

B7 Laboratory Tests of Rock Core Samples

ROCK TEST OF DRILLING CORE SAMPLES :

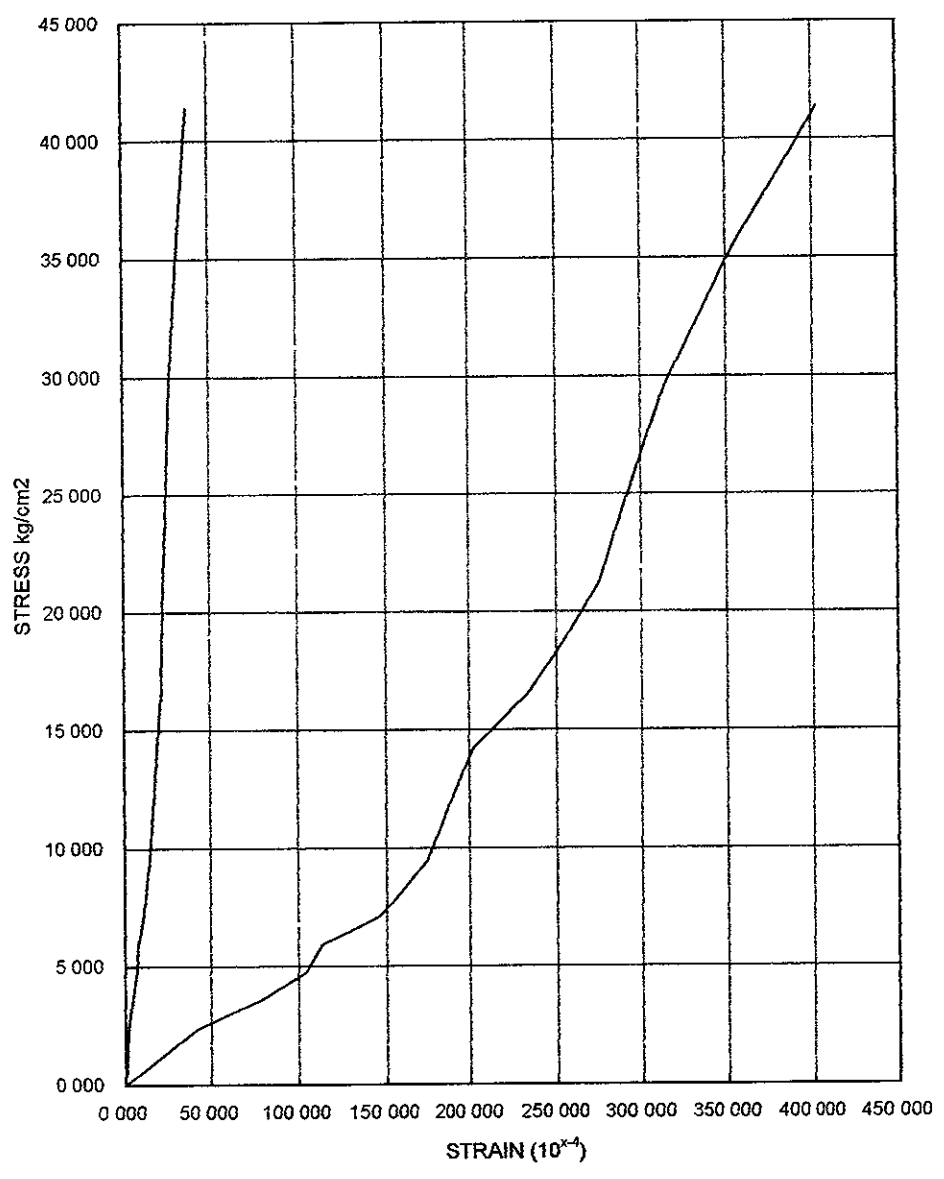
1. WATER ABSORPTION AND BULK SPECIFIC GRAVITY (ASTM C 127)
2. UNCONFINED COMPRESSION TEST OF ROCK CORE SPECIMEN (ASTM D 2938)
3. ULTRA SONIC WAVE VELOCITY TEST (ASTM D 2845)

ROCK MECHANICAL PROPERTIES DETERMINATION

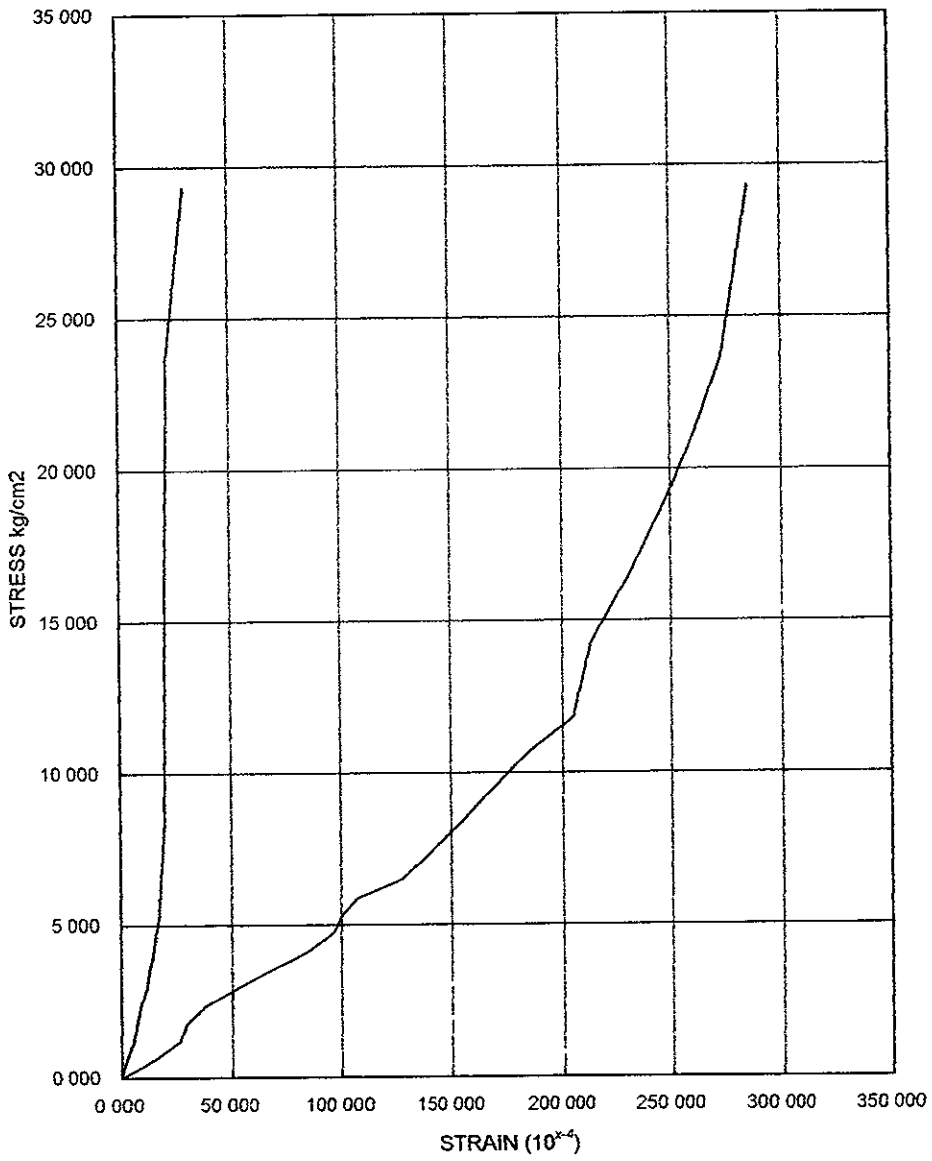
REQUEST BY : PT PURNAJASA BIMAPRATAMA, Cabang Denpasar
 PROJECT : TUKAD AYUNG
 LOCATION : BALI
 DATE RECEIVED : 16-02-06
 RECEIVED BY :
 TEST DATE : 16-02-06
 TESTED BY : Agus Rusli,cs
 APPROVED BY : Said, Bsc

No.	SAMPLES	NATURAL DENSITY	NATURAL WATER CONTENT	SATURATED DENSITY	ABSORPT/ ST WTR CONTENT	DRY DENSITY	DEG OF SATURAT. S	POROSITY n	AP SPEC. GRAVITY	TRUE SPEC. GRAVITY	VOID RATIO e
		gr/cm3 (3)	% (4)	gr/cm3 (5)	% (6)	gr/cm3 (7)	% (8)	% (9)	(10)	(11)	(12)
1	DA 6 (33.7 - 34.0)	1.438	1.82	1.844	30.61	1.412	5.93	43.22	1.4121	2.4871	0.761
2	DA 6 (34.4 - 34.6)	1.411	3.12	1.819	32.99	1.388	9.46	45.12	1.3679	2.4926	0.822
3	DA 6 (78.75 - 79.0)	1.080	16.22	1.585	70.61	0.929	22.97	65.60	0.9291	2.7010	1.907
4	DA 6 (91.10 - 91.25)	1.157	4.92	1.670	51.44	1.103	9.57	56.74	1.1030	2.5498	1.312
5	DA 7 (7.50 - 7.7)	1.567	1.95	1.923	25.15	1.537	7.77	38.65	1.5366	2.5046	0.630
6	DA 7 (12.0 - 12.15)	1.503	1.81	1.893	28.28	1.476	6.40	41.74	1.4758	2.5330	0.716
7	DA 7 (16.3 - 16.6)	1.370	1.20	1.809	33.63	1.354	3.58	45.53	1.3539	2.4854	0.836
8	DA 7 (29.35 - 29.65)	1.631	1.16	1.993	23.58	1.613	4.94	38.03	1.6127	2.6023	0.614
9	DA 8 (49.75 - 49.90)	1.361	4.40	1.825	39.96	1.304	11.02	52.10	1.3038	2.7220	1.088
10	DA 8 (59.5 - 59.7)	1.528	3.07	1.940	30.84	1.483	9.94	45.74	1.4830	2.7330	0.843
11	DA 8 (66.05 - 66.25)	2.034	3.91	2.214	13.07	1.958	29.90	25.59	1.9578	2.6312	0.344
12	DA 8 (75.40 - 75.65)	2.087	1.74	2.249	9.66	2.051	17.98	19.82	2.0512	2.5583	0.247
13	DA 9 (6.00 - 6.15)	1.901	21.06	1.985	26.41	1.570	79.72	41.47	1.5701	2.6826	0.709
14	DA 9 (9.60 - 10.00)	2.012	18.54	2.063	21.54	1.697	86.05	36.56	1.6973	2.6756	0.576
15	DA 9 (17.45 - 17.65)	2.224	10.79	2.250	12.04	2.008	89.60	24.18	2.0077	2.6480	0.319
16	DA 9 (42.25 - 42.45)	2.000	20.52	2.012	21.23	1.660	96.62	35.24	1.6595	2.5625	0.544
17	DA 10 (13.10 - 13.30)	1.704	2.01	2.043	22.26	1.671	9.02	37.20	1.6707	2.6602	0.592
18	DA 10 (13.75 - 14.00)	1.777	2.84	2.081	20.43	1.728	13.89	35.29	1.7279	2.6705	0.545
19	DA 10 (17.15 - 17.25)	2.142	3.51	2.279	10.11	2.070	34.72	20.93	2.0698	2.6176	0.265
20	DA 10 (21.15 - 21.30)	2.080	3.05	2.251	11.52	2.019	26.44	23.26	2.0187	2.6307	0.303

