ~ 45.95 m
SECTION LENGTH 5.00 m
G.W.L. -17.70 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.1
4	3.3
7	8.5
10	24.0
6	13.9
2	6.6

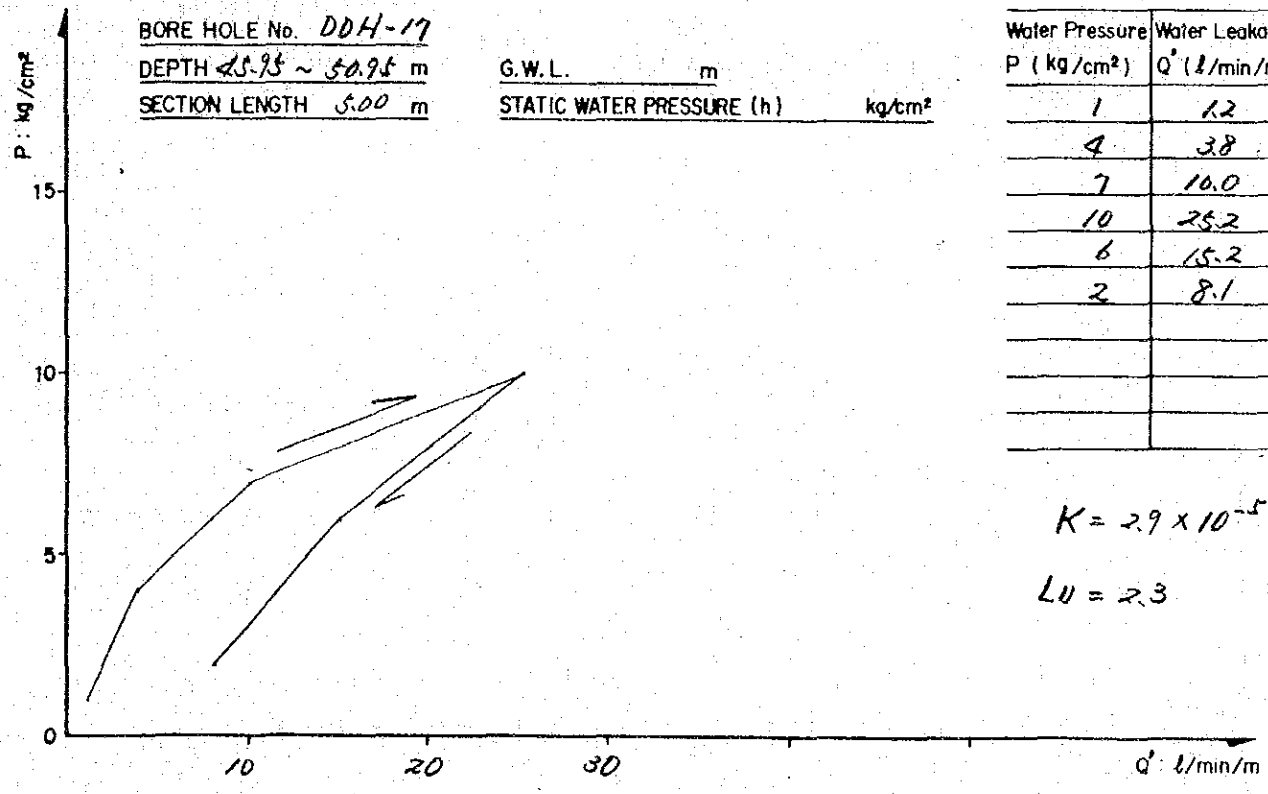


$K = 2.5 \times 10^{-5}$

$Lu = 1.9$

BORE HOLE No. DDH-17
DEPTH 45.95 ~ 50.95 m
SECTION LENGTH 5.00 m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.2
4	3.8
7	10.0
10	25.2
6	15.2
2	8.1



$K = 2.9 \times 10^{-5}$

$Lu = 2.3$

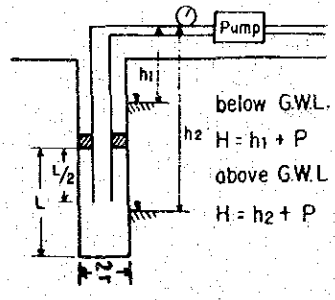
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.30 \ / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

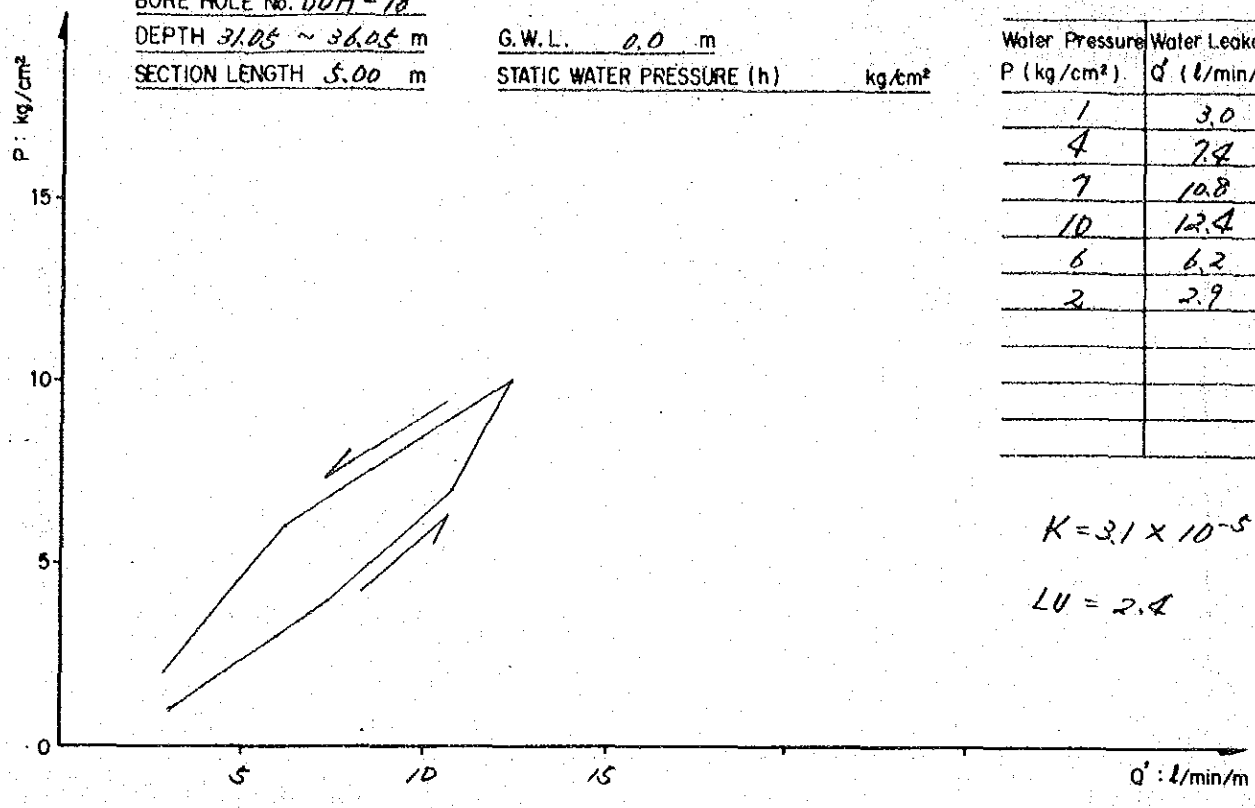
$Q = Q' \times 1000$



No 18-1

WATER PRESSURE TEST DIAGRAM

BORE HOLE No. DDH-18
DEPTH 31.05 ~ 36.05 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

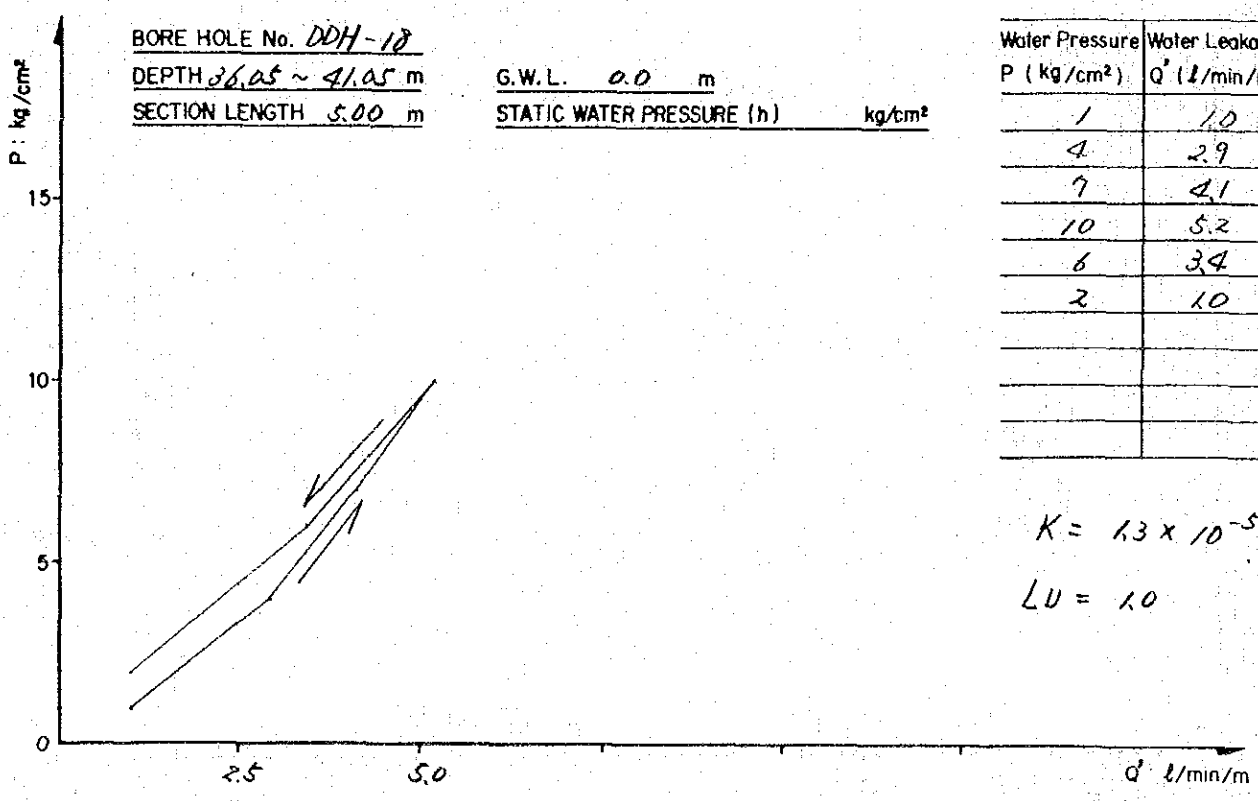


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	3.0
4	7.4
7	10.8
10	12.4
6	6.2
2	2.9

$K = 3.1 \times 10^{-5}$

$Lu = 2.4$

BORE HOLE No. DDH-18
DEPTH 36.05 ~ 41.05 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.9
7	4.1
10	5.2
6	3.4
2	1.0

$K = 1.3 \times 10^{-5}$

$Lu = 1.0$

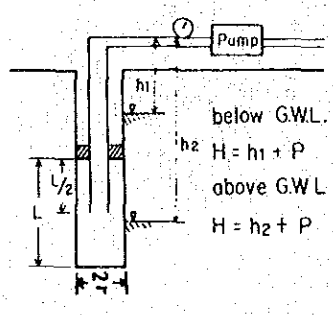
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.30}{2\pi \cdot L \cdot H} \times 60 \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$



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WATER PRESSURE TEST DIAGRAM

No 18-2

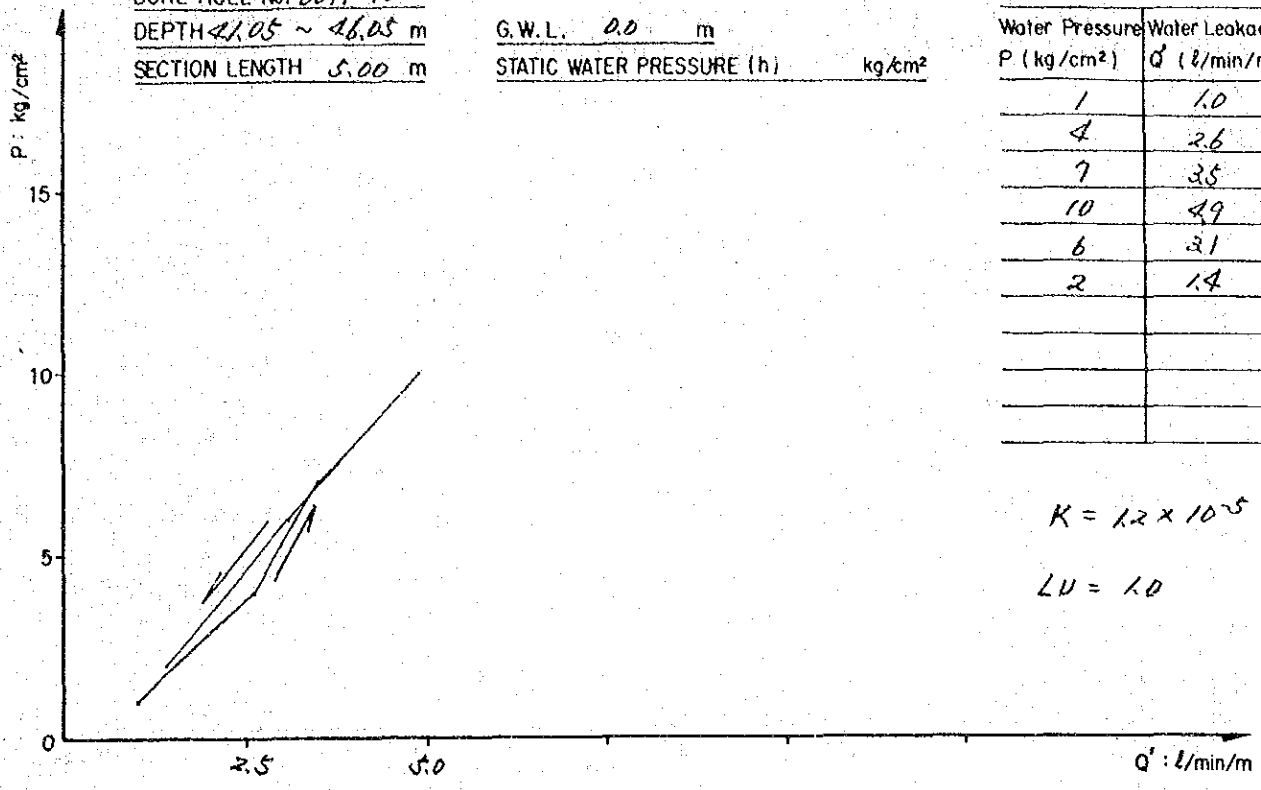
BORE HOLE No. DDH-18
DEPTH 41.05 ~ 46.05 m
SECTION LENGTH 5.00 m

G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.6
7	3.5
10	4.9
6	2.1
2	1.4

K = 1.2 × 10⁻⁵

LU = 1.0



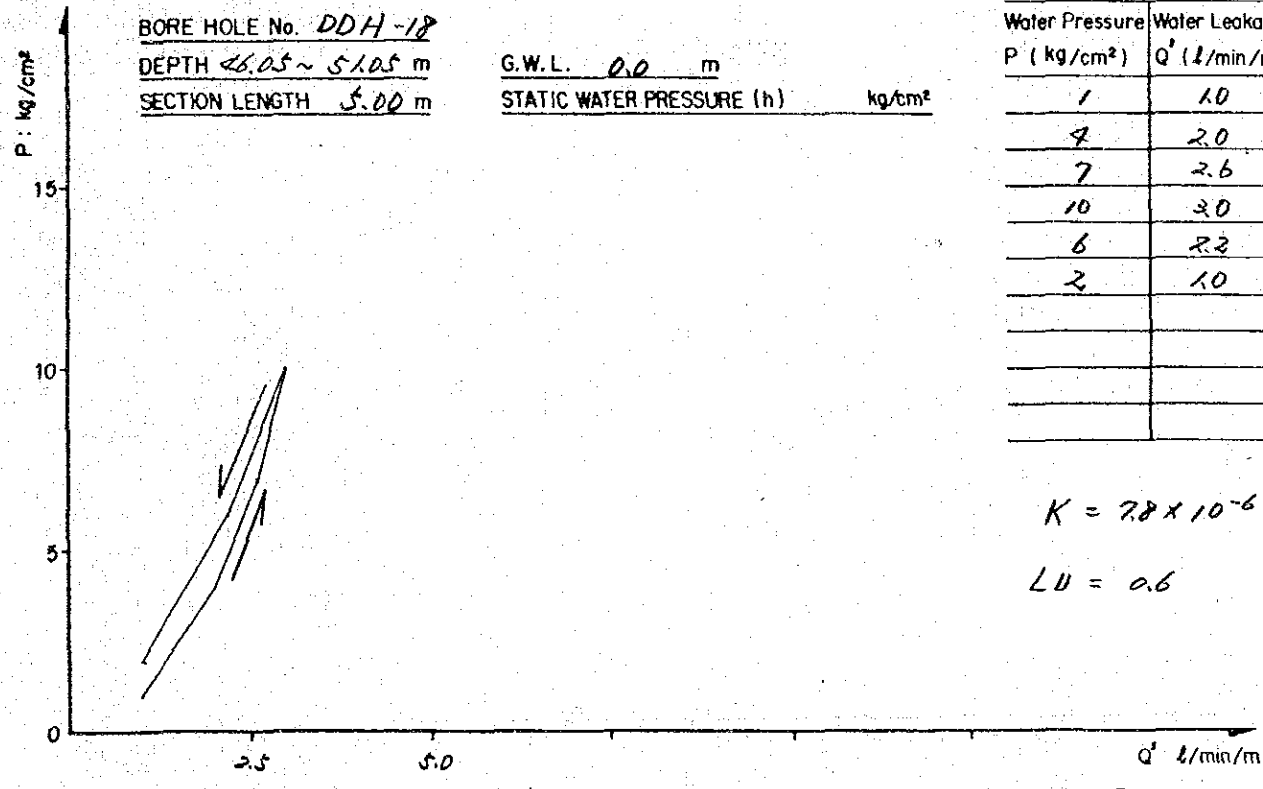
BORE HOLE No. DDH-18
DEPTH 46.05 ~ 51.05 m
SECTION LENGTH 5.00 m

G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.0
7	2.6
10	3.0
6	2.3
2	1.0

K = 7.8 × 10⁻⁶

LU = 0.6



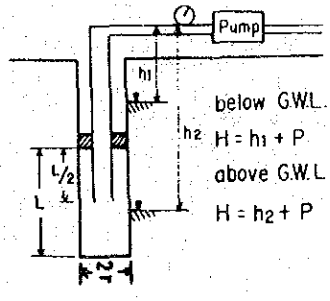
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q\ /60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q = Q' \times 1000$$

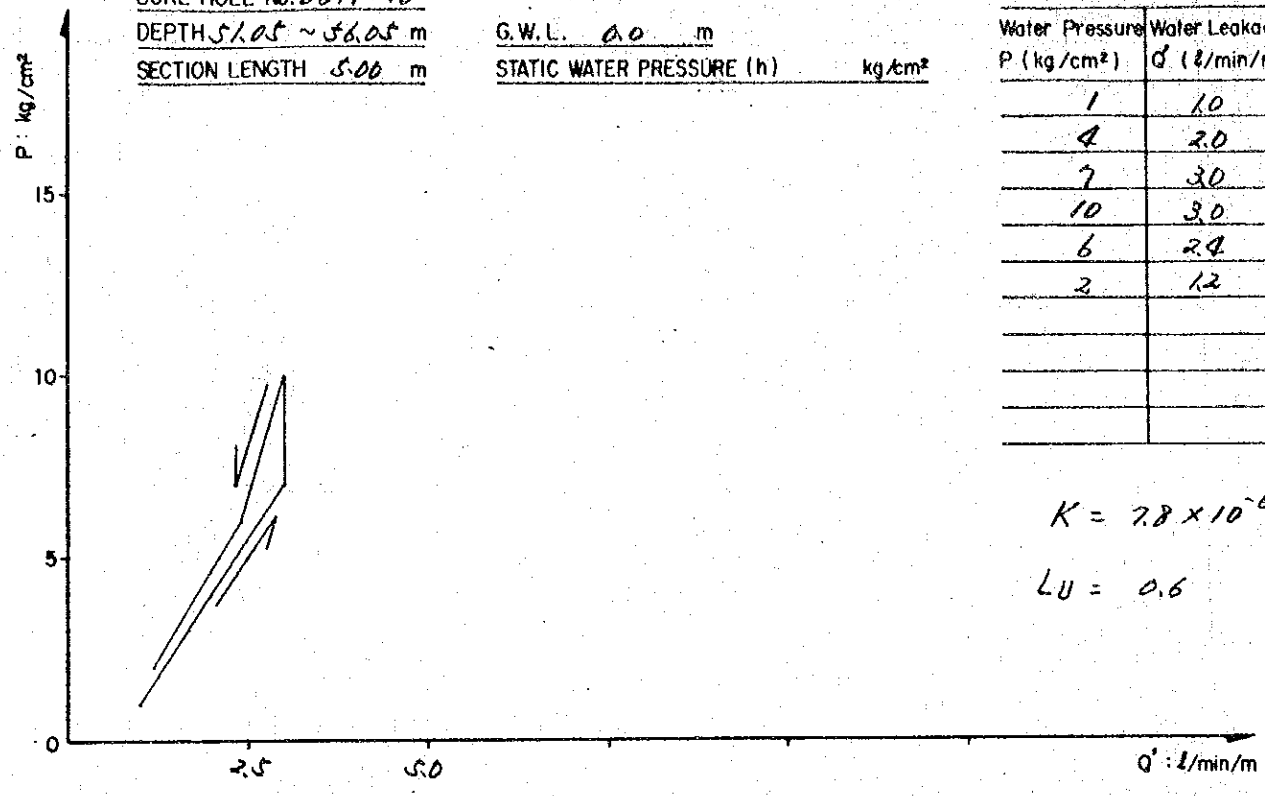


WATER PRESSURE TEST DIAGRAM

No 18-3

BORE HOLE No. DDH-18
DEPTH 51.05 ~ 56.05 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.0
7	3.0
10	3.0
6	2.4
2	1.2

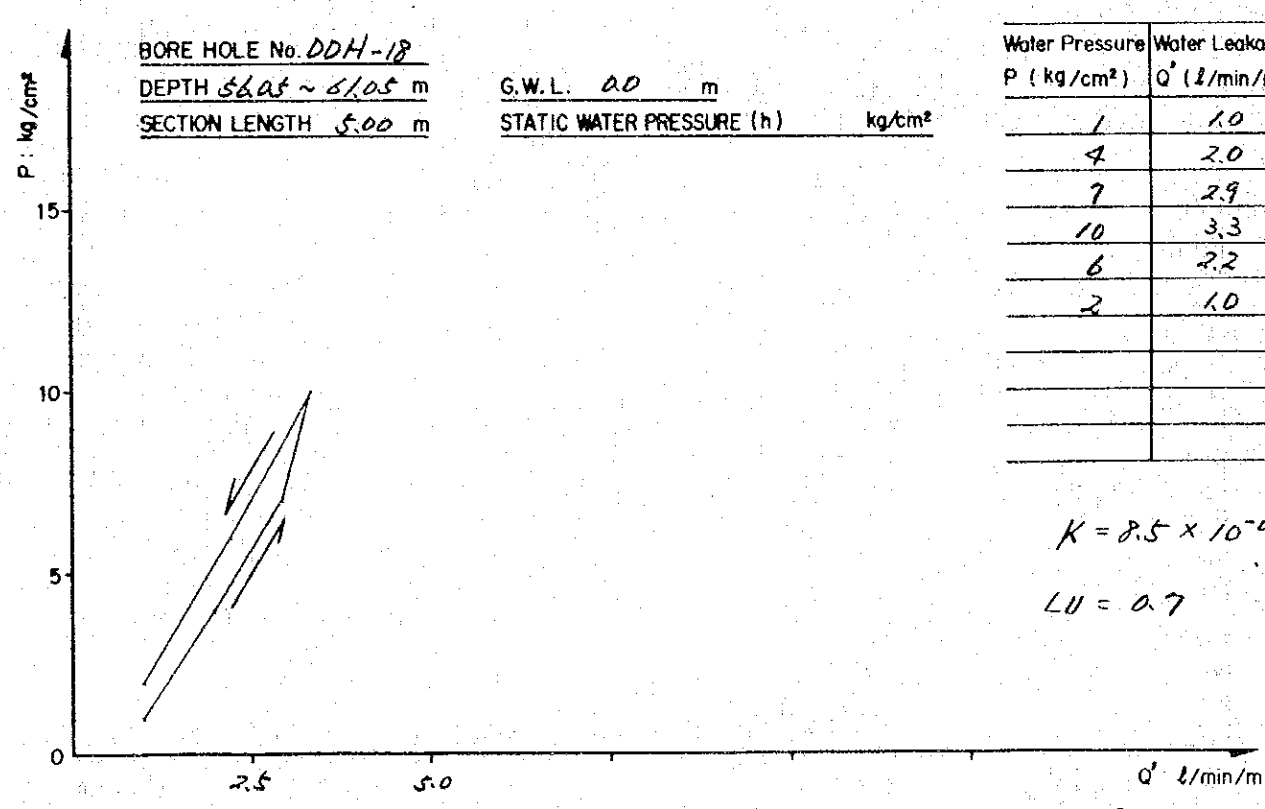


$K = 2.8 \times 10^{-6}$

$Lu = 0.6$

BORE HOLE No. DDH-18
DEPTH 56.05 ~ 61.05 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.0
7	2.9
10	3.3
6	2.2
2	1.0



