UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

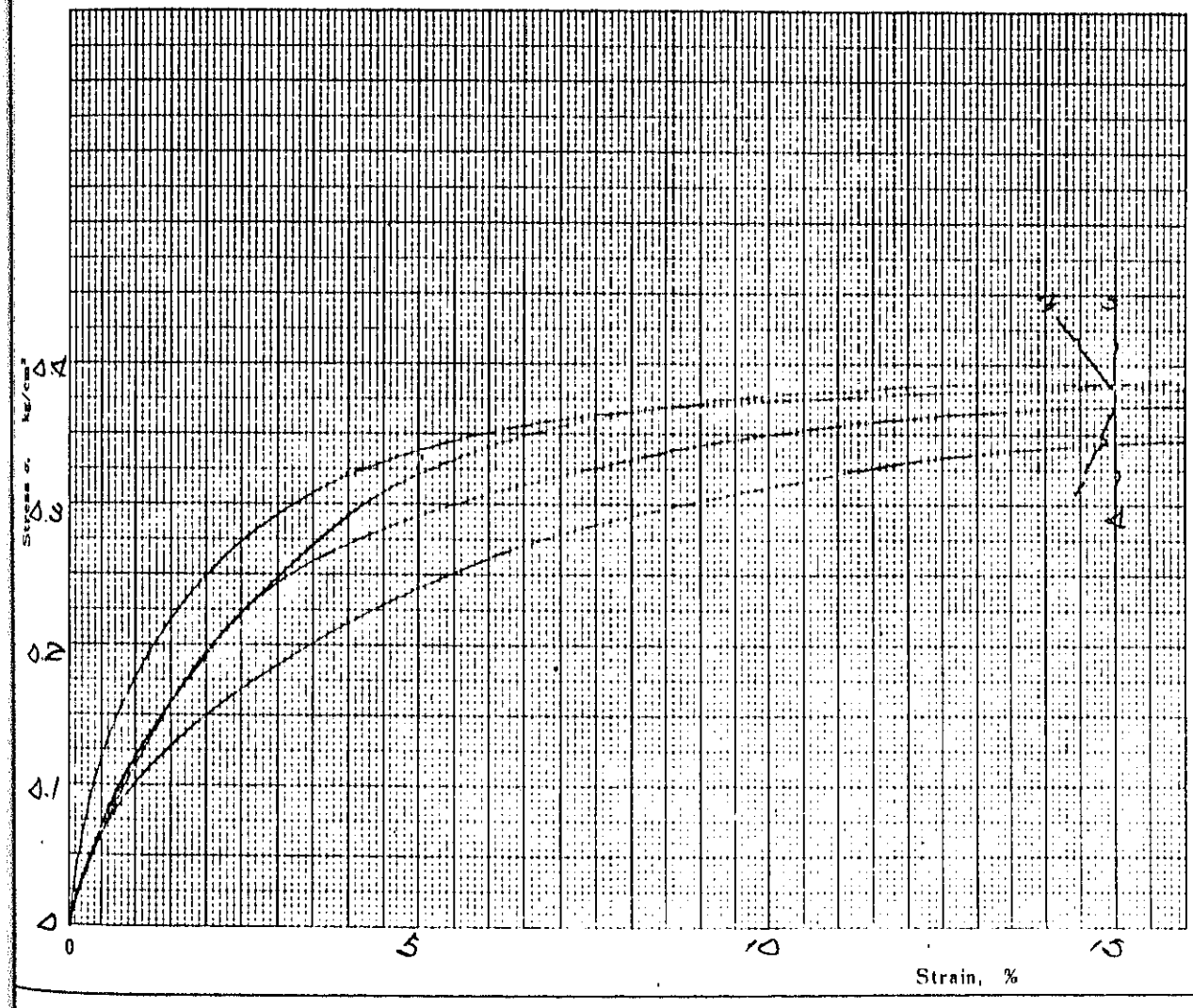
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-6 Sample No.: S6-1

Date of testing: Nov. 19, 1979 Depth of Sample: 2.00m - 2.87m

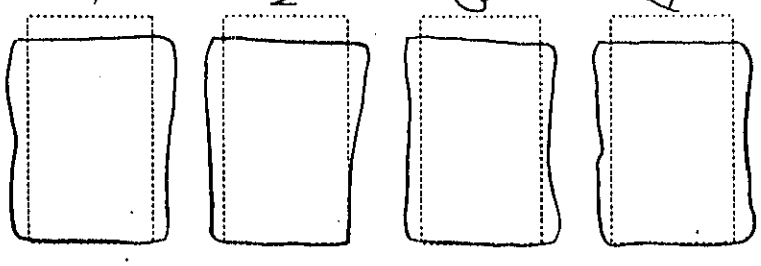
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E50 kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.00	3.47	30.7	2.02	0.370	10	(15)	0.2
2	"	7.03	3.52	31.2	2.02	0.385	17	(15)	0.8
3	"	7.03	3.52	31.8	2.01	0.387	10	(15)	1.4
4	"	7.00	3.52	31.1	2.01	0.344	7	(15)	2.0



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

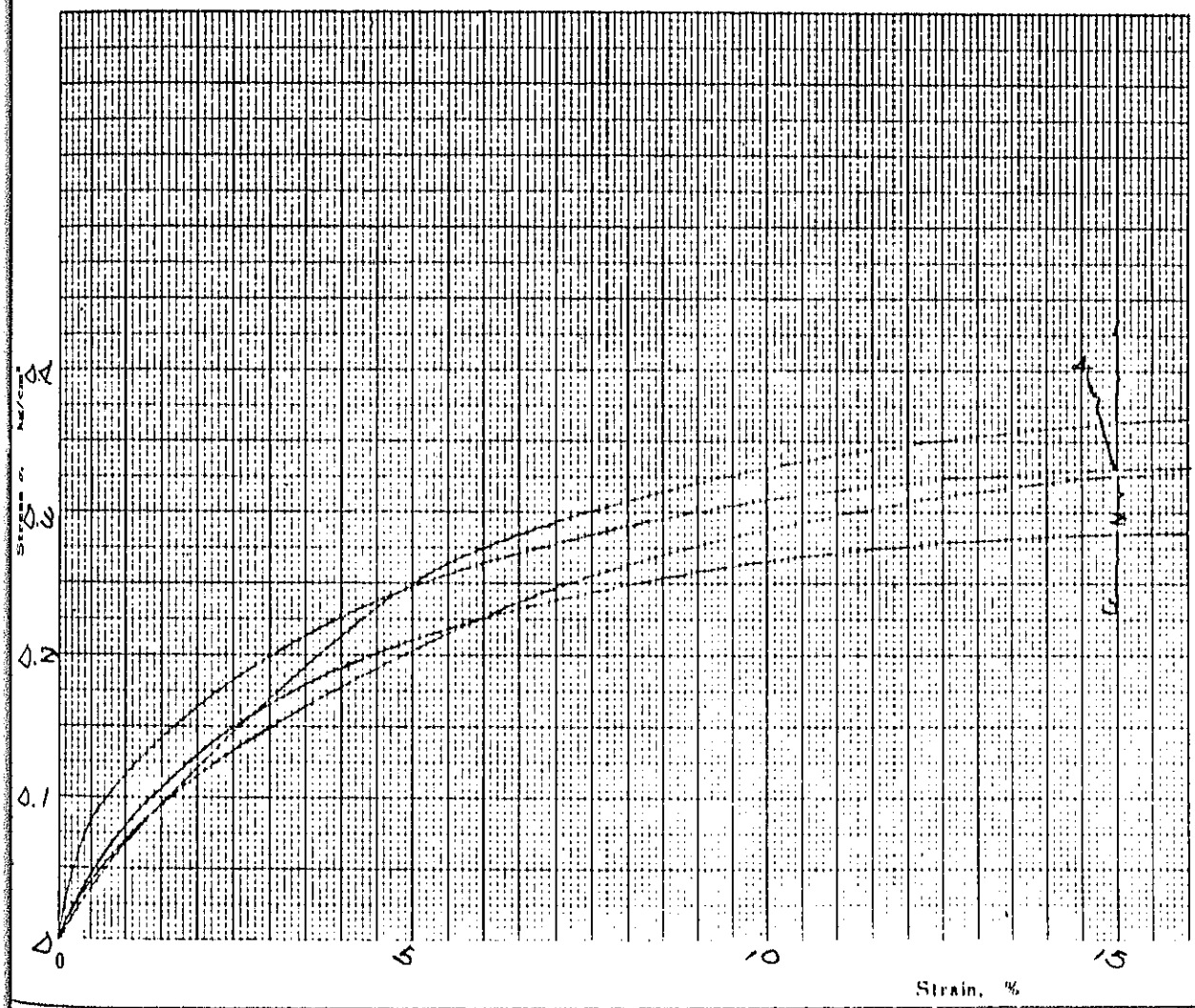
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-6 Sample No. S6-2

Date of testing Nov. 19, 1979 Depth of Sample 4.00m - 4.78m

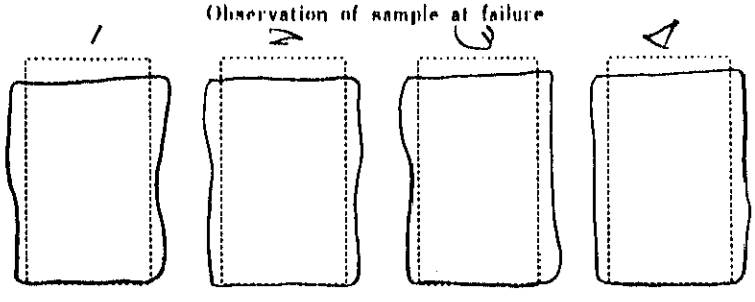
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E50 kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.10	3.55	30.8	1.96	0.364	5	(15)	0.4
2	"	7.00	3.53	30.5	1.98	0.326	5	(15)	1.0
3	"	7.08	3.52	32.9	1.97	0.285	6	(15)	1.6
4	"	7.09	3.53	32.4	1.95	0.331	8	(15)	2.2



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

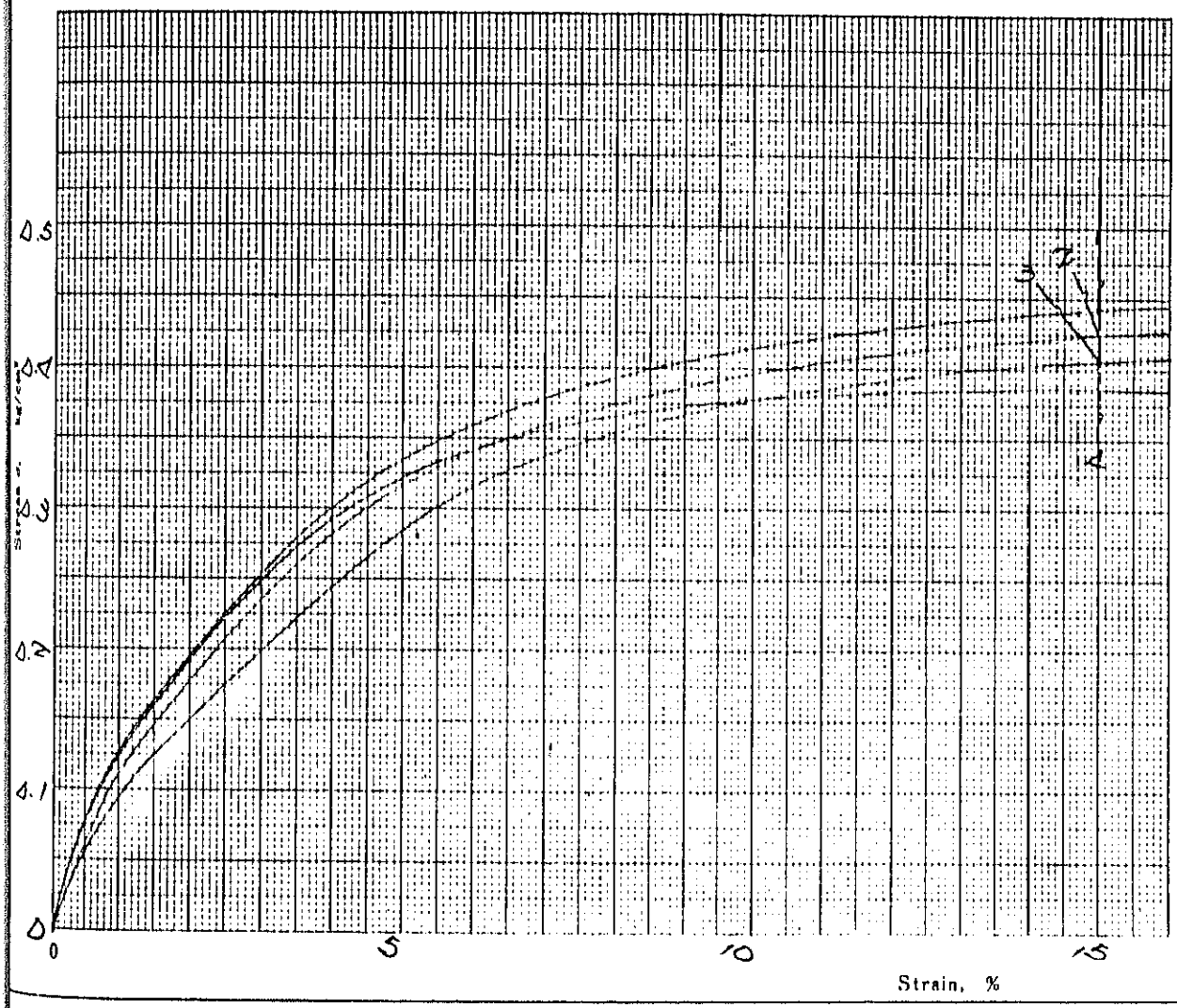
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-6 Sample No. S6-3

Date of testing Nov. 19, 1979 Depth of Sample 6.00m - 6.86m

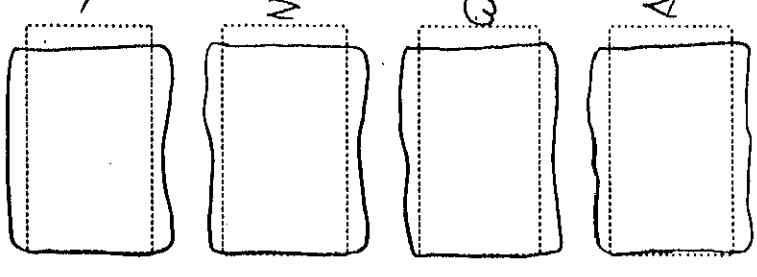
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E50 kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.09	3.53	32.3	1.96	0.443	9	(15)	0.4
2	"	7.08	3.53	31.8	1.97	0.425	8	(15)	1.0
3	"	7.10	3.53	32.0	1.96	0.405	7	(15)	1.6
4	"	7.08	3.53	31.0	1.99	0.386	10	(15)	2.2