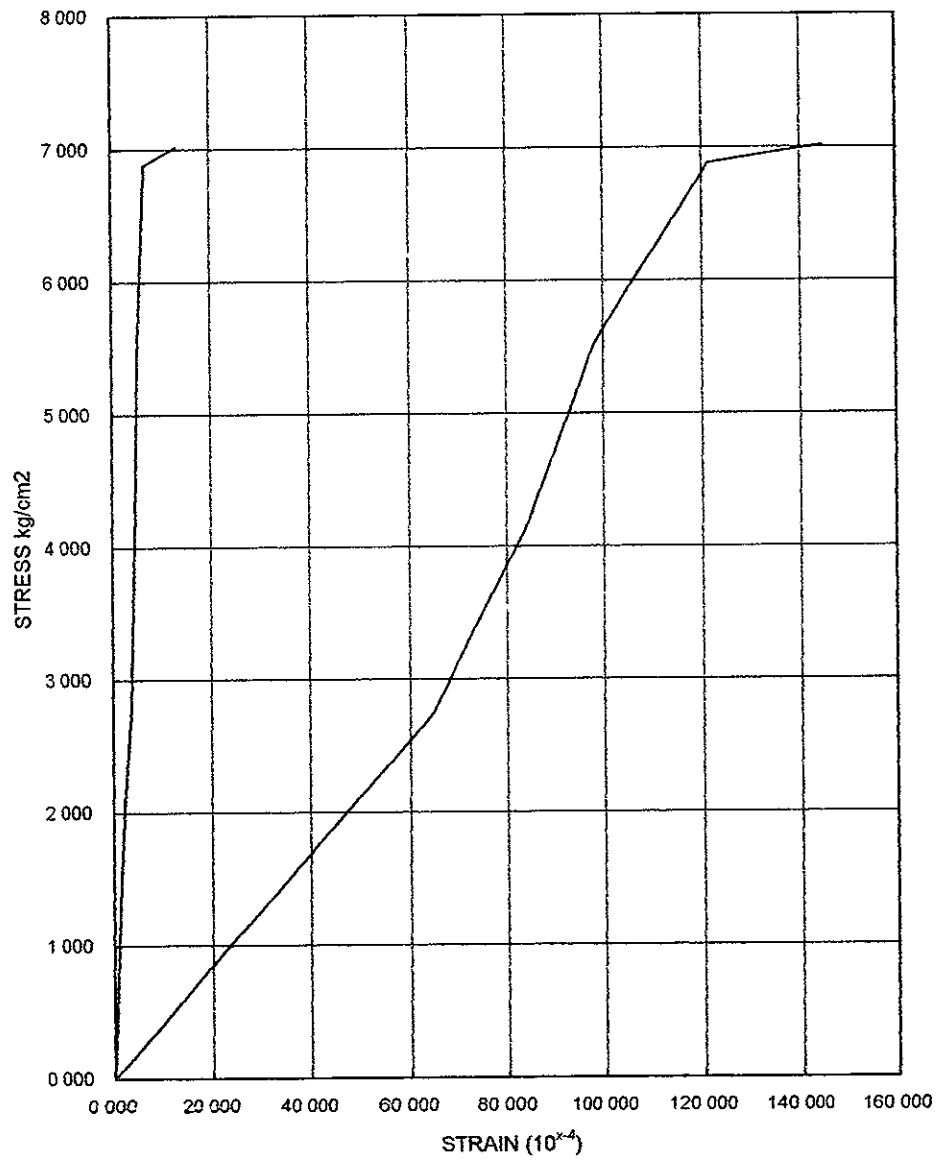
UNCONFINED GRAPH
DA - 6 (34.40 - 34.60 M)



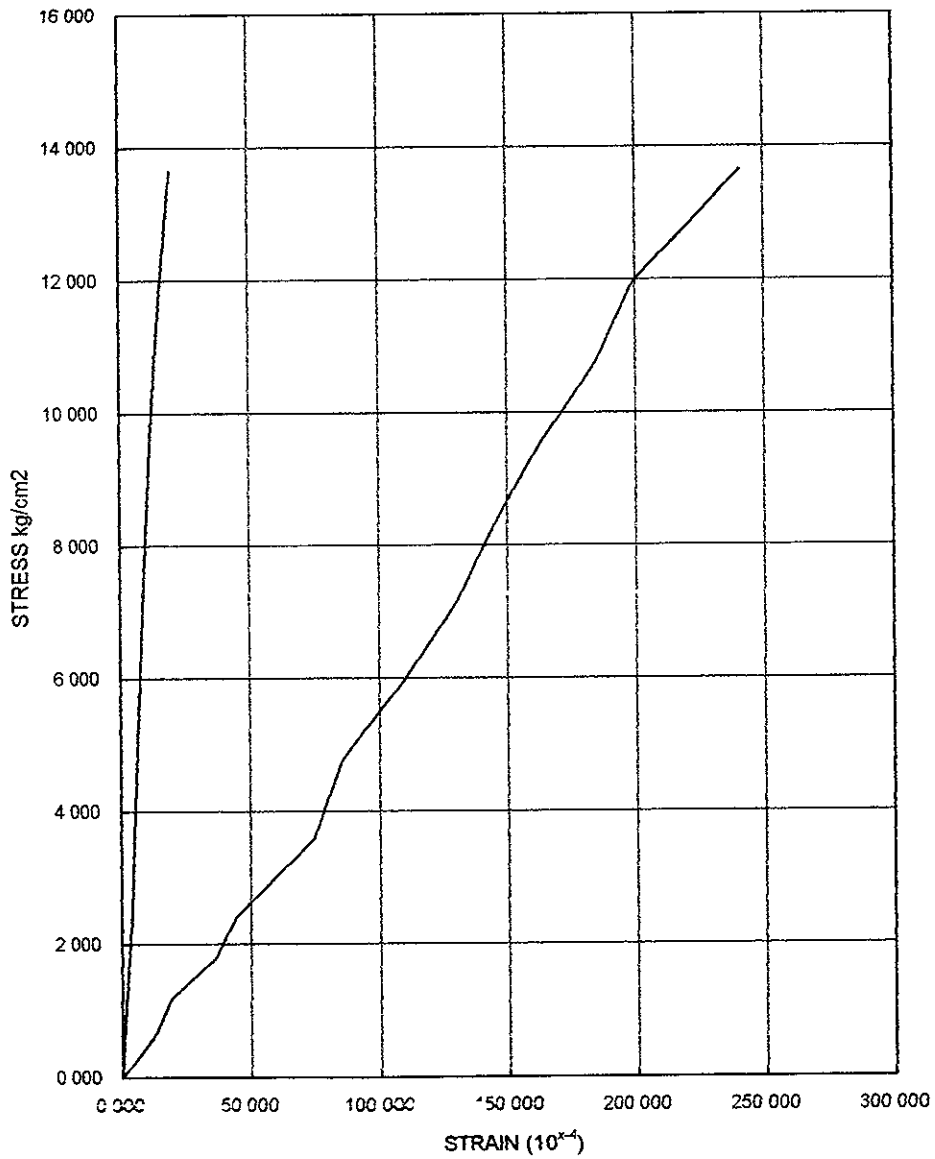
UNCONFINED GRAPH
DA - 6 (33.70 - 34.00 M)



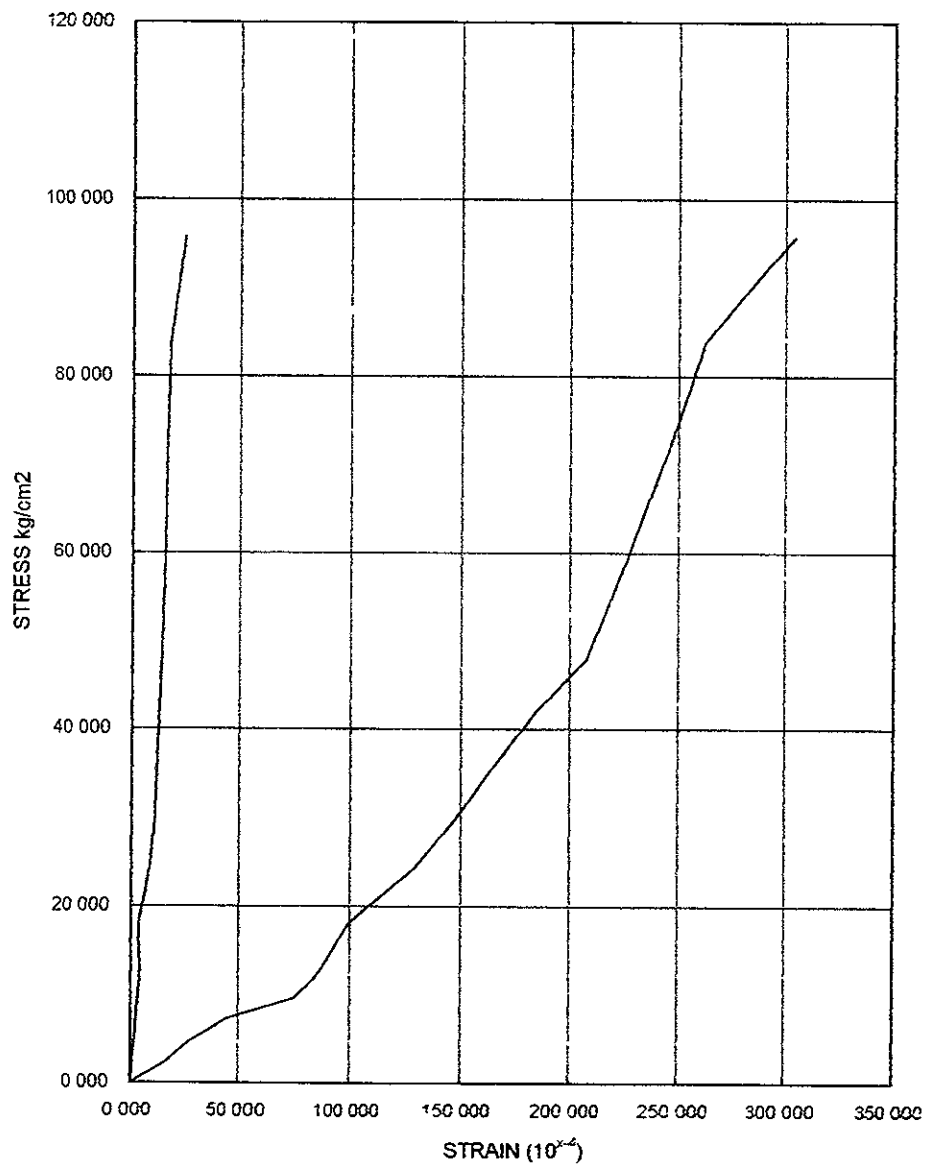
**UNCONFINED GRAPH
DA - 6 (78.75 - 79.00 M)**