$K = 2.5 \times 10^{-6}$

$Lu = 0.7$

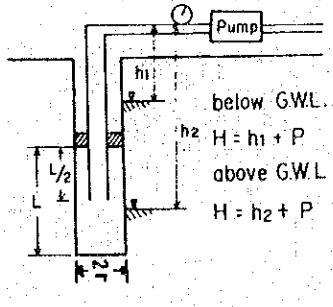
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^{6}$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.30}{2\pi \cdot L \cdot H} \times 60 \times \log_{10} \frac{L}{r}$$

$$Q = Q' \times 1000$$



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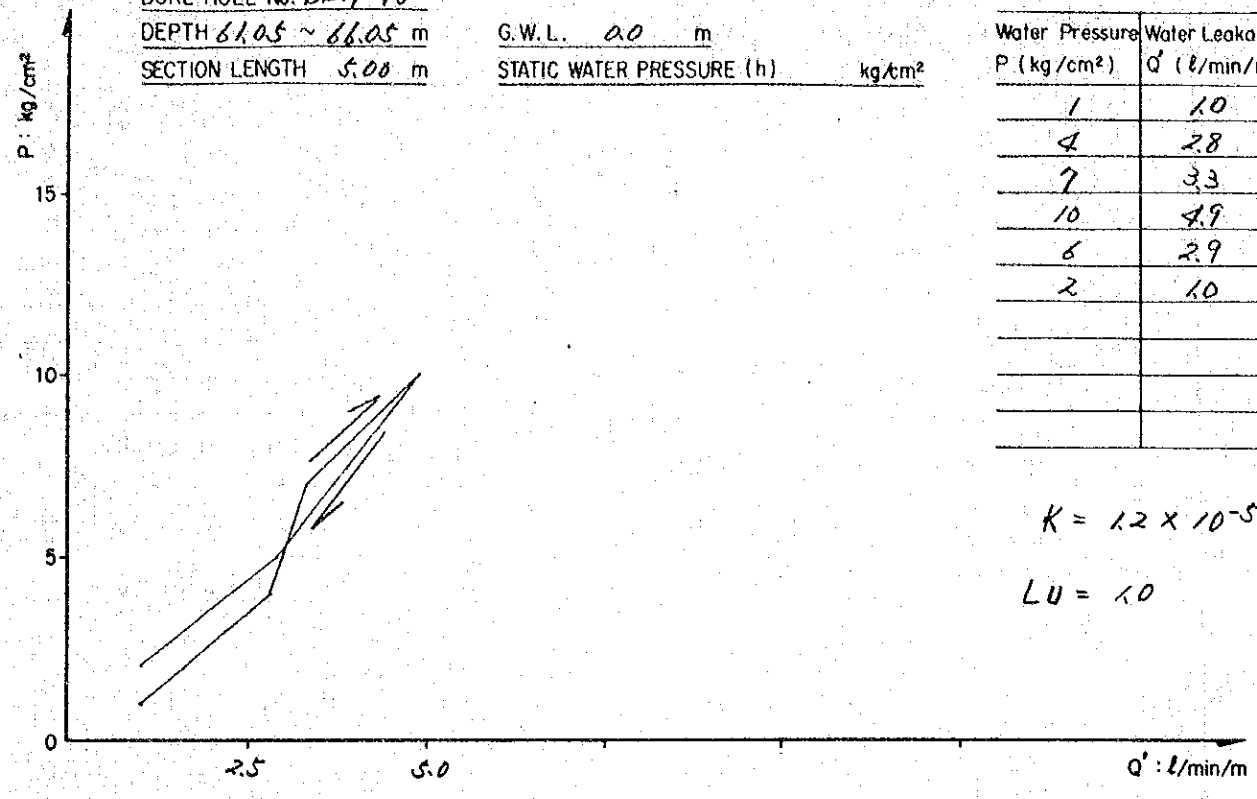
WATER PRESSURE TEST DIAGRAM

No 18-4

BORE HOLE No. DDH-18
DEPTH 61.05 ~ 66.05 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

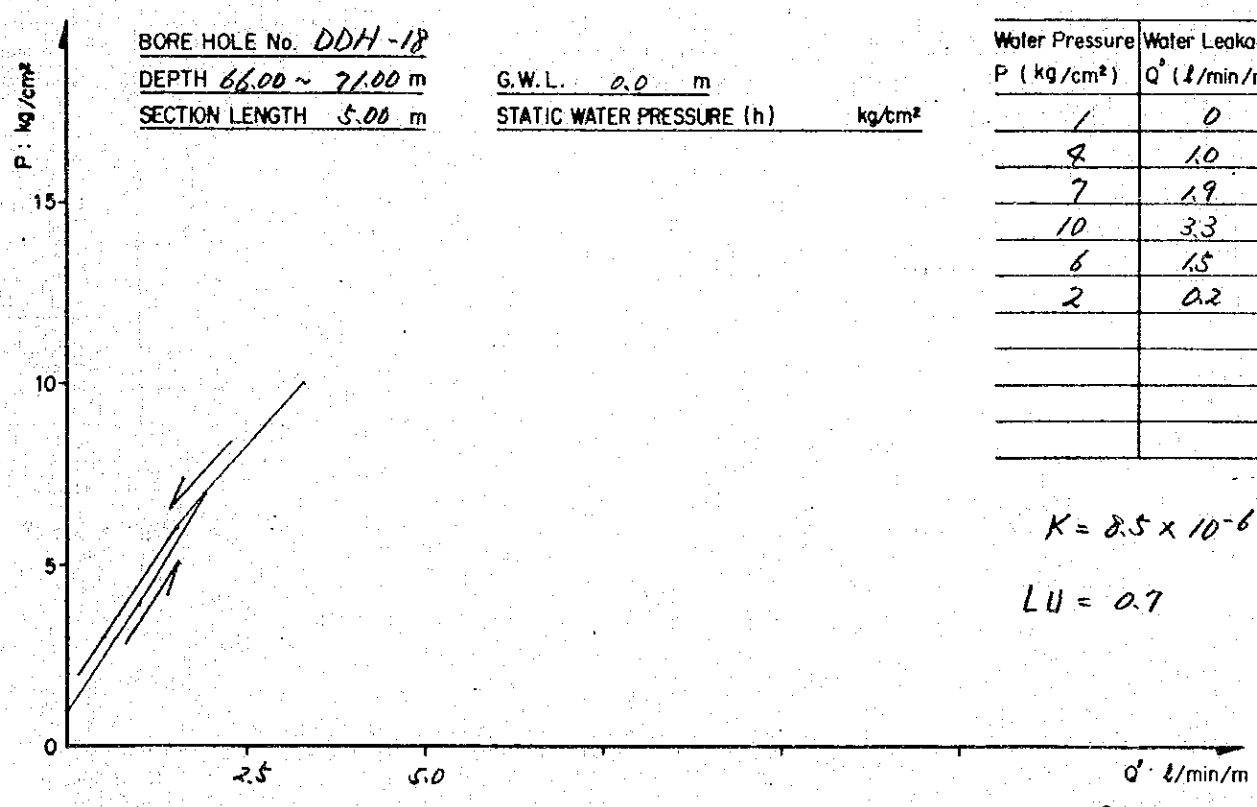


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.8
7	3.3
10	4.9
6	2.9
2	1.0

$K = 1.2 \times 10^{-5}$

$Lu = 1.0$

BORE HOLE No. DDH-18
DEPTH 66.00 ~ 71.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0
8	1.0
7	1.9
10	3.3
6	1.5
2	0.2

$K = 8.5 \times 10^{-6}$

$Lu = 0.7$

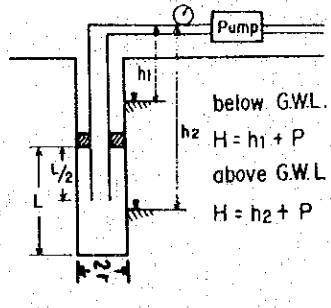
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$

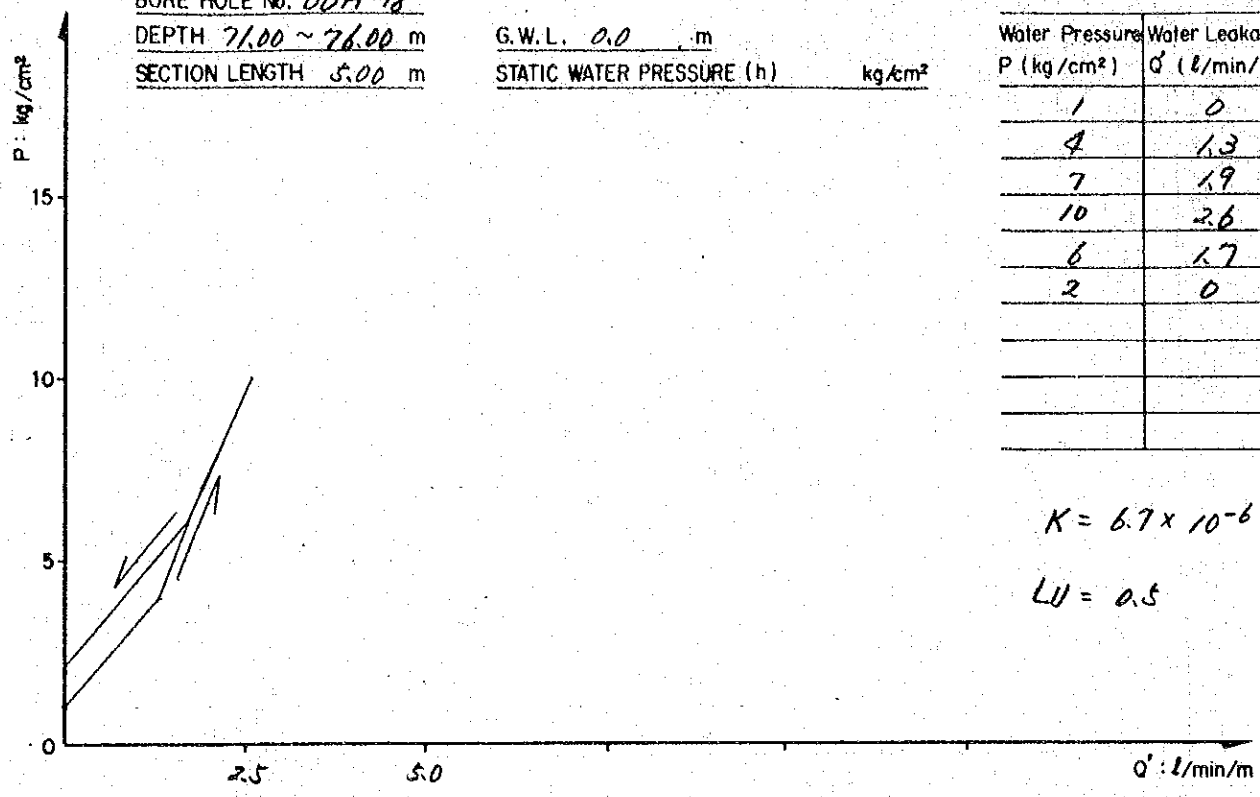


WATER PRESSURE TEST DIAGRAM

No 18-5

BORE HOLE No. DDH-18
DEPTH 71.00 ~ 76.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0
4	1.3
7	1.9
10	2.6
6	1.7
2	0

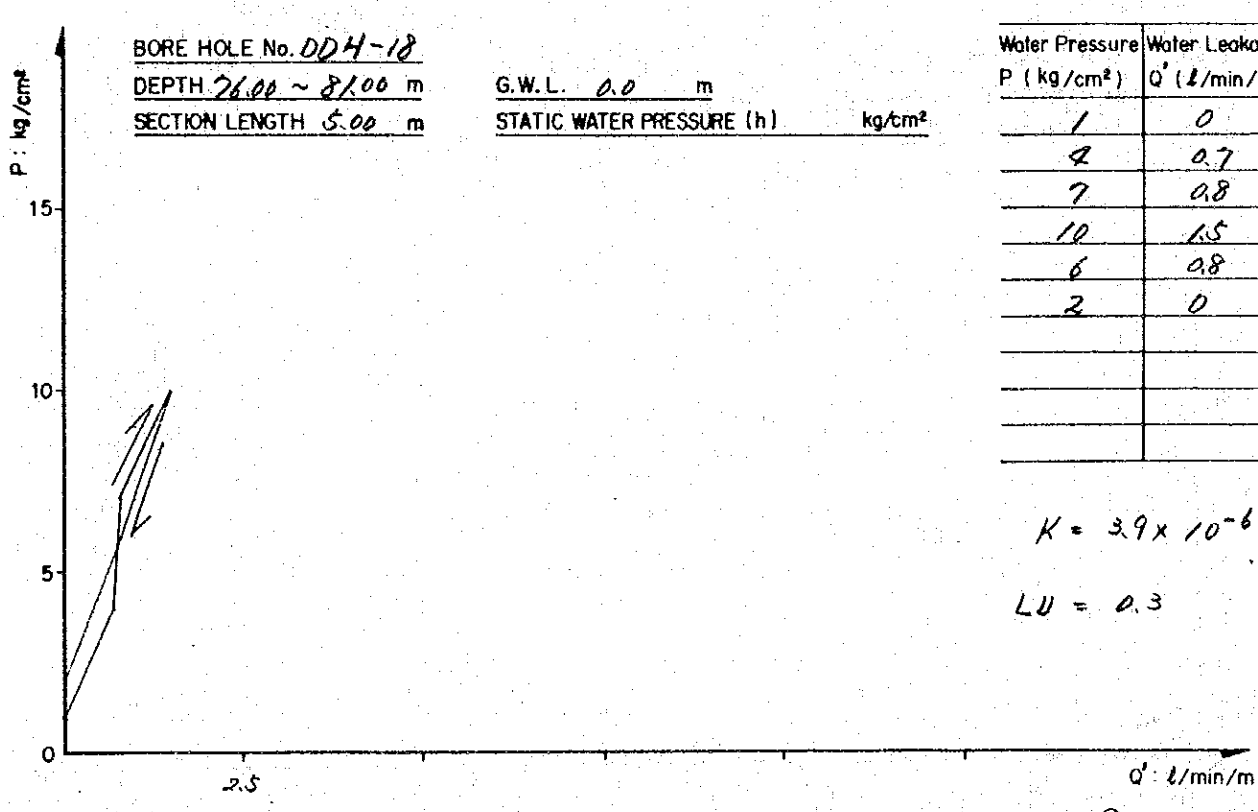


$K = 6.7 \times 10^{-6}$

$Lu = 0.5$

BORE HOLE No. DDH-18
DEPTH 76.00 ~ 81.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0
4	0.7
7	0.8
10	1.5
6	0.8
2	0



$K = 3.9 \times 10^{-6}$

$Lu = 0.3$

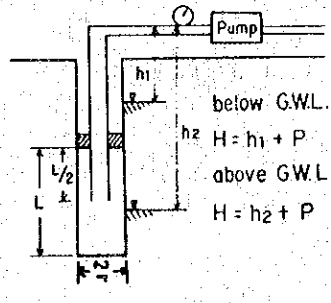
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$



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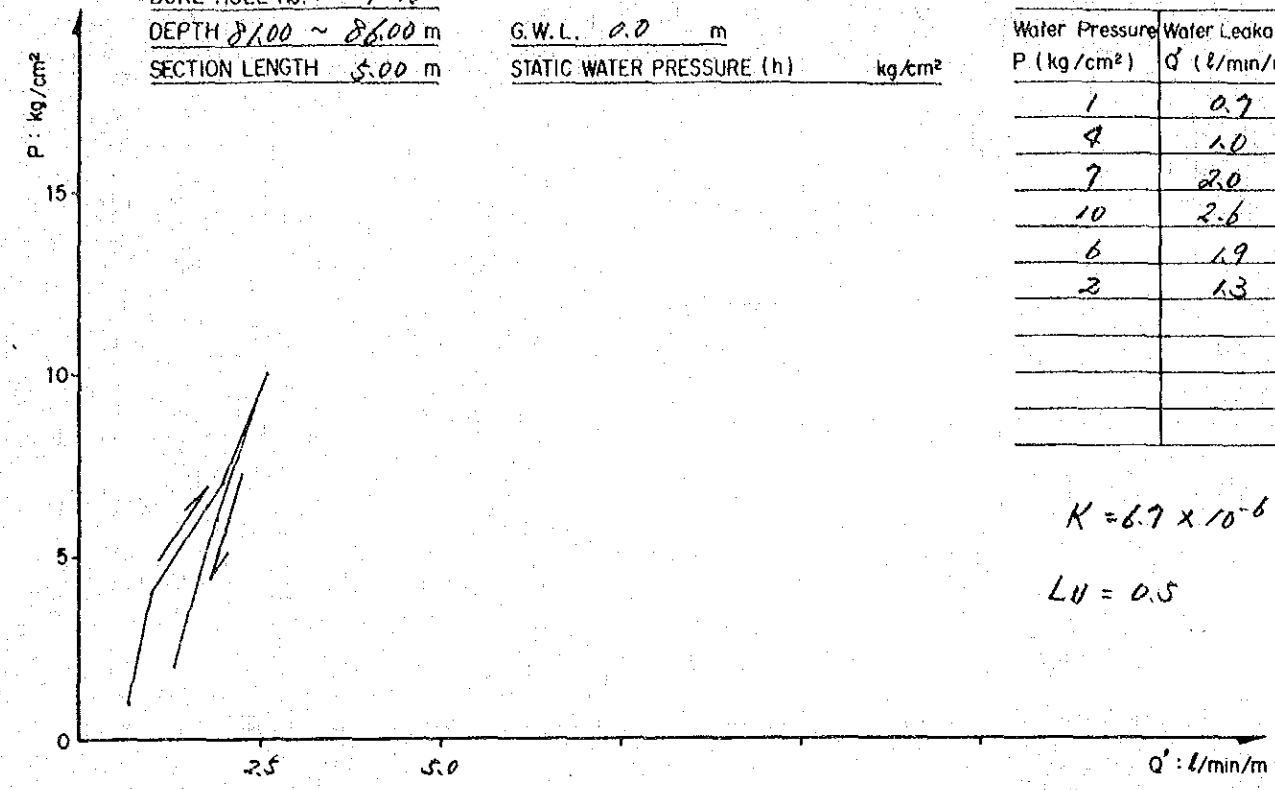
WATER PRESSURE TEST DIAGRAM

No 18-6

BORE HOLE No. DDH-18
DEPTH 81.00 ~ 86.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

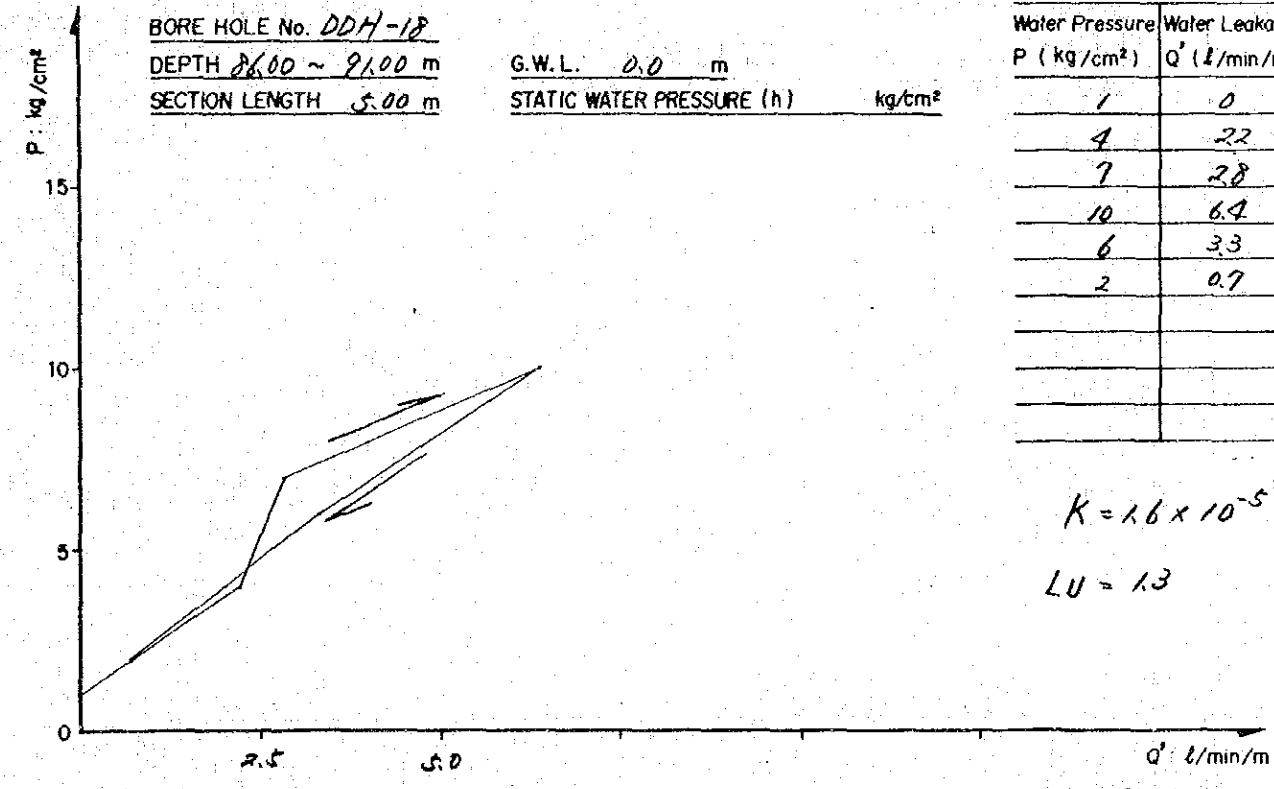


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0.7
4	1.0
7	2.0
10	2.6
6	1.9
2	1.3

$K = 6.7 \times 10^{-6}$

$Lu = 0.5$

BORE HOLE No. DDH-18
DEPTH 86.00 ~ 91.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0
4	2.2
7	2.8
10	6.4
6	3.3
2	0.7

$K = 1.6 \times 10^{-5}$

$Lu = 1.3$

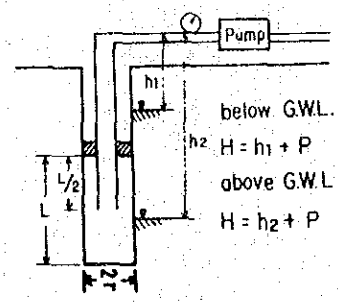
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

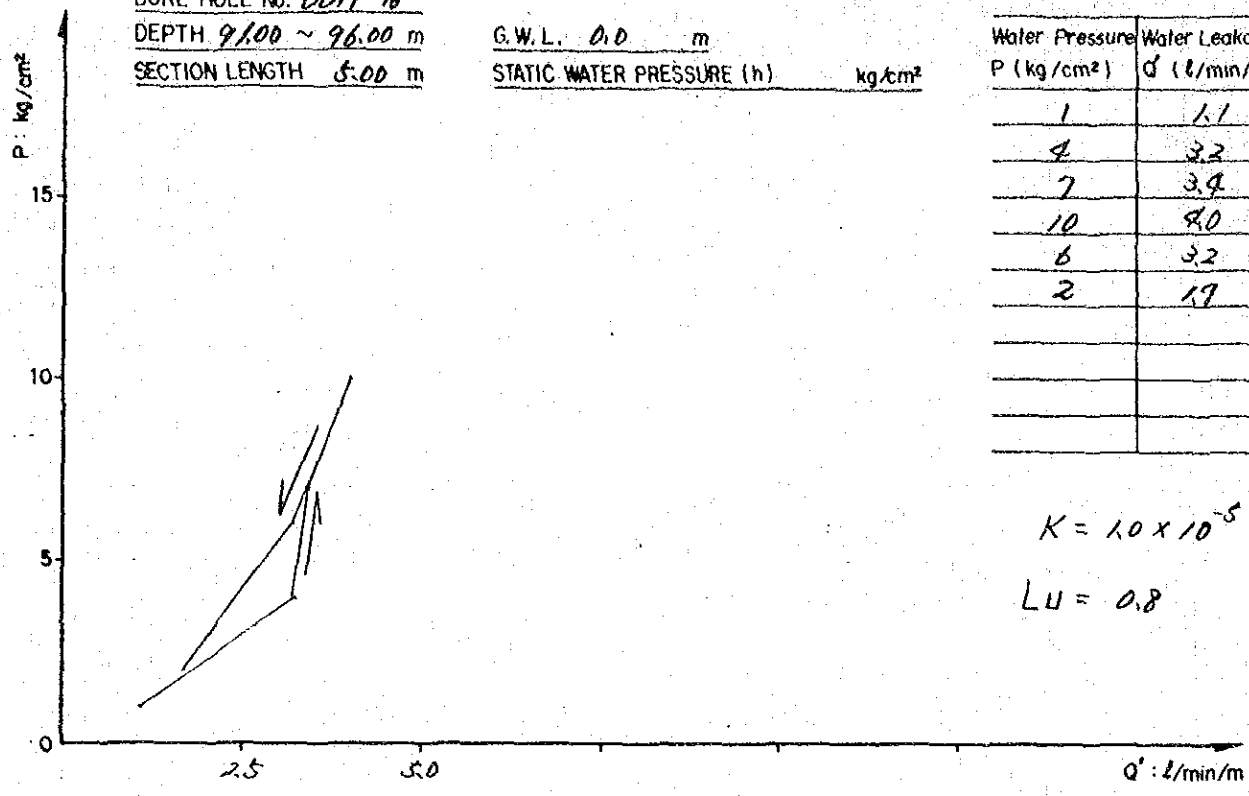
$Q = Q' \times 1000$



WATER PRESSURE TEST DIAGRAM

No 18-7

BORE HOLE No. DDH-18
DEPTH 91.00 ~ 96.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