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

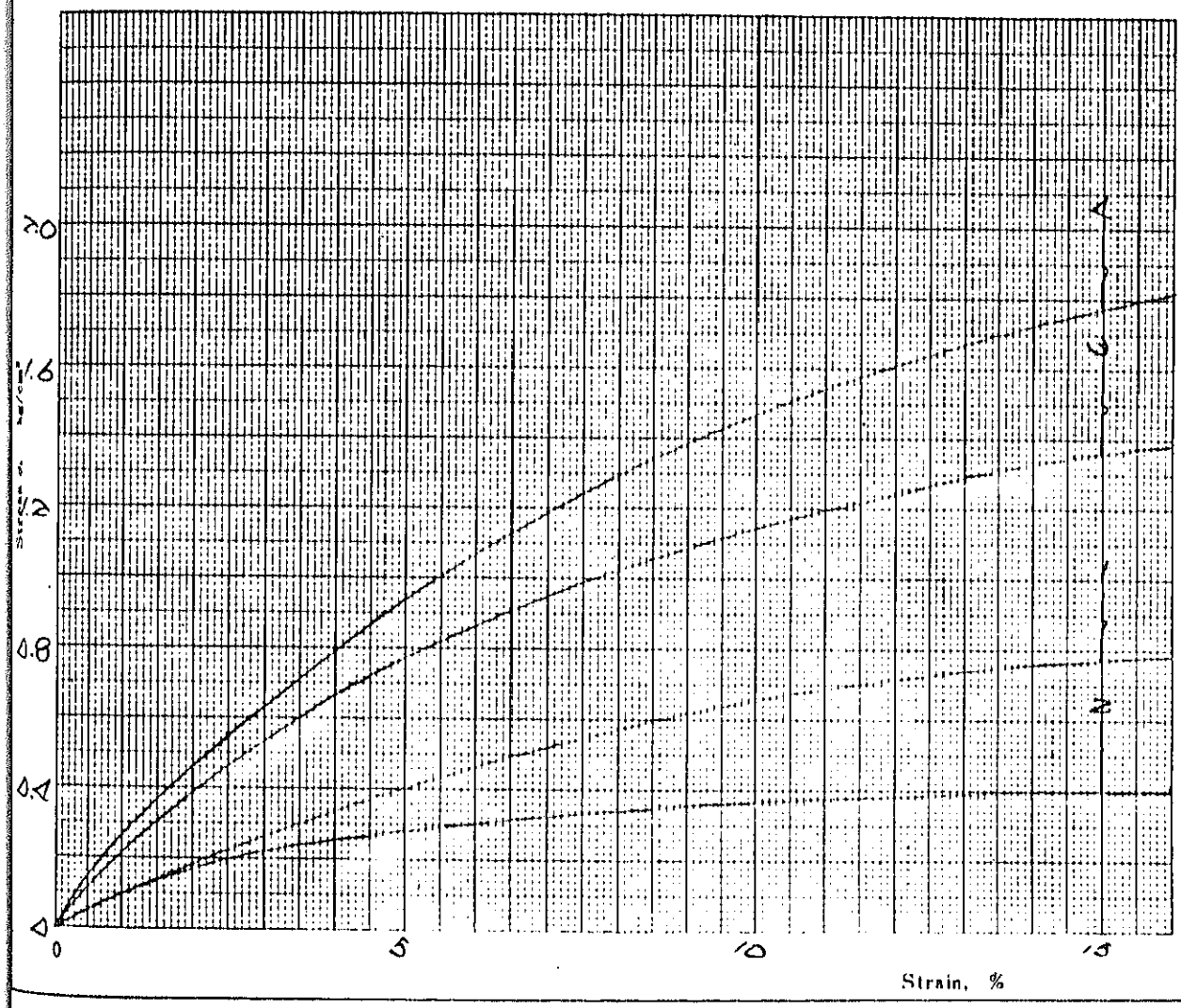
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-6 Sample No. S6-4

Date of testing Nov. 19, 1979 Depth of Sample 9.00m - 9.87m

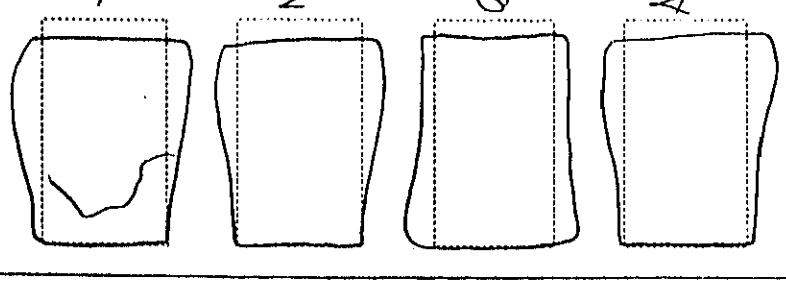
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation Eso kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.10	3.55	24.5	2.07	0.770	8	(15)	0.2
2	"	7.06	3.53	24.2	2.07	0.701	8	(15)	1.0
3	"	7.00	3.52	22.9	2.08	1.36	17	(15)	1.8
4	"	7.00	3.54	23.5	2.08	1.77	19	(15)	2.6



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

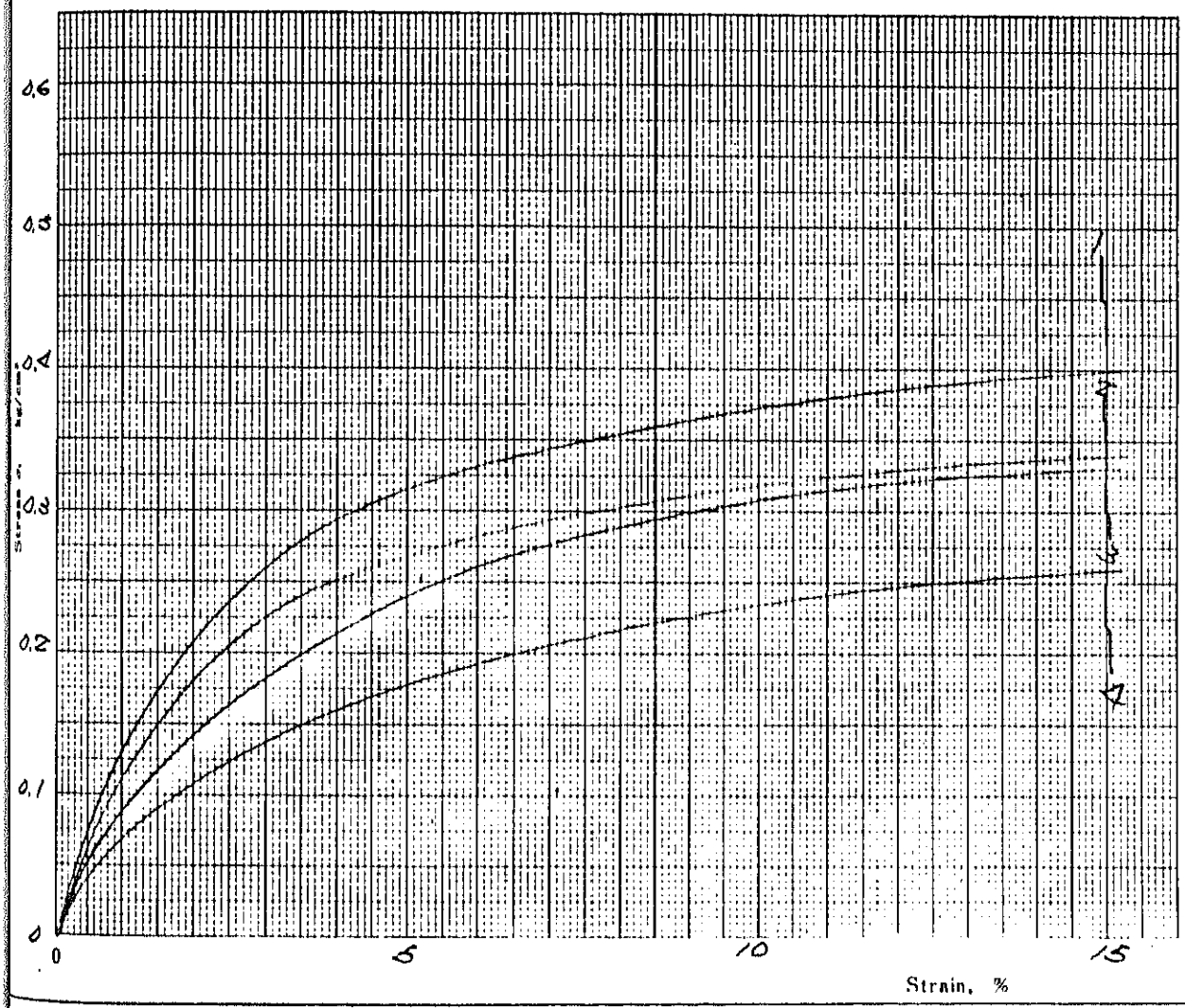
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-7 Sample No.: S7-1

Date of testing: Nov. 10, 1979 Depth of Sample: 3.00m - 3.78m

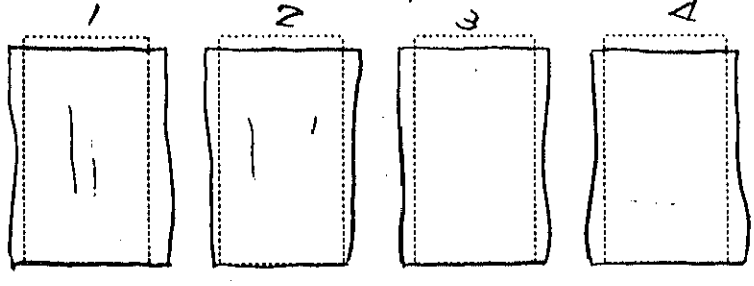
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.05	3.50	30.3	2.00	0.399	11	(15.0)	0.4
2	〃	7.03	3.50	30.8	1.99	0.340	9	(15.0)	1.0
3	〃	7.05	3.50	31.6	1.96	0.331	7	(15.0)	1.6
4	〃	7.01	3.50	31.8	1.95	0.259	5	(15.0)	2.2



Remarks.

Observation of sample at failure



CONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

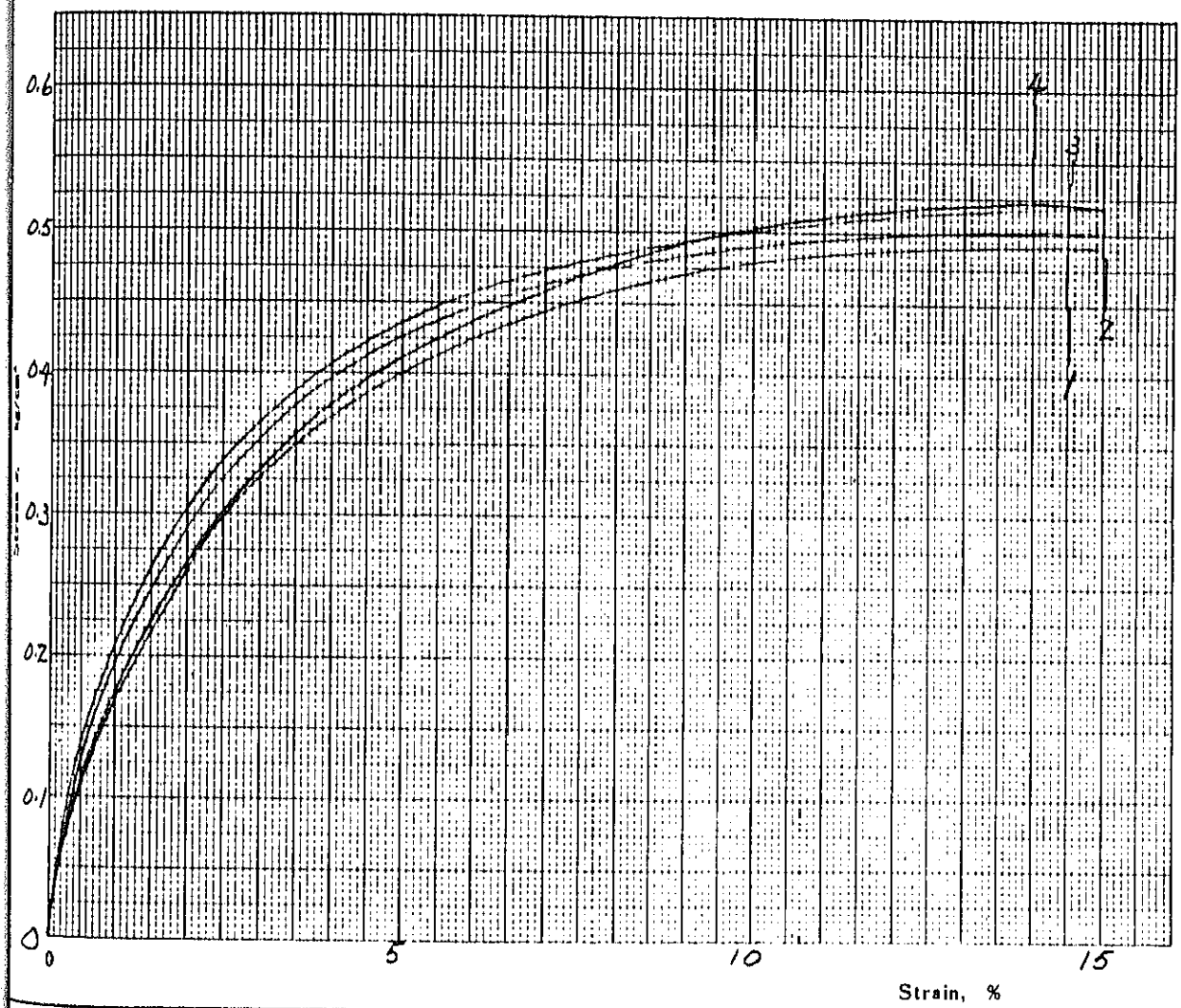
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-7 Sample No. S7-3

Date of testing Nov. 10, 1979 Depth of Sample 7.00m - 7.82m

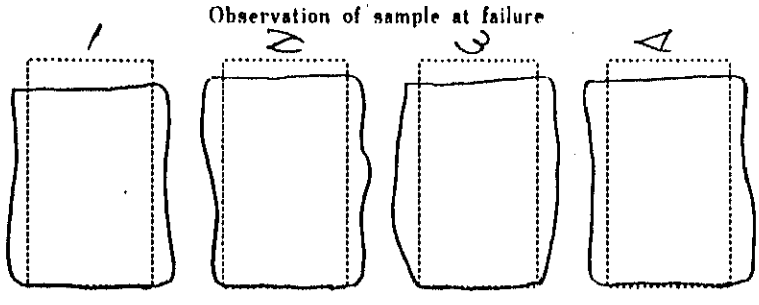
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	6.99	3.51	30.4	1.96	0.491	14	14.5	0.4
2	"	7.00	3.48	29.5	1.98	0.519	18	(15)	1.0
3	"	7.00	3.49	29.8	1.97	0.502	16	14.5	1.6
4	"	6.99	3.49	29.0	1.98	0.522	12	14.0	2.2



Remarks.

Observation of sample at failure



CONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

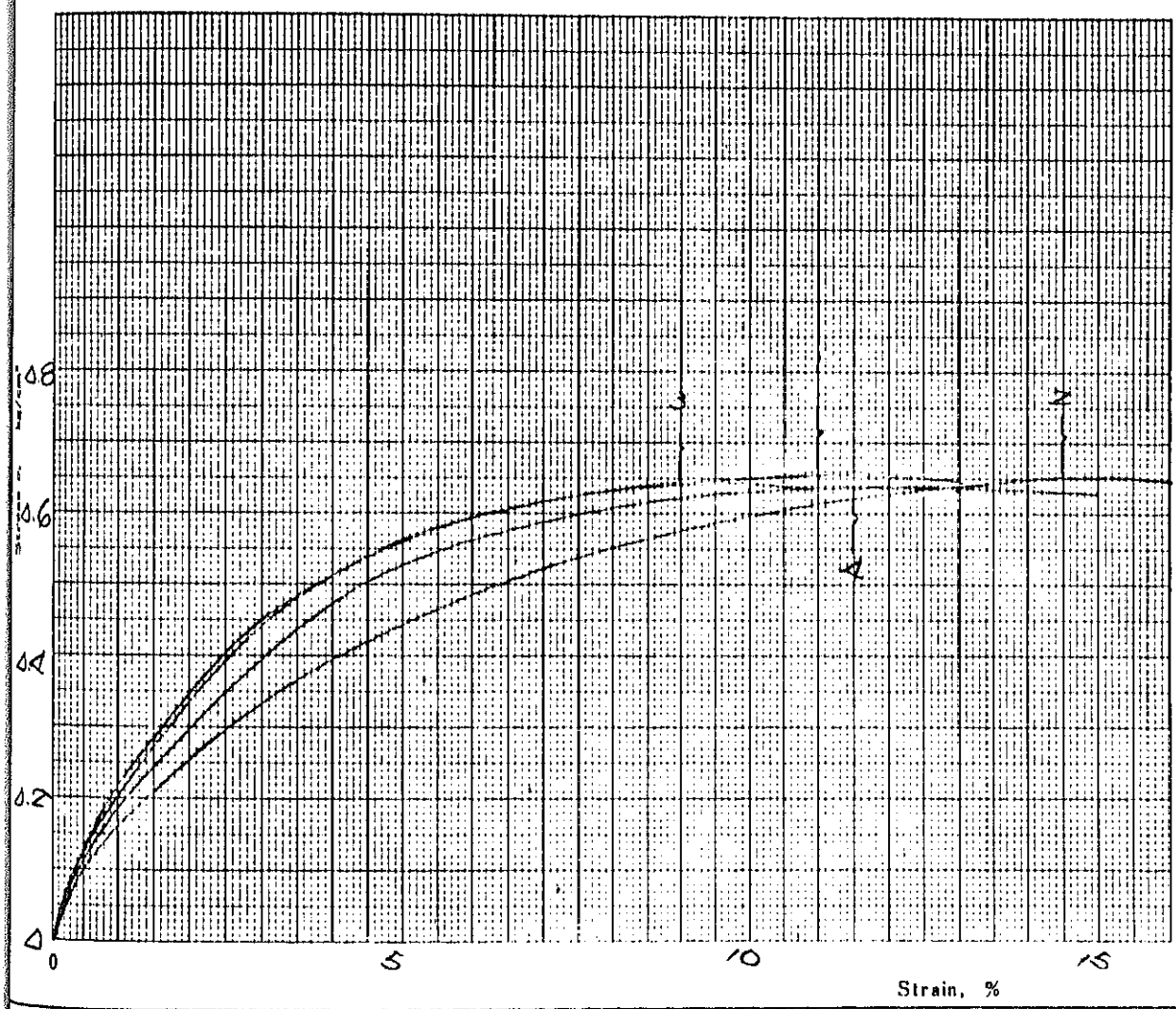
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-7 Sample No.: S7-5

Date of testing: Nov. 16, 1979 Depth of Sample: 15.00m - 15.72m

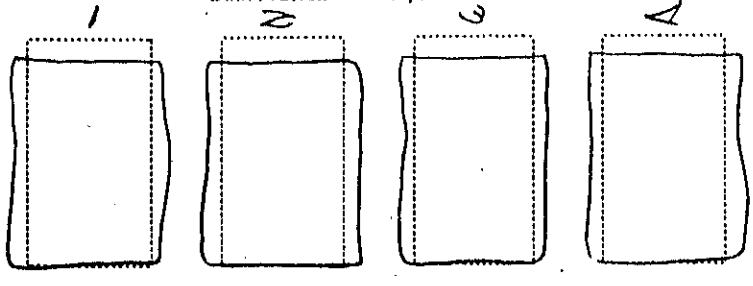
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	6.99	3.48	25.5	2.02	0.655	17	11.0	0.5
2	"	6.99	3.48	25.0	2.03	0.651	11	14.5	1.5
3	"	7.00	3.44	26.0	2.01	0.645	18	9.0	2.5
4	"	6.98	3.47	24.7	2.03	0.640	15	11.5	3.5



Remarks.