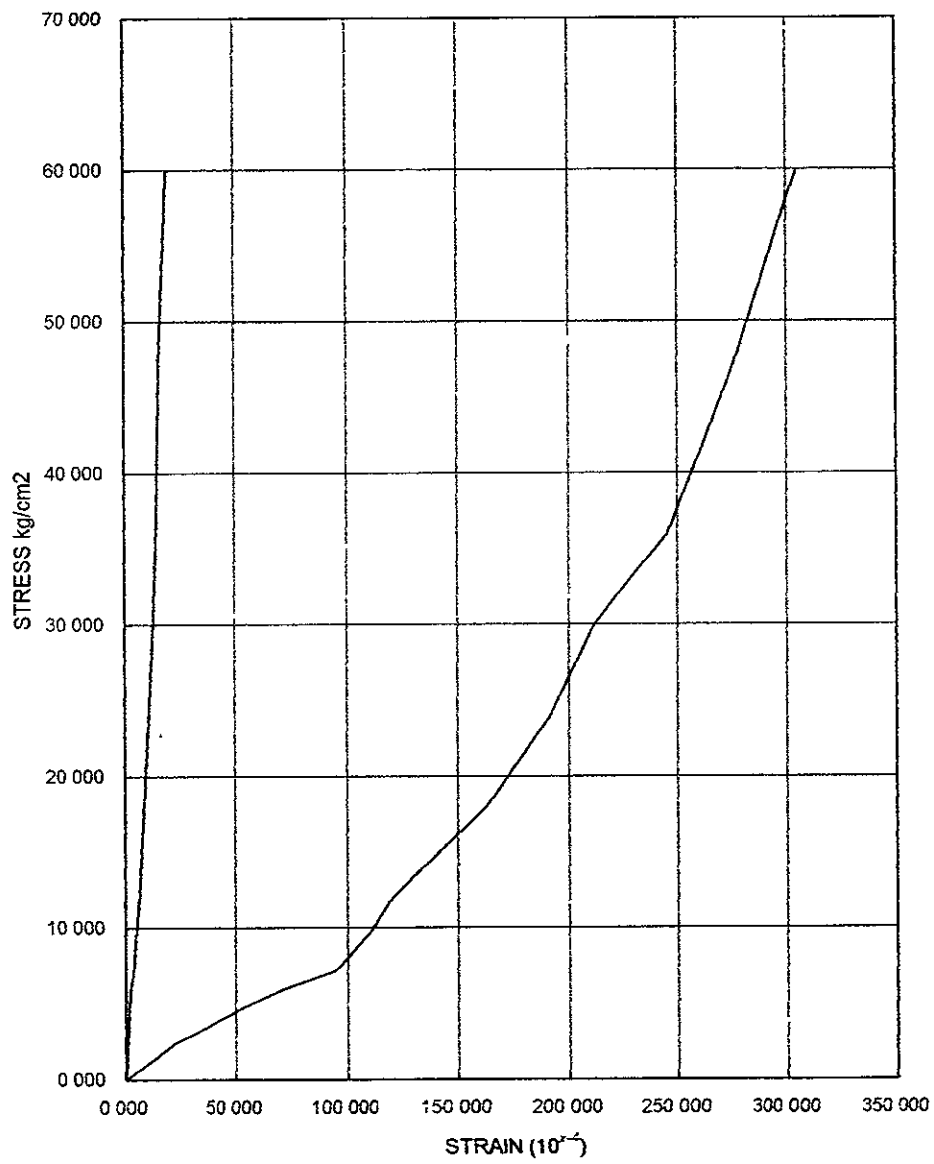
UNCONFINED GRAPH
DA - 6 (91,10 - 91,25 M)



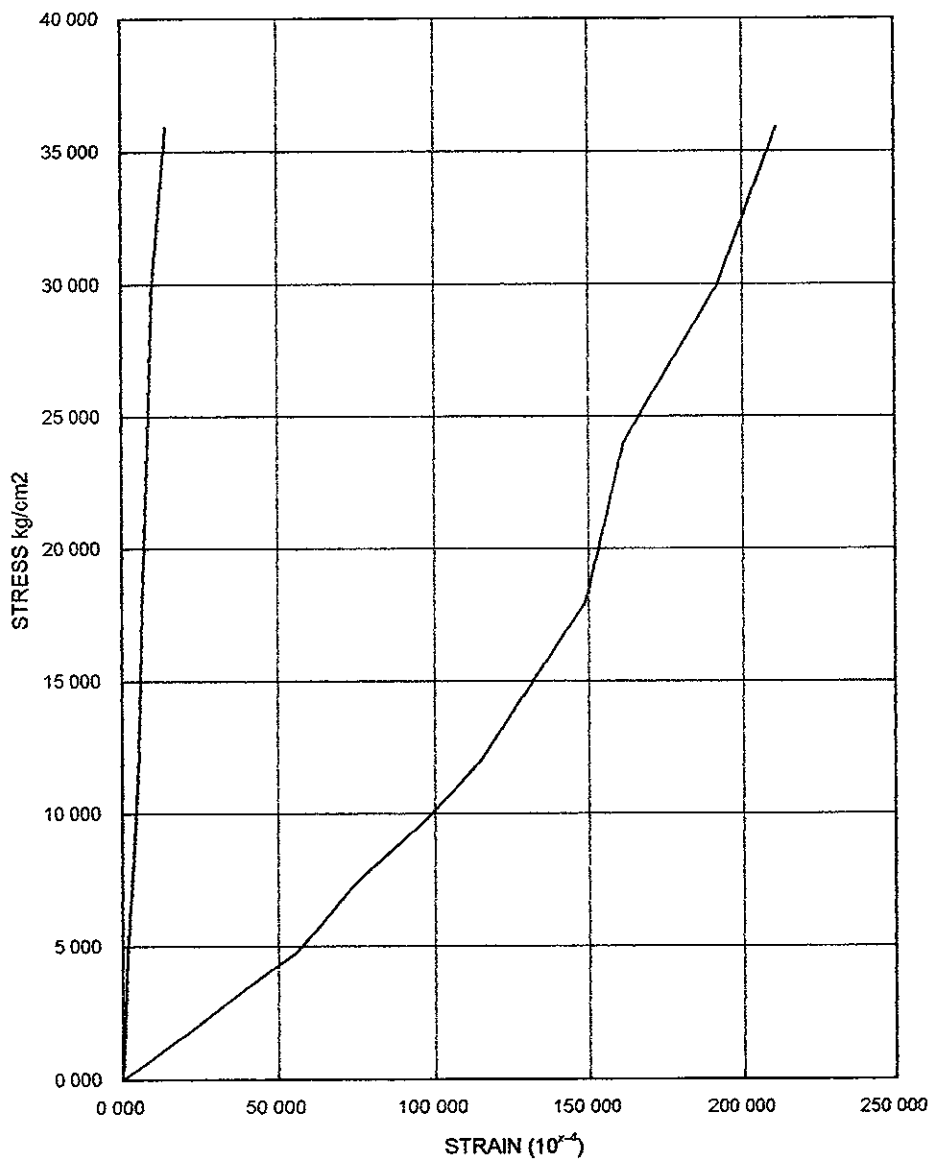
UNCONFINED GRAPH
DA - 7 (7.50 - 7.70 M)



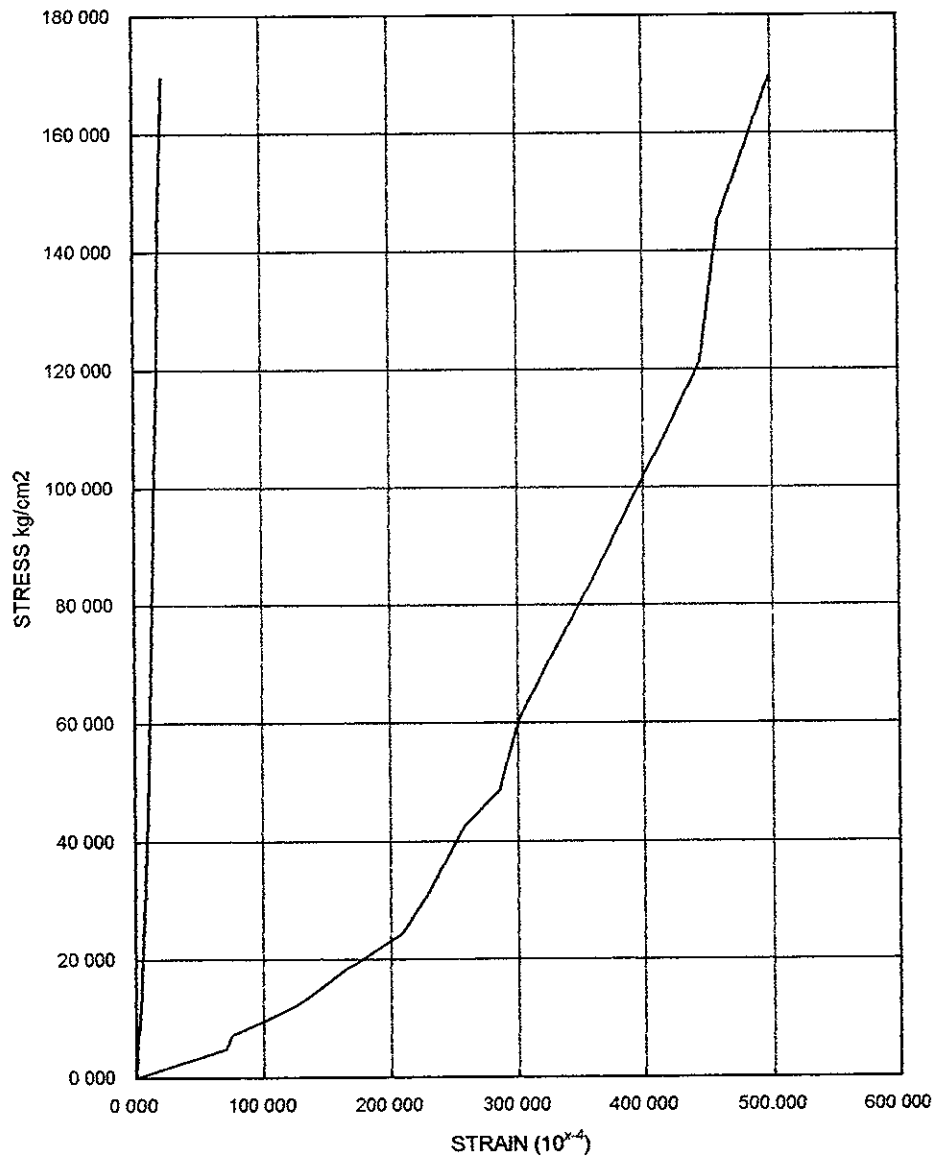
UNCONFINED GRAPH
DA - 7 (12.00 - 12.15 M)