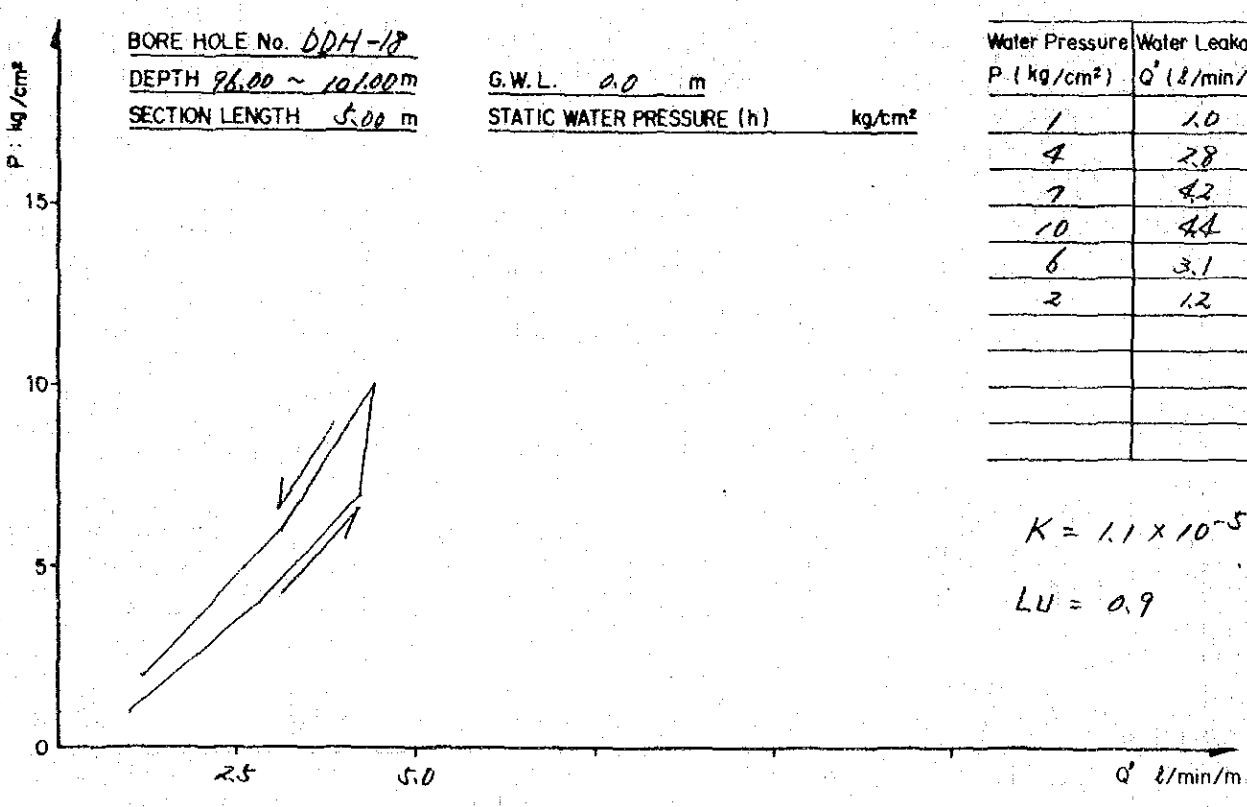


Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.1
4	3.2
7	3.9
10	4.0
6	3.2
2	1.7

$K = 1.0 \times 10^{-5}$

$Lu = 0.8$

BORE HOLE No. DDH-18
DEPTH 96.00 ~ 101.00m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.8
7	4.2
10	4.4
6	3.1
2	1.2

$K = 1.1 \times 10^{-5}$

$Lu = 0.9$

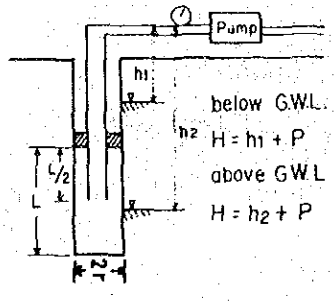
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q = Q' \times 1000$$

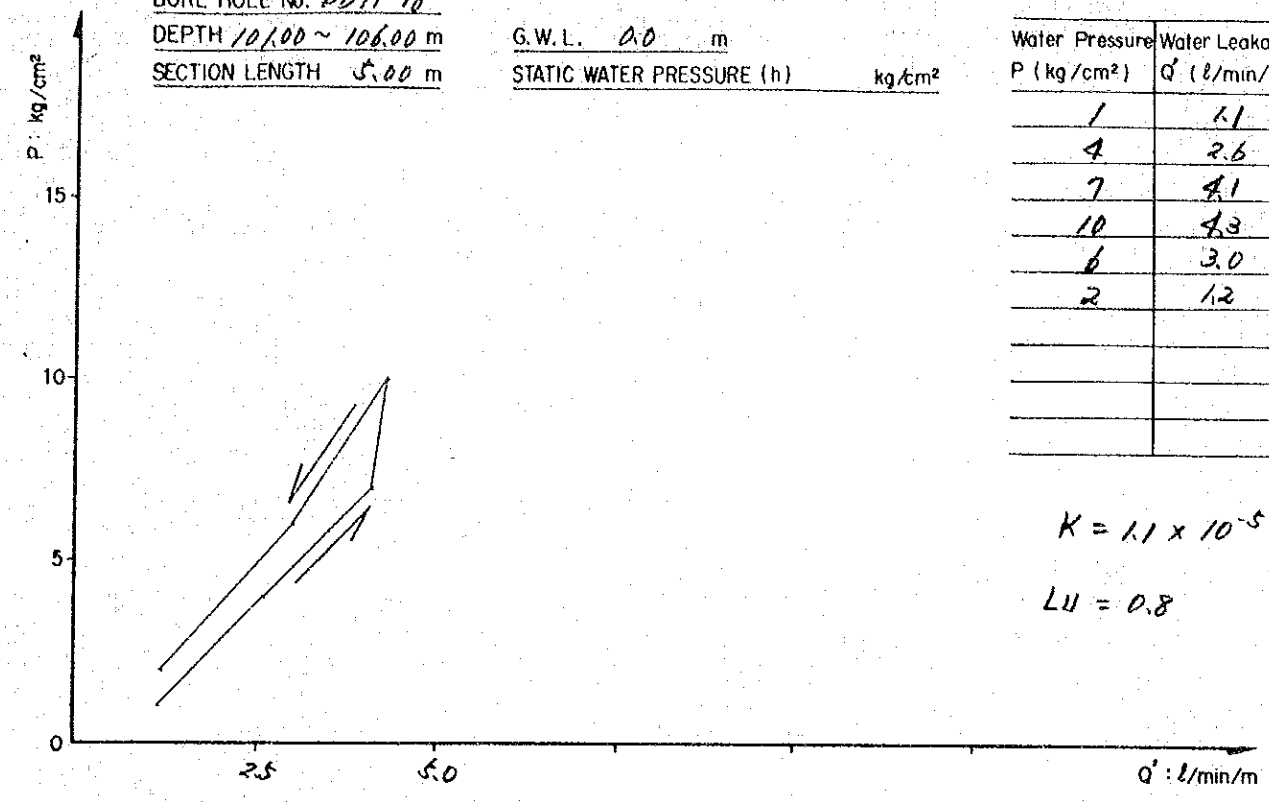


WATER PRESSURE TEST DIAGRAM

No 18-8

BORE HOLE No. DDH-18
DEPTH 101.00 ~ 106.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.1
4	2.6
7	4.1
10	4.3
6	3.0
2	1.2

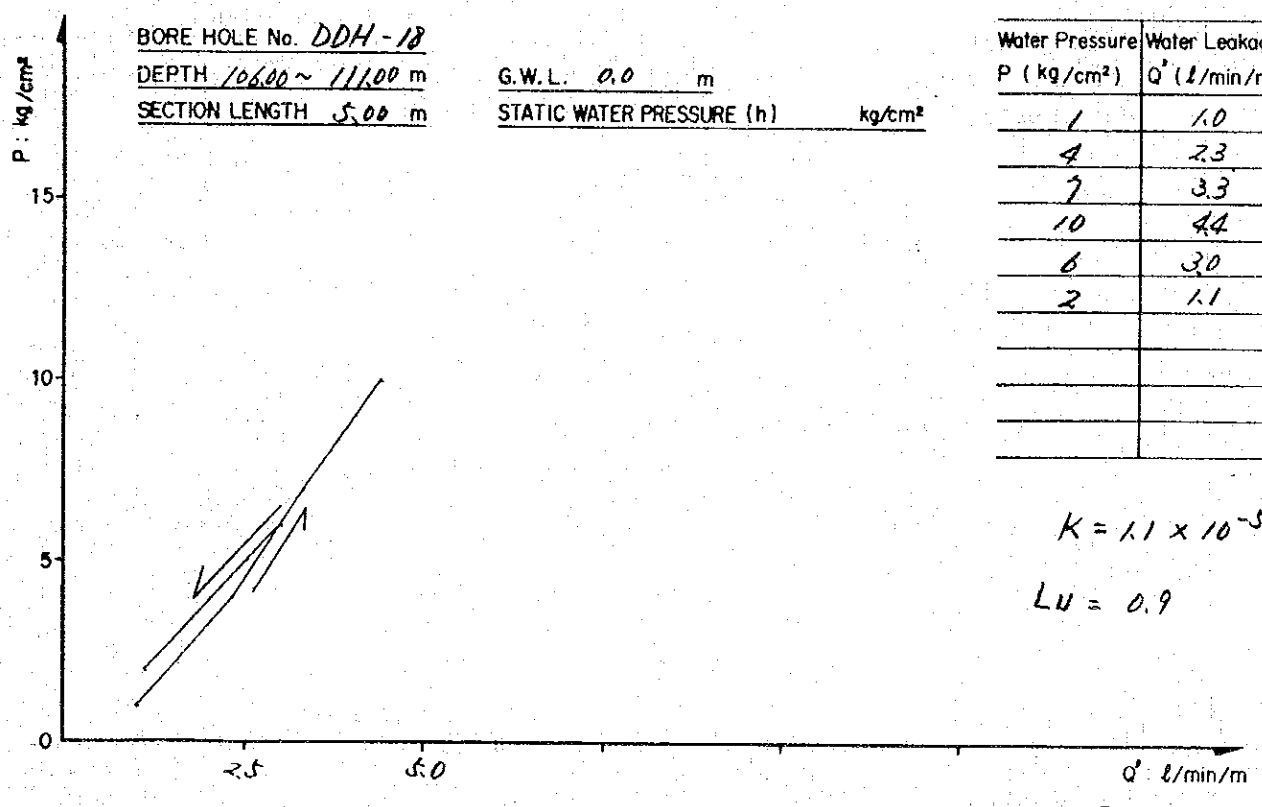


$K = 1.1 \times 10^{-5}$

$Lu = 0.8$

BORE HOLE No. DDH-18
DEPTH 106.00 ~ 111.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.0
4	2.3
7	3.3
10	4.4
6	3.0
2	1.1



$K = 1.1 \times 10^{-5}$

$Lu = 0.9$

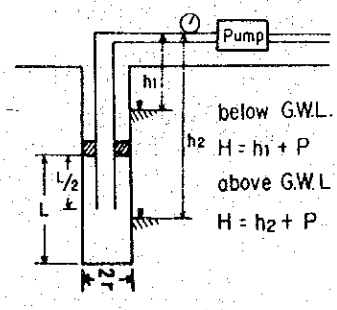
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^{6}$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$

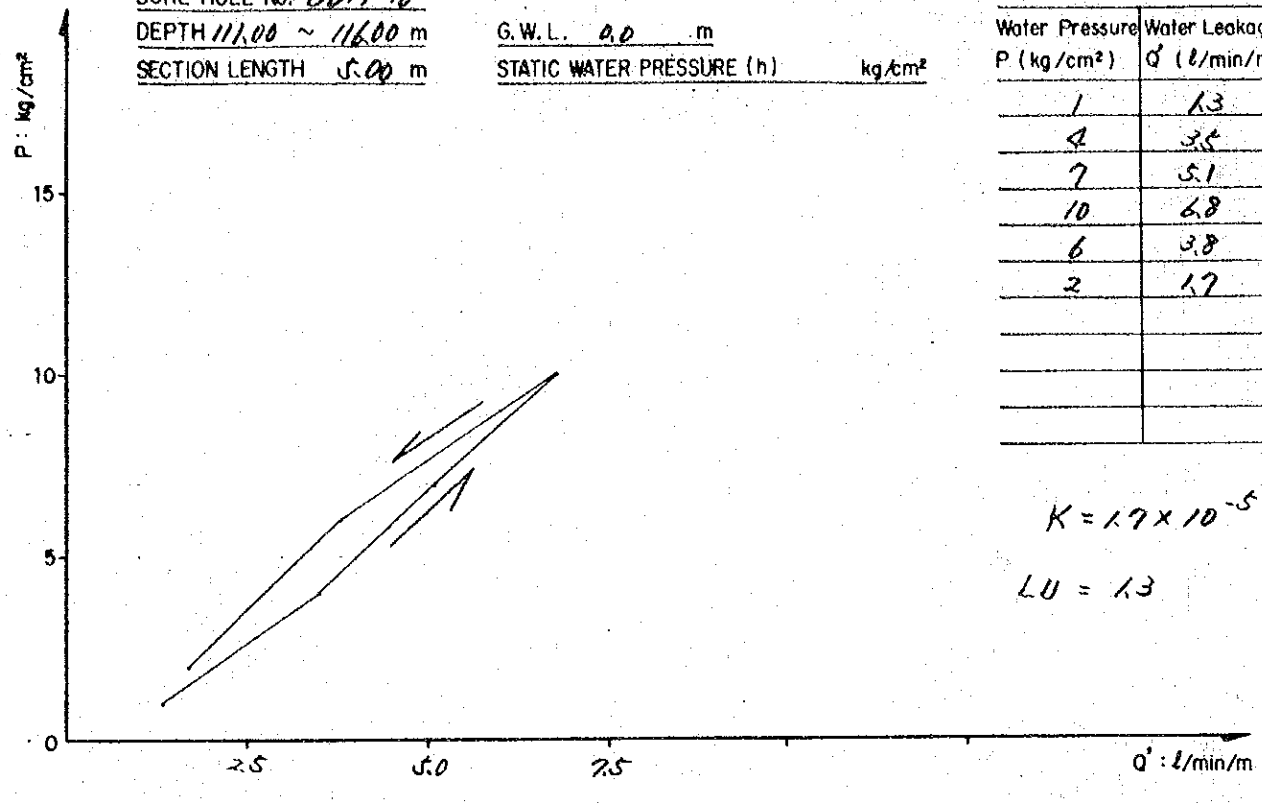


WATER PRESSURE TEST DIAGRAM

No 18-9

BORE HOLE No. DDH-18
DEPTH 111.00 ~ 116.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.3
4	3.5
7	5.1
10	6.8
6	3.8
2	1.7

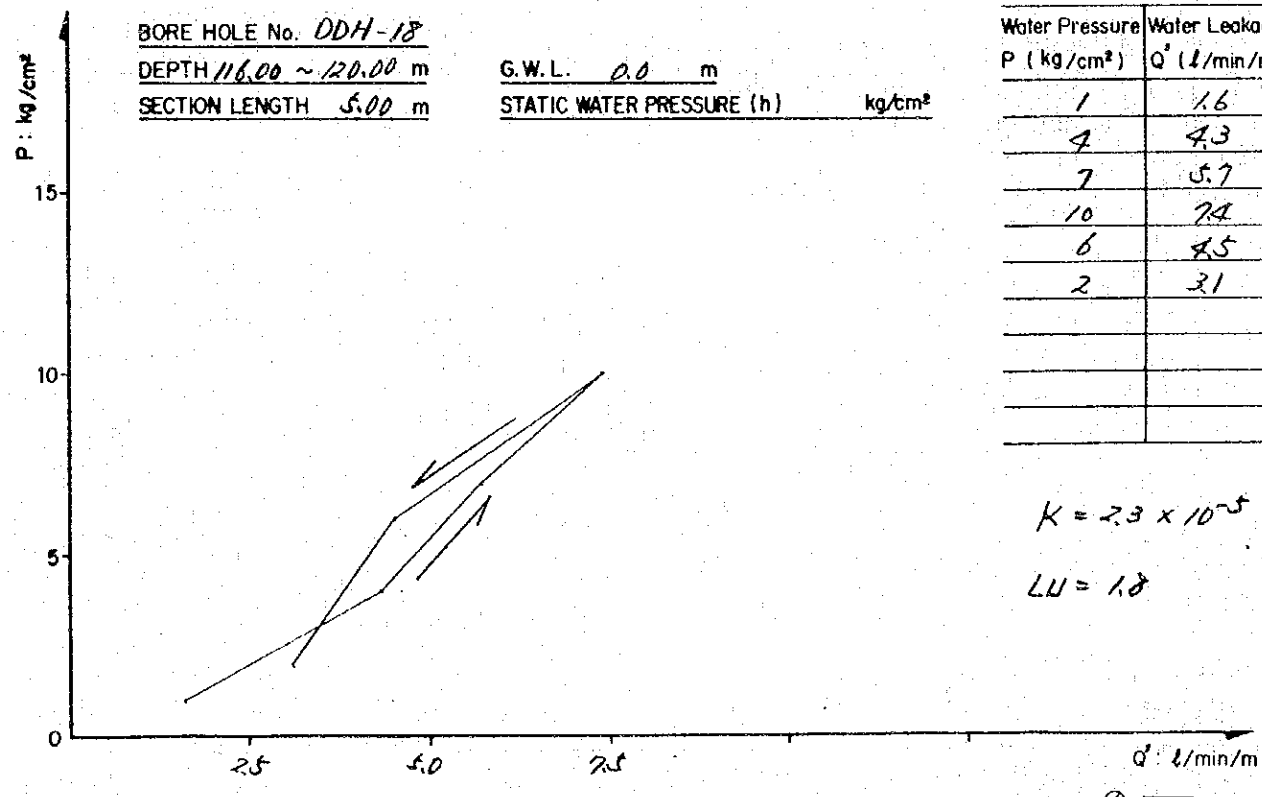


$K = 1.7 \times 10^{-5}$

$Lu = 1.3$

BORE HOLE No. DDH-18
DEPTH 116.00 ~ 120.00 m
SECTION LENGTH 5.00 m
G.W.L. 0.0 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	1.6
4	4.3
7	5.7
10	7.4
6	4.5
2	2.1



$K = 2.3 \times 10^{-5}$

$Lu = 1.8$

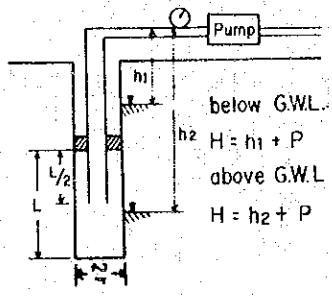
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$



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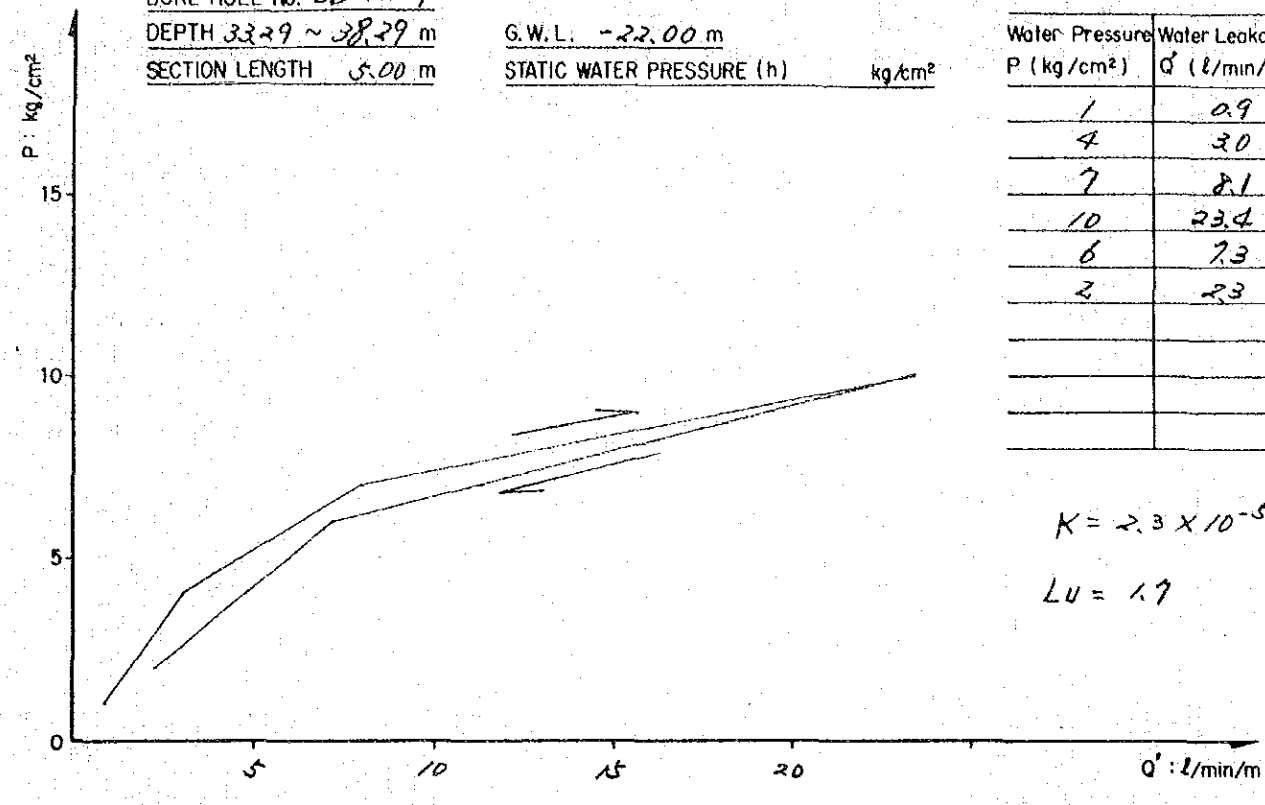
WATER PRESSURE TEST DIAGRAM

No

BORE HOLE No. DDH-29
DEPTH 33.29 ~ 38.29 m
SECTION LENGTH 5.00 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	0.9
4	3.0
7	8.1
10	23.4
6	7.3
2	2.3

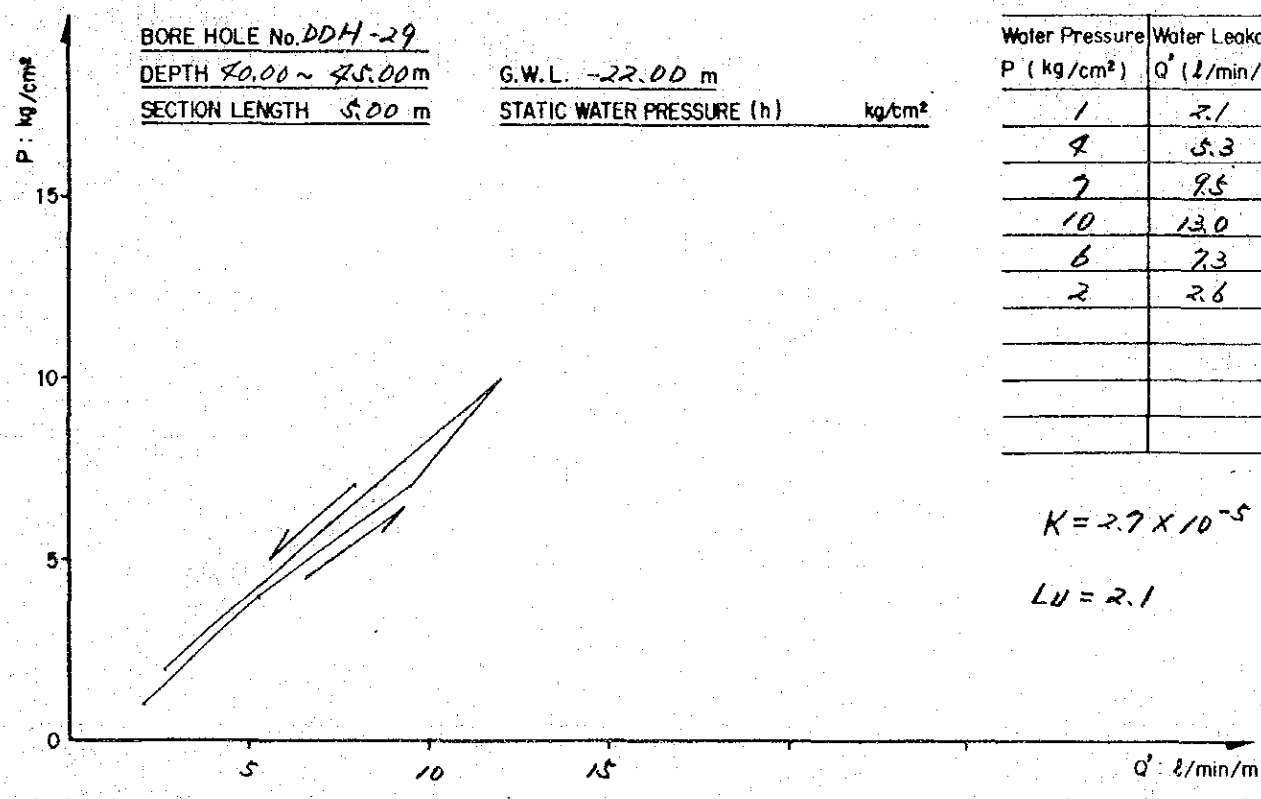


K = 2.3 × 10⁻⁵

Lu = 1.7

BORE HOLE No. DDH-29
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. -22.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q' (ℓ/min/m)
1	2.1
4	5.3
7	9.5
10	13.0
6	7.3
2	2.6