Observation of sample at failure



CONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

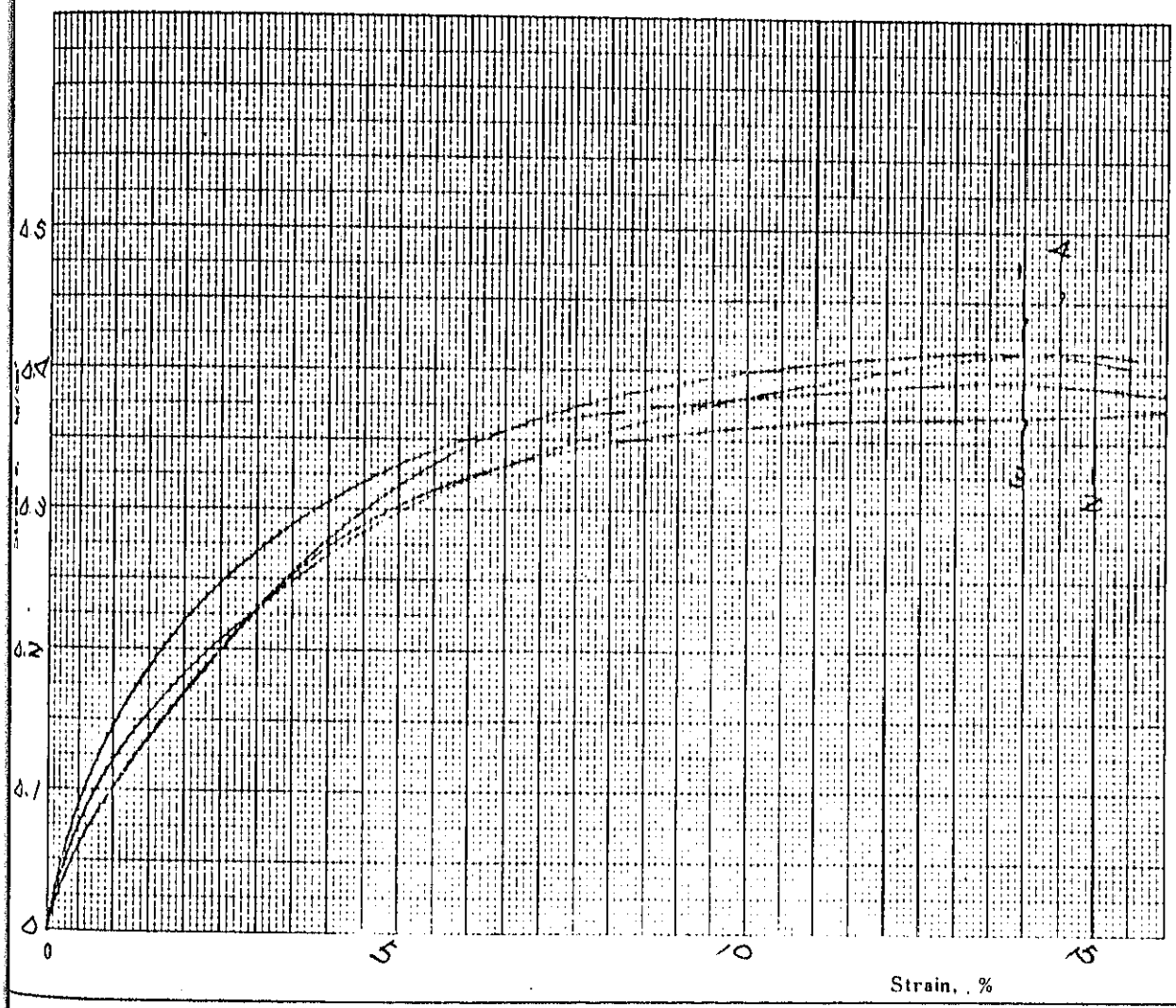
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-8 Sample No. S8-2

Date of testing Oct. 22, 1979 Depth of Sample 3.00m - 3.74m

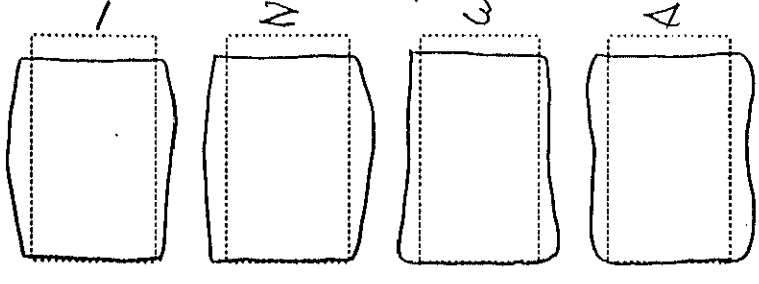
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	6.95	3.51	34.9	1.91	0.415	8	14	0.2
2	"	6.97	3.51	34.7	1.92	0.370	8	(15)	0.8
3	"	7.04	3.45	34.4	1.91	0.394	13	14	1.4
4	"	7.00	3.49	33.8	1.91	0.415	8	14.5	2.0



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

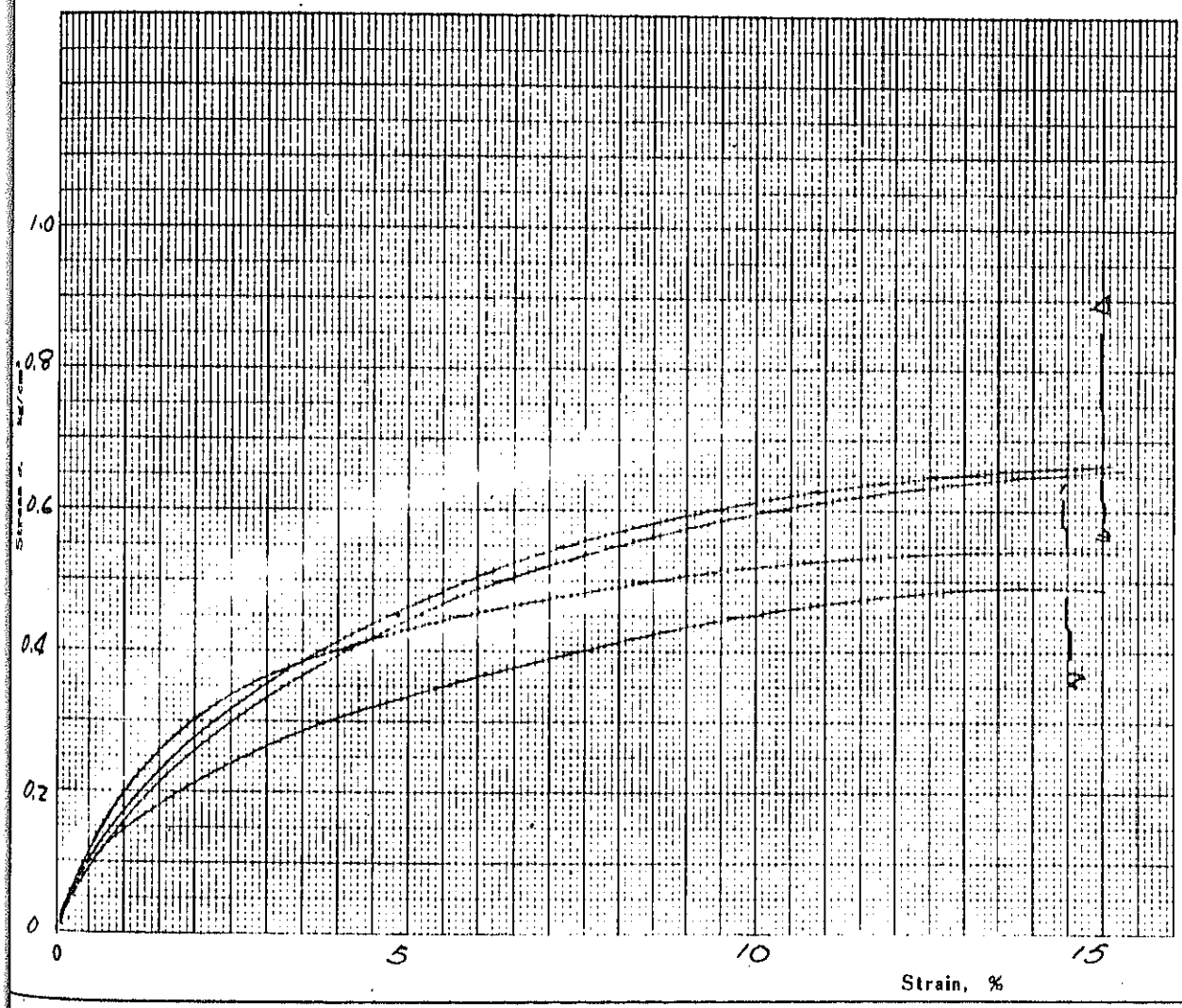
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-8 Sample No.: S8-4D

Date of testing: Oct. 22, 1979 Depth of Sample: 7.00m - 7.65m

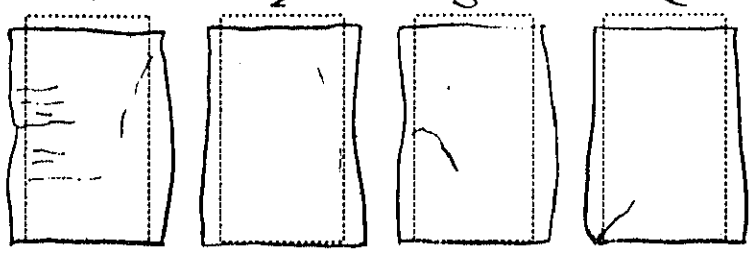
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	6.98	3.46	23.7	2.07	0.545	17	14.5	0.4
2	"	6.99	3.46	23.2	2.07	0.492	10	14.5	1.0
3	"	6.98	3.46	22.7	2.08	0.656	11	(15.0)	1.6
4	"	6.98	3.46	22.4	2.07	0.668	12	(15.0)	2.2



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

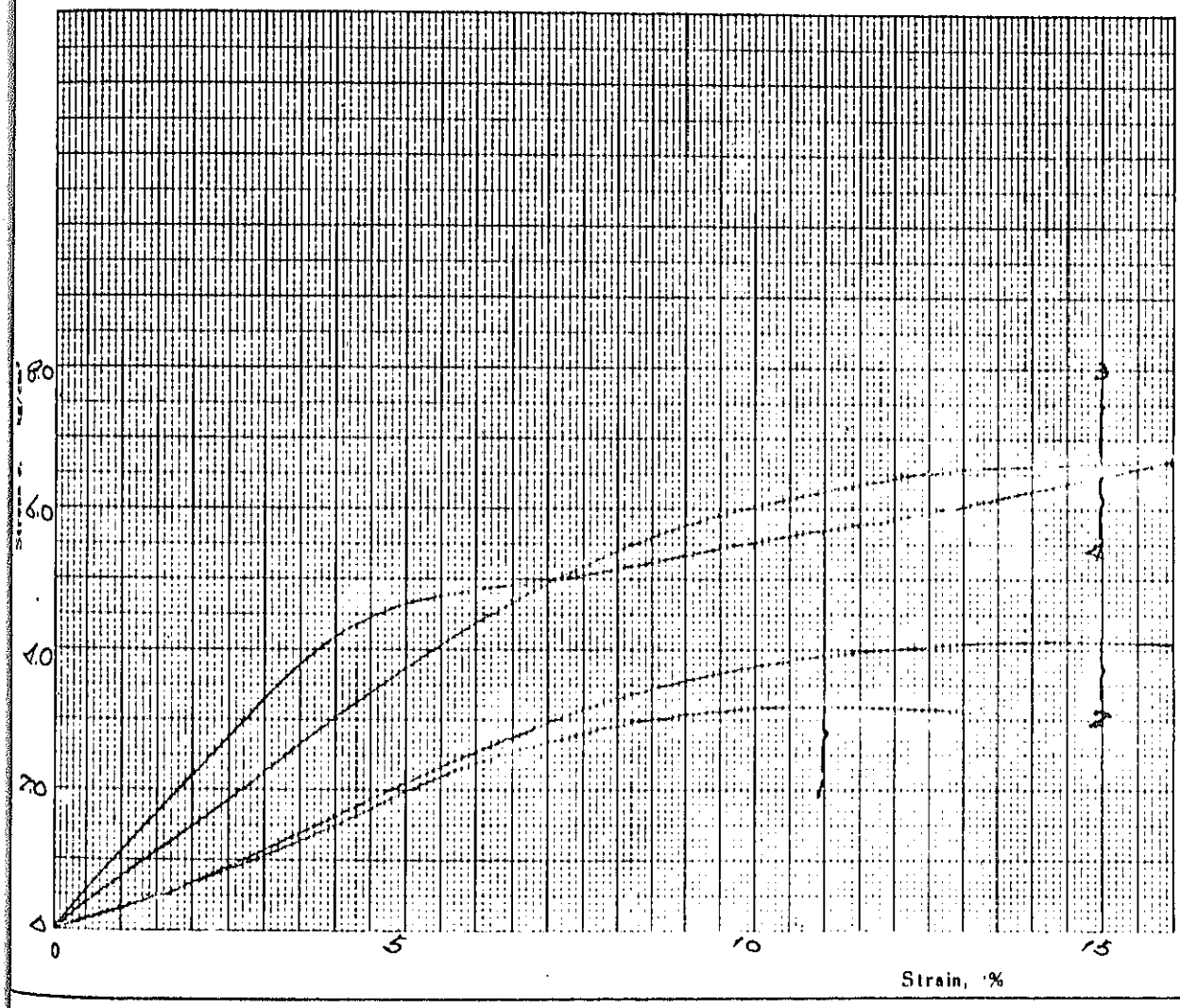
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-8 Sample No. S8-7D