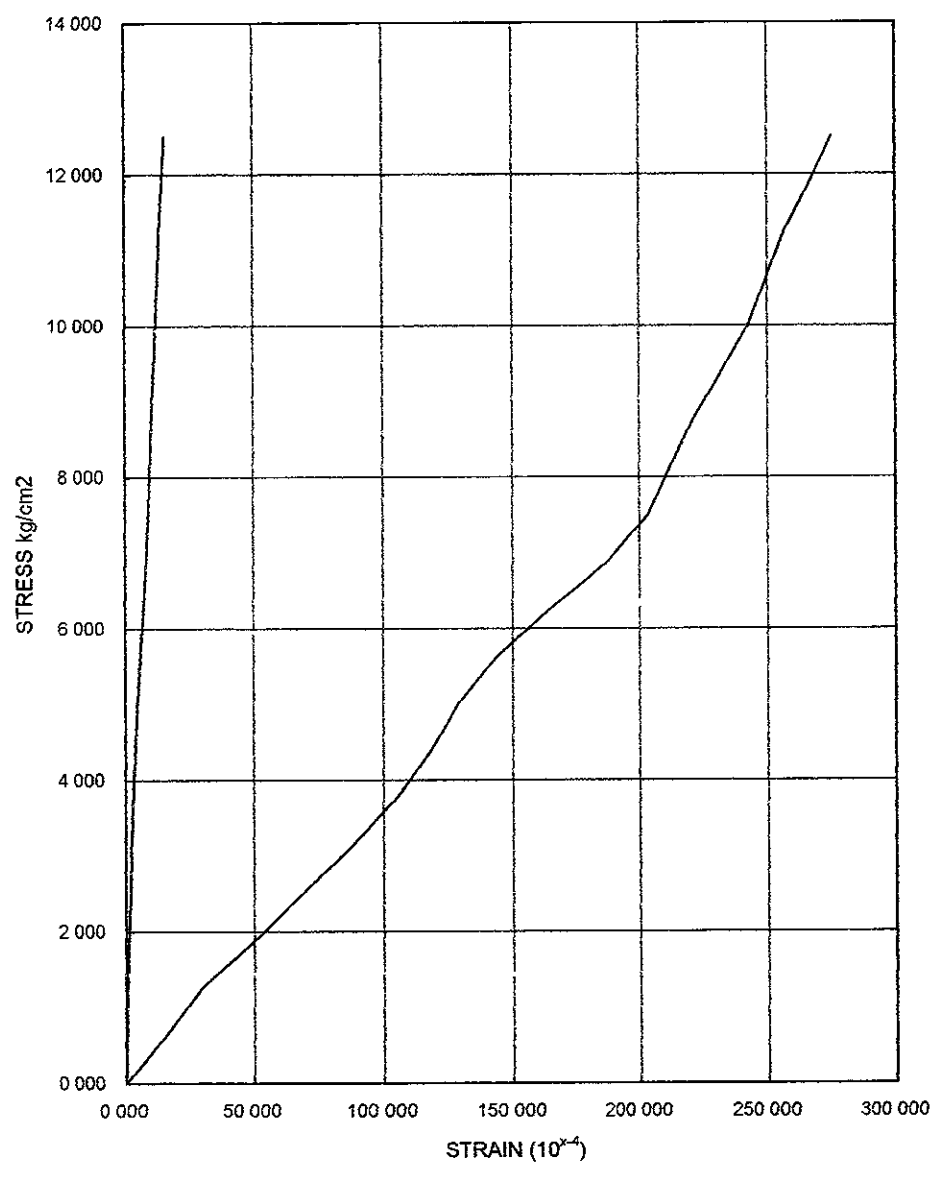
UNCONFINED GRAPH
DA - 7 (16.30 - 16.60 M)



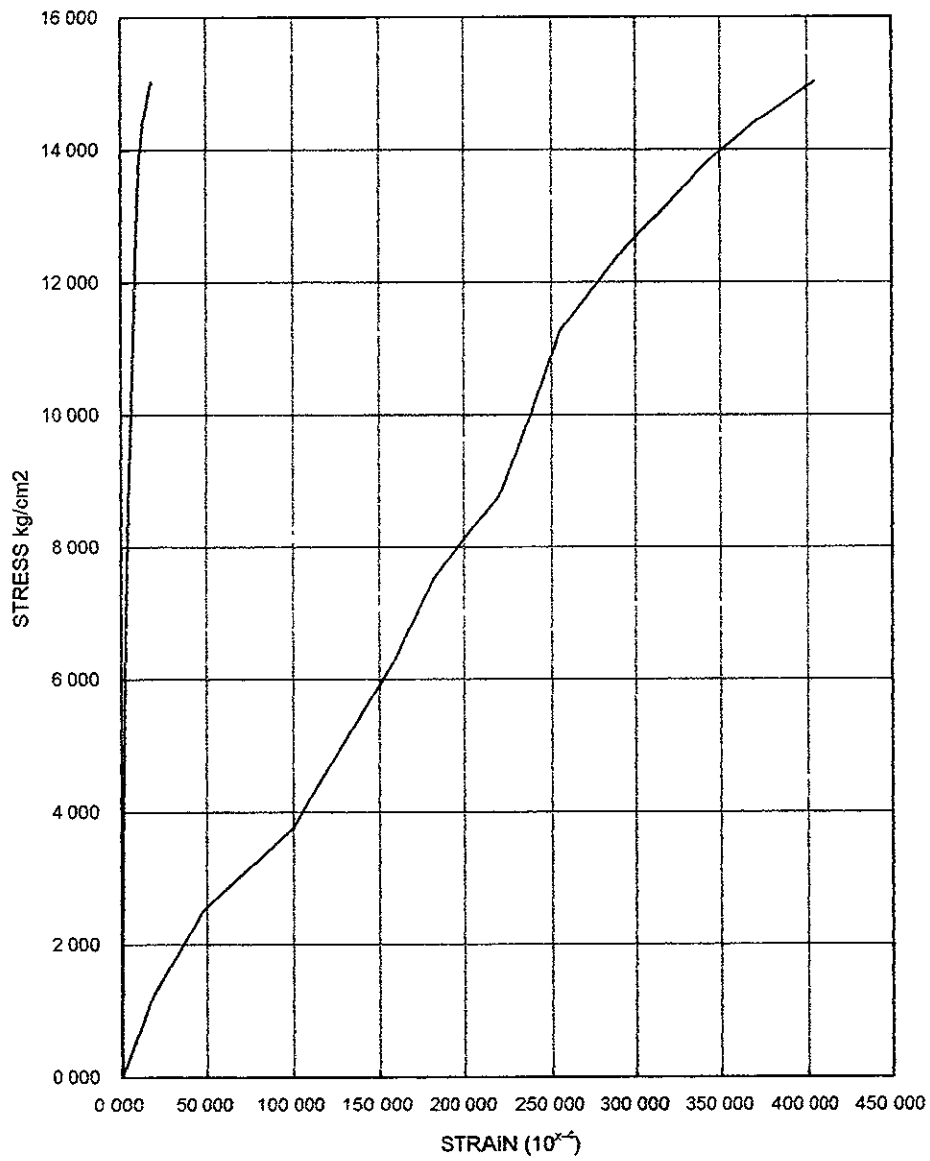
**UNCONFINED GRAPH
DA - 7 (29.35 - 29.65 M)**



UNCONFINED GRAPH
DA-8 (49.75 - 49.90 M)



UNCONFINED GRAPH
DA-8 (59.50 - 59.70 M)



UNCONFINED COMPRESSION TEST

REQUEST BY	PT PURNAJASA BP, Cabang Denpasar	DRILL HOLE	DA - 8
PROJECT	TUKAD AYUNG DAM	DEPTH	66.05 - 66.25
LOCATION	BALI	TYPE OF ROCK	
DATE		TEST CONDITION	
SIZE OF SPECIMENT	HEIGHT 9.35 cm	DENSITY	
	DIAMETER 4.84 cm	VOLUME	
	AREA 18.360 cm ²	σ_n	
L/D CORRECTION	1.002356316	WEIGHT	

No	DIAL READING ($\times 10^{-3}$)mm					STRAIN ($\times 10^{-3}$)		
	LOAD (lb)	STRESS (kg/cm ²)	AXIAL		DIAMETRAL		AXIAL	DIAMETRAL
			a	d	d1	d2	a	d1+ d2
1	0	0.000	0		1	0	0.000	0.620
2	100	2.471	163		2	2	34.885	1.240
3	200	4.941	342		8	4	73.194	2.893
4	300	7.412	395		10	6	84.537	3.719
5	400	9.882	520		12	8	111.289	4.752
6	500	12.353	580		14	11	124.131	5.579
7	600	14.823	685		16	13	146.602	5.992
8	700	17.294	752		18	13	160.942	6.612
9	800	19.764	818		21	14	175.067	7.231
10	900	22.235	868		25	14	185.768	8.264
11	1000	24.705	910		28	15	194.757	9.091
12	1250	30.882	995		31	16	212.948	10.124
13	1500	37.058	1061		35	18	227.073	10.950
14	1750	43.234	1110		35	18	237.560	11.570
15	2000	49.411	1159		38	21	248.047	12.397
16	2500	61.763	1224		41	22	261.958	13.017
17	3000	74.116	1280		45	22	273.943	14.256
18	4000	98.821	1362		50	24	291.493	15.702
19	5000	123.527	1428		59	26	305.618	17.975
20	6000	148.232	1488		64	28	318.459	19.421
21	7000	172.937	1510		66	30	323.167	20.248
22	8000	197.642	1580		68	32	338.149	21.074
23	9000	222.348	1610		70	34	344.569	21.901
24	10000	247.053	1690		77	36	361.691	24.174
25	11000	271.758	1724		83	40	368.967	26.240
26	12000	296.464	1760		90	44	376.672	31.198
27	13000	321.169	1825		105	61	390.583	21.694

REMARK	SAMPLE FAILURE AT σ_c	321.169	kg/cm ²
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UNCONFINED COMPRESSION TEST

REQUEST BY	PT PURNAJASA BP, Cabang Denpasar	DRILL HOLE	DA - 8
PROJECT	TUKAD AYUNG DAM	DEPTH	66 05 - 66 25
LOCATION	BALI	TYPE OF ROCK	
DATE		TEST CONDITION	
SIZE OF SPECIMENT	HEIGHT 9.35 cm	DENSITY	
	DIAMETER 4.84 cm	VOLUME	
	AREA 18.360 cm ²	σ_n	
L/D CORRECTION	1.002356316	WEIGHT	