K = 2.7 × 10⁻⁵

Lu = 2.1

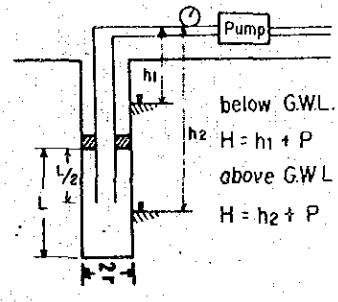
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q = Q' \times 1000$$

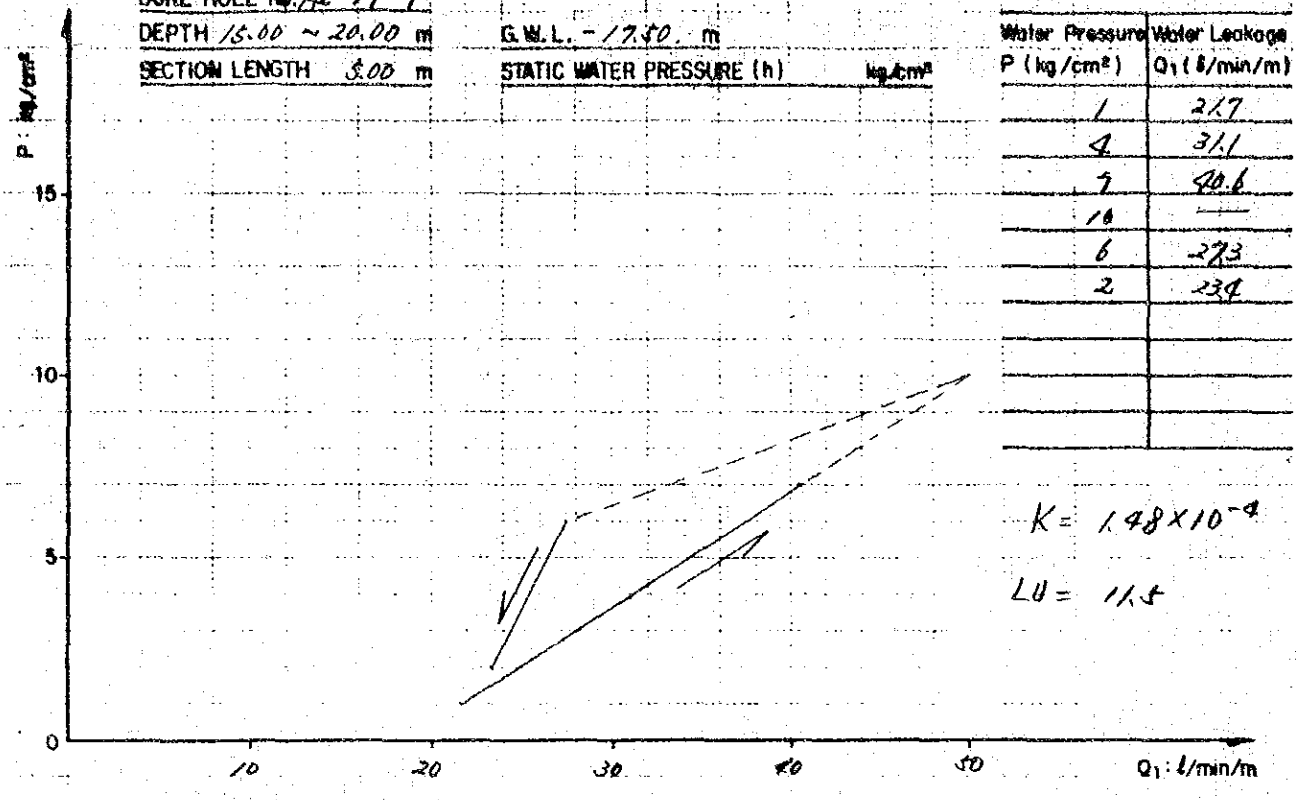


WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A2-79-1
DEPTH 15.00 ~ 20.00 m
SECTION LENGTH 5.00 m
G.W.L. - 17.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	21.7
4	31.1
7	40.6
10	—
6	27.3
2	23.9

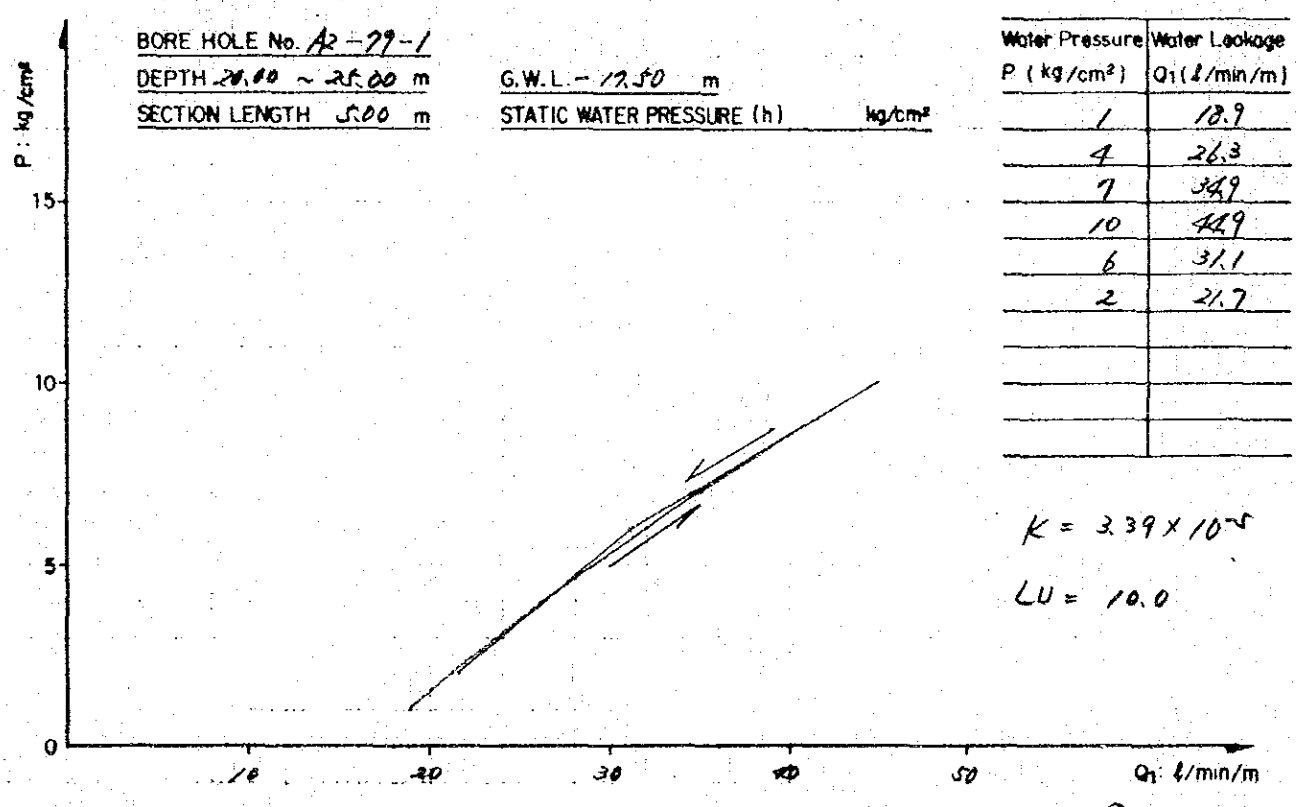


K = 1.48 × 10⁻⁴

LU = 11.5

BORE HOLE No. A2-79-1
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. - 17.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	18.9
4	26.3
7	34.9
10	44.9
6	31.1
2	21.7



K = 3.39 × 10⁻⁵

LU = 10.0

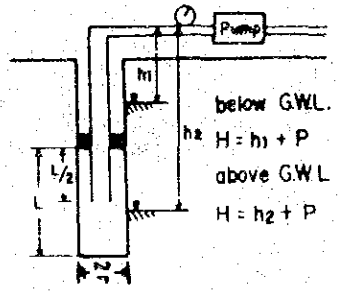
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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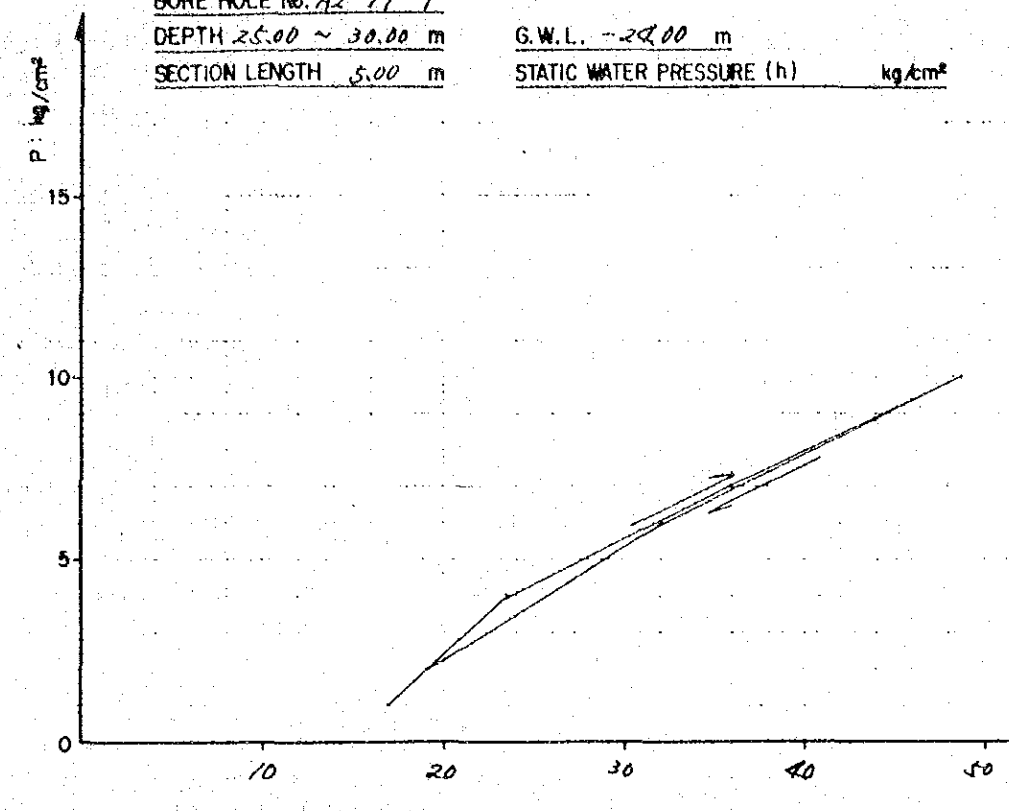
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A2-79-1
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²

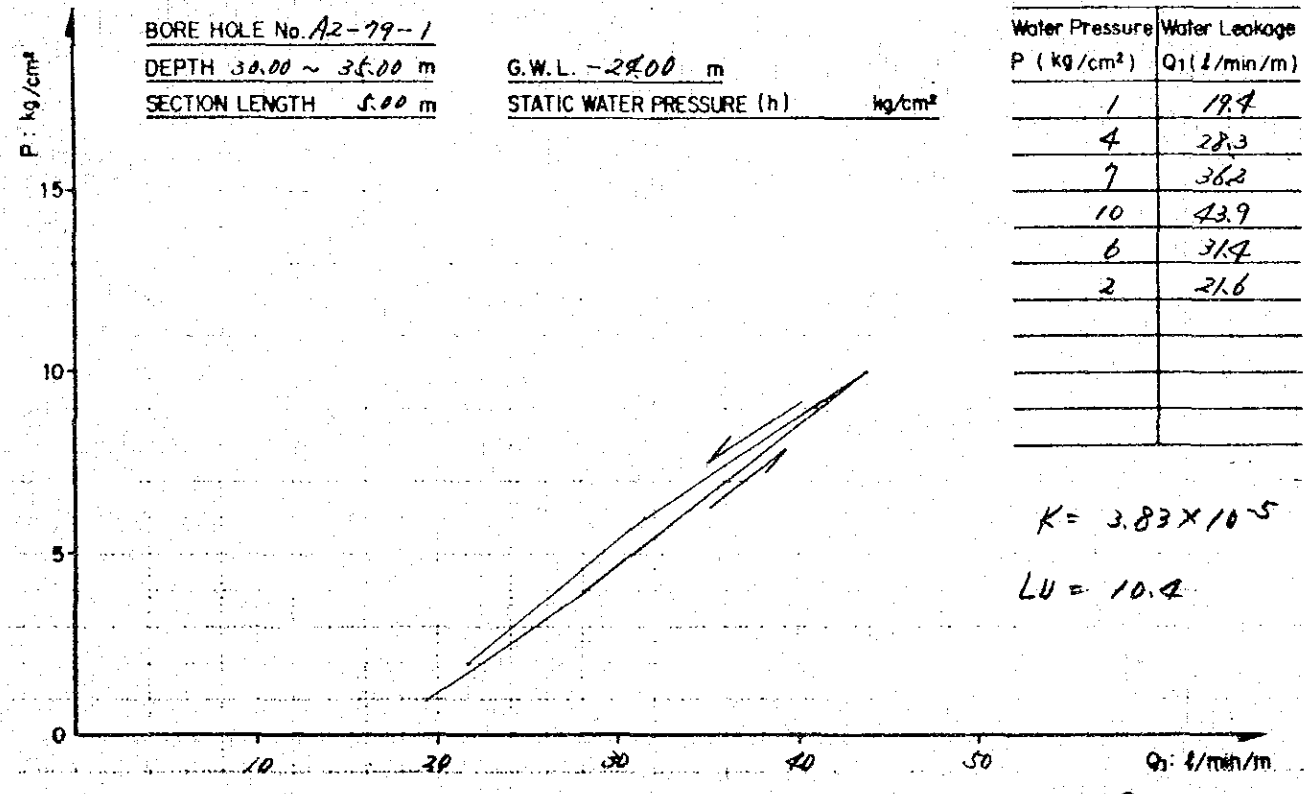


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	16.9
4	23.5
7	36.0
10	48.7
6	32.1
2	19.1

K = 3.87 × 10⁻⁵

Lu = 11.7

BORE HOLE No. A2-79-1
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. -2.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	19.4
4	28.3
7	36.2
10	43.9
6	31.4
2	21.6

K = 3.83 × 10⁻⁵

Lu = 10.4

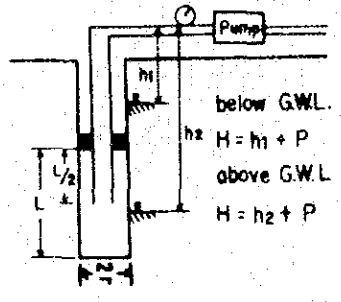
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A2-79-1

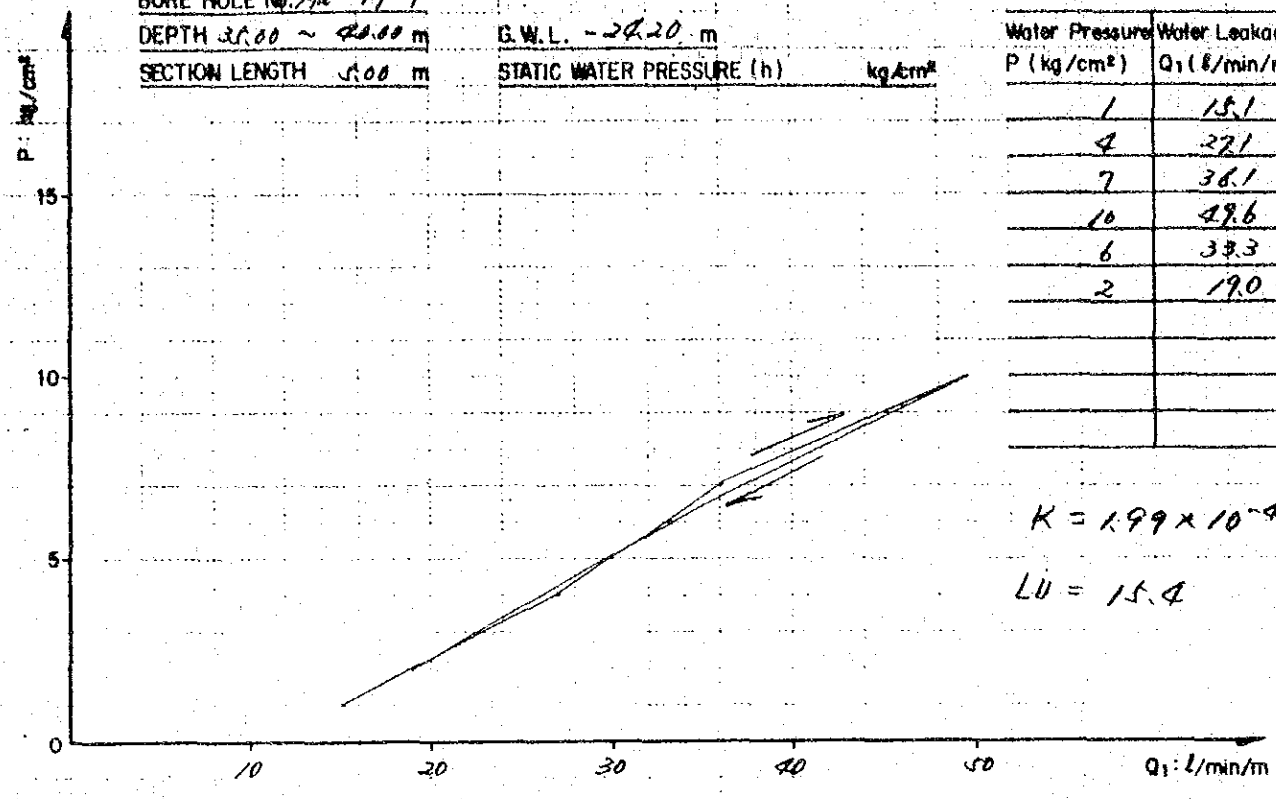
DEPTH 35.00 ~ 40.00 m

SECTION LENGTH 5.00 m

G.W.L. -29.20 m

STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	15.1
4	22.1
7	36.1
10	49.6
6	33.3
2	19.0



$K = 1.99 \times 10^{-4}$

$Lu = 15.4$

BORE HOLE No.

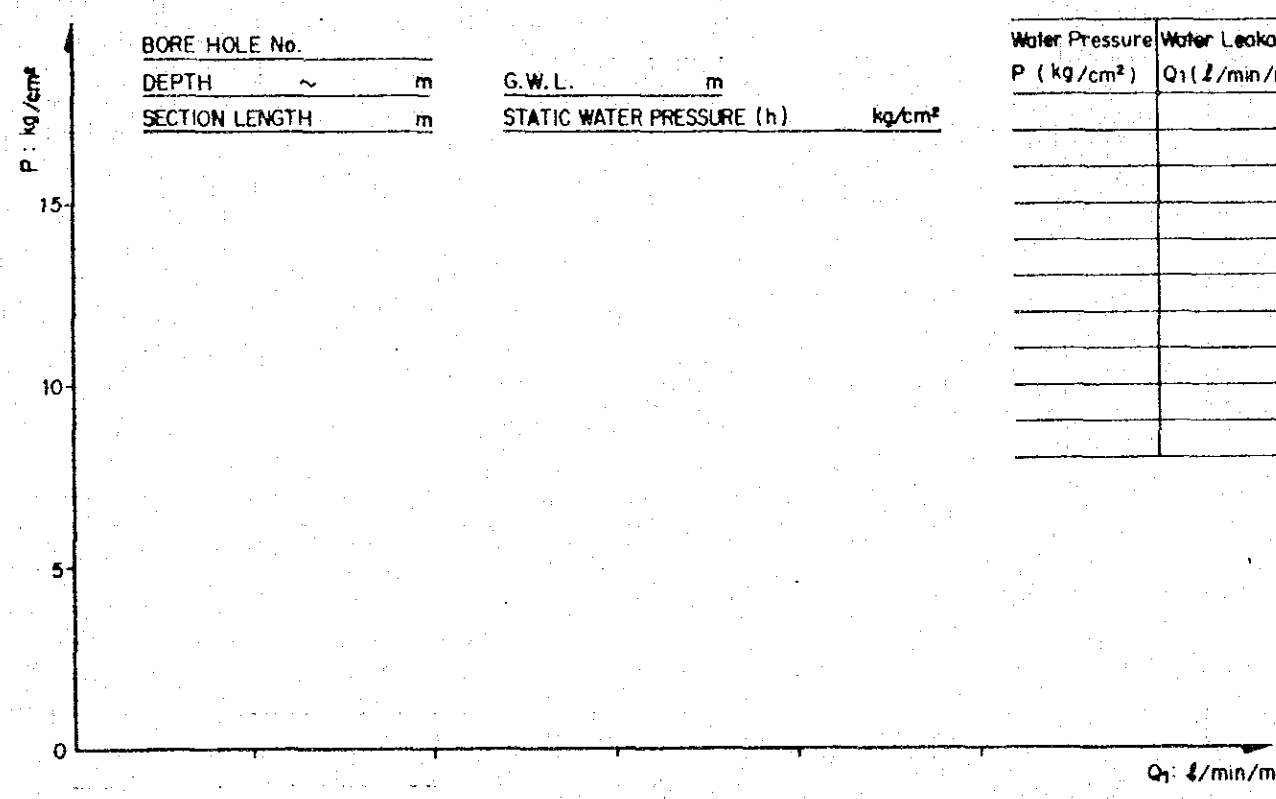
DEPTH ~ m

SECTION LENGTH m

G.W.L. m

STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)



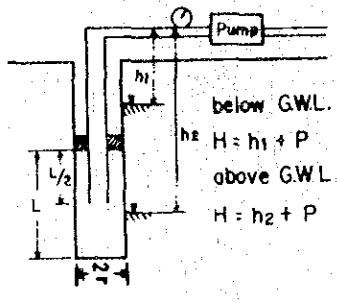
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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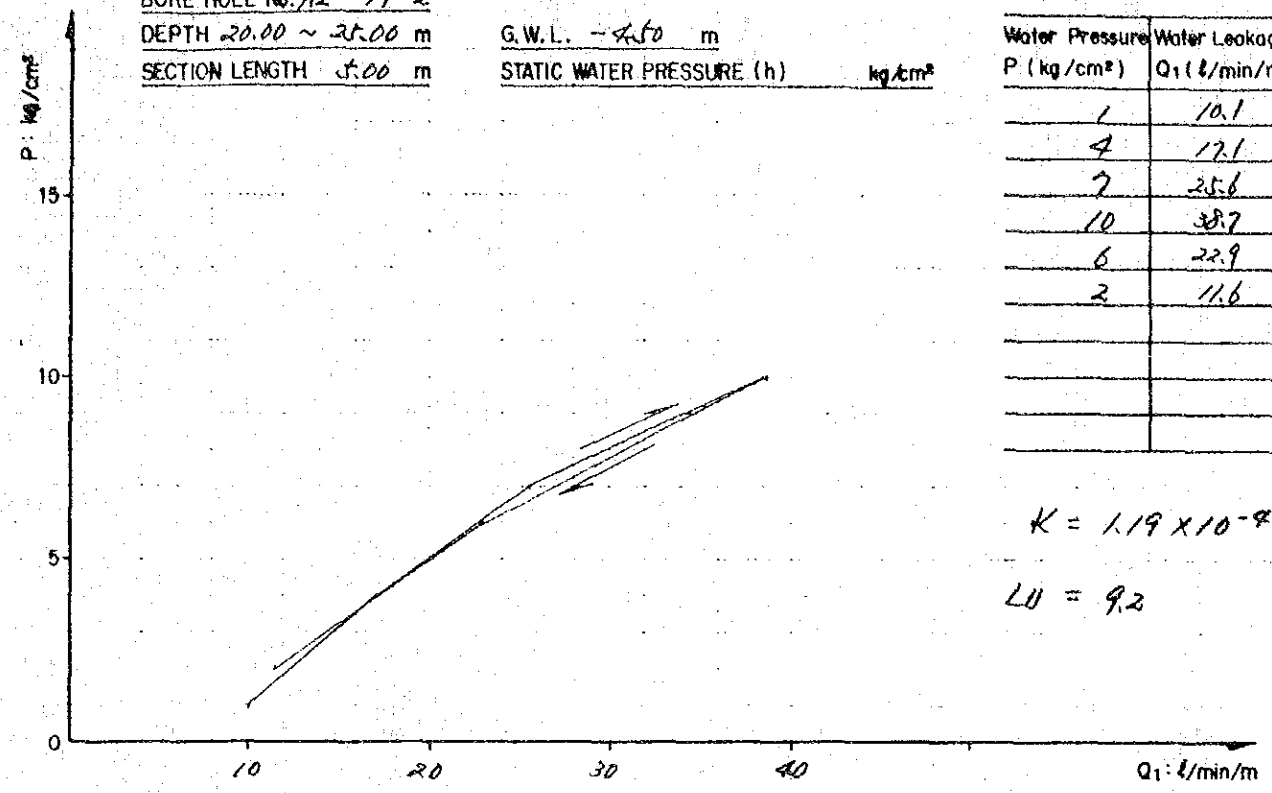
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A2-79-2
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. -4.50 m
STATIC WATER PRESSURE (h) kg/cm²