Date of testing Oct. 22, 1979 Depth of Sample 15.00m - 15.60m

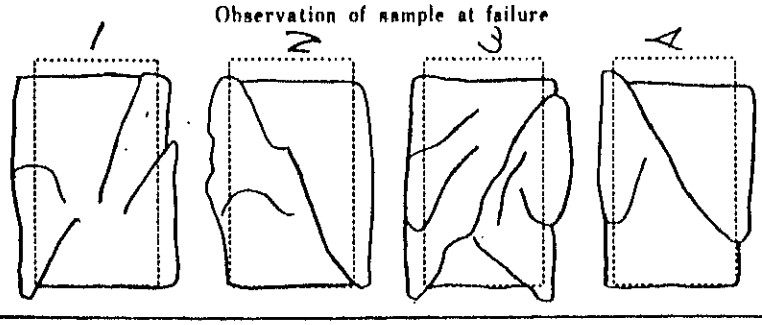
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.00	3.50	20.8	2.05	3.20	38	11	0.5
2	"	7.02	3.50	20.4	2.06	4.10	42	(15)	1.5
3	"	7.00	3.50	20.1	2.08	6.63	75	(15)	2.5
4	"	7.00	3.49	20.9	2.08	6.46	109	(15)	3.5



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

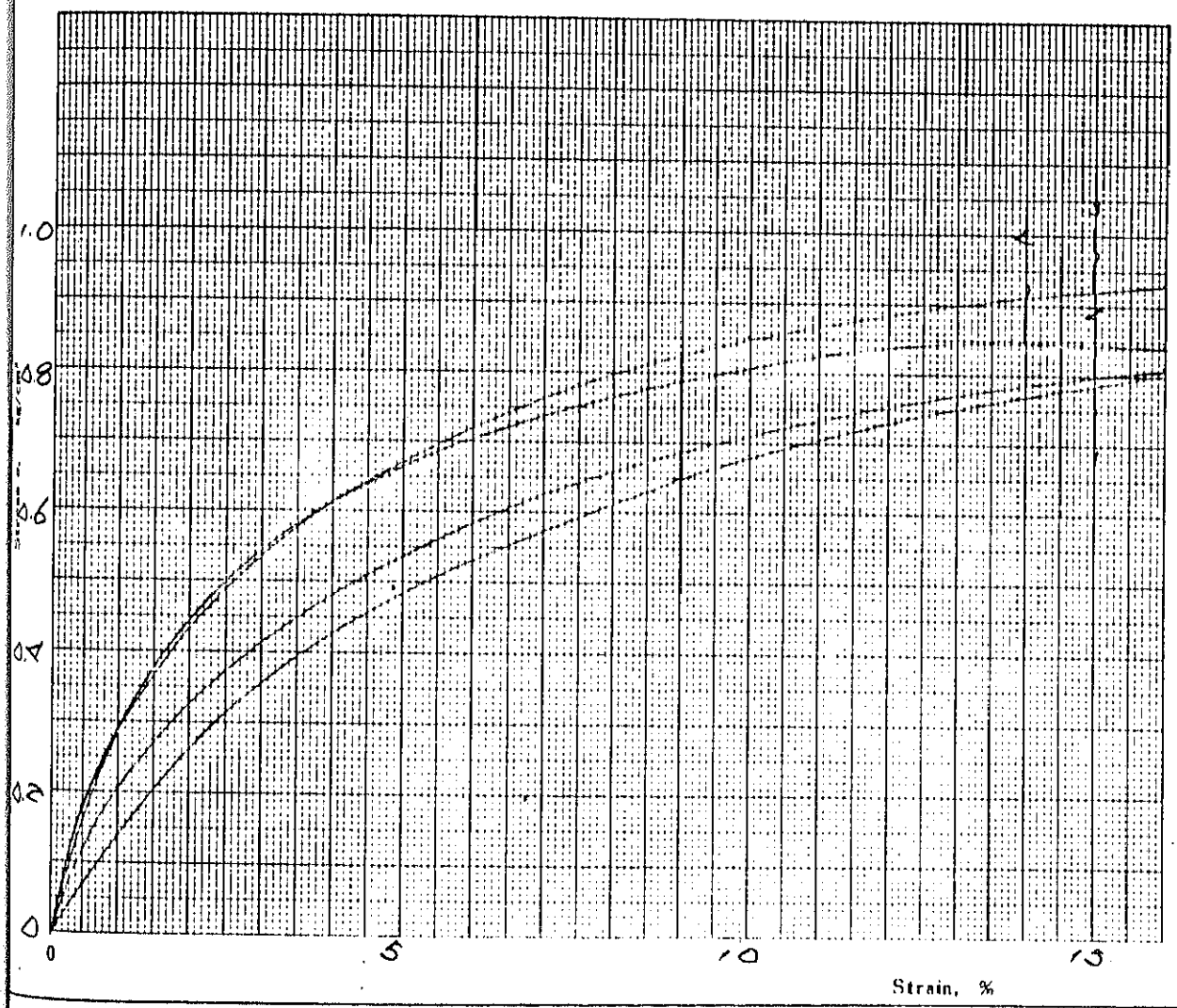
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-9 Sample No. S9-3

Date of testing Nov.22, 1979 Depth of Sample 7.00m - 7.78m

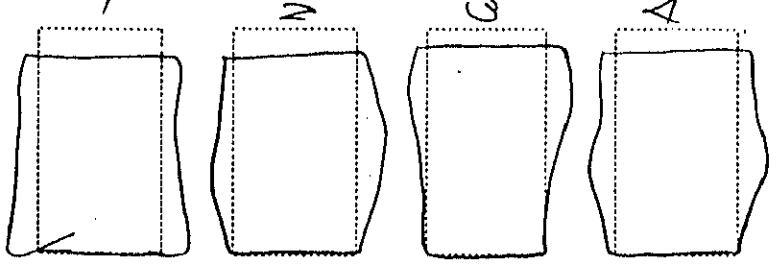
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation Eso kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.10	3.55	21.5	2.10	0.788	11	(15)	0.4
2	"	7.09	3.55	21.7	2.09	0.800	14	(15)	1.0
3	"	7.07	3.53	21.8	2.10	0.920	20	(15)	1.8
4	"	7.04	3.52	22.9	2.10	0.847	23	14	2.6



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

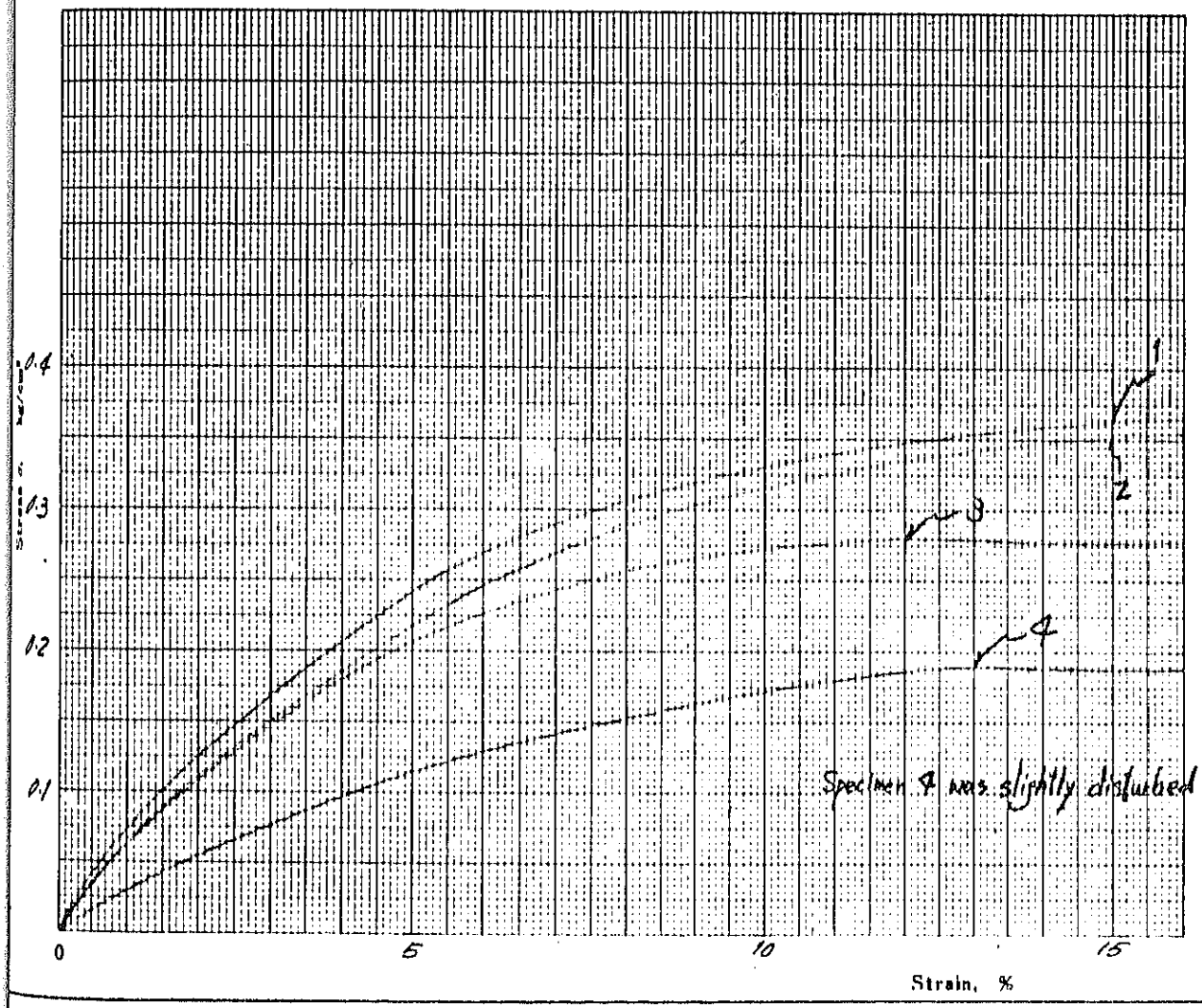
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-10 Sample No.: S10-2

Date of testing: Oct. 24, 1979 Depth of Sample: 2.50m - 3.31m

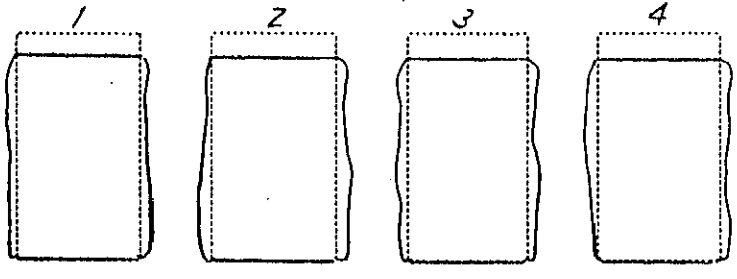
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation Eso kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.00	3.50	29.8	1.97	0.364	5	(15)	0.2
2	"	7.00	3.55	29.9	1.93	0.352	5	(15)	0.8
3	"	7.00	3.50	33.5	1.93	0.282	5	12	1.4
4	"	6.97	3.49	34.2	1.93	0.190	2	13	2.0



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

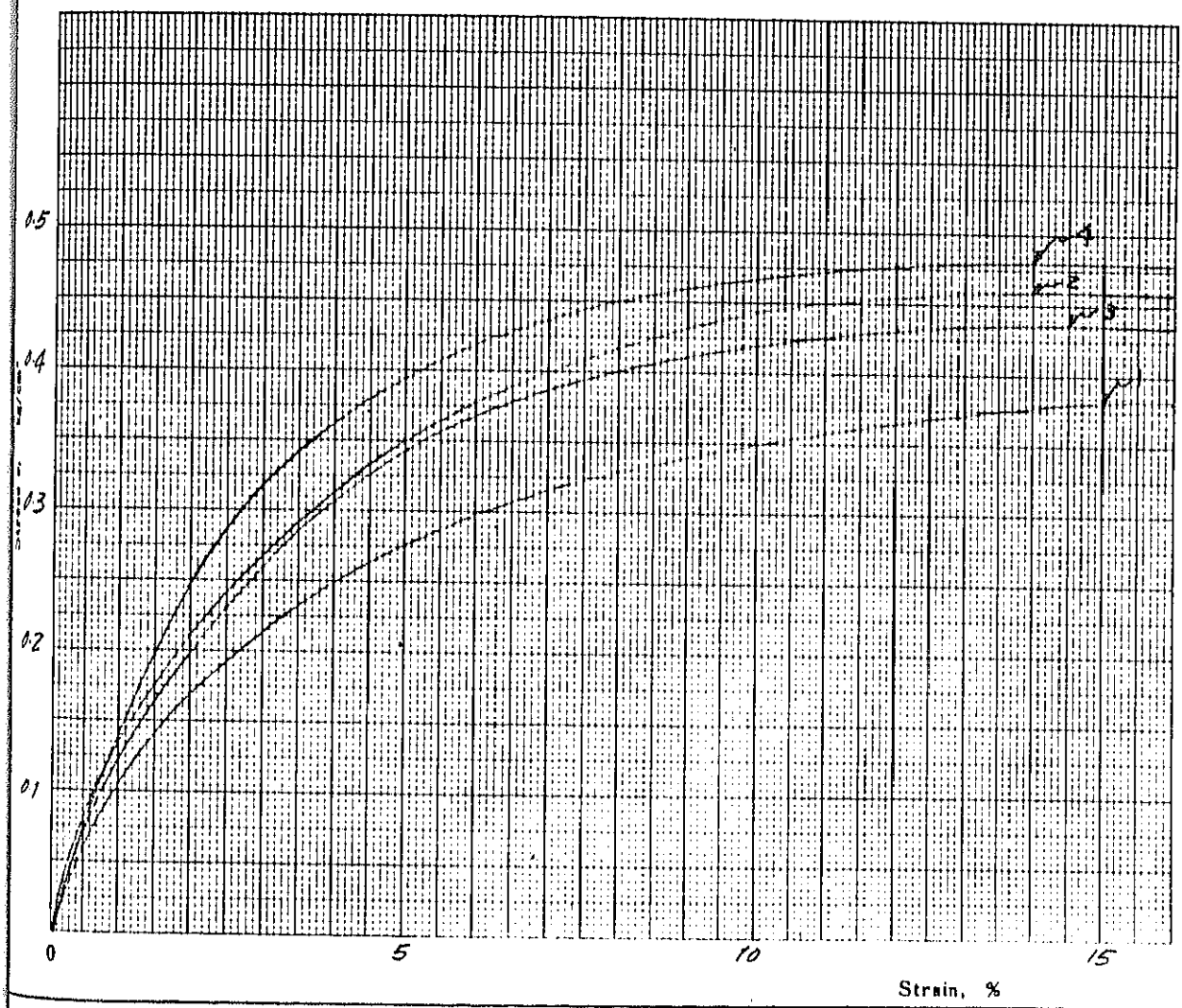
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-10 Sample No.: S10-4

Date of testing: Oct. 24, 1979 Depth of Sample: 4.80m - 5.61m

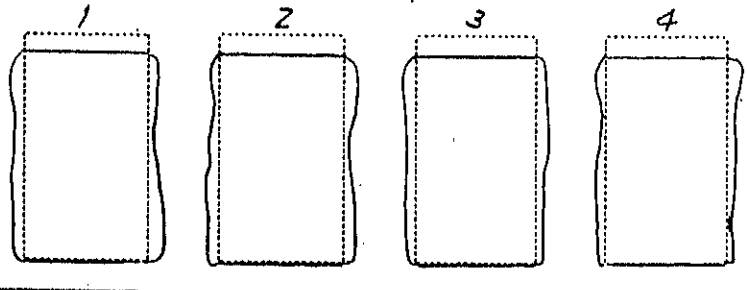
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E50 kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.00	3.50	28.0	2.01	0.382	8	(15)	0.2
2	〃	7.00	3.53	27.0	1.98	0.462	10	14	0.8
3	〃	6.97	3.49	29.3	2.01	0.437	10	14.5	1.4
4	〃	7.00	3.50	27.9	2.01	0.482	12	14	2.0