No	DIAL READING (X10 ⁻³)mm						STRAIN (x10 ⁻³)	
	LOAD (lb)	STRESS (kg/cm ²)	AXIAL		DIAMETRICAL		AXIAL a	DIAMETRICAL d1+ d2
			a	d	d 1	d 2		
1	0	0.000	0		1	0	0.000	0.620
2	100	2.471	163		2	2	34.885	1.240
3	200	4.941	342		8	4	73.194	2.893
4	300	7.412	395		10	6	84.537	3.719
5	400	9.882	520		12	8	111.289	4.752
6	500	12.353	580		14	11	124.131	5.579
7	600	14.823	685		16	13	146.602	5.992
8	700	17.294	752		18	13	160.942	6.612
9	800	19.764	818		21	14	175.067	7.231
10	900	22.235	868		25	14	185.768	8.264
11	1000	24.705	910		28	15	194.757	9.091
12	1250	30.882	995		31	16	212.948	10.124
13	1500	37.058	1061		35	18	227.073	10.950
14	1750	43.234	1110		35	18	237.560	11.570
15	2000	49.411	1159		38	21	248.047	12.397
16	2500	61.763	1224		41	22	261.958	13.017
17	3000	74.116	1280		45	22	273.943	14.256
18	4000	98.821	1362		50	24	291.493	15.702
19	5000	123.527	1428		59	26	305.618	17.975
20	6000	148.232	1488		64	28	318.459	19.421
21	7000	172.937	1510		66	30	323.167	20.248
22	8000	197.642	1580		68	32	338.149	21.074
23	9000	222.348	1610		70	34	344.569	21.901
24	10000	247.053	1690		77	36	361.691	24.174
25	11000	271.758	1724		83	40	368.967	26.240
26	12000	296.464	1760		90	44	376.672	31.198
27	13000	321.169	1825		105	61	390.583	21.694

REMARK: SAMPLE FAILURE AT c 321.169 kg/cm^2

UN-

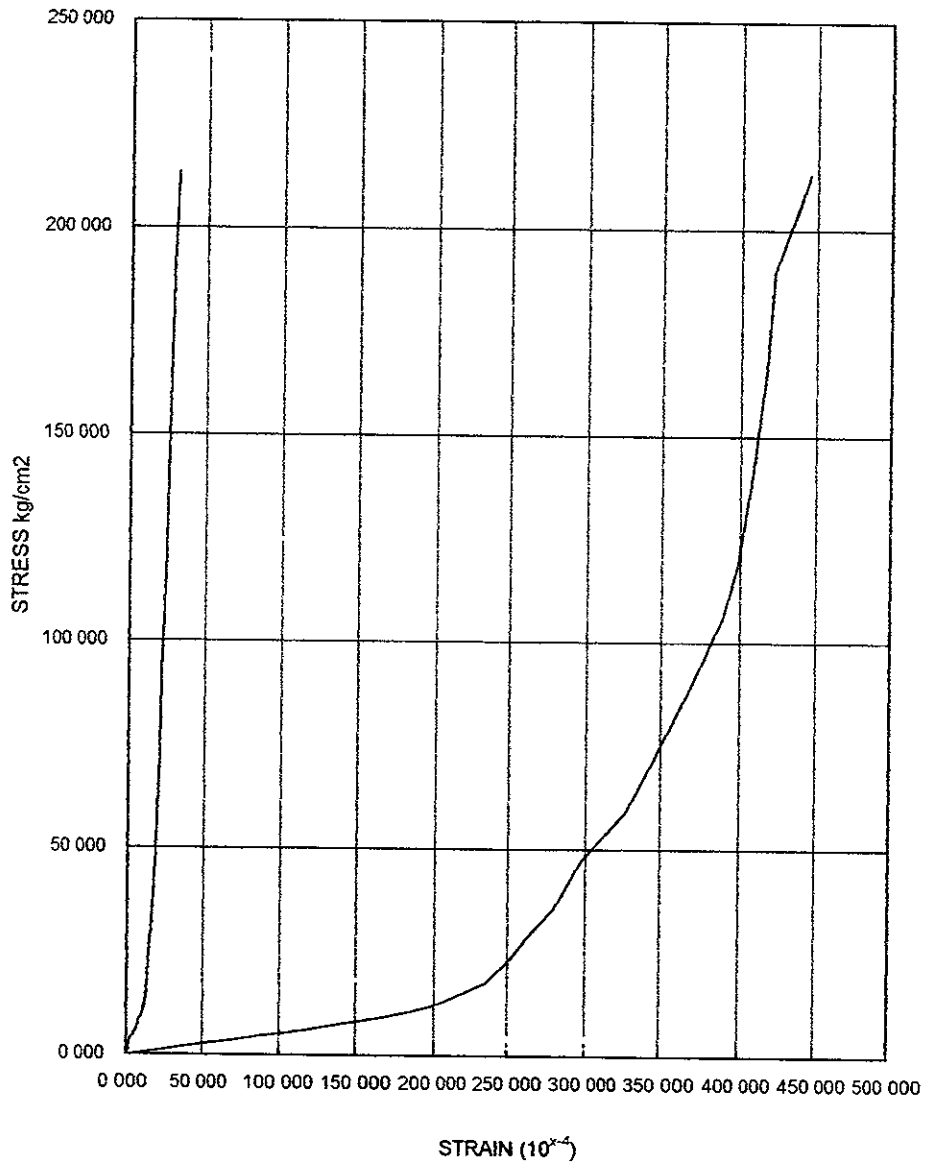
UNCONFINED COMPRESSION TEST

REQUEST BY	PT PURNAJASA BP, Cabang Denpasar	DRILL HOLE	DA - 8
PROJECT	TUKAD AYUNG DAM	DEPTH	75 40 - 75 65
LOCATION	BALI	TYPE OF ROCK	
DATE		TEST CONDITION	
SIZE OF SPECIMENT	HEIGHT 10 03 cm	DENSITY	
	DIAMETER 4 94 cm	VOLUME	
	AREA 19 128 cm ²	σ_n	
L/D CORRECTION	1 01065133	WEIGHT	

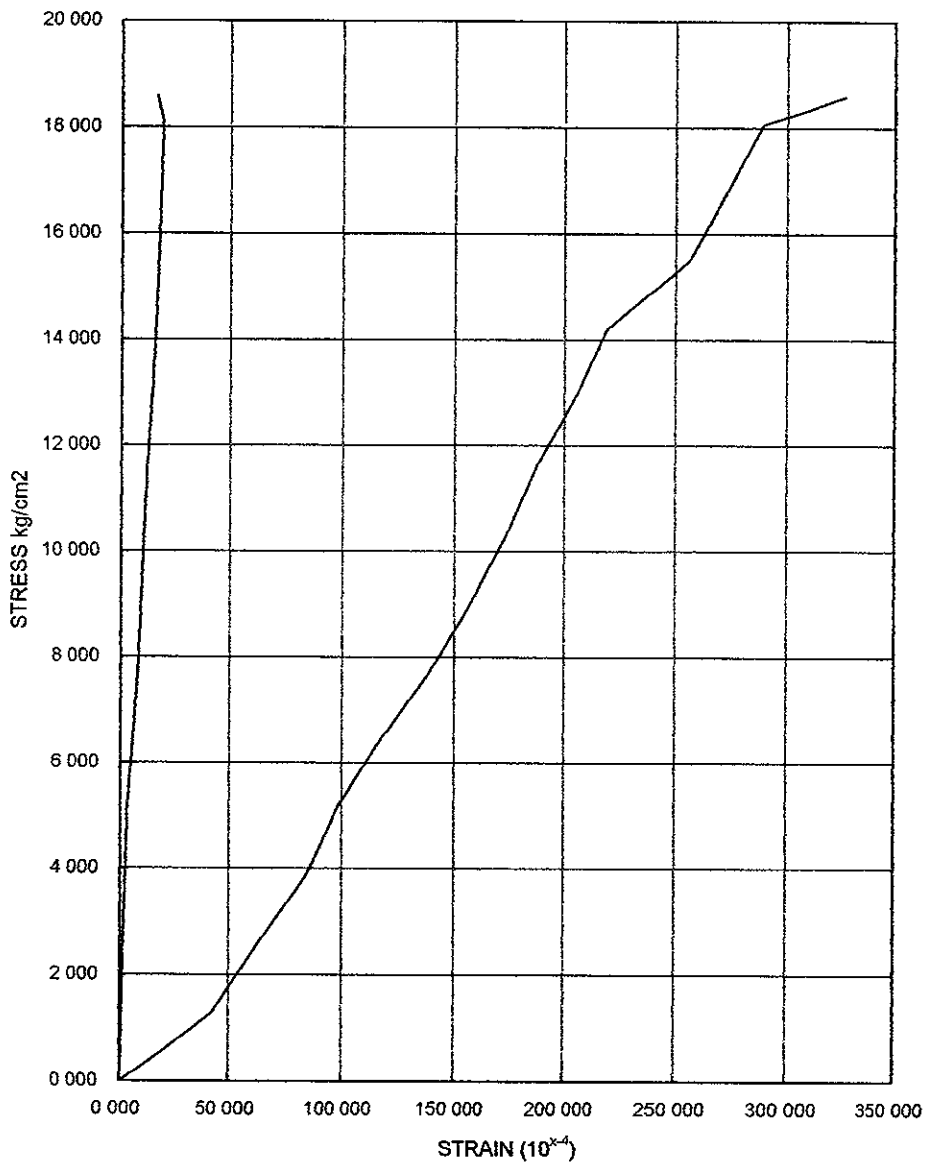
No	DIAL READING ($\times 10^{-3}$)mm						STRAIN ($\times 10^{-4}$)	
	LOAD (lb)	STRESS (kg/cm ²)	AXIAL		DIAMETRAL		AXIAL a	DIAMETRAL d1+ d2
			a	d	d 1	d 2		
1	0	0 000	0		0	0	0 000	0 000
2	50	1 186	112		0	5	22 344	1 012
3	100	2 371	230		1	6	45 885	1 417
4	150	3 557	352		3	8	70 224	2 227
5	200	4 743	450		7	12	89 776	3 846
6	250	5 929	572		11	16	114.115	5 466
7	300	7 114	670		15	19	133 666	6 883
8	350	8 300	768		17	21	153 217	7 692
9	400	9 486	852		21	25	169 975	9 312
10	450	10 671	925		24	26	184 539	10 121
11	500	11 857	992		27	29	197 905	11 336
12	750	17 786	1183		31	31	236 010	12 551
13	1000	23 714	1262		34	32	251 771	13 360
14	1250	29 643	1325		38	34	264 339	14 575
15	1500	35 571	1400		42	36	279 302	15 789
16	2000	47 428	1490		47	39	297 257	17 409
17	2500	59 286	1640		51	41	327 182	18 623
18	3000	71 143	1728		57	42	344 738	20 040
19	4000	94 857	1878		61	43	374 663	21 053
20	4500	106 714	1950		66	45	389.027	22 470
21	5000	118 571	1995		68	48	398 005	23 482
22	6000	142 285	2050		72	50	408 978	24 696
23	7000	166 000	2090		77	53	416 958	26 316
24	8000	189 714	2115		80	57	421 945	27 733
25	9000	213 428	2230		89	61	444 888	30 364