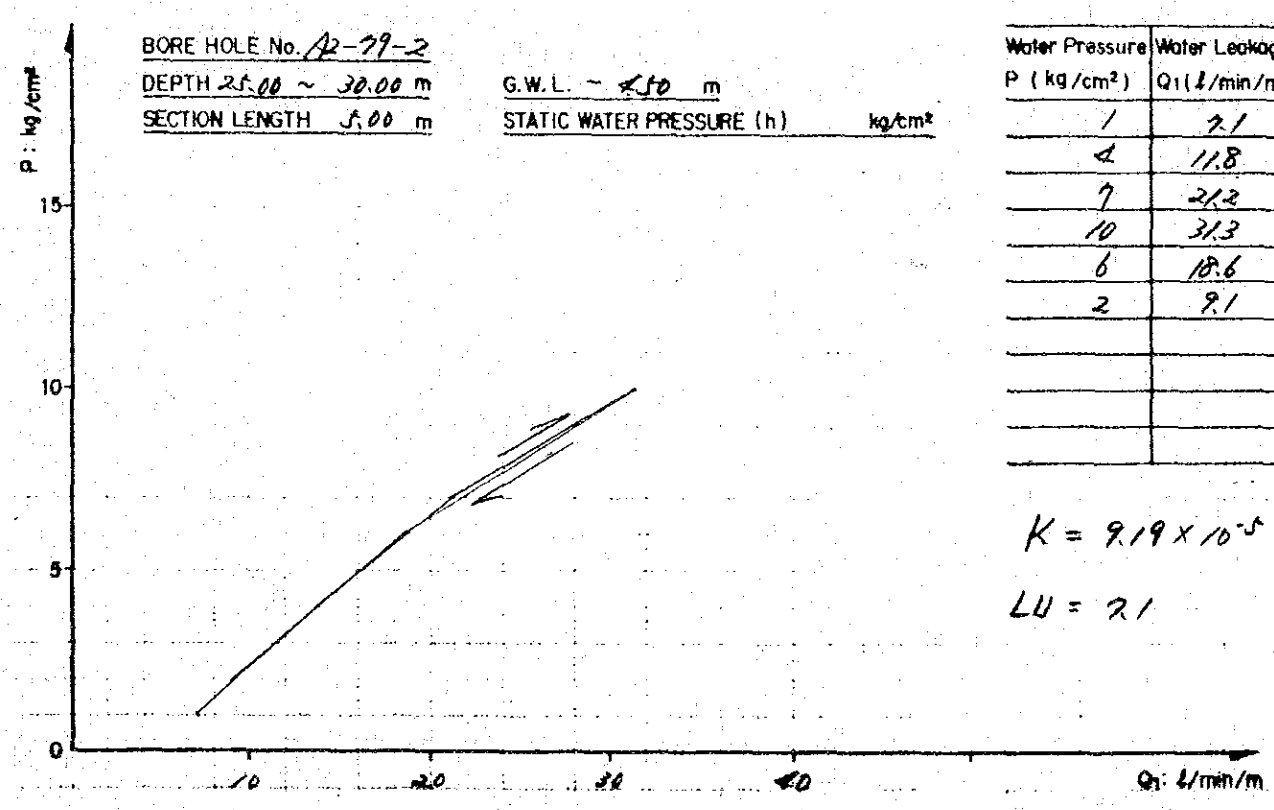


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	10.1
4	12.1
7	25.6
10	38.7
6	22.9
2	11.6

K = 1.19 × 10⁻⁴

Lu = 9.2

BORE HOLE No. A2-79-2
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. ~ 4.50 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	7.1
4	11.8
7	21.2
10	31.3
6	18.6
2	9.1

K = 9.19 × 10⁻⁵

Lu = 7.1

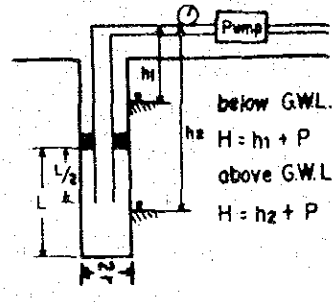
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

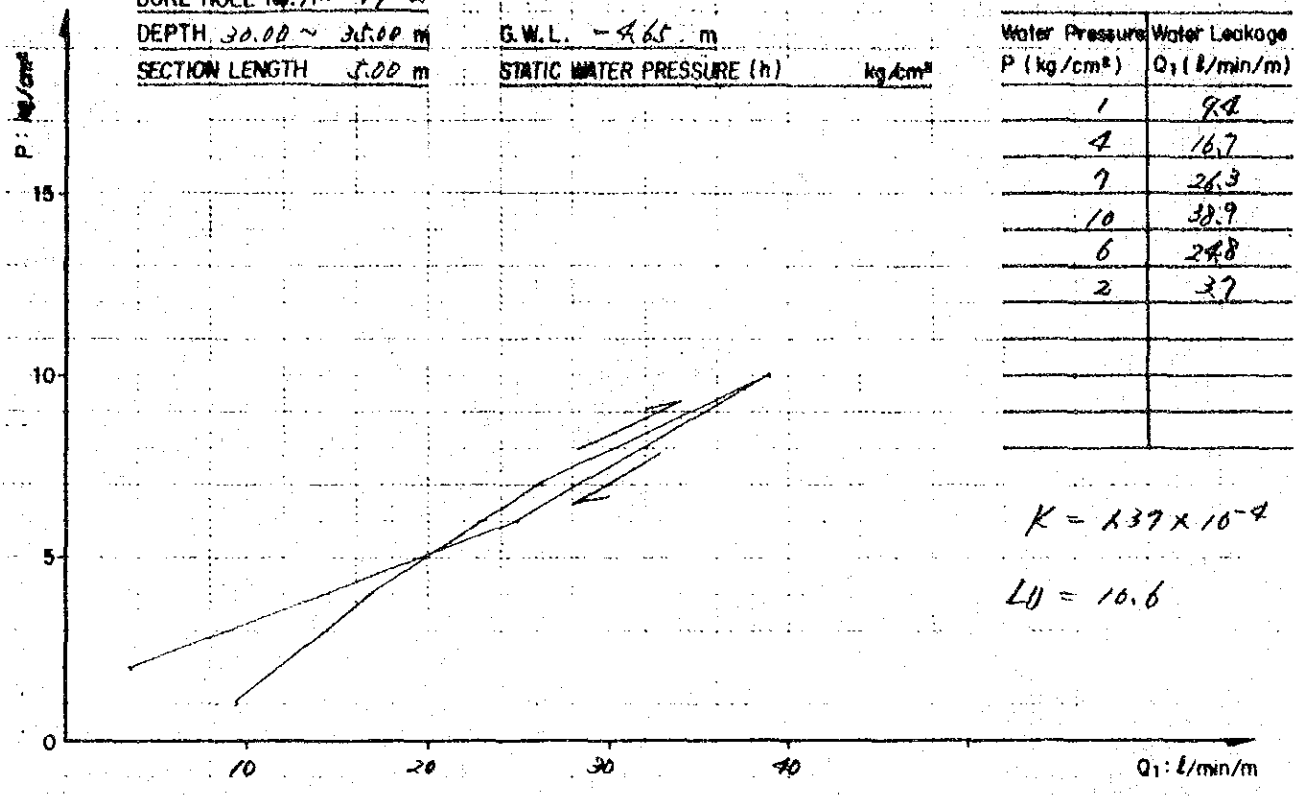
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A2 - 79 - 2
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. - 4.65 m
STATIC WATER PRESSURE (h) kg/cm²

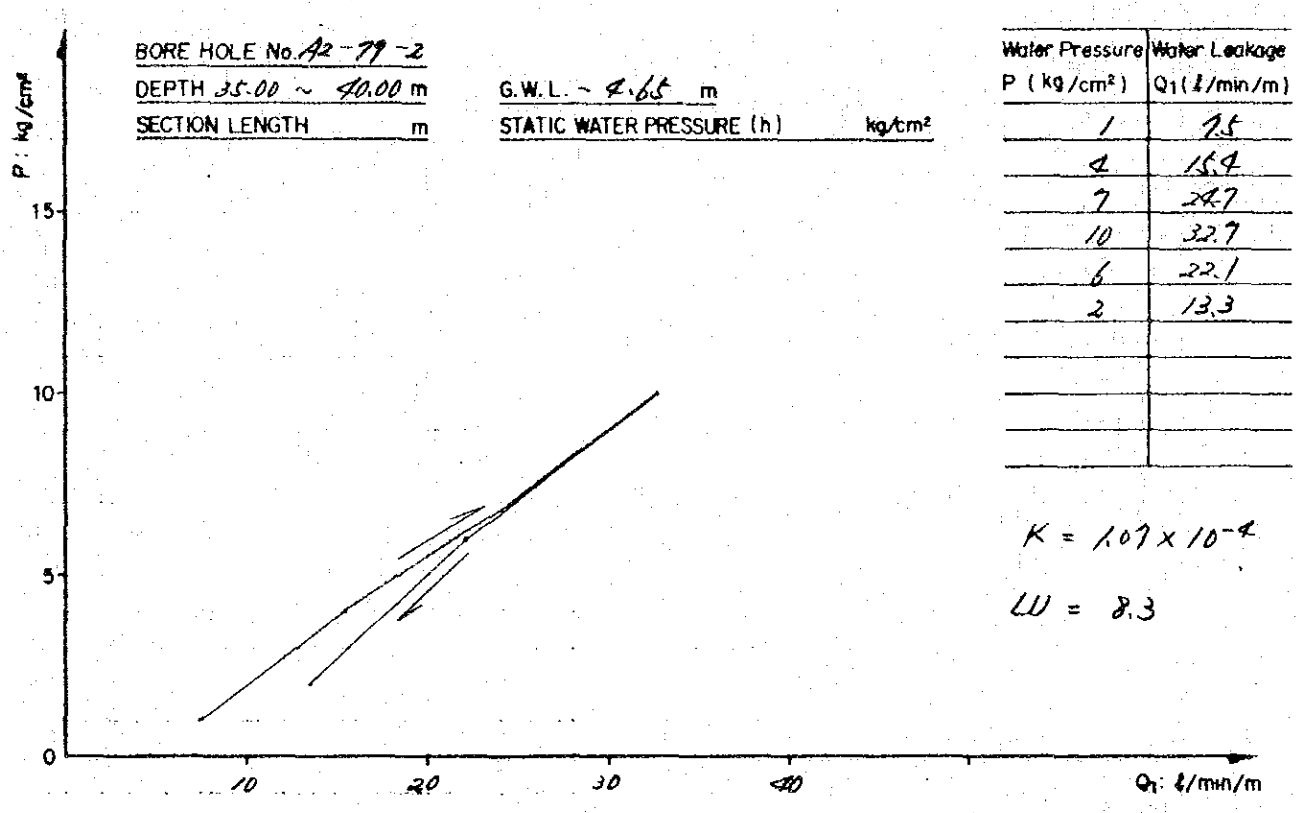


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	9.1
4	16.7
7	26.3
10	38.9
6	24.8
2	3.7

$K = 1.37 \times 10^{-4}$

$Lu = 10.6$

BORE HOLE No. A2 - 79 - 2
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH m
G.W.L. - 4.65 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	7.5
4	15.9
7	24.7
10	32.7
6	22.1
2	13.3

$K = 1.07 \times 10^{-4}$

$Lu = 8.3$

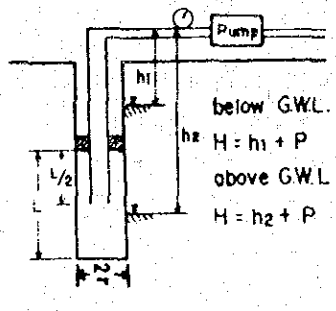
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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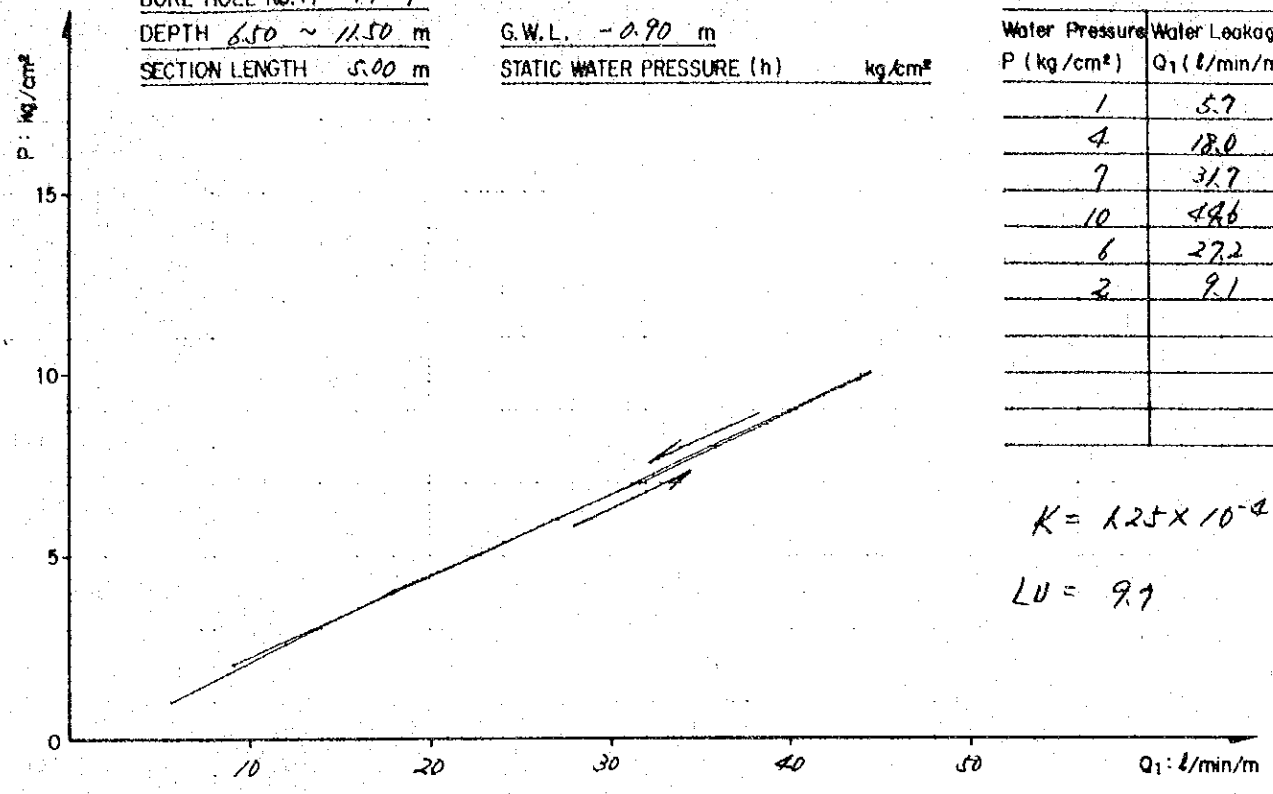
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A2-79-4
DEPTH 6.50 ~ 11.50 m
SECTION LENGTH 5.00 m
G.W.L. -0.90 m
STATIC WATER PRESSURE (h) kg/cm²

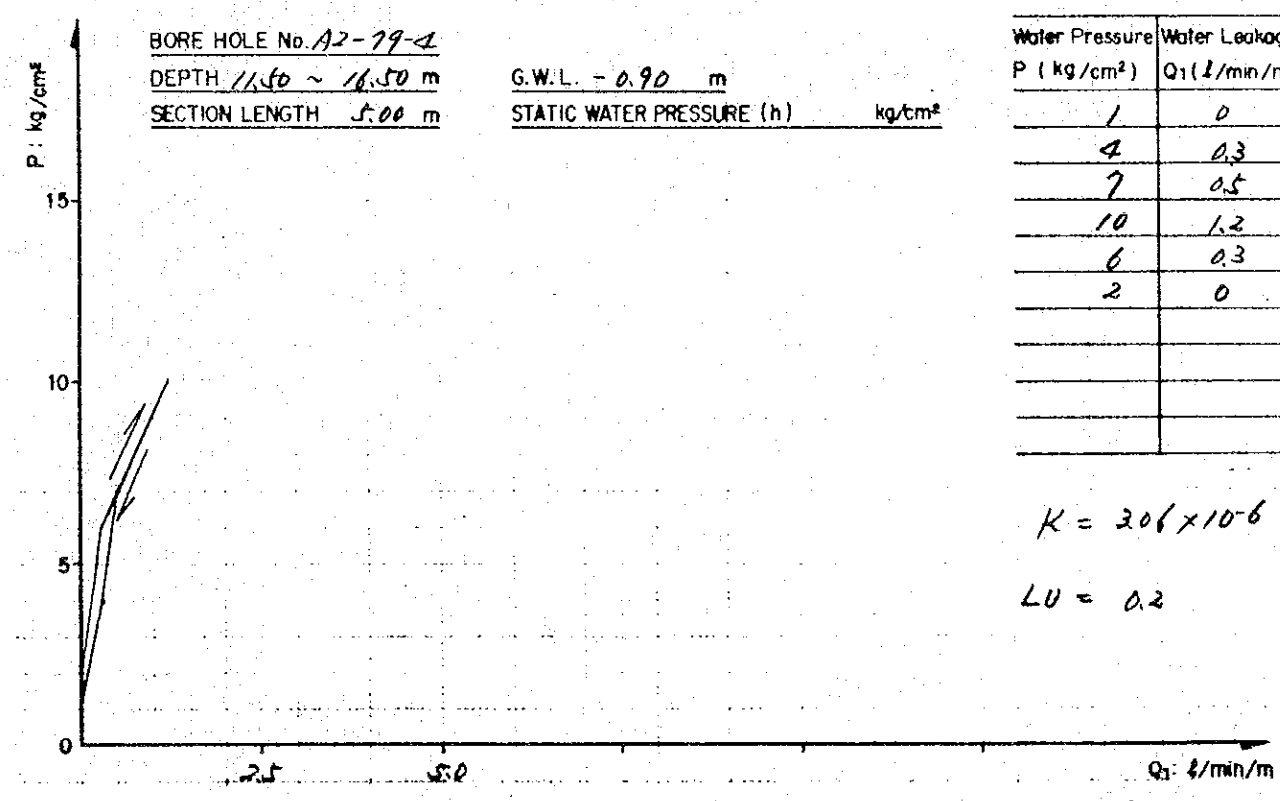


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	5.7
4	18.0
7	31.7
10	44.6
6	27.2
2	9.1

K = 1.25 × 10⁻⁴

Lu = 9.7

BORE HOLE No. A2-79-4
DEPTH 11.50 ~ 16.50 m
SECTION LENGTH 5.00 m
G.W.L. -0.90 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	0
4	0.3
7	0.5
10	1.2
6	0.3
2	0

K = 3.06 × 10⁻⁶

Lu = 0.2

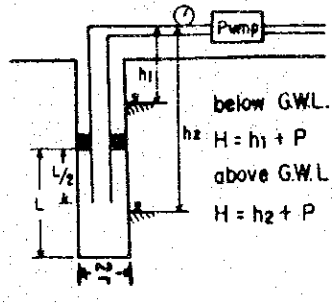
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$

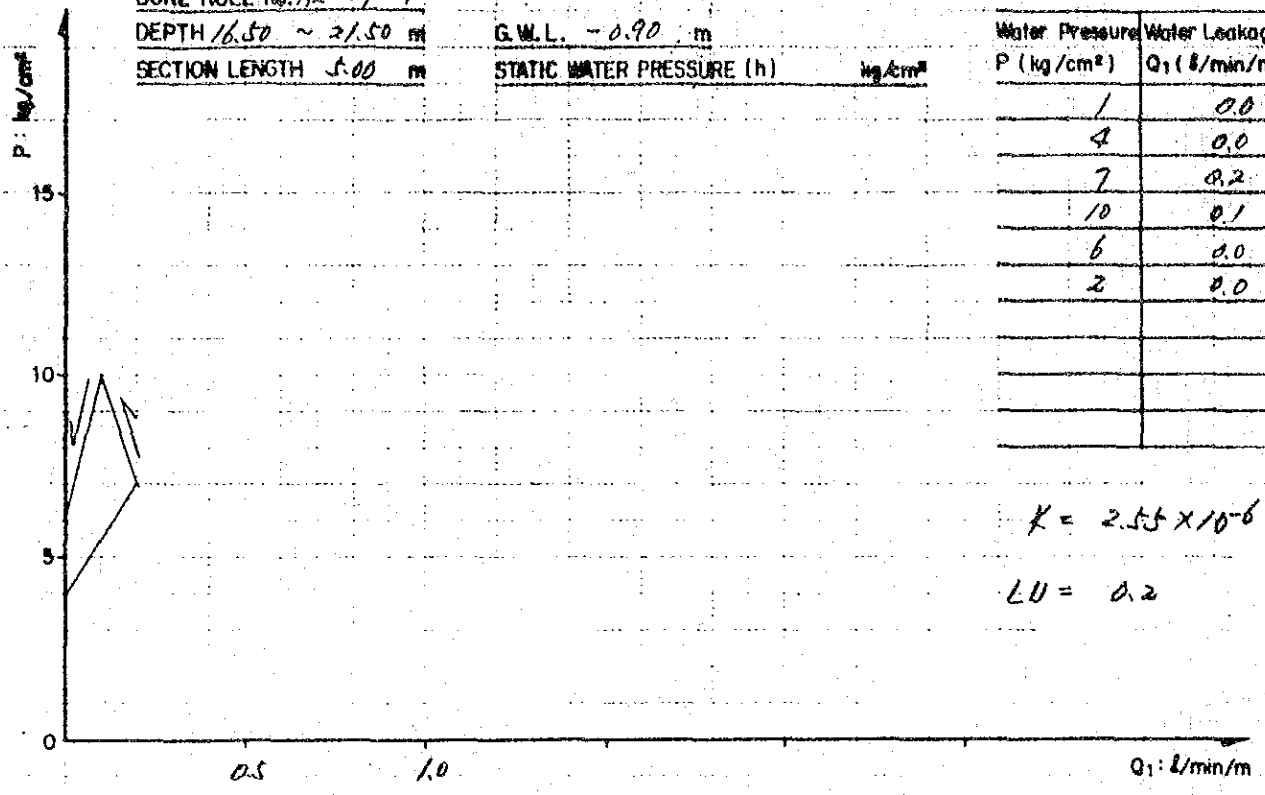


WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A2-79-4
DEPTH 16.50 ~ 21.50 m
SECTION LENGTH 5.00 m
G.W.L. -0.90 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	0.0
4	0.0
7	0.2
10	0.1
6	0.0
2	0.0

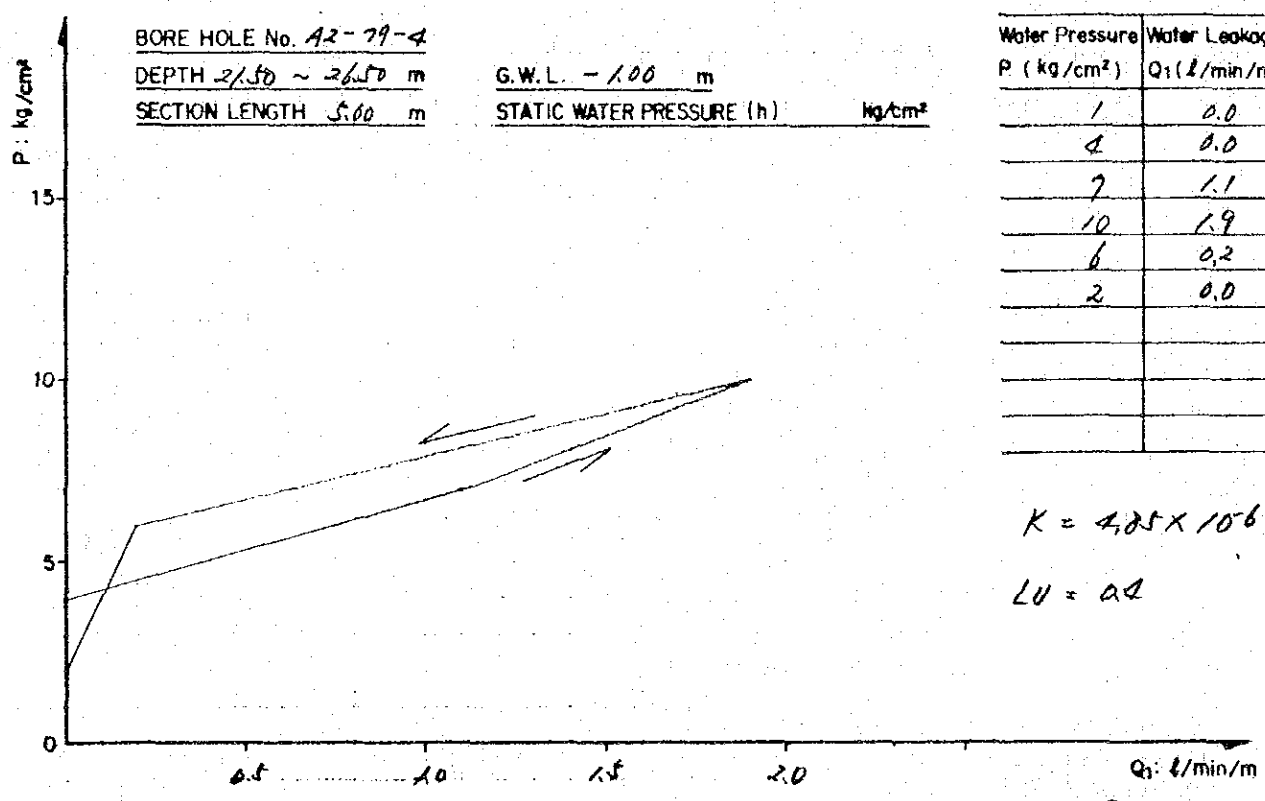


K = 2.55 × 10⁻⁶

Lu = 0.2

BORE HOLE No. A2-79-4
DEPTH 21.50 ~ 26.50 m
SECTION LENGTH 5.00 m
G.W.L. -1.00 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	0.0
4	0.0
7	1.1
10	1.9
6	0.2
2	0.0