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

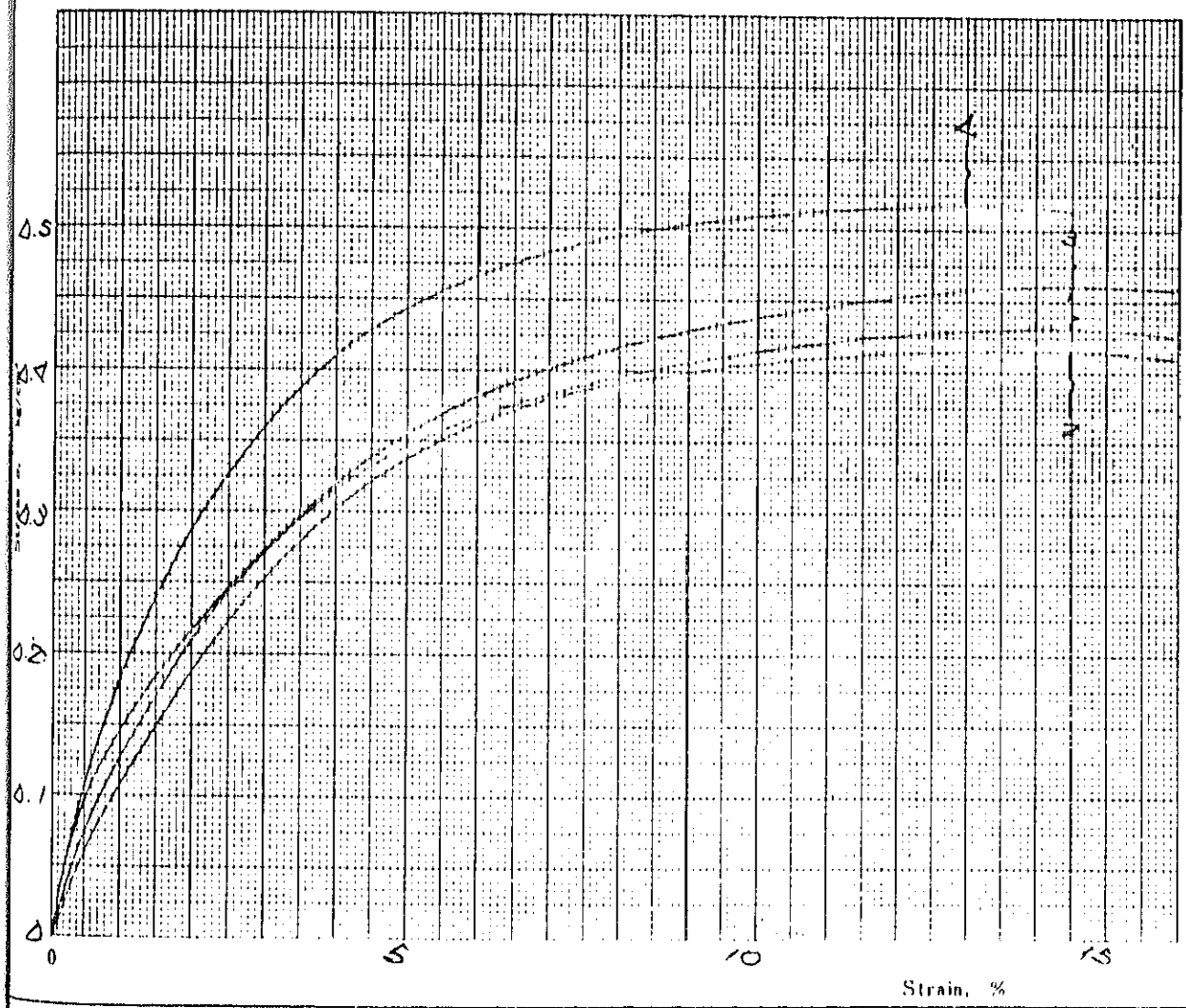
Project GWADAR MINI PORT Job No.

Location of Project GWADAR, PAKISTAN Boring No. B-10 Sample No. S10-6

Date of testing Oct. 24, 1979 Depth of Sample 6.30m - 6.80m

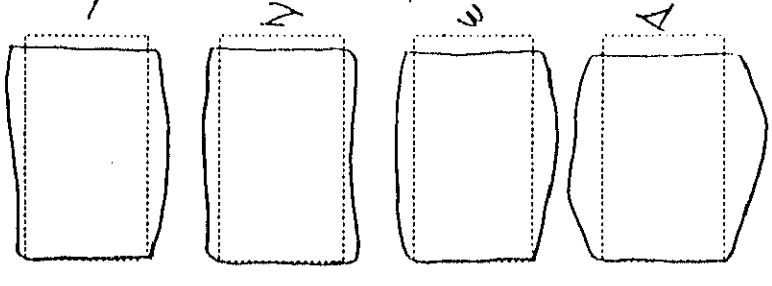
Strain Rate 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Size of specimen, cm. Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E_{50} kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.02	3.50	26.7	2.01	0.431	11	14.5	0.4
2	"	7.06	3.50	27.8	2.00	0.417	9	14.5	1.0
3	"	7.05	3.50	26.7	2.03	0.461	11	14.5	1.6
4	"	7.00	3.50	26.0	2.03	0.518	15	13.0	2.2



Remarks.

Observation of sample at failure



UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (Stress-Strain Curves)

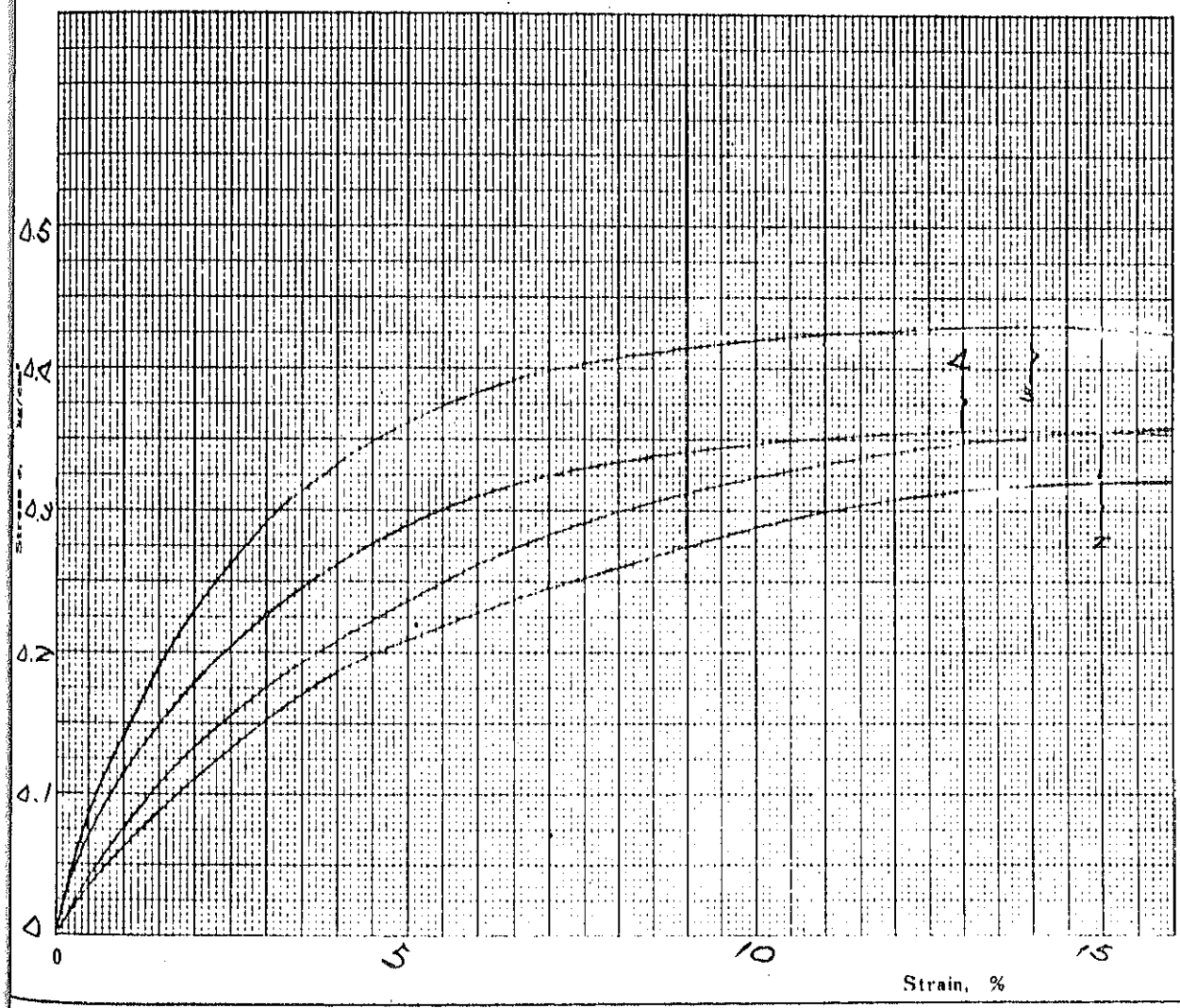
Project: GWADAR MINI PORT Job No.:

Location of Project: GWADAR, PAKISTAN Boring No.: B-10 Sample No.: S10-7D Top

Date of testing: Oct. 24, 1979 Depth of Sample: 8.00m - 8.25m

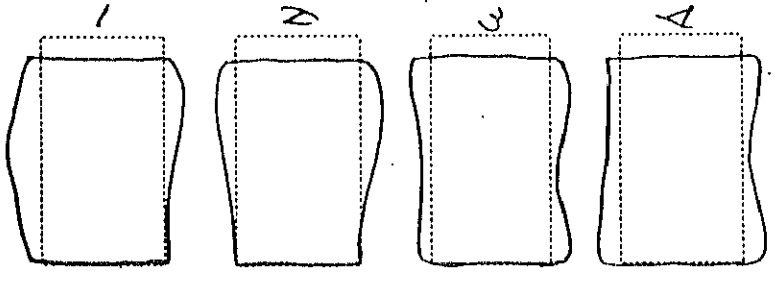
Strain Rate: 1 %/min.

Specimen No.	Condition of sample	Size of specimen, cm. Height	Diameter	Natural water content %	Wet density g/cm³	Peak deviator stress kg/cm²	Coefficient of deformation E50 kg/cm²	Strain at failure %	Confining pressure kg/cm²
1	Undisturbed	7.07	3.50	24.0	2.06	0.355	6	(15)	0.4
2	"	7.00	3.50	23.9	2.05	0.321	5	(15)	1.0
3	"	7.04	3.48	27.1	2.02	0.430	12	14	1.6
4	"	7.06	3.49	26.1	2.03	0.356	9	13	2.2



Remarks.

Observation of sample at failure

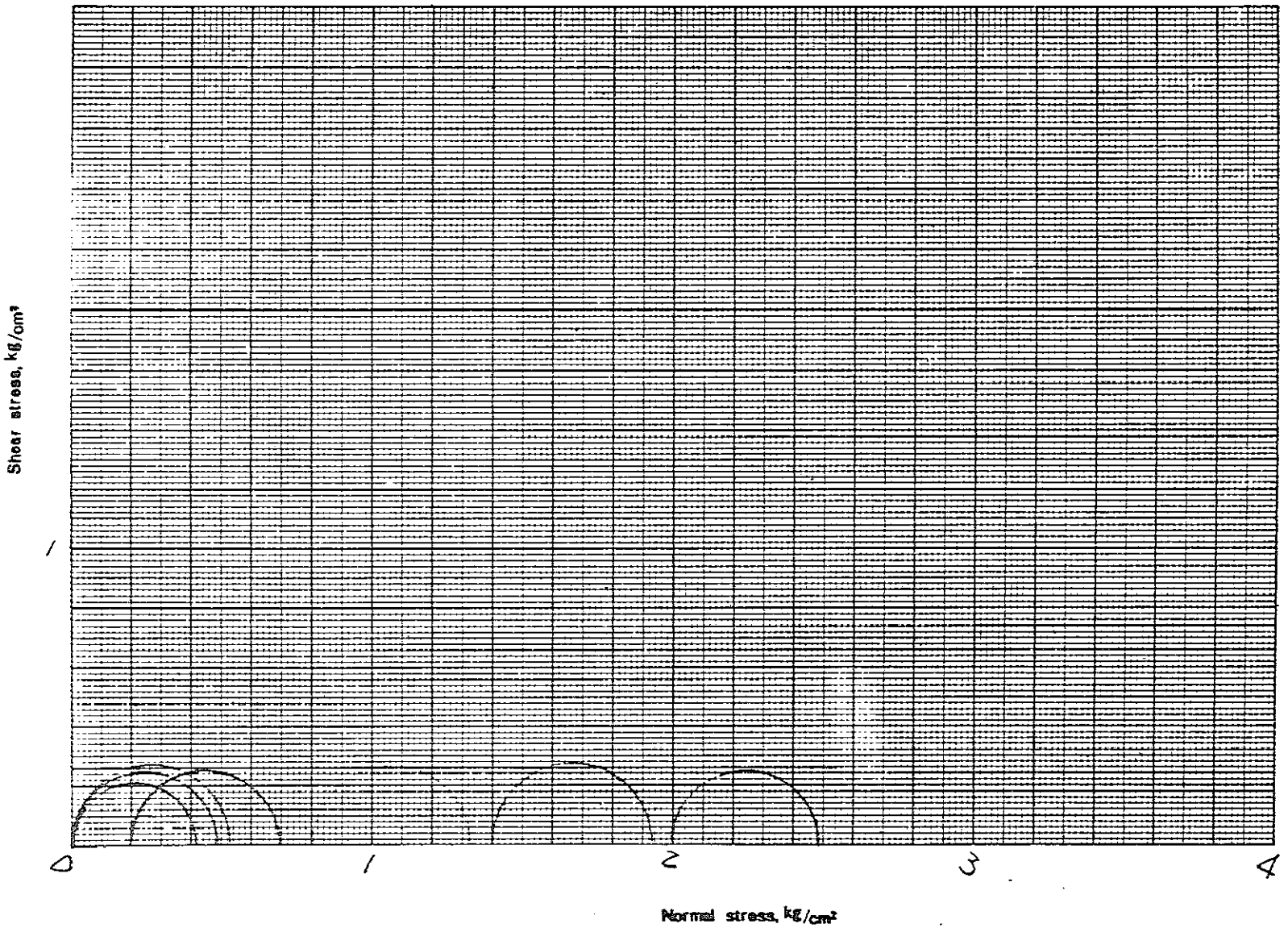


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-1 S1-2 Depth of Sample 4.00 - 4.80 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.26 kg/cm²

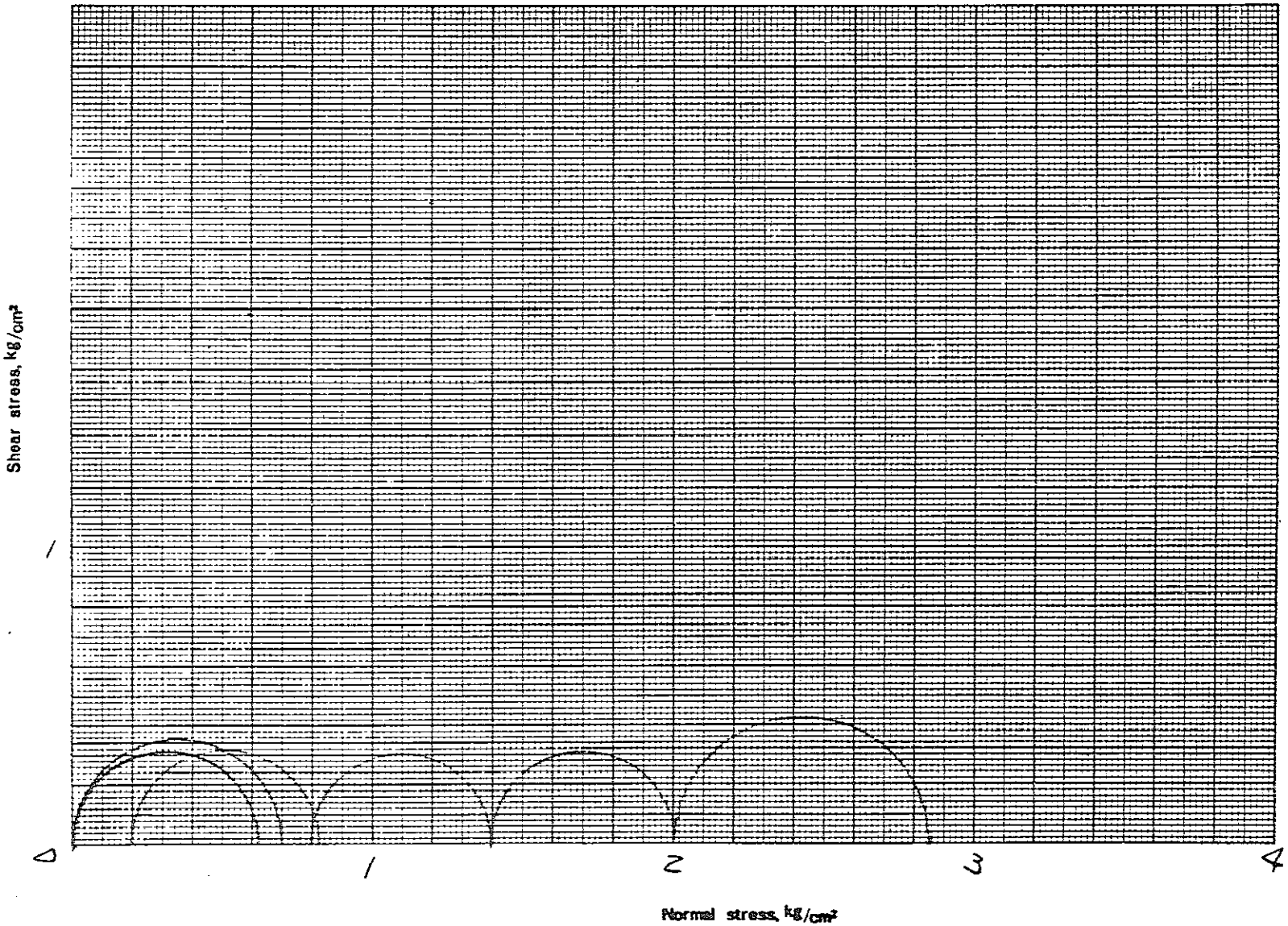


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-1 S1-3 Depth of Sample 6.00 - 6.79 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.34 kg/cm²