REMARK SAMPLE FAILURE AT c 213 428 kg/cm²

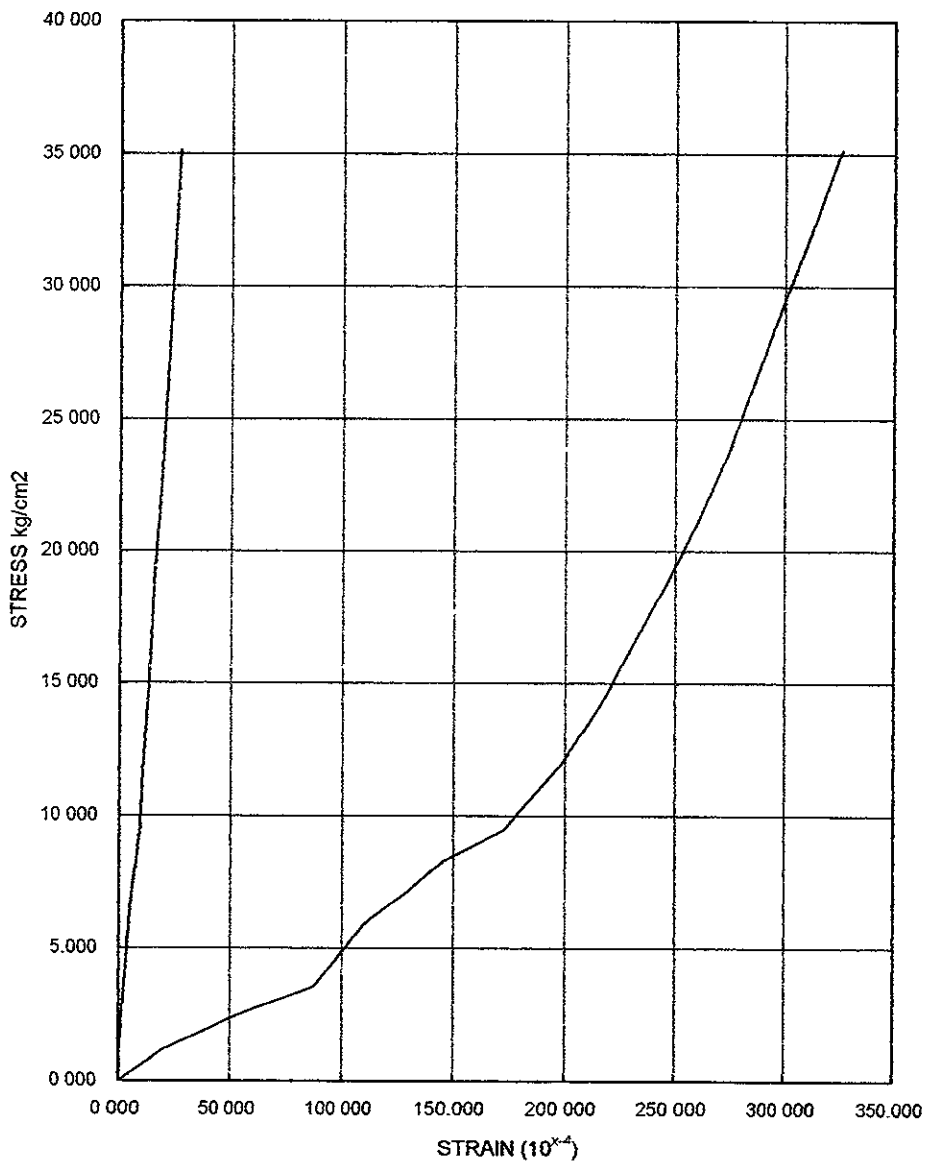
UNCONFINED GRAPH
DA - 8 (75.40 - 75.65 M)



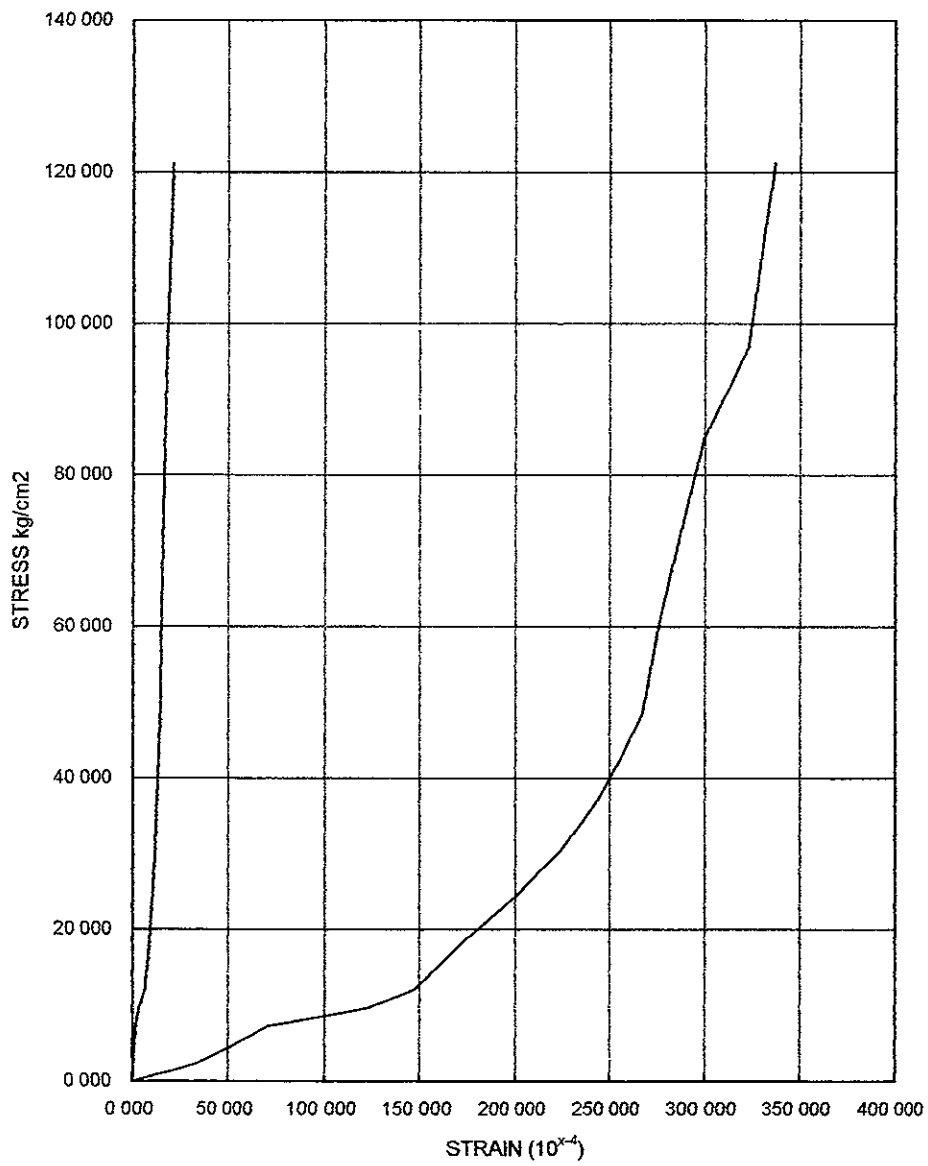
UNCONFINED GRAPH
DA-9 (6.00 - 6.15 M)



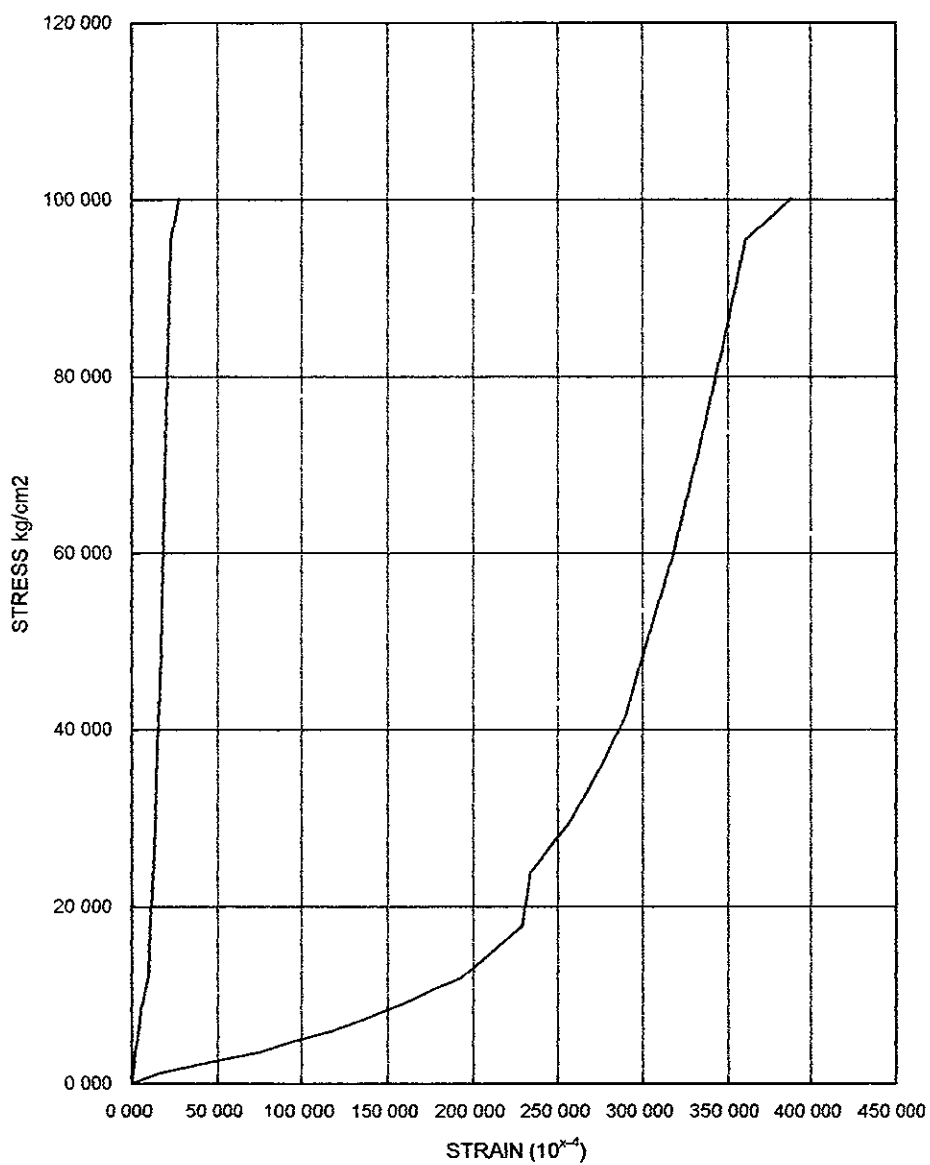
UNCONFINED GRAPH
DA-9 (9.60 - 10.00 M)