K = 4.85 × 10⁻⁶

Lu = 0.4

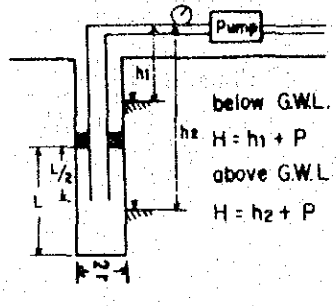
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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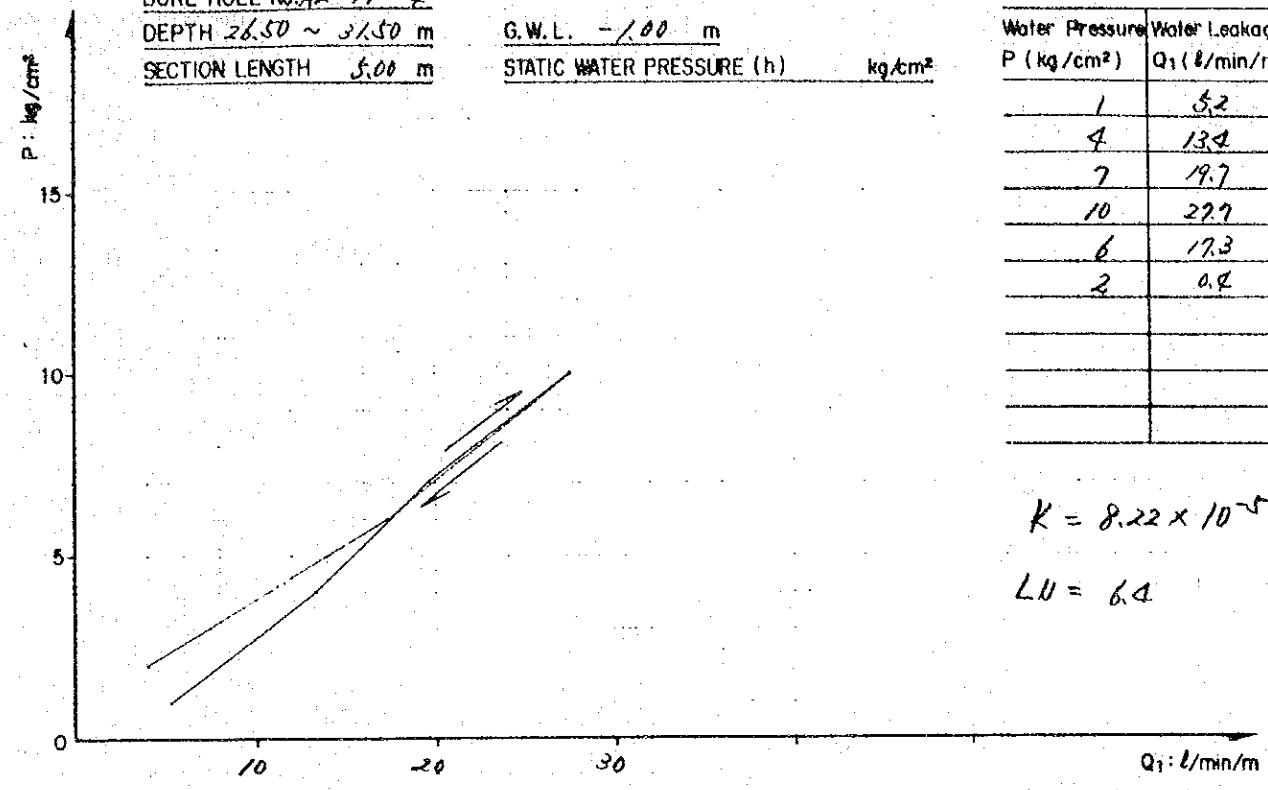
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A2-79-4
DEPTH 26.50 ~ 31.50 m
SECTION LENGTH 5.00 m
G.W.L. -1.00 m
STATIC WATER PRESSURE (h) kg/cm²

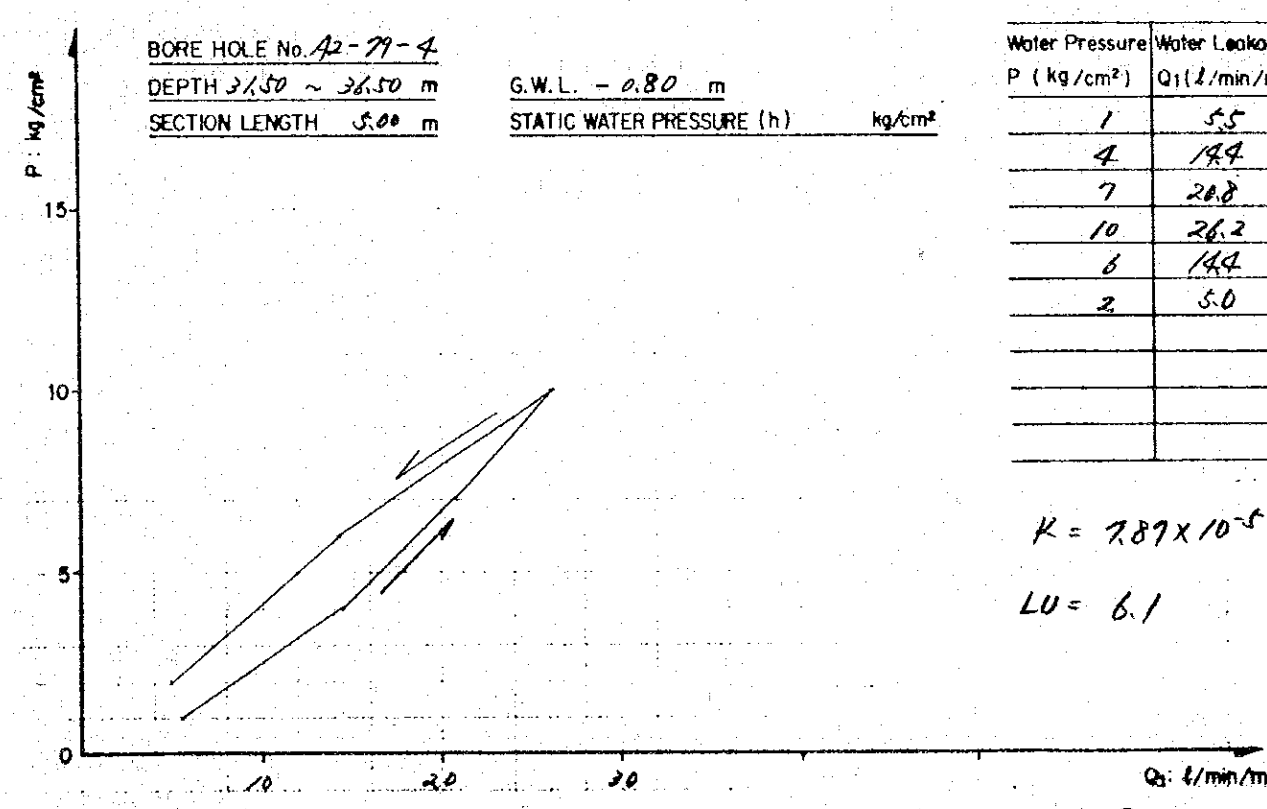


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	5.2
4	13.4
7	19.7
10	27.7
6	17.3
2	0.4

$K = 8.22 \times 10^{-5}$

$Lu = 6.4$

BORE HOLE No. A2-79-4
DEPTH 31.50 ~ 36.50 m
SECTION LENGTH 5.00 m
G.W.L. - 0.80 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	5.5
4	19.4
7	20.8
10	26.2
6	14.4
2	5.0

$K = 7.87 \times 10^{-5}$

$Lu = 6.1$

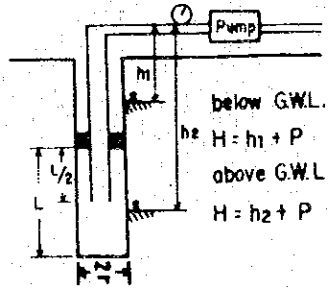
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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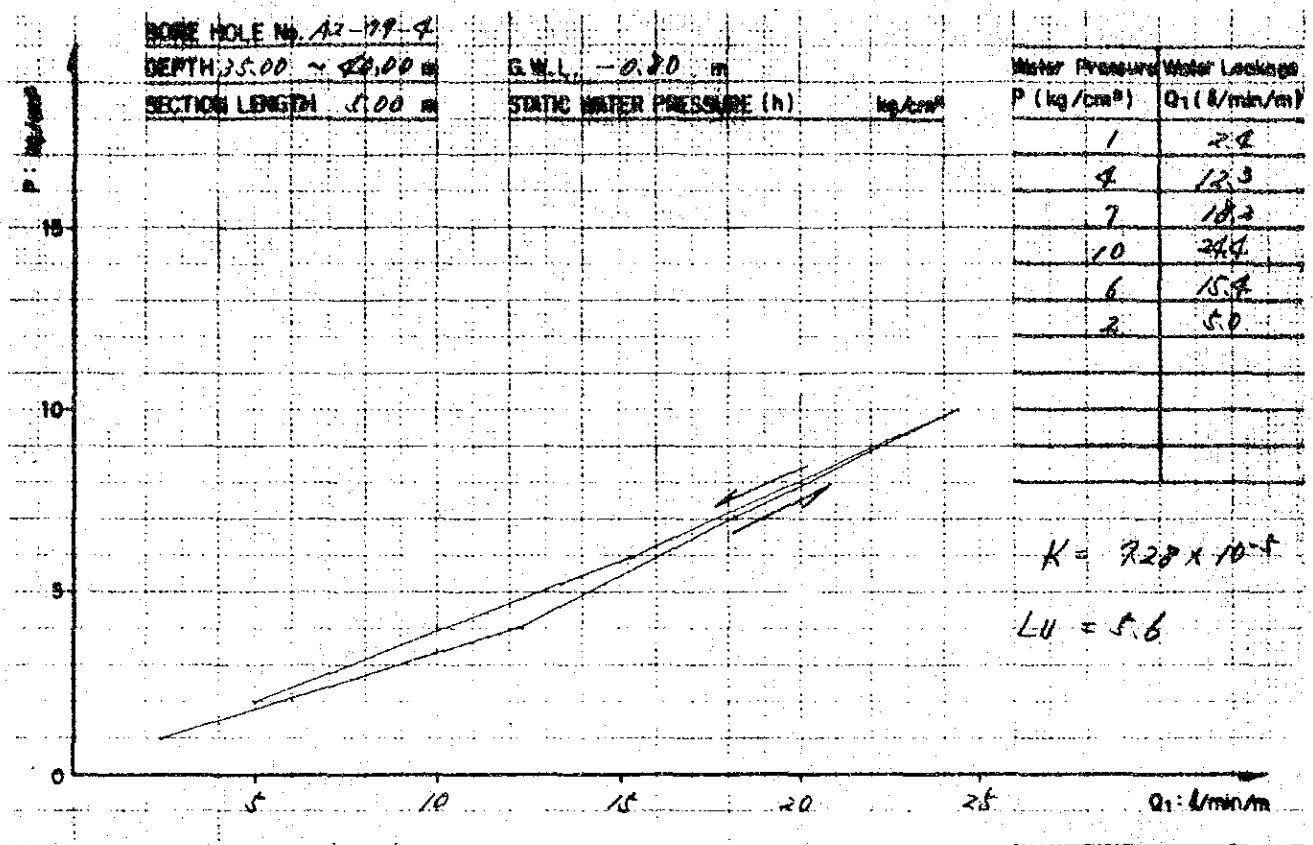
WATER PRESSURE TEST DIAGRAM

No 4

BORE HOLE No. A2-119-4
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. −0.80 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	2.2
4	12.3
7	18.2
10	24.4
6	15.4
2	5.0

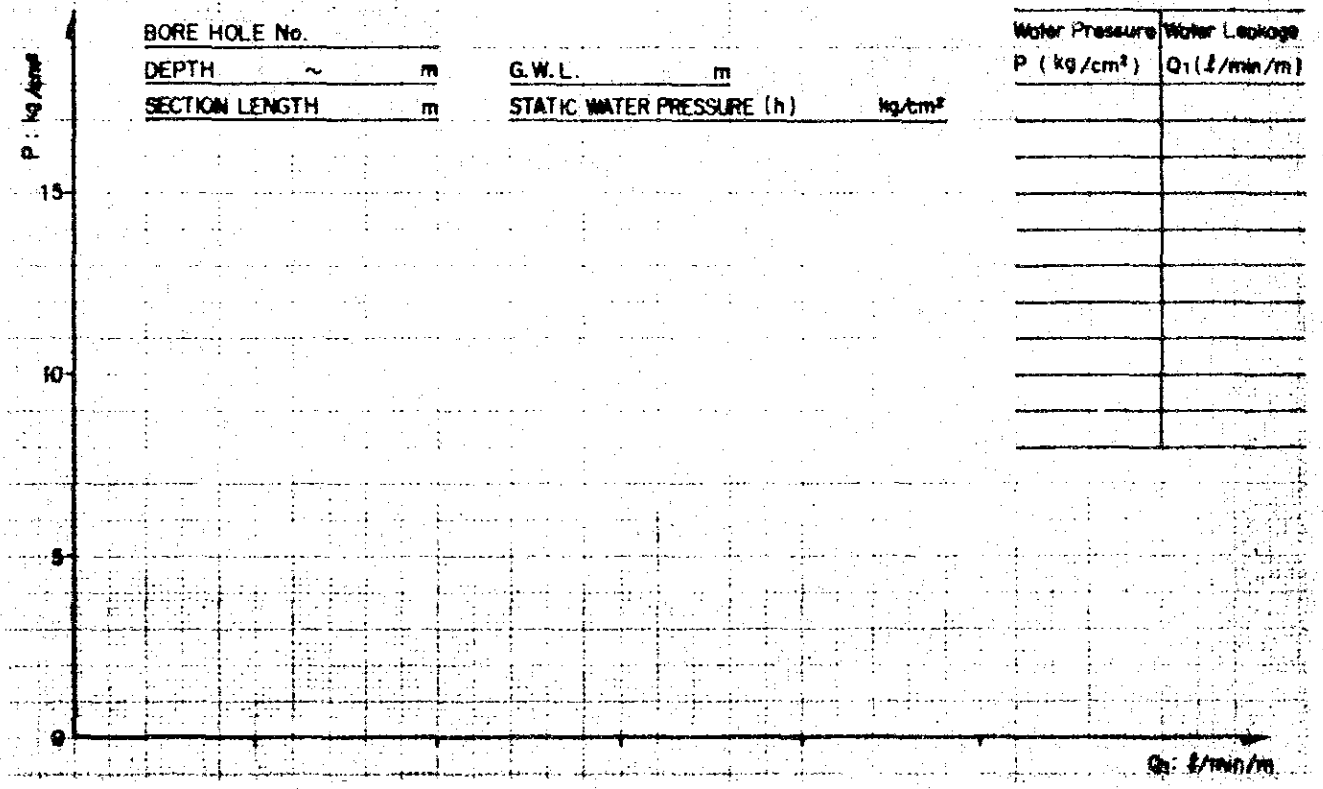


K = 2.28 × 10⁻⁴

Lu = 5.6

BORE HOLE No.
DEPTH ~ m
SECTION LENGTH m
G.W.L. m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)



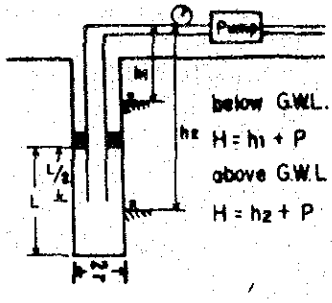
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^2$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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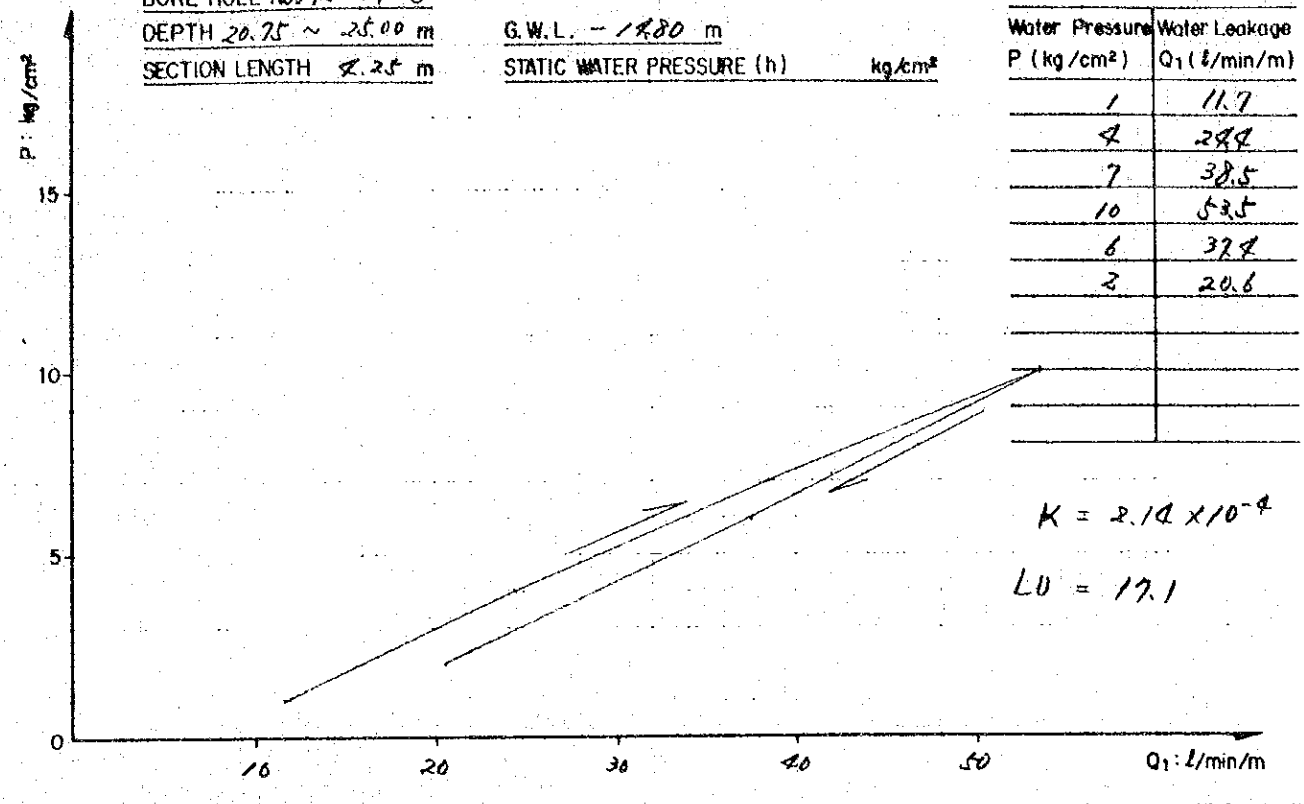
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A2-79-5
DEPTH 20.75 ~ 25.00 m
SECTION LENGTH 4.25 m
G.W.L. -14.80 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q_1 (ℓ/min/m)
1	11.7
4	29.9
7	38.5
10	53.5
6	32.9
2	20.6

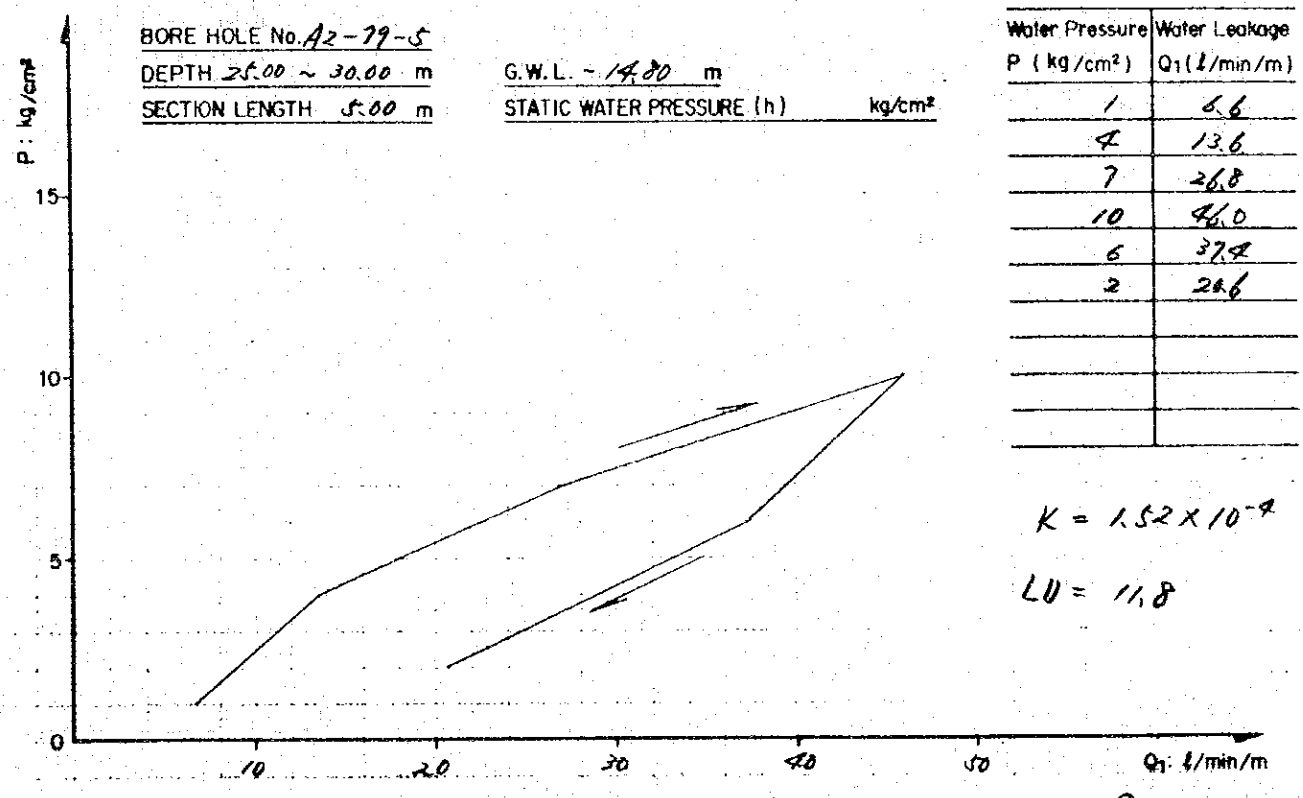


$K = 2.14 \times 10^{-4}$

$Lu = 17.1$

BORE HOLE No. A2-79-5
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. -14.80 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q_1 (ℓ/min/m)
1	6.6
4	13.6
7	26.8
10	46.0
6	37.9
2	26.6



$K = 1.52 \times 10^{-4}$

$Lu = 11.8$

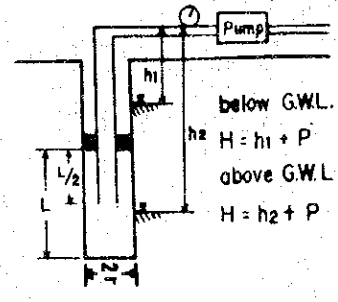
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

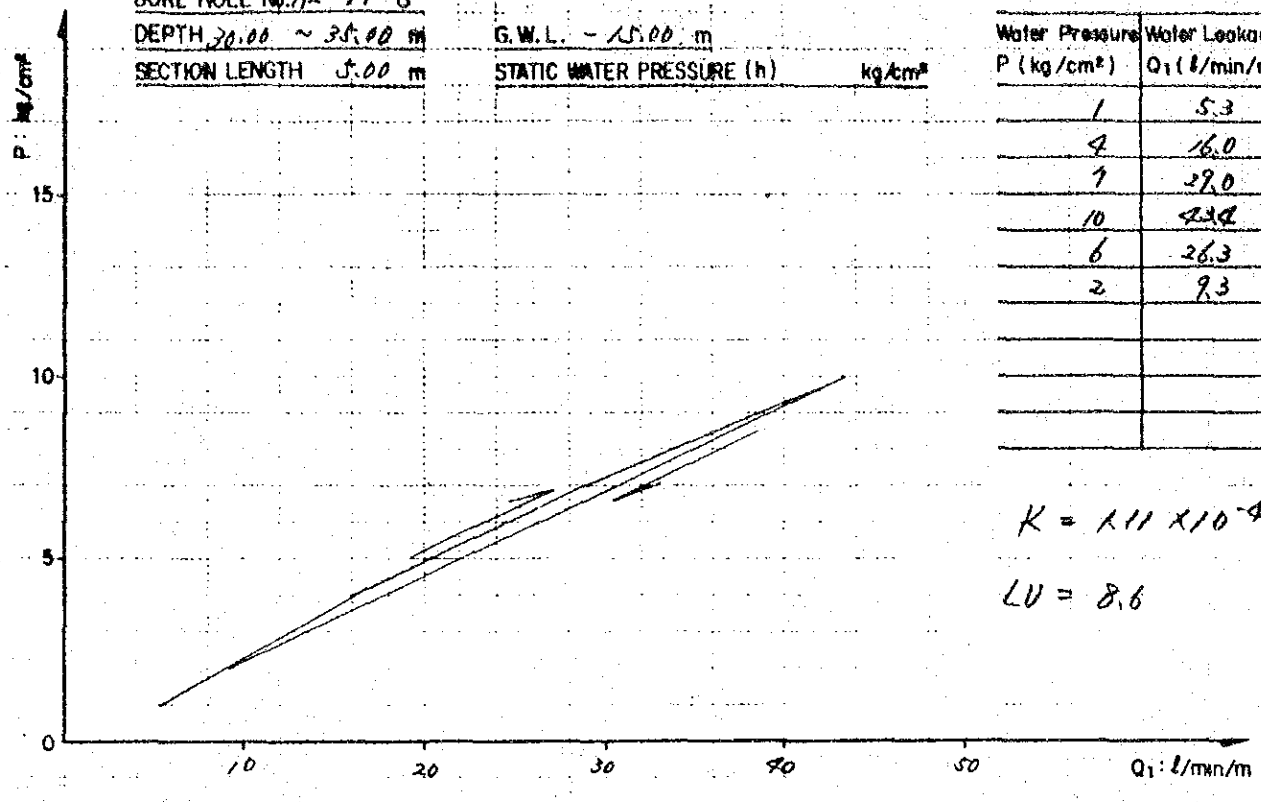
$Q_2 = Q_1 \times 1000$



WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A2-79-5
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. -15.00 m
STATIC WATER PRESSURE (h) kg/cm²