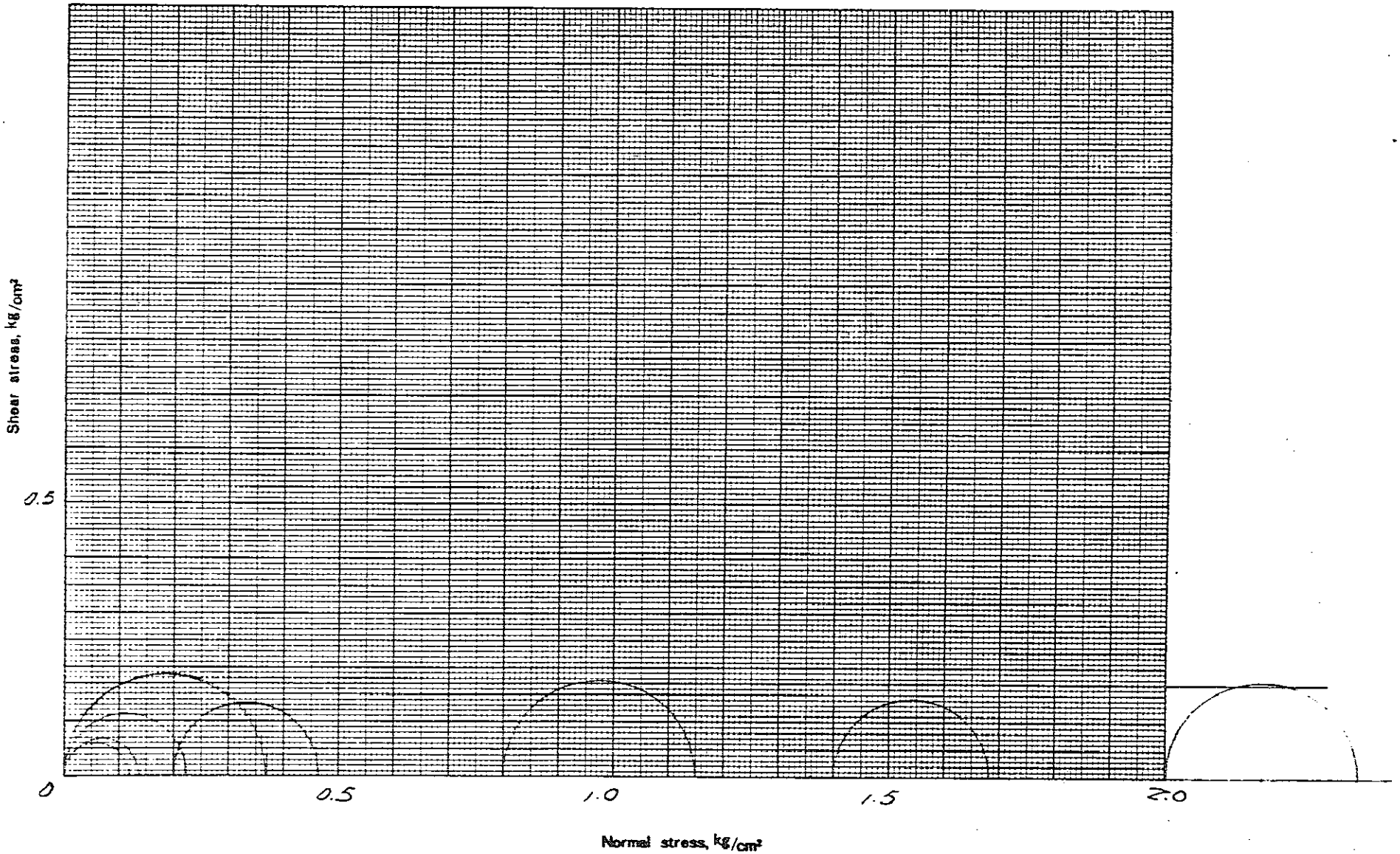


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-2 S2-1 Depth of Sample 2.50 - 3.20 m

Location of project GWADAR PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.17 kg/cm²

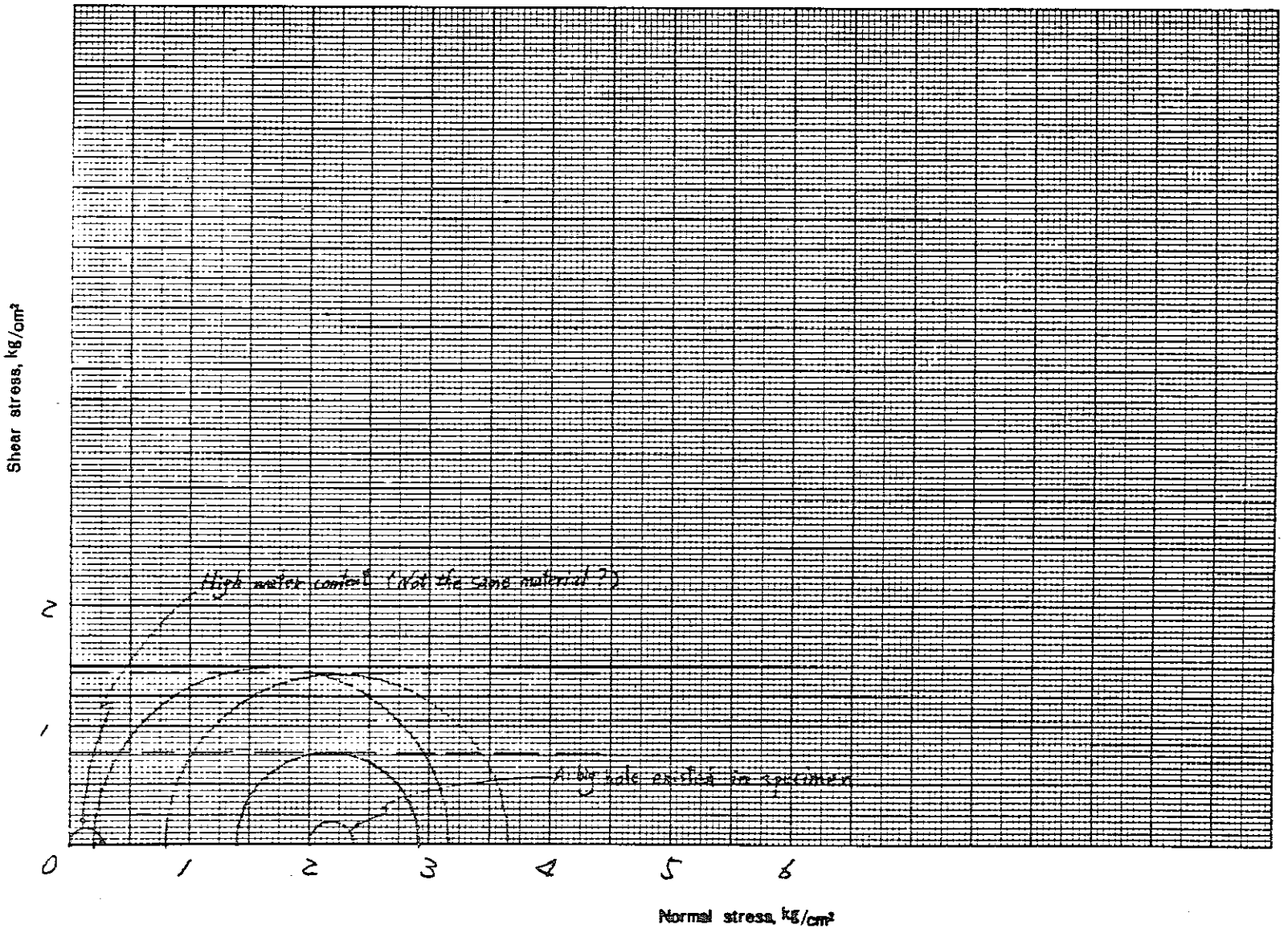


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-2 S2-2 Depth of Sample 4.00 - 4.70 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion (0.77 - 1.45) kg/cm²

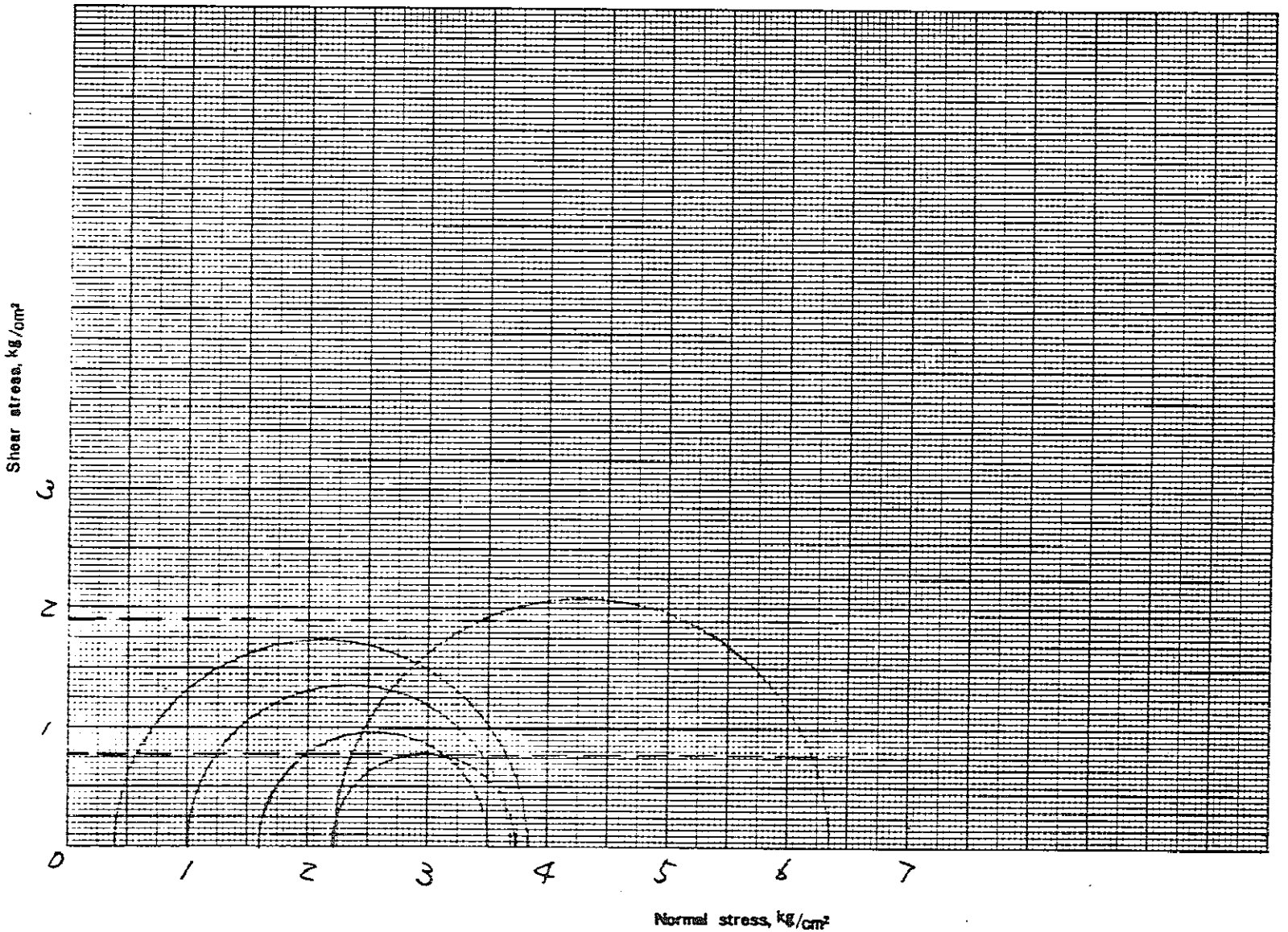


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI POR^{m} Sample No. B-2 S2-3D Bottom Depth of Sample 7.40 - 7.80 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion (0.77 - 1.90) kg/cm²