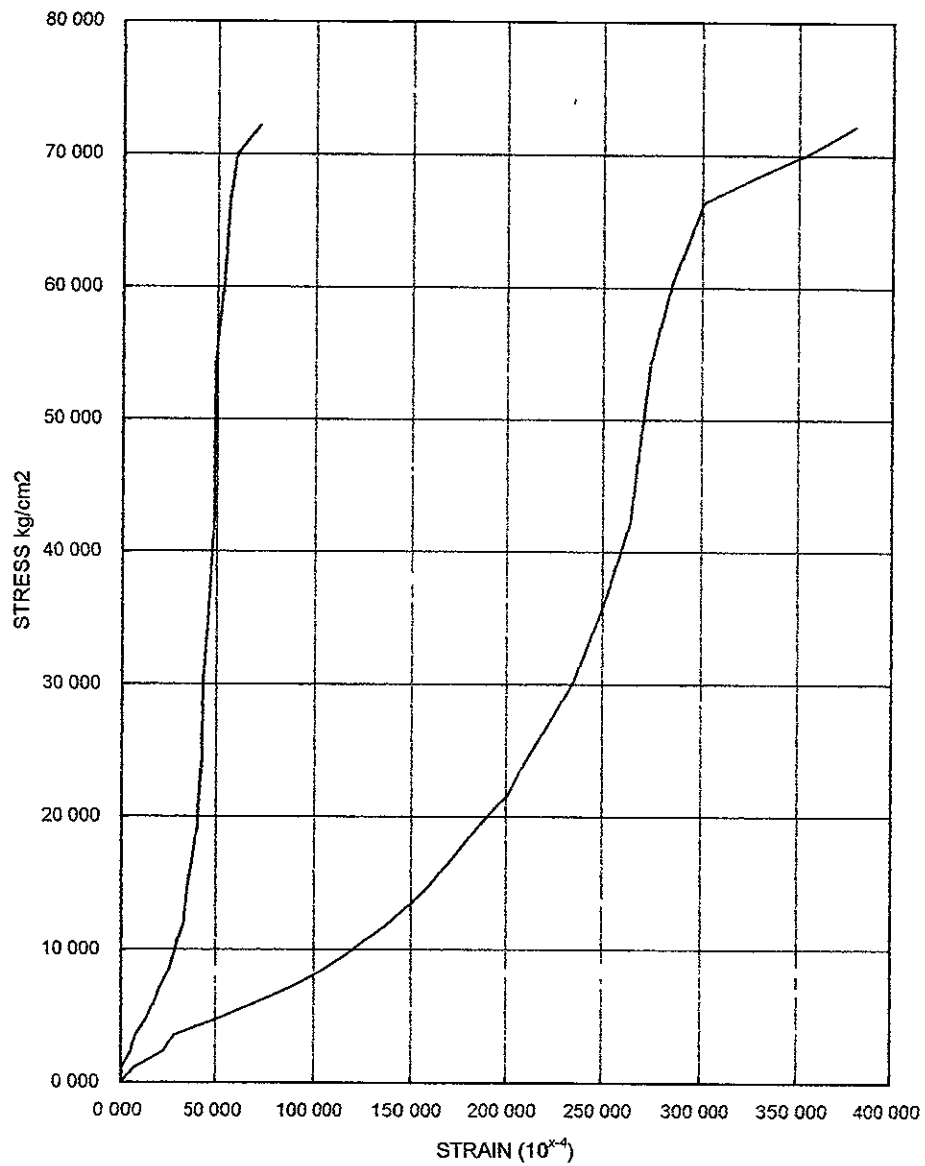
UNCONFINED GRAPH
DA-9 (17.45 - 17.65 M)



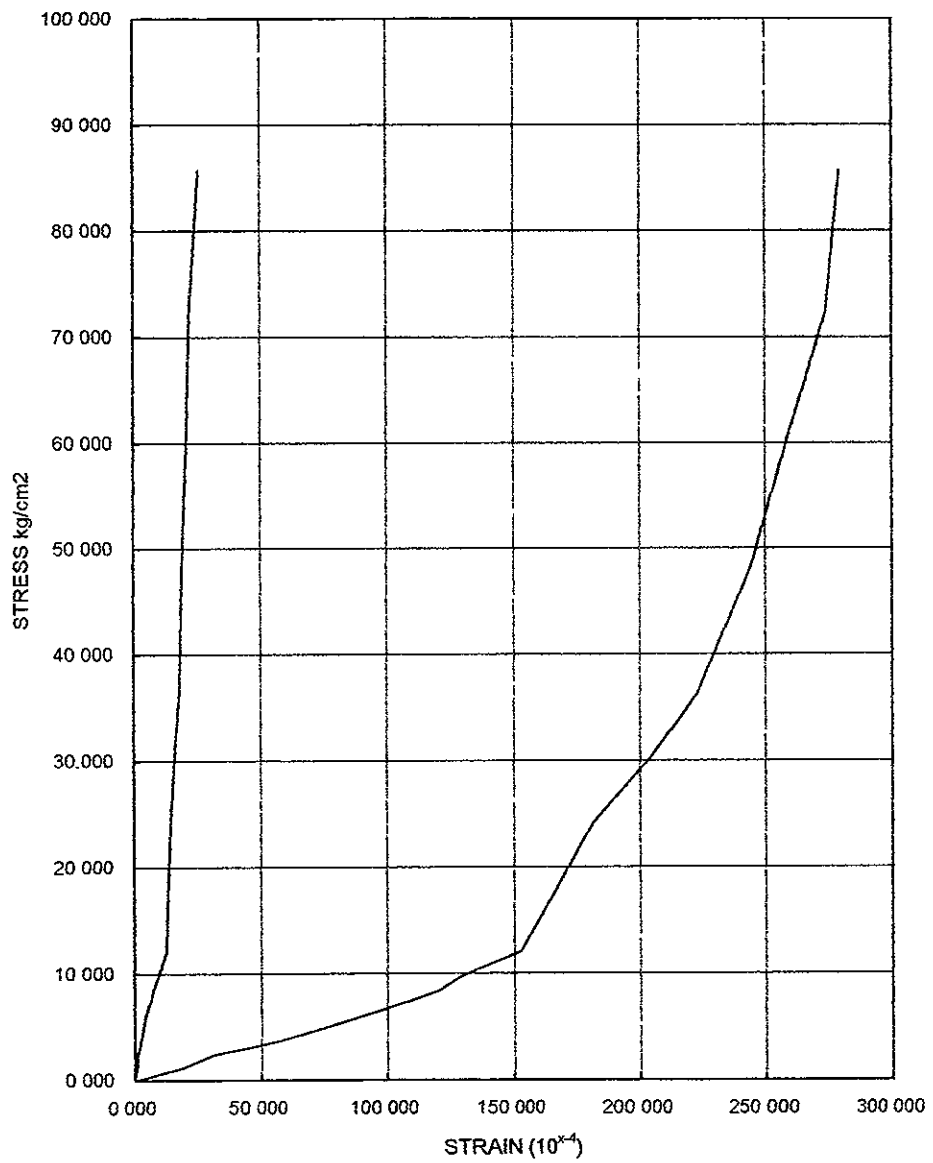
UNCONFINED GRAPH
DA-9 (42.25 - 42.45 M)



UNCONFINED GRAPH
DA - 10 (13.10 - 13.30 M)



UNCONFINED GRAPH
DA - 10 (13.75 - 14.00 M)

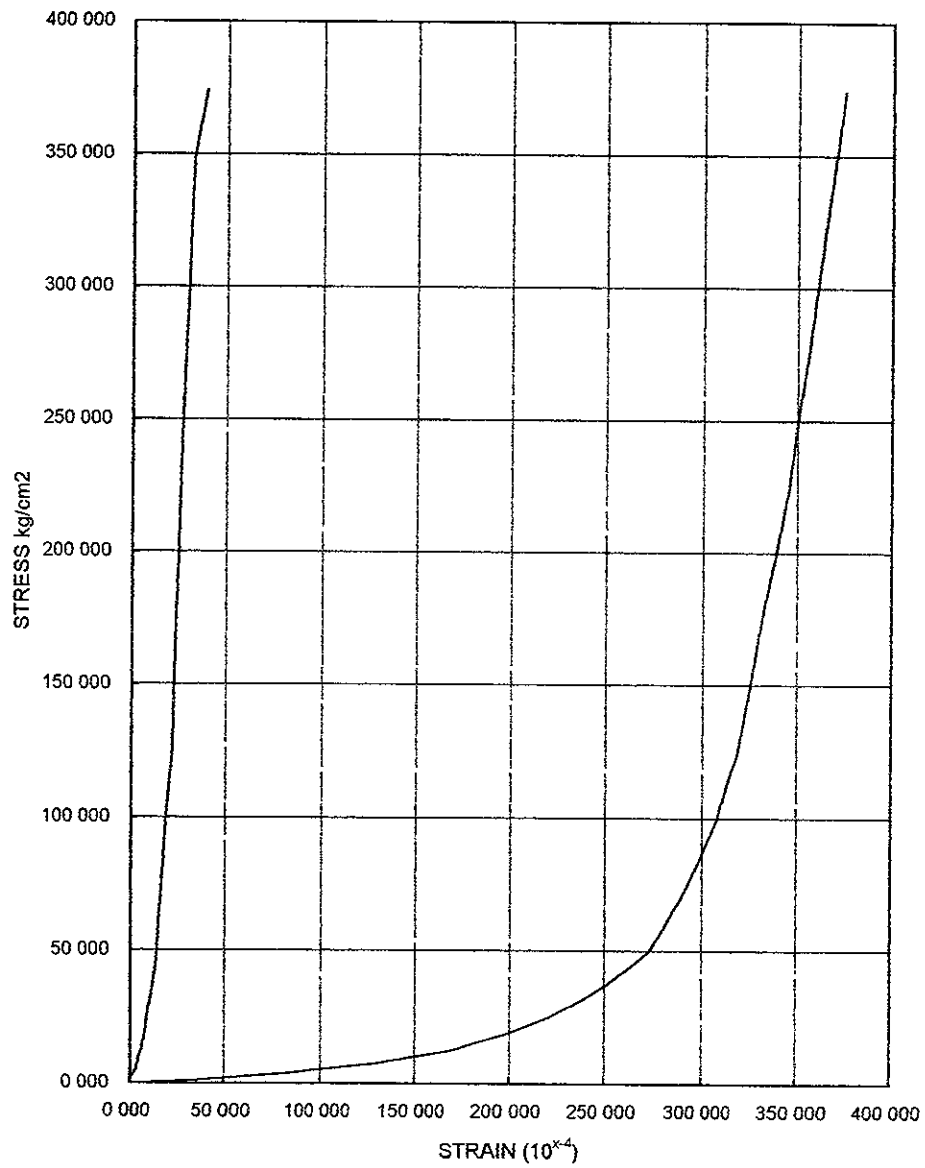


UNCONFINED COMPRESSION TEST

REQUEST BY	PT PURNAJASA BP, Cabang Denpasar	DRILL HOLE	DA - 10
PROJECT	TUKAD AYUNG DAM	DEPTH	21 15 - 21 30
LOCATION	BALI	TYPE OF ROCK	
DATE		TEST CONDITION	
SIZE OF SPECIMENT	HEIGHT	10.06 cm	DENSITY
	DIAMETER	4.81 cm	VOLUME
	AREA	18.171 cm ²	σ_n
L/D CORRECTION	1.015304771		WEIGHT