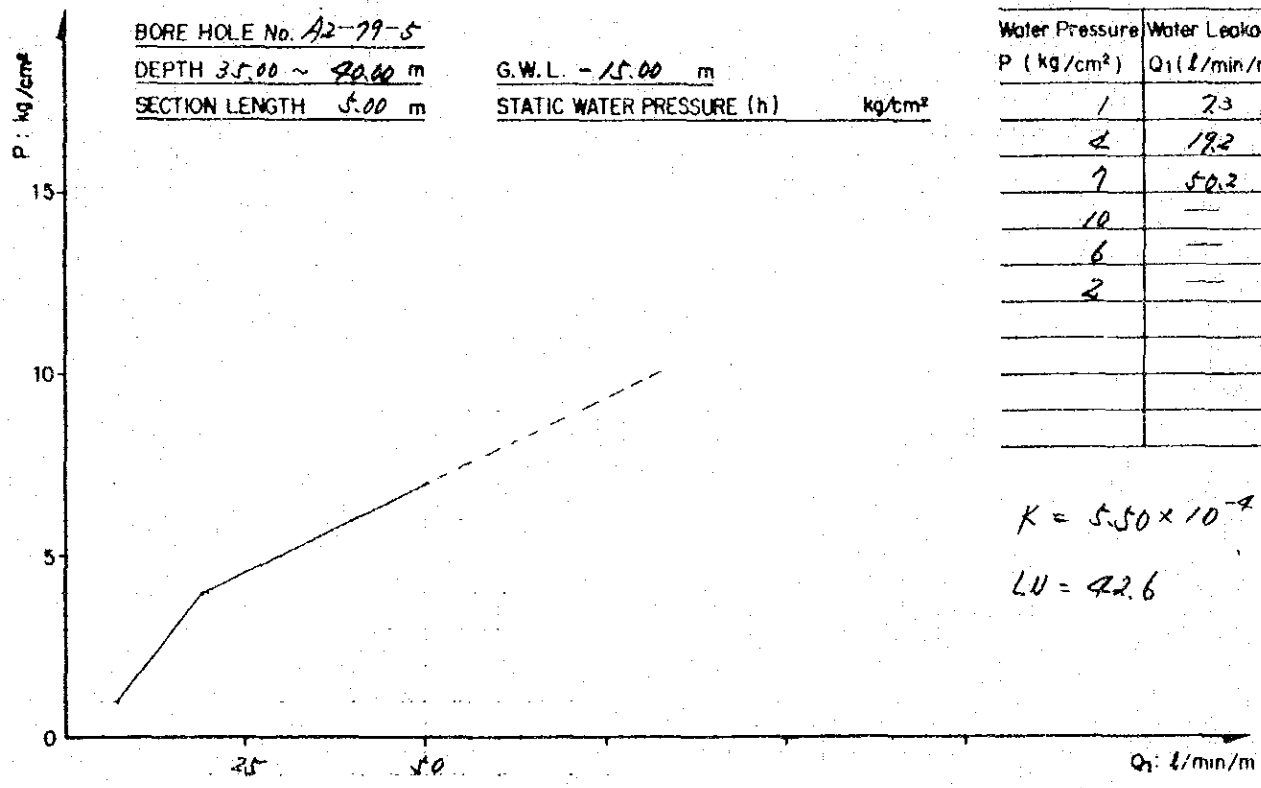


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	5.3
4	16.0
7	29.0
10	43.4
6	26.3
2	9.3

$K = 1.11 \times 10^{-4}$

$Lu = 8.6$

BORE HOLE No. A2-79-5
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. -15.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	7.3
4	19.2
7	50.3
10	—
6	—
2	—

$K = 5.50 \times 10^{-4}$

$Lu = 42.6$

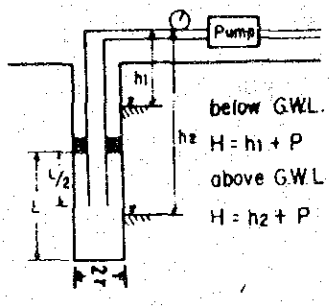
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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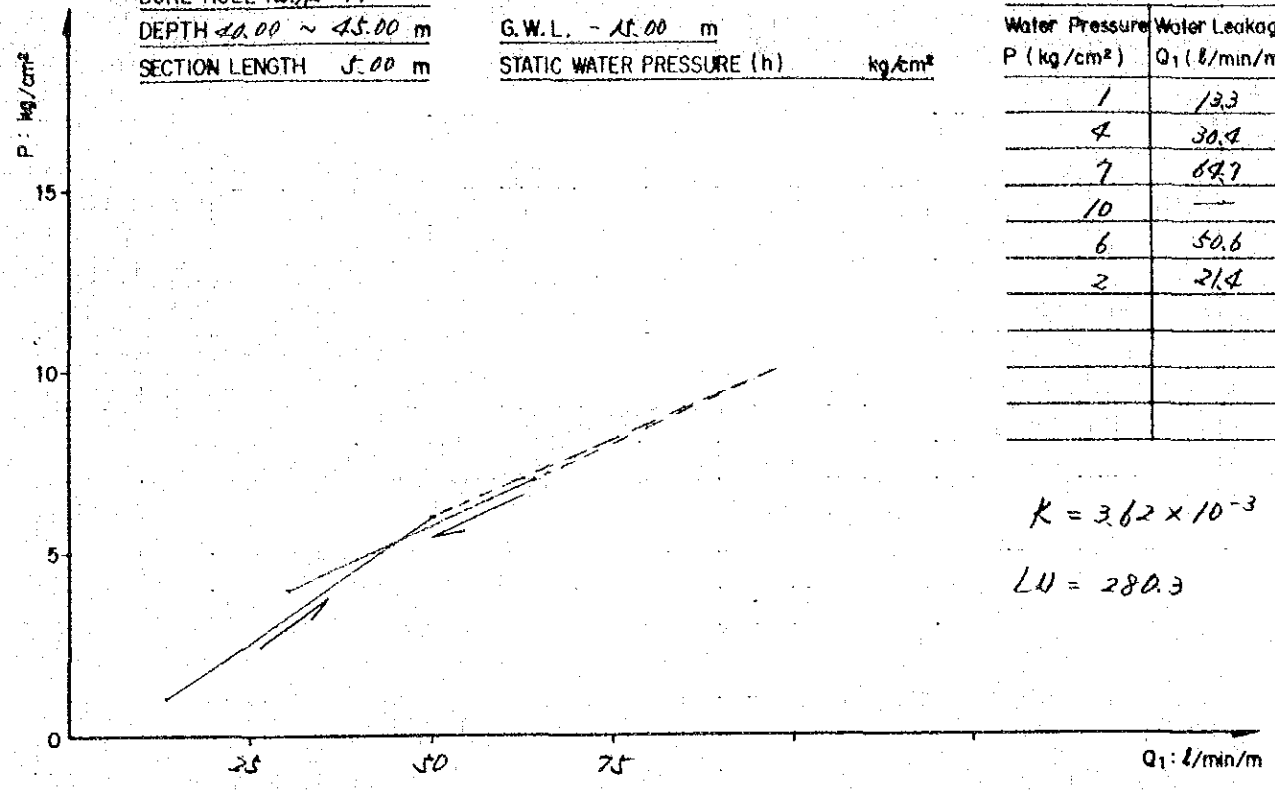
WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A2-79-5
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. -15.00 m
STATIC WATER PRESSURE (h) kg/cm²

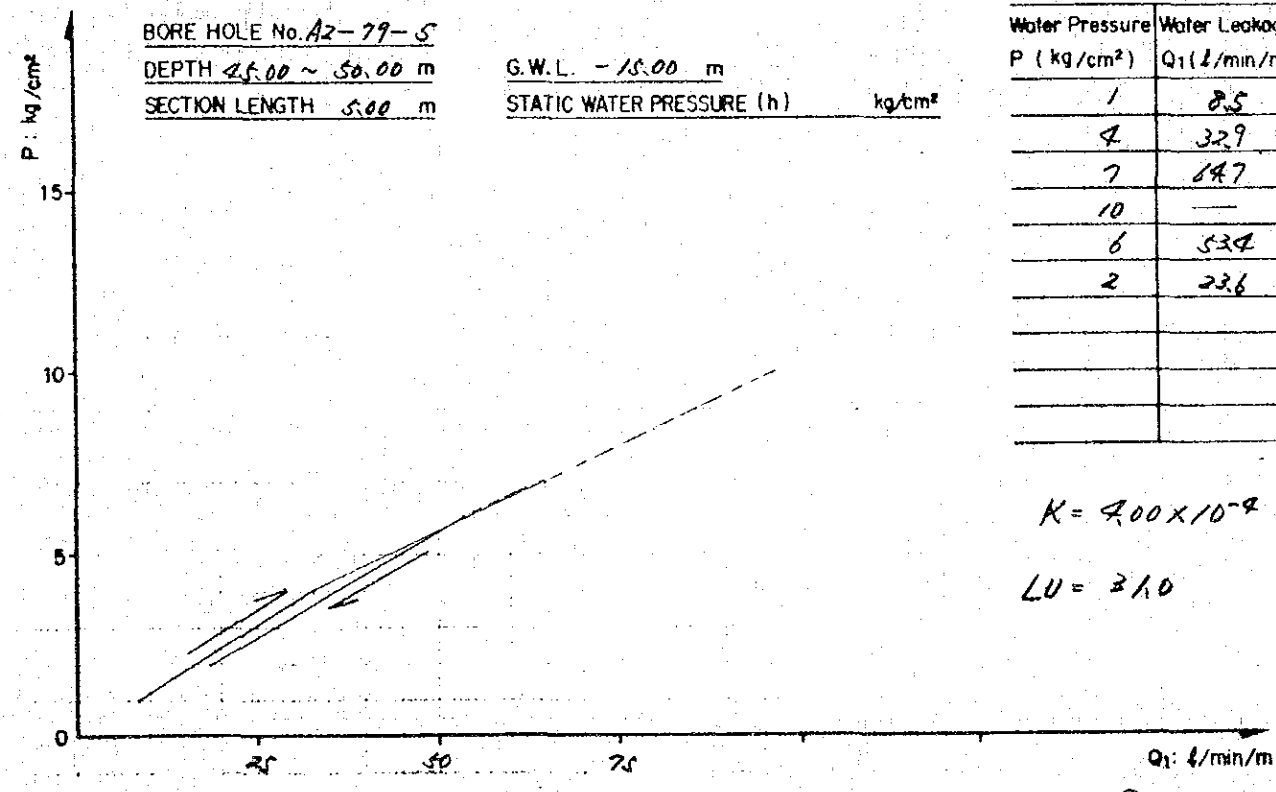


Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	13.3
4	30.4
7	64.7
10	—
6	50.6
2	21.4

$K = 3.62 \times 10^{-3}$

$Lu = 280.3$

BORE HOLE No. A2-79-5
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH 5.00 m
G.W.L. -15.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	8.5
4	32.9
7	64.7
10	—
6	53.4
2	23.6

$K = 4.00 \times 10^{-4}$

$Lu = 31.0$

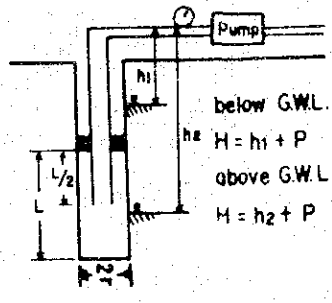
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q_2 = Q_1 \times 1000$



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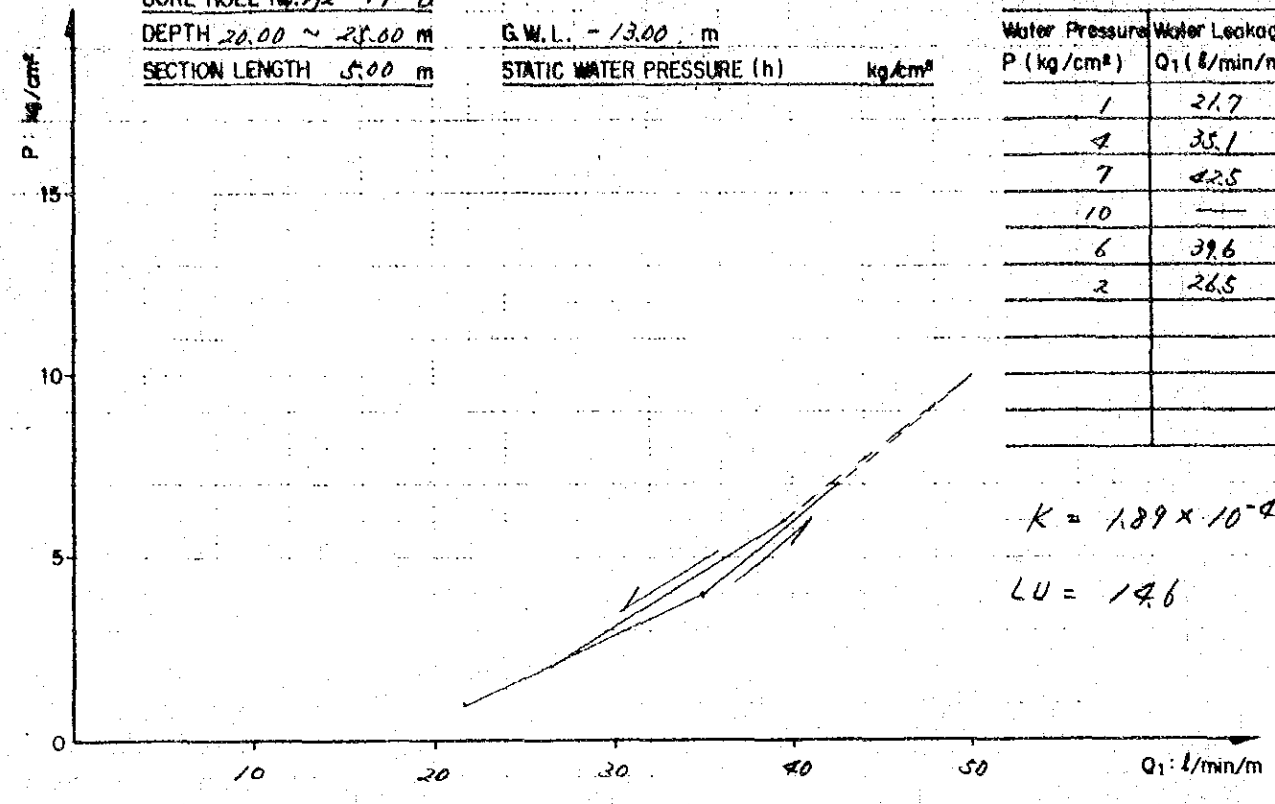
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A2-79-6
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. -13.00 m
STATIC WATER PRESSURE (h) kg/cm²

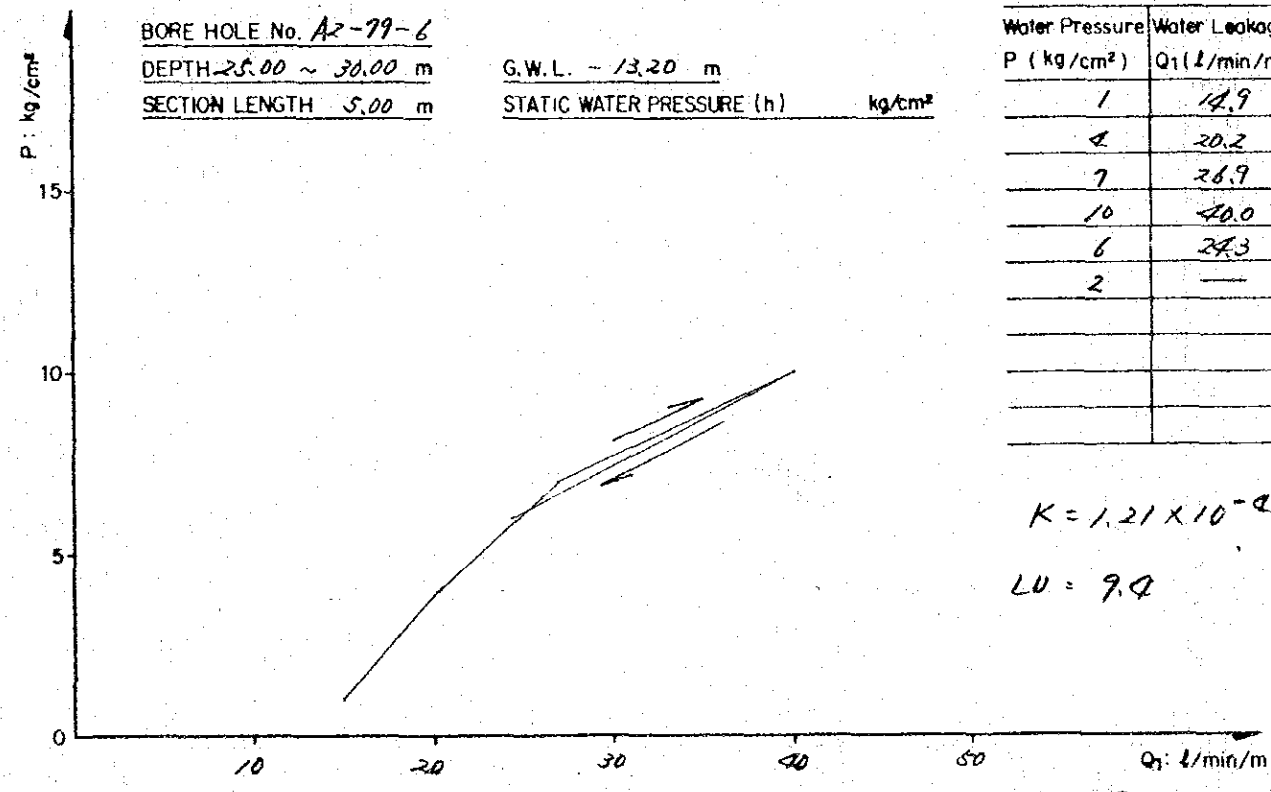


Water Pressure P (kg/cm²)	Water Leakage Q1 (l/min/m)
1	21.7
4	35.1
7	42.5
10	—
6	39.6
2	26.5

$K = 1.89 \times 10^{-4}$

$Lu = 14.6$

BORE HOLE No. A2-79-6
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. -13.20 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q1 (l/min/m)
1	14.9
4	20.2
7	26.9
10	40.0
6	24.3
2	—

$K = 1.21 \times 10^{-4}$

$Lu = 9.4$

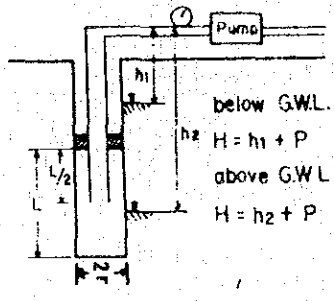
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^4$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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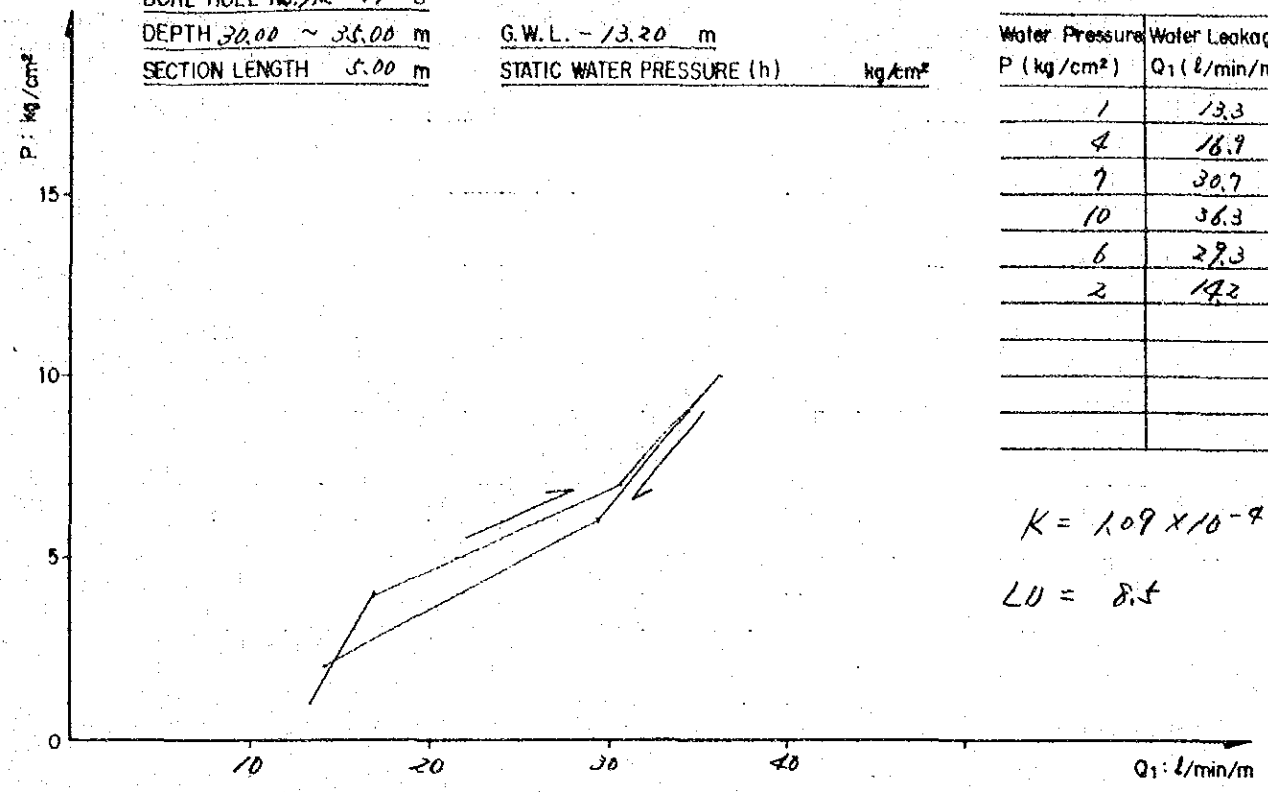
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A2-79-6
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. - 13.20 m
STATIC WATER PRESSURE (h) kg/cm²

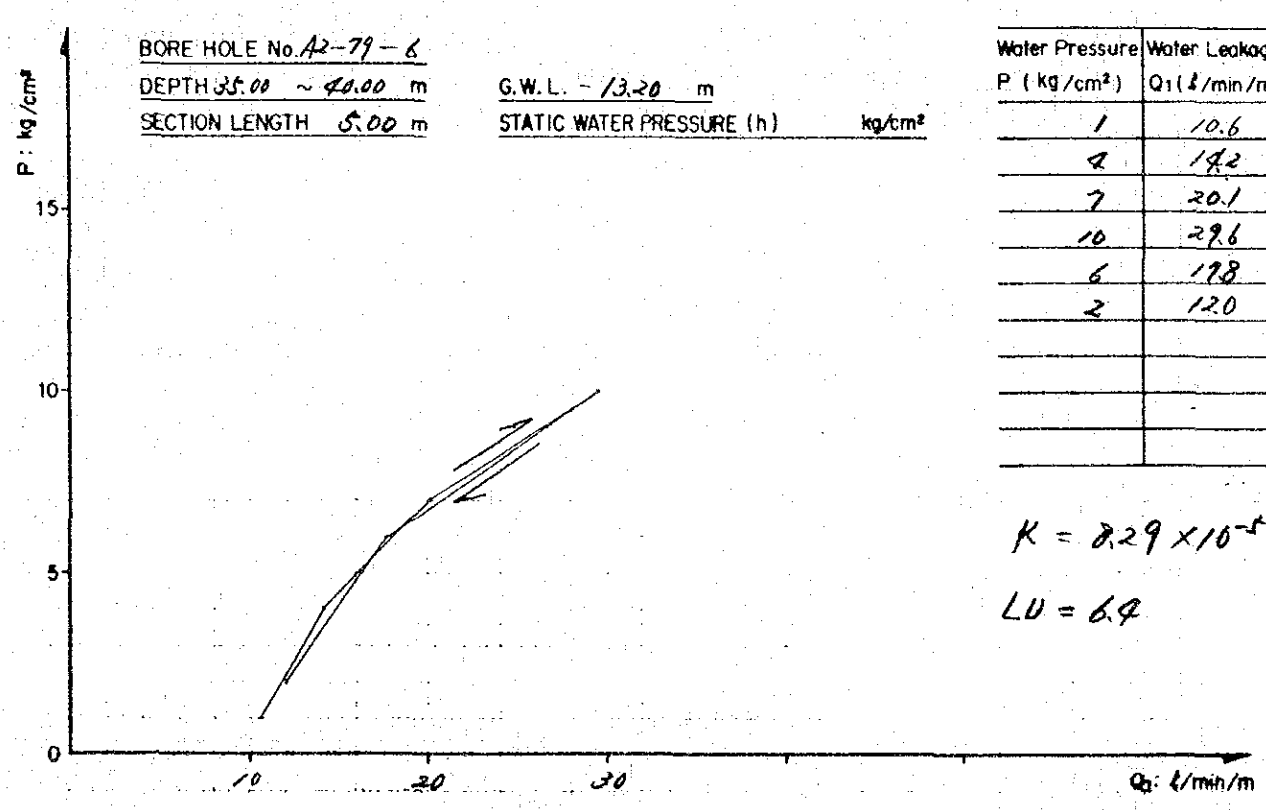
Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	13.3
4	16.9
7	30.7
10	36.3
6	29.3
2	14.2