E - 5

TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT

Sample No. B-3 S3-2

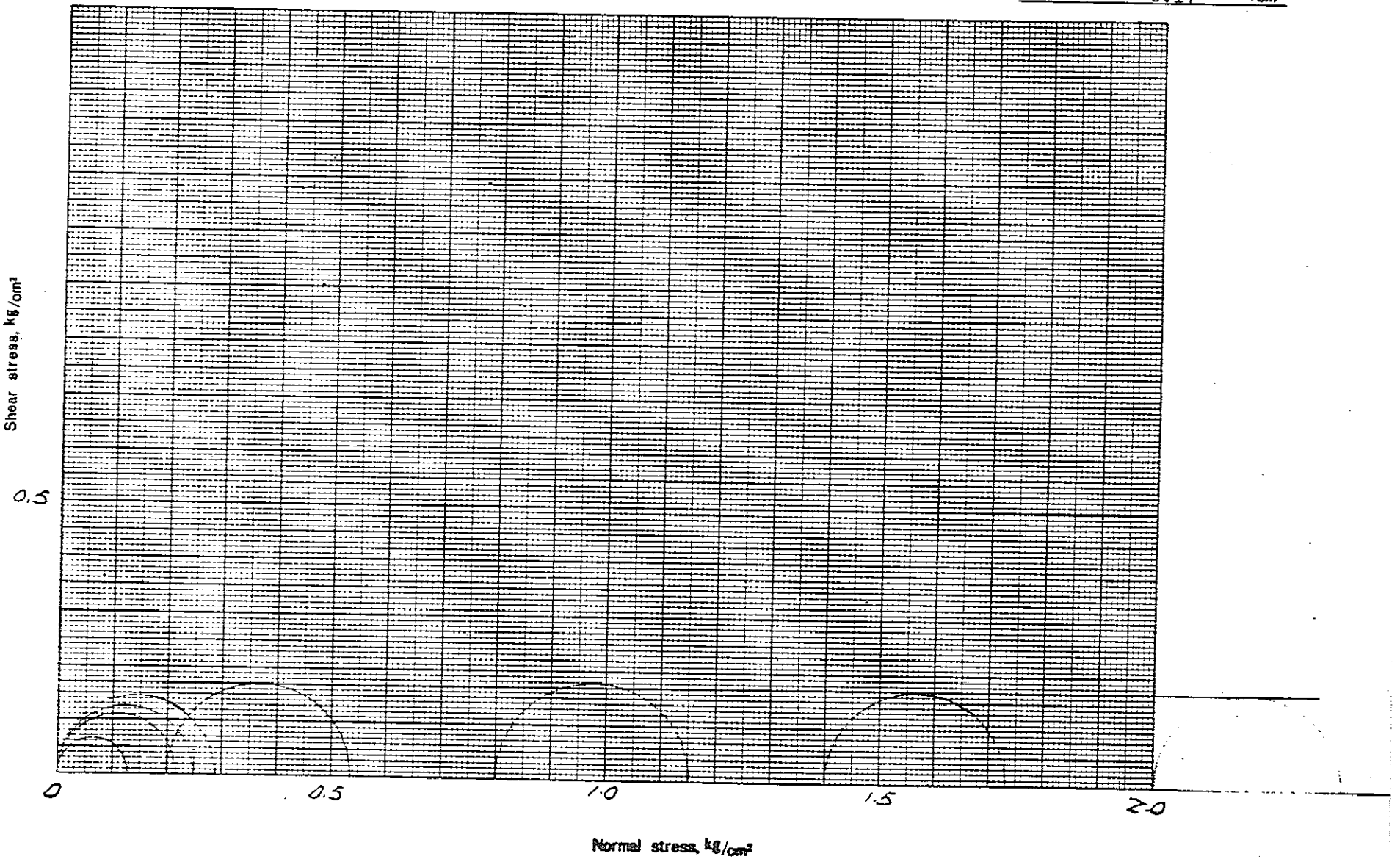
Depth of Sample 3.00 - 3.80 m

Location of project GWADAR, PAKISTAN

Condition of drainage U-U

Angle of internal friction 0°

Cohesion 0.17 kg/cm²

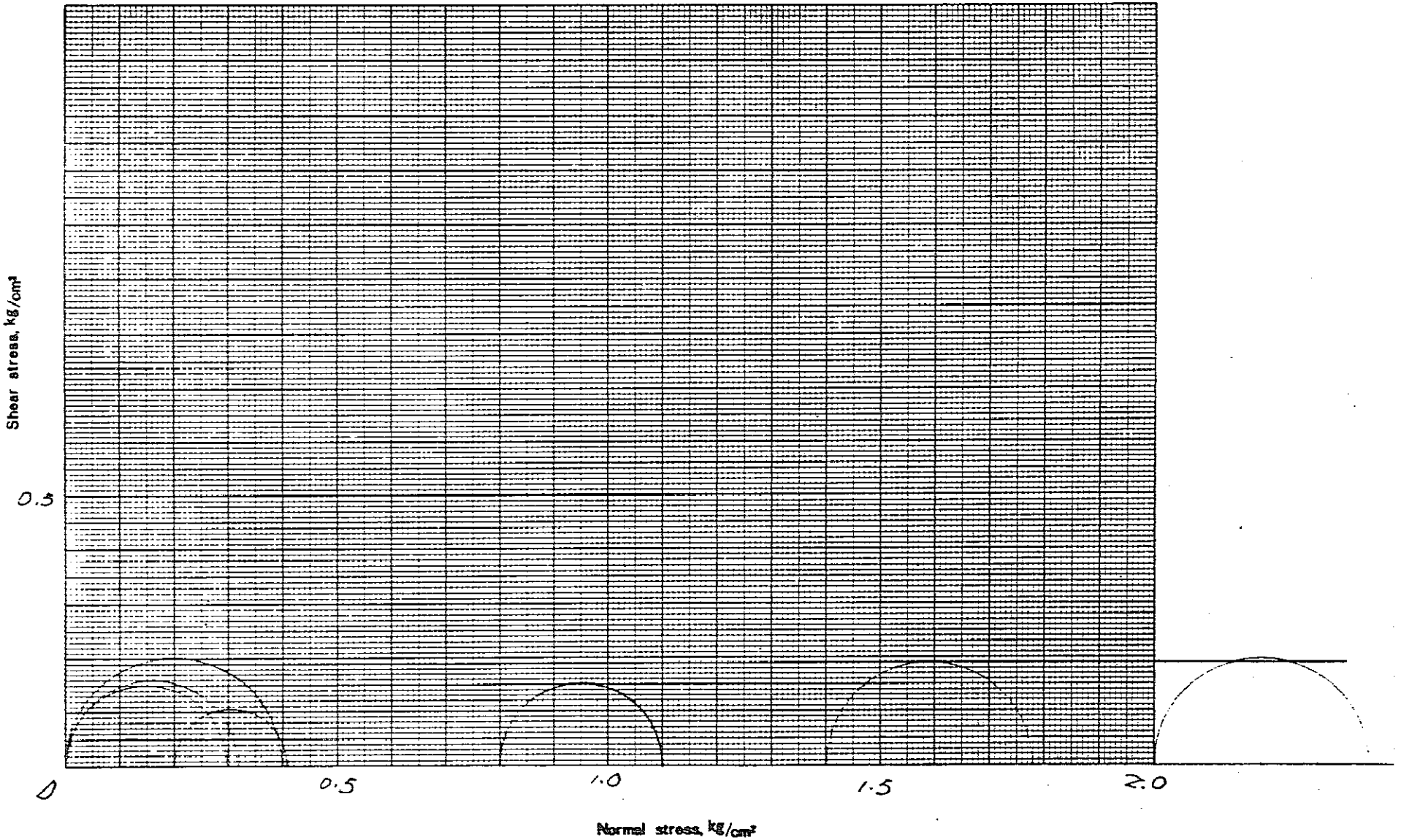


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-3 S3-3 Depth of Sample 5.00 - 5.82 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.19 kg/cm²

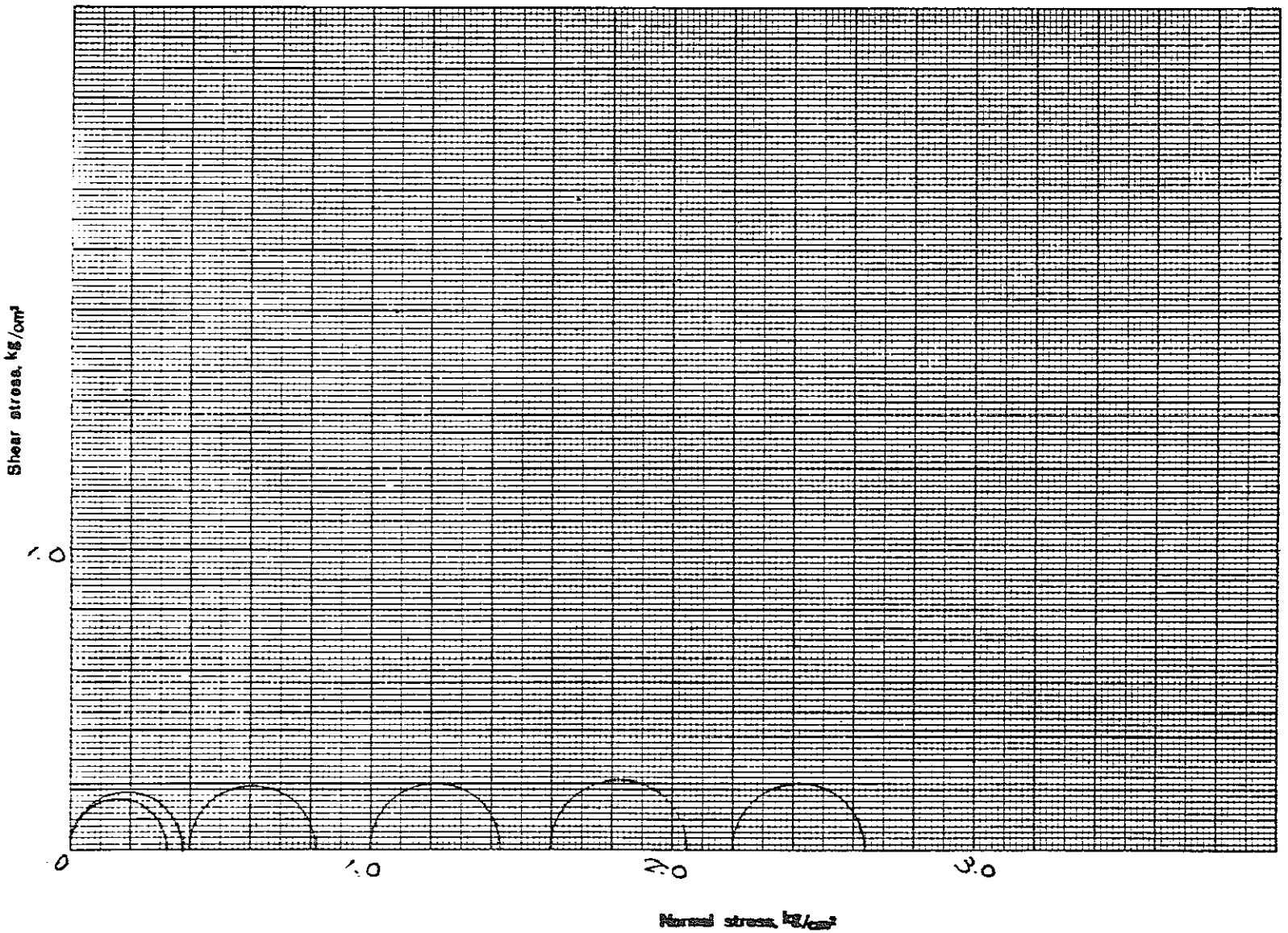


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-3' S3'-2 Depth of Sample 3.00 - 3.84 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.22 kg/cm²

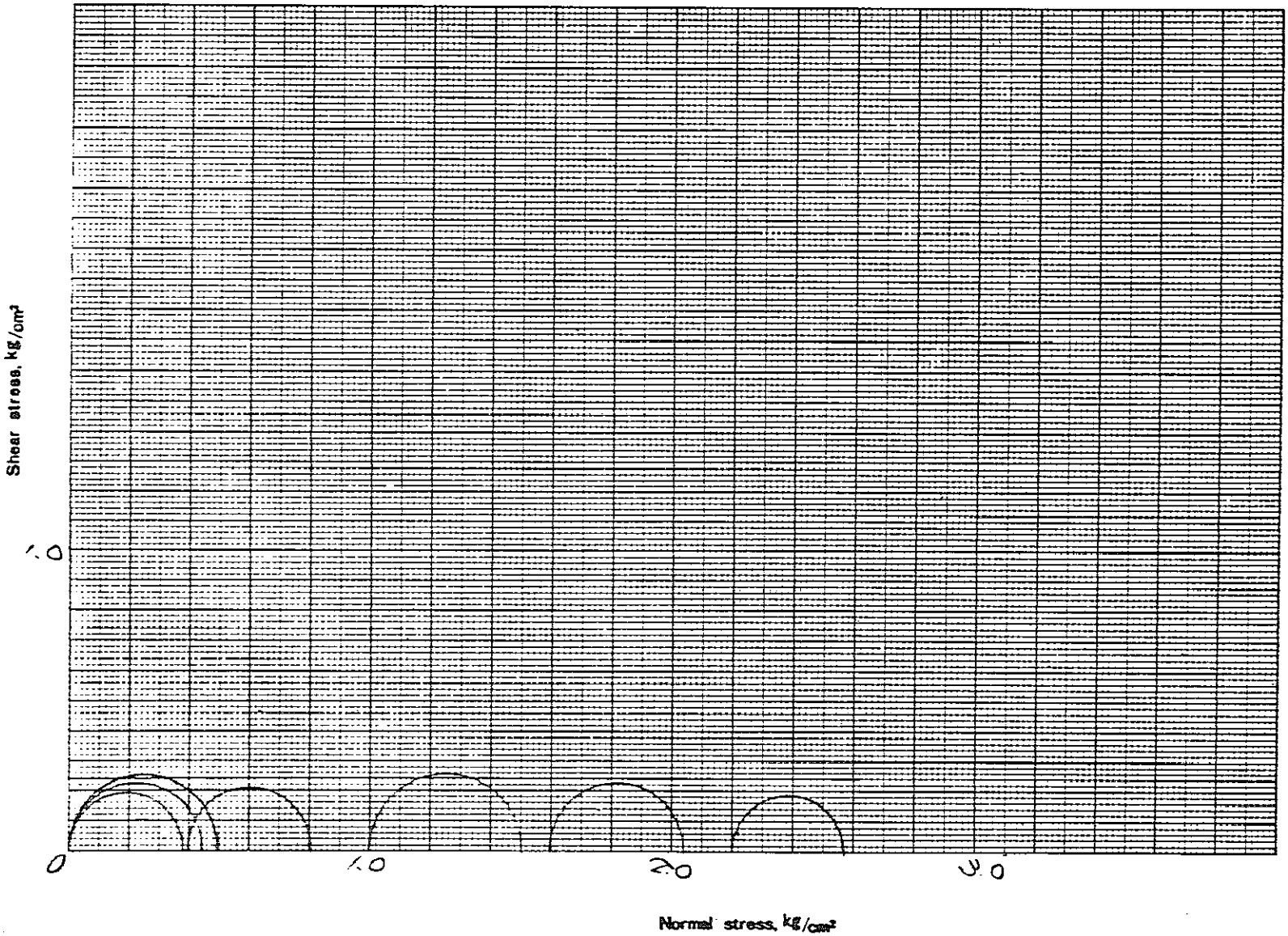


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-3' S3'-4 Depth of Sample 5.00 - 5.85 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.24 kg/cm²

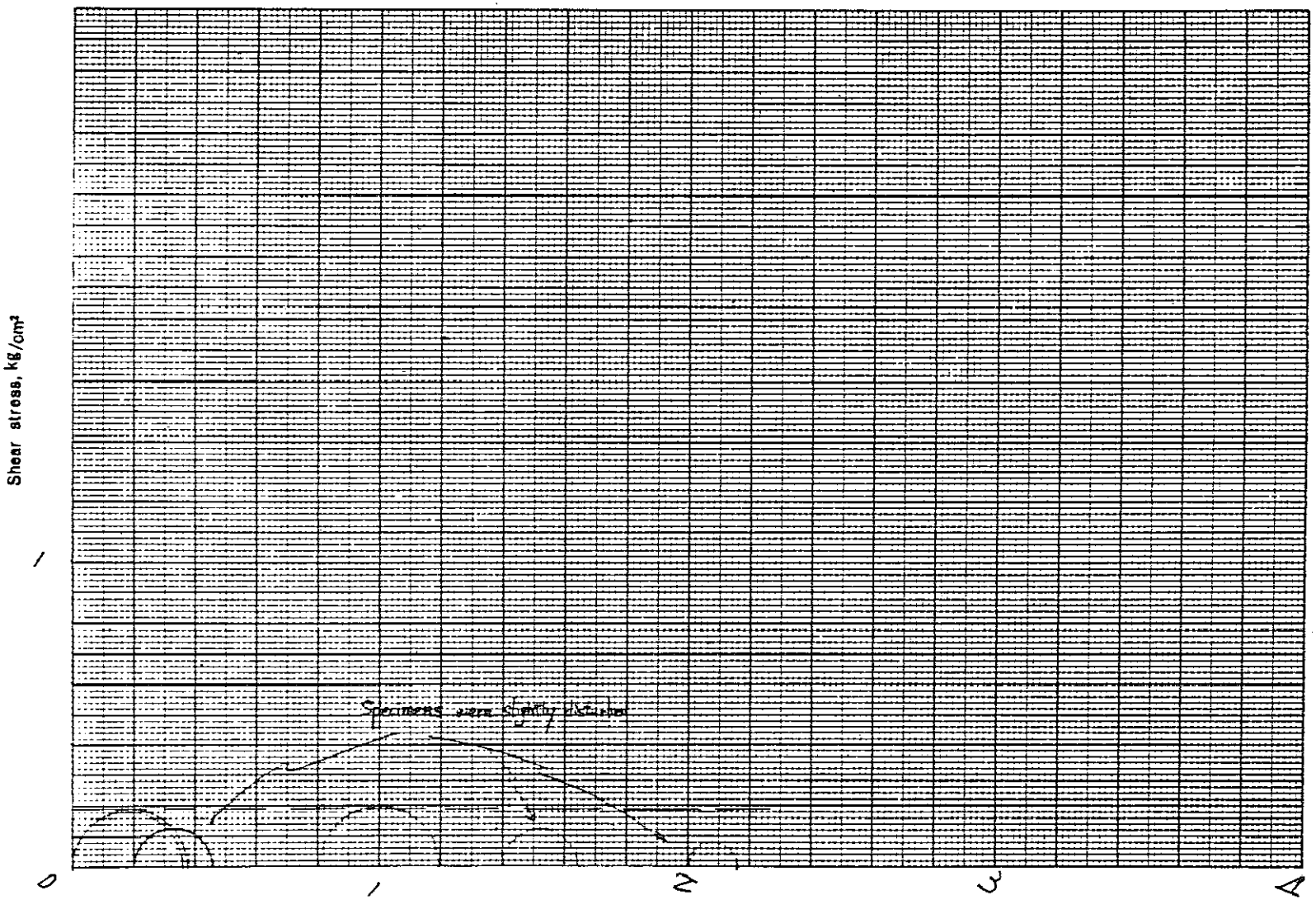


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-4 S4-3 Depth of Sample 4.00 - 4.85 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion (0.19) kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT

Sample No. B-4 S4-4 Top

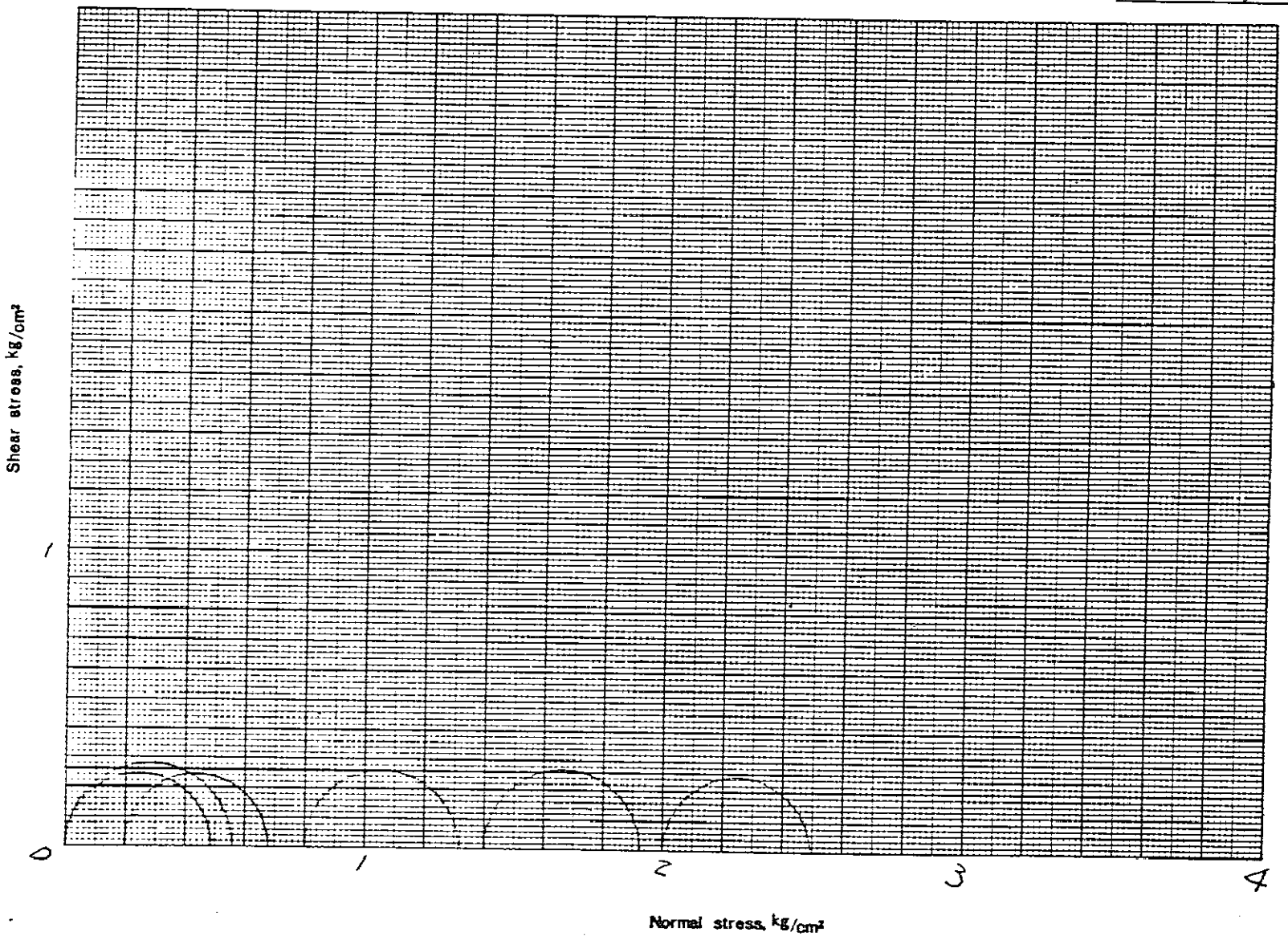
Depth of Sample 5.00 - 5.50 m

Location of project GWADAR, PAKISTAN

Condition of drainage U-U

Angle of internal friction 0°

Cohesion 0.26 kg/cm²

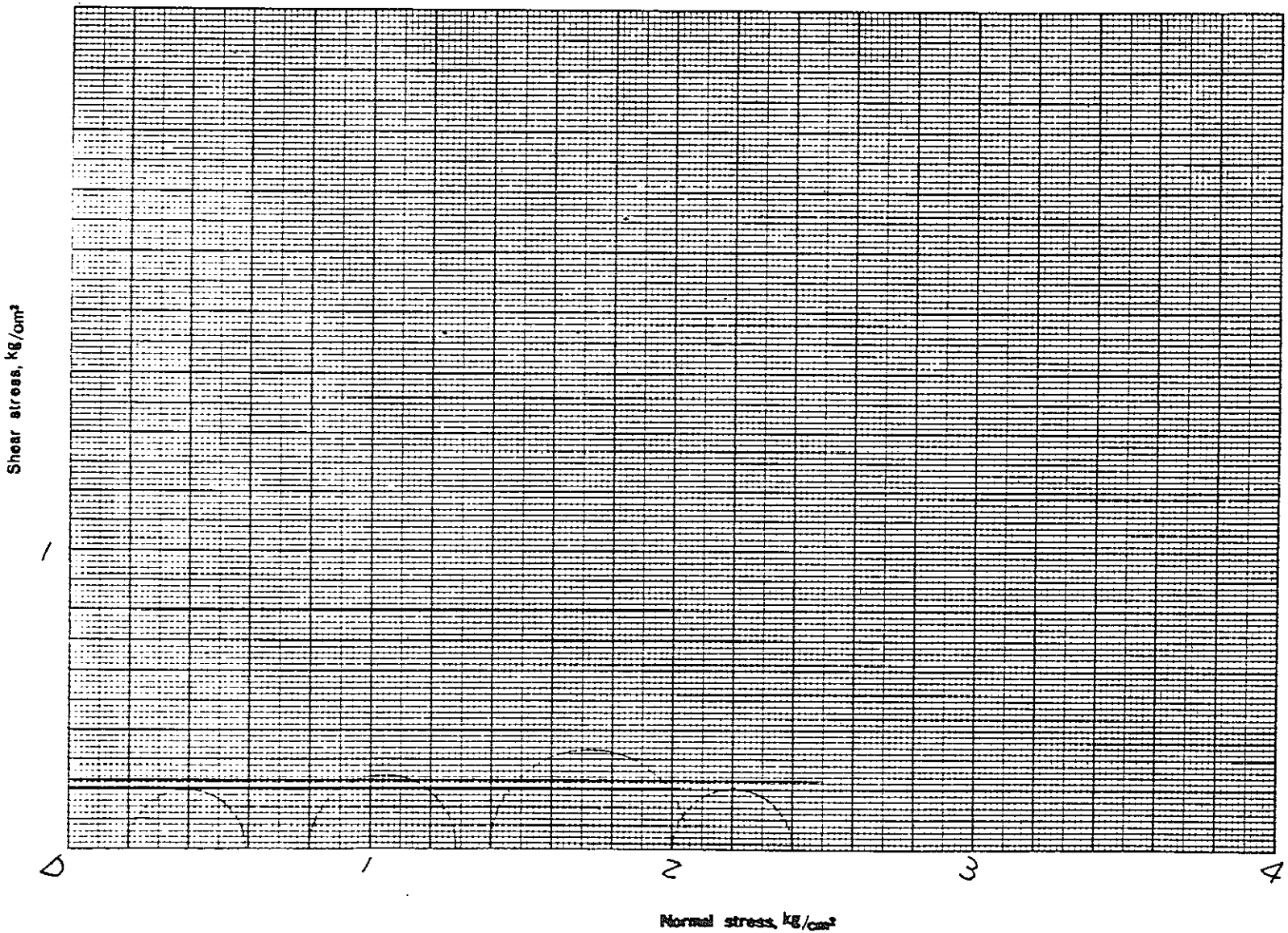


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-4 S4-4 Bottom Depth of Sample 5.50 - 5.87 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.23 kg/cm²

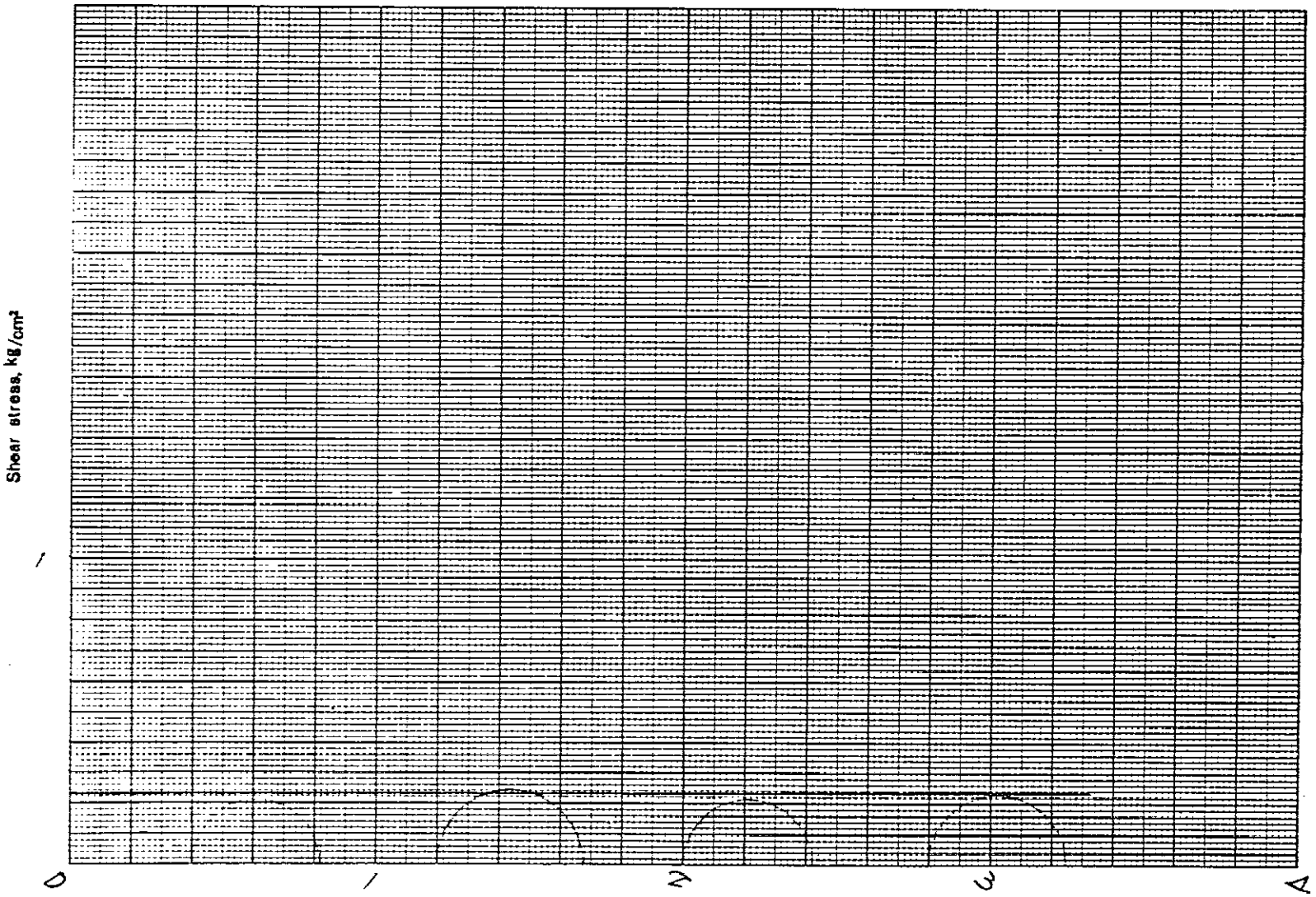


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-4 S4-6D Depth of Sample 11.00 - 11.67 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.23 kg/cm²

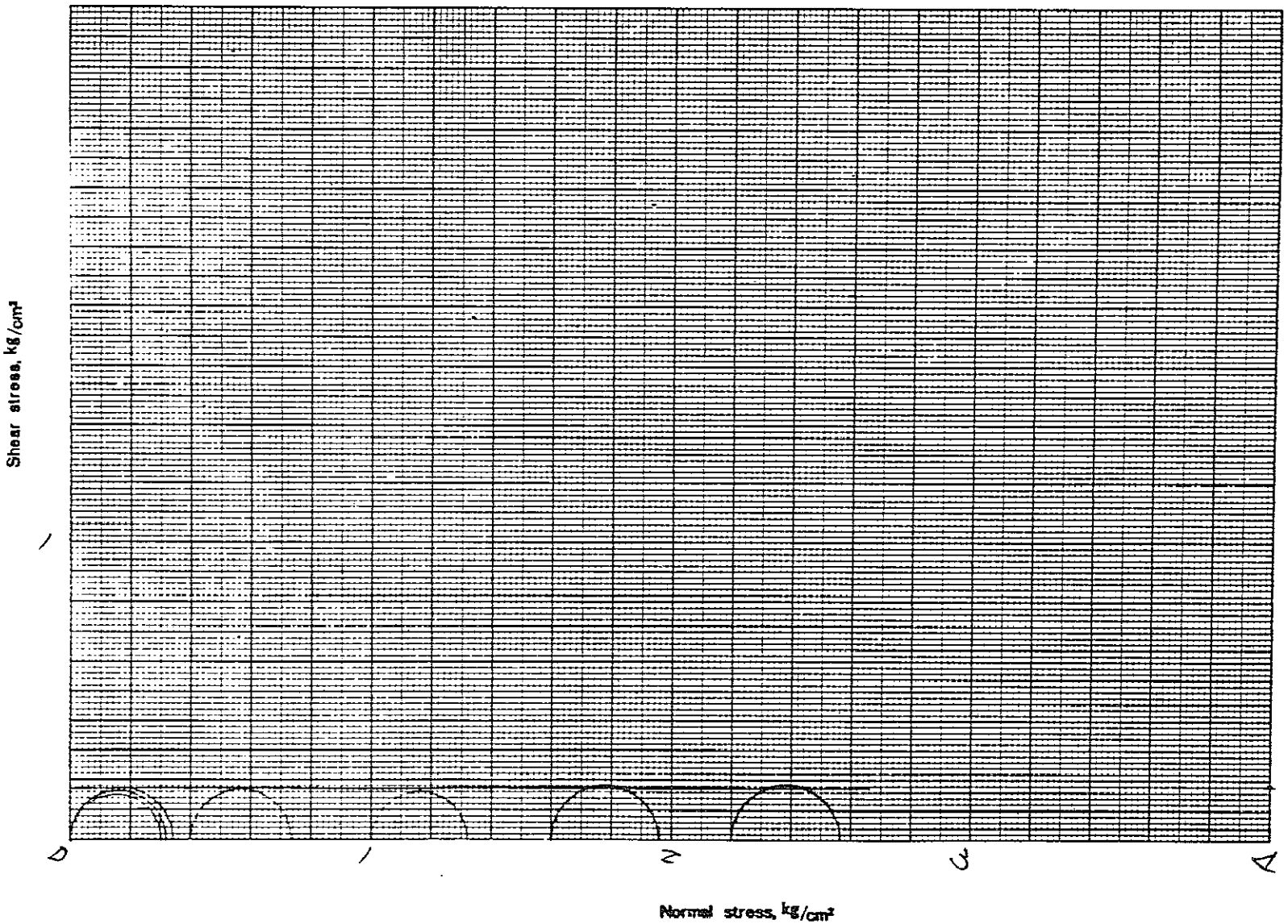


TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-5 S5-1 Depth of Sample 3.00 - 3.74 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 0°

Cohesion 0.17 kg/cm²



TRIAXIAL COMPRESSION TEST (Mohr's circle)

Project GWADAR MINI PORT Sample No. B-5 S5-2 Depth of Sample 5.00 - 5.69 m

Location of project GWADAR, PAKISTAN Condition of drainage U-U Angle of internal friction 23° (0°)

Cohesion 0.24 (1.3) kg/cm²