K = 1.09 × 10⁻⁴
Lu = 8.5

BORE HOLE No. A2-79-6
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. - 13.20 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q1 (ℓ/min/m)
1	10.6
4	14.2
7	20.1
10	29.6
6	19.8
2	12.0



K = 8.29 × 10⁻⁵
Lu = 6.9

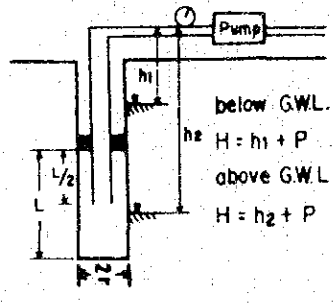
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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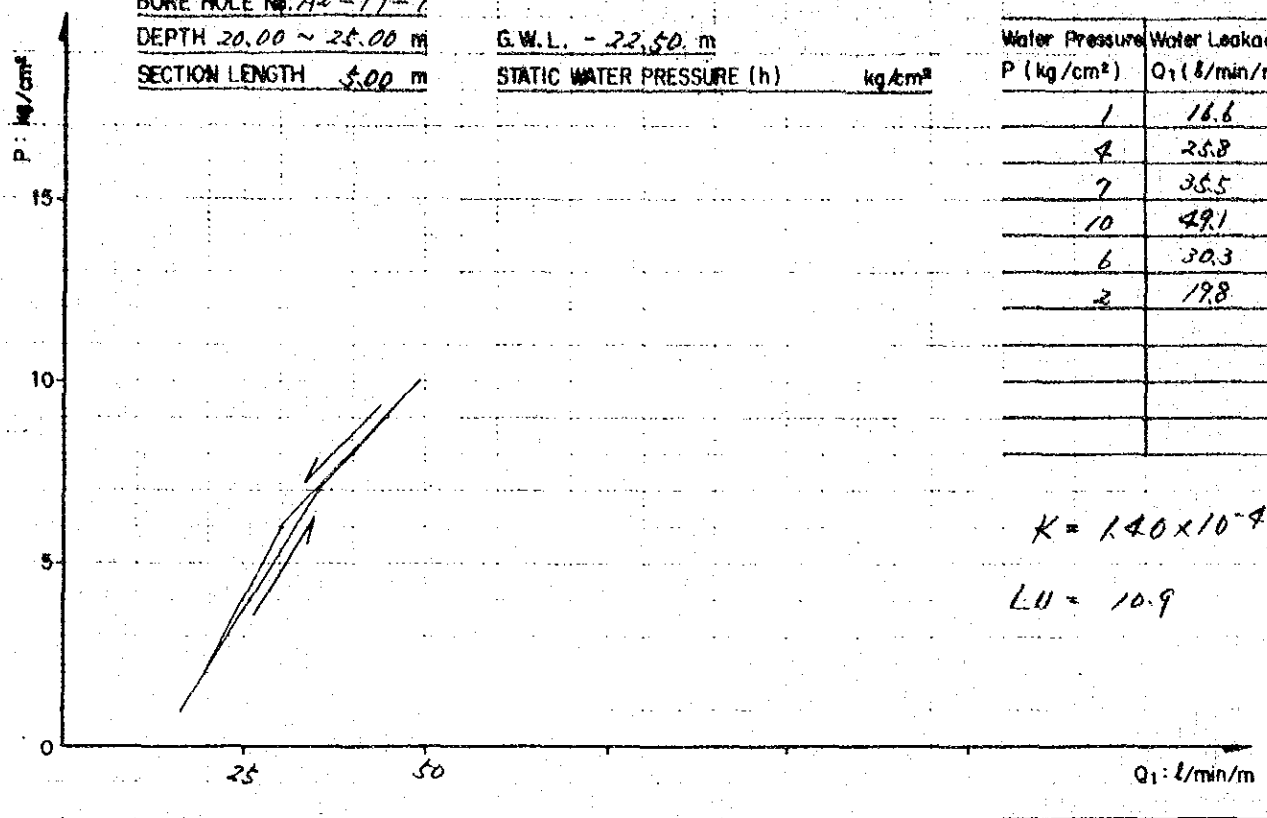
WATER PRESSURE TEST DIAGRAM

No 1

BORE HOLE No. A2-19-7
DEPTH 20.00 ~ 25.00 m
SECTION LENGTH 5.00 m
G.W.L. - 22.50 m
STATIC WATER PRESSURE (h) kg/cm²

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	16.6
4	25.8
7	35.5
10	49.1
6	30.3
2	19.8



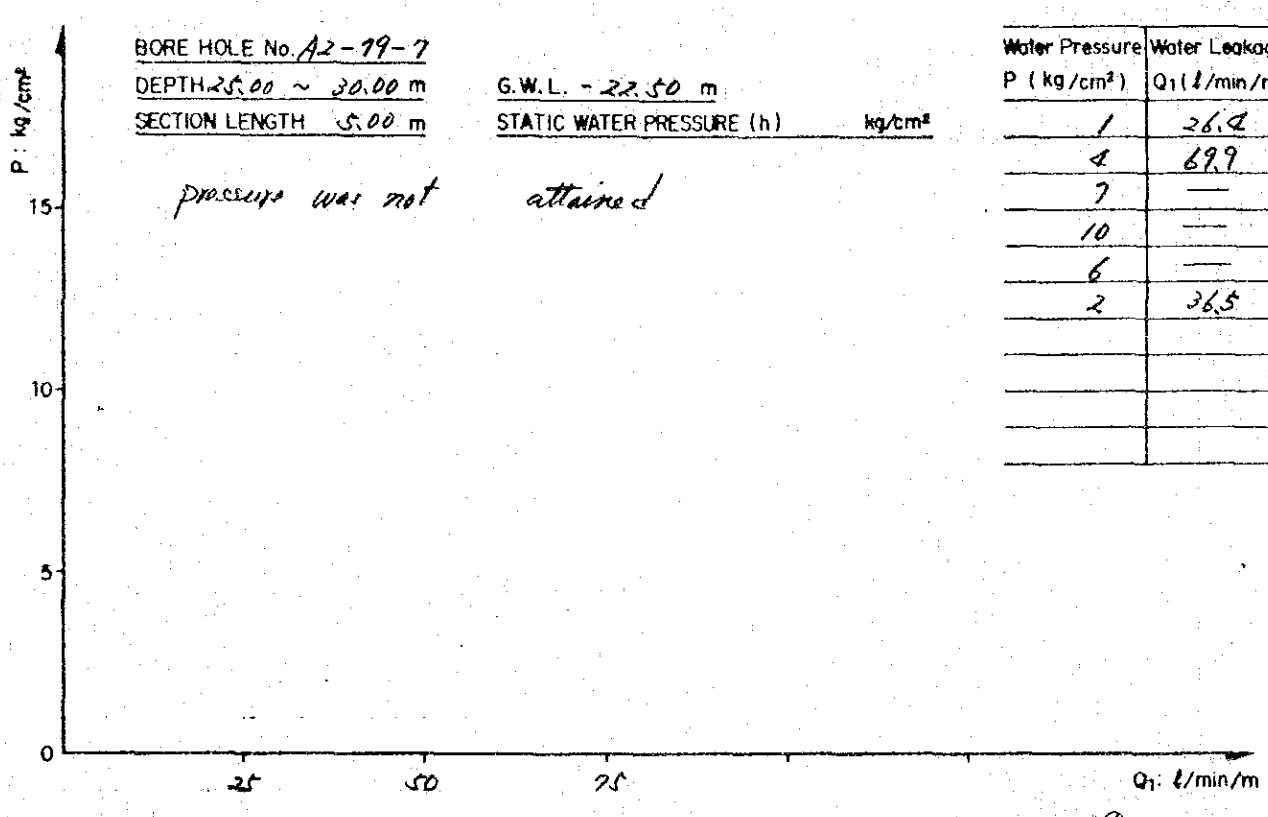
K = 1.40 × 10⁻⁴

Lu = 10.9

BORE HOLE No. A2-19-7
DEPTH 25.00 ~ 30.00 m
SECTION LENGTH 5.00 m
G.W.L. - 22.50 m
STATIC WATER PRESSURE (h) kg/cm²

pressure was not attained

Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	26.4
4	69.9
7	—
10	—
6	—
2	36.5



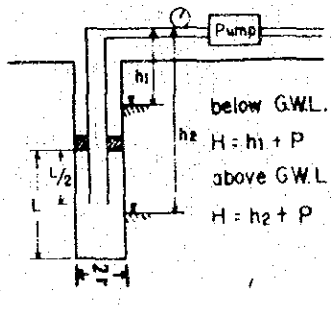
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^3$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$$Q_2 = Q_1 \times 1000$$



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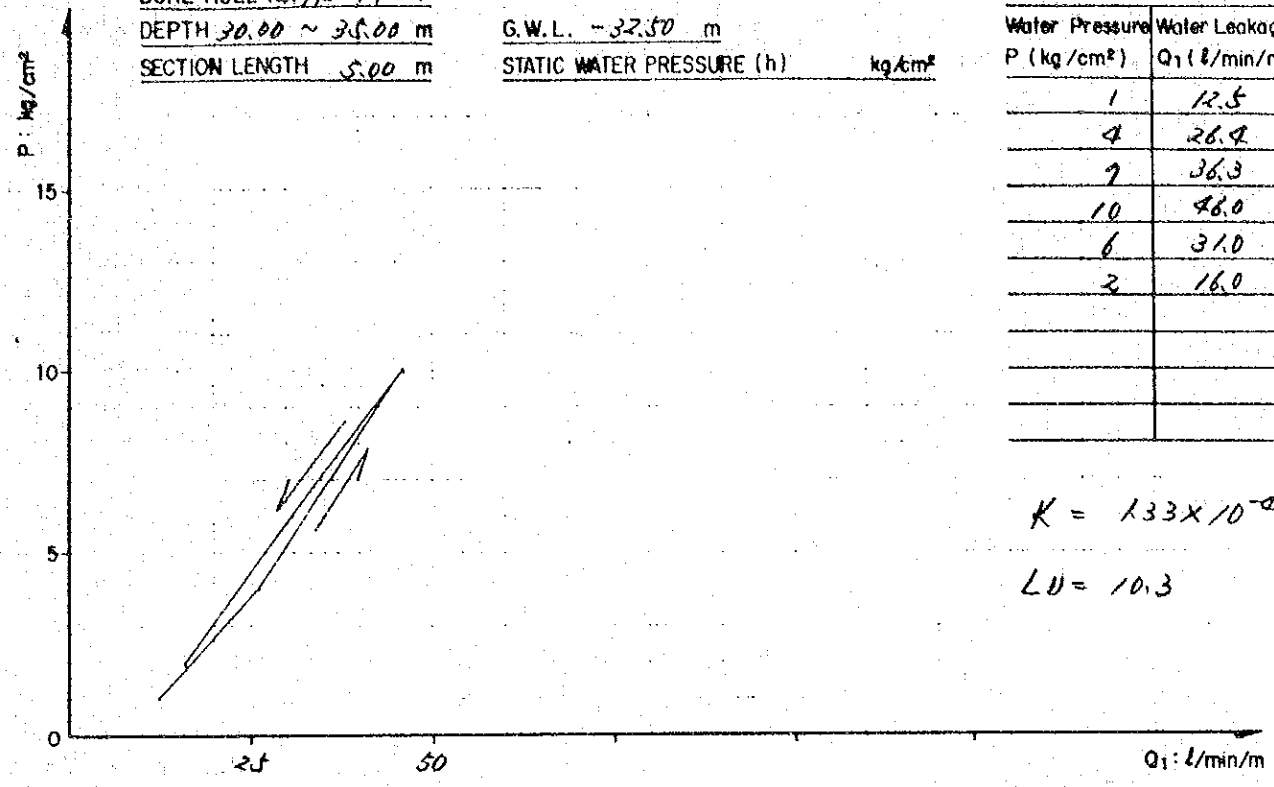
WATER PRESSURE TEST DIAGRAM

No 2

BORE HOLE No. A2-79-7
DEPTH 30.00 ~ 35.00 m
SECTION LENGTH 5.00 m
G.W.L. -32.50 m
STATIC WATER PRESSURE (h) kg/cm²

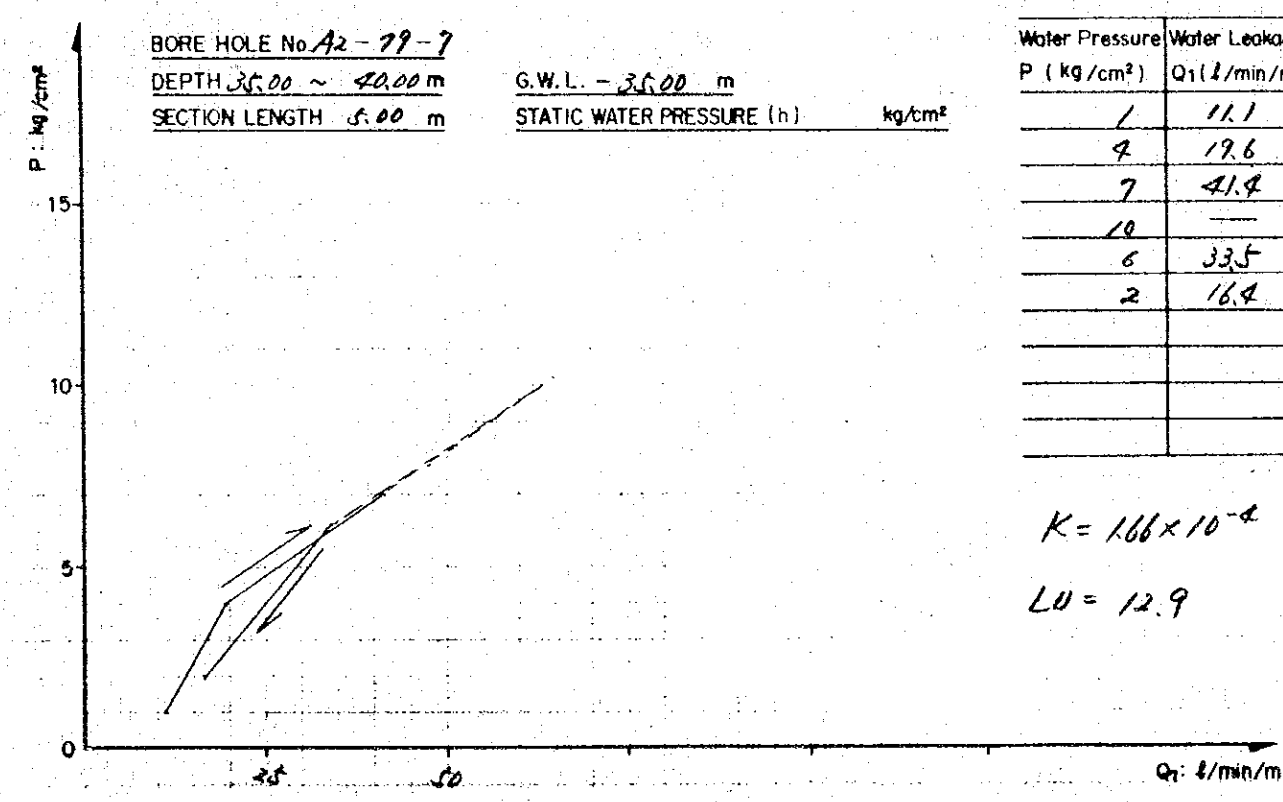


Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	12.5
4	26.4
7	36.3
10	46.0
6	31.0
2	16.0

K = 1.33 × 10⁻⁴

Lu = 10.3

BORE HOLE No. A2 - 79 - 7
DEPTH 35.00 ~ 40.00 m
SECTION LENGTH 5.00 m
G.W.L. - 35.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q₁ (ℓ/min/m)
1	11.1
4	19.6
7	41.4
10	—
6	33.5
2	16.4

K = 1.66 × 10⁻⁴

Lu = 12.9

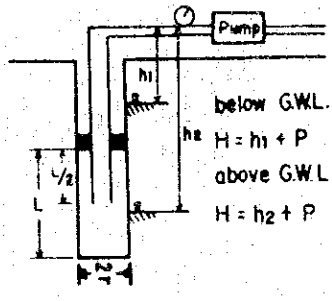
LUGEON UNIT (Lu)

$$Lu = \frac{Q_1}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3 Q_2 / 60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

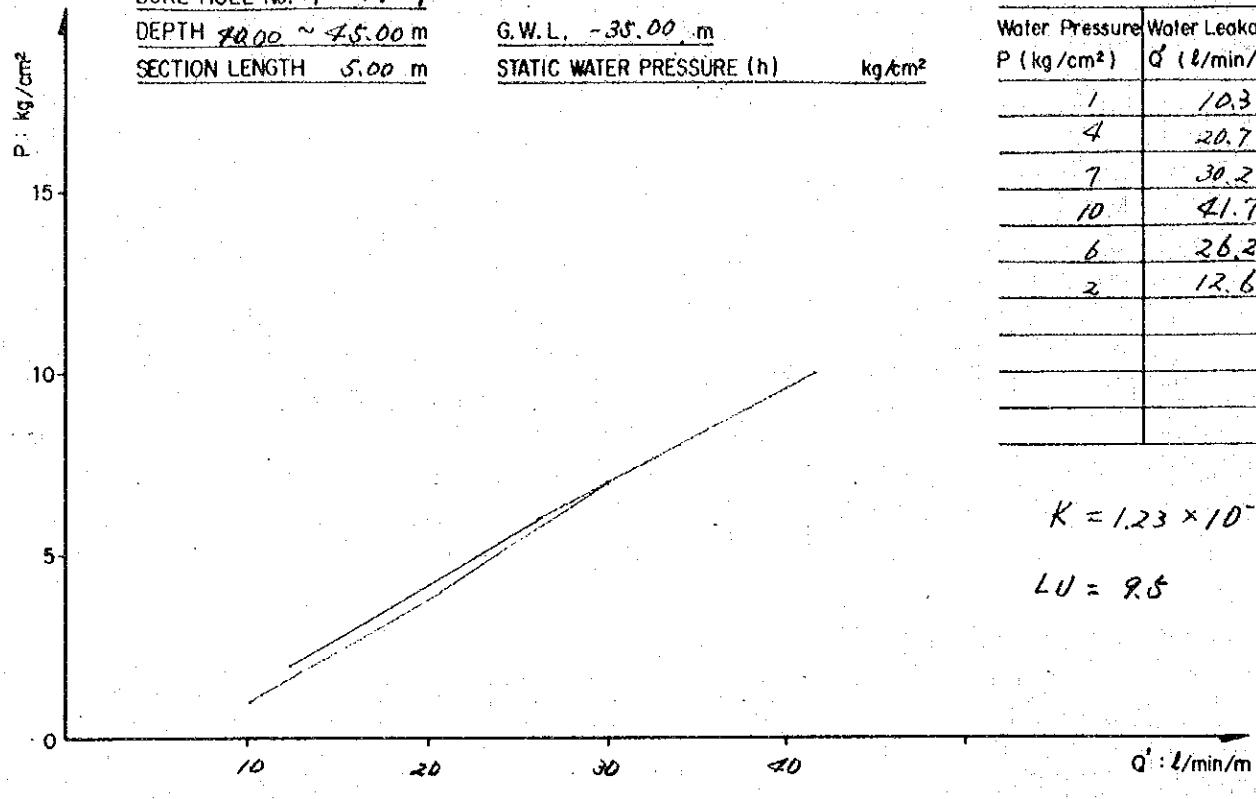
$$Q_2 = Q_1 \times 1000$$



WATER PRESSURE TEST DIAGRAM

No 3

BORE HOLE No. A2-79-7
DEPTH 40.00 ~ 45.00 m
SECTION LENGTH 5.00 m
G.W.L. -35.00 m
STATIC WATER PRESSURE (h) kg/cm²

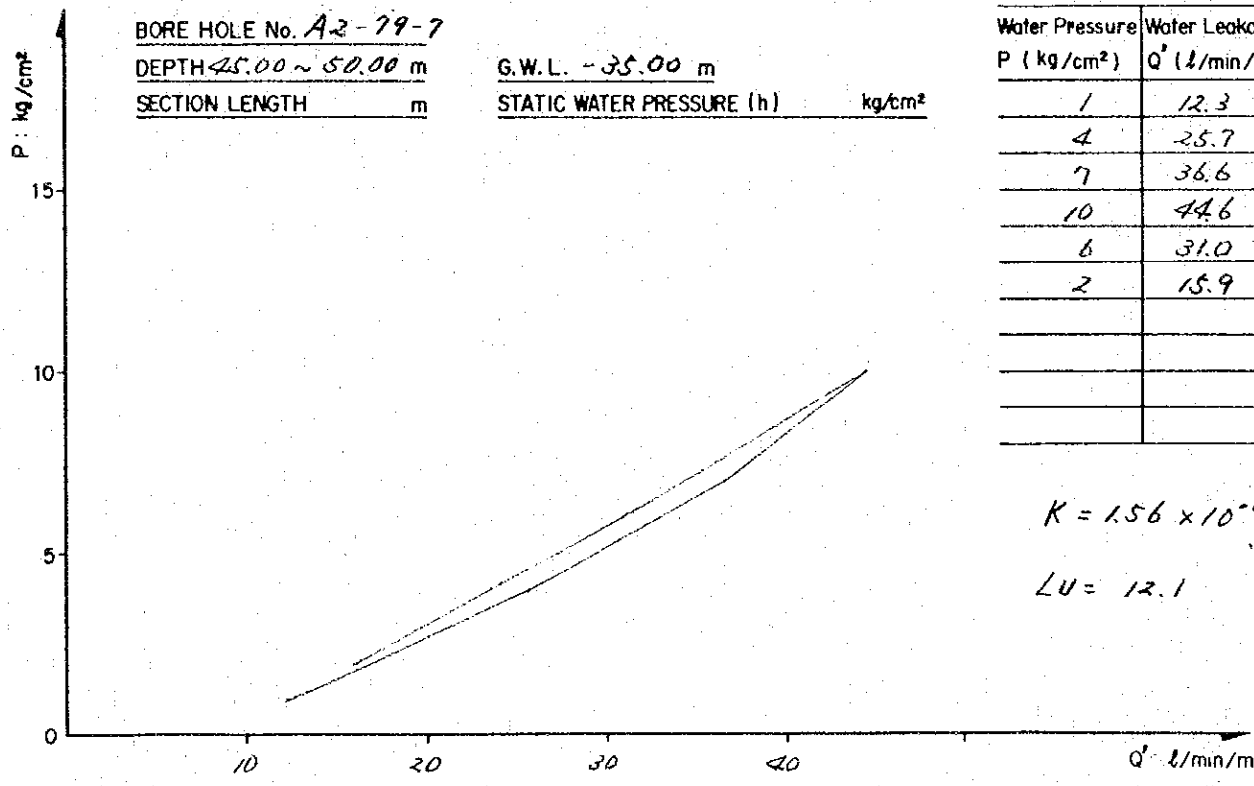


Water Pressure P (kg/cm²)	Water Leakage Q' (l/min/m)
1	10.3
4	20.7
7	30.2
10	41.7
6	26.2
2	12.6

$K = 1.23 \times 10^{-4}$

$Lu = 9.5$

BORE HOLE No. A2-79-7
DEPTH 45.00 ~ 50.00 m
SECTION LENGTH m
G.W.L. -35.00 m
STATIC WATER PRESSURE (h) kg/cm²



Water Pressure P (kg/cm²)	Water Leakage Q' (l/min/m)
1	12.3
4	25.7
7	36.6
10	44.6
6	31.0
2	15.9

$K = 1.56 \times 10^{-4}$

$Lu = 12.1$

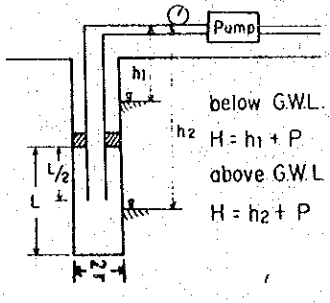
LUGEON UNIT (Lu)

$$Lu = \frac{Q'}{L \cdot H} \times 10^6$$

PERMEABILITY COEFFICIENT (K)

$$K = \frac{2.3Q/60}{2\pi \cdot L \cdot H} \times \log_{10} \frac{L}{r}$$

$Q = Q' \times 1000$



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