No	DIAL READING ($\times 10^{-3}$)mm						STRAIN ($\times 10^{-4}$)	
	LOAD (lb)	STRESS (kg/cm ²)	AXIAL		DIAMETRAL		AXIAL a	DIAMETRAL d1+ d2
			a	d	d.1	d.2		
1	0	0.000	0		0	0	0.000	0.000
2	50	1.248	183		0	0	36.382	0.000
3	100	2.496	285		1	2	56.660	0.624
4	150	3.744	408		4	4	81.113	1.663
5	200	4.993	476		8	6	94.632	2.911
6	300	7.489	640		9	9	127.237	3.742
7	400	9.985	748		11	11	148.708	4.574
8	500	12.481	852		14	14	169.384	5.821
9	750	18.722	998		18	18	198.410	7.484
10	1000	24.963	1107		21	21	220.080	8.732
11	1250	31.203	1192		24	24	236.978	9.979
12	1500	37.444	1263		28	28	251.093	11.642
13	1750	43.685	1318		31	31	262.028	12.890
14	2000	49.926	1373		33	33	272.962	13.721
15	2500	62.407	1422		35	35	282.704	14.553
16	3000	74.888	1470		38	38	292.247	15.800
17	3500	87.370	1511		41	41	300.398	17.048
18	4000	99.851	1548		44	44	307.753	18.295
19	4500	112.333	1575		48	48	313.121	19.958
20	5000	124.814	1604		52	52	318.887	21.622
21	6000	149.777	1639		54	54	325.845	22.453
22	7000	174.739	1671		56	56	332.207	23.285
23	8000	199.702	1706		59	59	339.165	24.532
24	9000	224.665	1738		61	61	345.527	25.364
25	10000	249.628	1760		64	64	349.901	26.611
26	11000	274.591	1787		67	67	355.268	27.859
27	12000	299.553	1809		71	71	359.642	29.522
28	13000	324.516	1832		74	74	364.215	30.769
29	14000	349.479	1858		77	79	369.384	32.432
30	15000	374.442	1883		89	99	374.354	39.085
								0.000
REMARK	SAMPLE FAILURE AT c 374.442 kg/cm ²							

UNCONFINED GRAPH
DA - 10 (21.15 - 21.30 M)



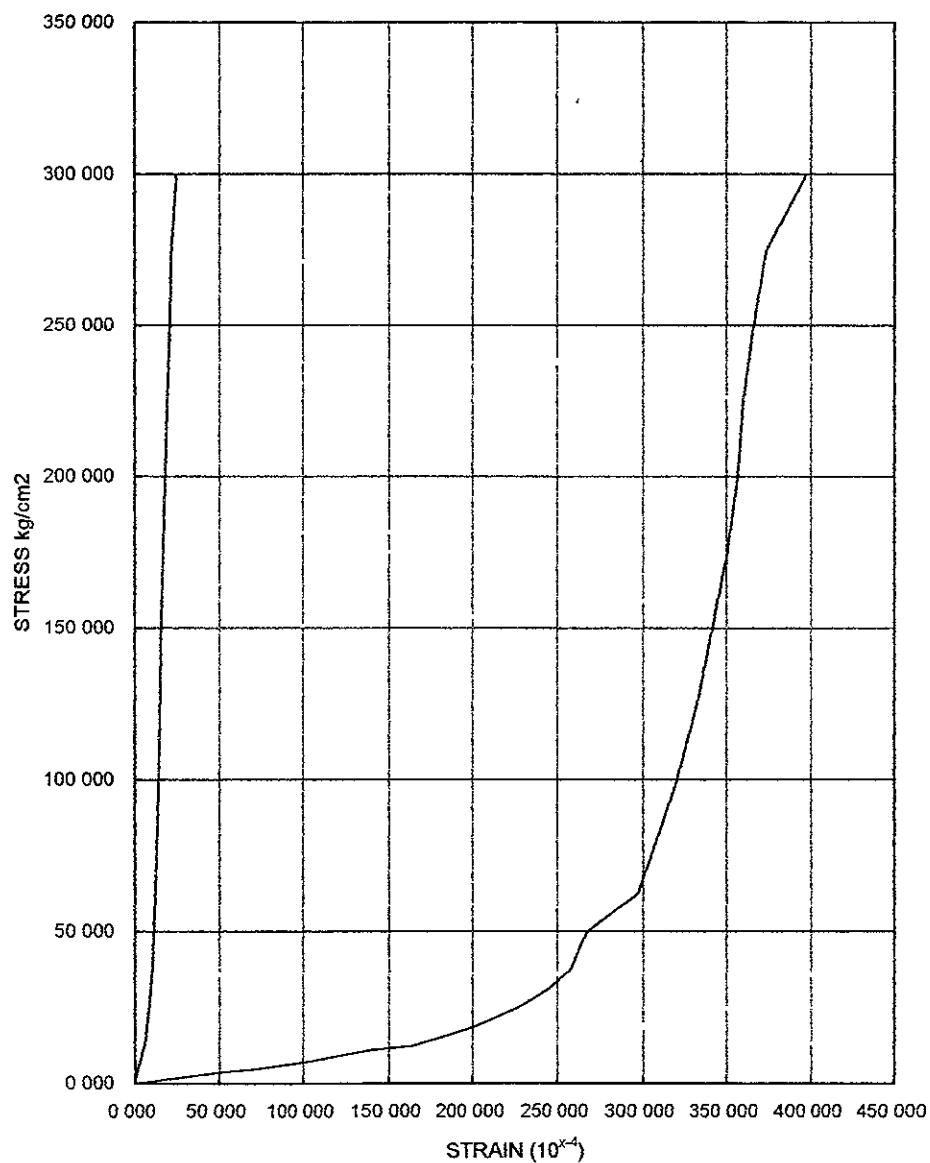
UNCONFINED COMPRESSION TEST

REQUEST BY	PT PURNAJASA BP, Cabang Denpasar	DRILL HOLE	DA - 10
PROJECT	TUKAD AYUNG DAM	DEPTH	17 15 - 17 25
LOCATION	BALI	TYPE OF ROCK	
DATE		TEST CONDITION	
SIZE OF SPECIMENT	HEIGHT 10 06 cm	DENSITY	
	DIAMETER 4 81 cm	VOLUME	
	AREA 18 171 cm ²	σ_n	
L/D CORRECTION	1 015304771	WEIGHT	

No	DIAL READING ($\times 10^{-3}$)mm						STRAIN ($\times 10^{-3}$)	
	LOAD (lb)	STRESS (kg/cm ²)	AXIAL		DIAMETRAL		AXIAL a	DIAMETRAL d1+ d2
			a	d	d 1	d 2		
1	0	0 000	0		0	0	0 000	0 000
2	50	1 248	84		1	0	16 700	0 208
3	100	2 496	170		2	1	33 797	0 624
4	150	3 744	234		2	2	46 521	0 832
5	200	4 993	363		4	4	72 167	1 663
6	300	7 489	525		8	7	104 374	3 119
7	450	11 233	705		12	11	140 159	4 782
8	500	12 481	822		15	12	163 419	5 613
9	750	18 722	1009		19	15	200 596	7 069
10	1000	24 963	1138		23	17	226 243	8 316
11	1250	31 203	1230		26	18	244 533	9 148
12	1500	37 444	1298		30	19	258 052	10 187
13	2000	49 926	1346		32	21	267 594	11 019
14	2500	62 407	1493		35	23	296 819	12 058
15	3000	74 888	1533		37	25	304 771	12 890
16	4000	99 851	1610		41	27	320 080	14 137
17	5000	124 814	1672		42	30	332 406	14 969
18	6000	149 777	1718		45	31	341 551	15 800
19	7000	174 739	1762		47	34	350 298	16 840
20	8000	199 702	1793		51	36	356 461	18 087
21	9000	224 665	1808		56	38	359 443	19 543
22	10000	249 628	1838		60	41	365 408	20 998
23	11000	274 591	1876		62	44	372 962	22 037
24	12000	299 553	1995		67	54	396 620	25 156

REMARK SAMPLE FAILURE AT c 299 553 kg/cm²

UNCONFINED GRAPH
DA - 10 (17.15 - 17.25 M)



B8 Ground Water Level

**GROUND WATER LEVEL (GWL) MEASUREMENT AND RECORDING
ON NEW AND EXISTING BOREHOLES
(AYUNG DAM SITE)**

SHEET : 1 OF 3

DATE	WEATHER	EXISTING BOREHOLES					NEW BOREHOLES					REMARKS
		DA-1	DA-2	DA-3	DA-4	DA-5	DA-6	DA-7	DA-8	DA-9	DA-10	
DECEMBER 2006												
1		-	-	-	-	-						CLEAR (CR)
2		-	-	-	-	-						CLOUD (CD)
3		-	-	-	-	-						RAIN (RN)
5		-	-	-	-	-						
6		-	-	-	-	-						
7		-	-	-	-	-						
8		-	-	-	-	-						
9		-	-	-	-	-						
10		-	-	-	-	-						
11		-	-	-	-	-						
12	CR	35,50	-	-	-	37,20						
13	CR	35,50	-	-	-	37,20						
14	CR	35,55	-	-	-	37,20						
15	CR	35,55	-	-	-	37,20						
16	CR	35,55	-	-	-	37,25			66,50	-	-	
17	RN	35,55	-	-	-	37,25			66,50	-	-	
18	RN	35,60	-	-	-	37,30			66,50	-	-	
19	RN	35,60	-	24,85	55,50	37,30			66,50	-	-	
20	RN	35,60	-	24,65	55,50	37,35			-	-	-	
21	RN	35,60	-	24,80	55,50	37,35			-	-	-	
22	RN	35,60	-	24,65	55,50	37,35			-	-	-	
23	RN	35,60	-	24,60	55,50	37,35			-	-	-	
24	RN	35,60	-	24,60	55,50	37,35			-	-	-	
25	RN	35,65	-	-	-	37,35			-	-	-	
26	RN	35,65	-	24,65	55,50	37,40			-	-	-	
27	RN	35,65	-	24,65	55,50	37,40			-	-	-	
28	CR	35,60	-	24,80	55,50	37,35	45,00	-	-	-	-	
29	RN	35,60	-	24,65	55,50	37,35	44,00	-	-	-	-	
30	CR	35,60	-	24,80	55,50	37,35	45,00	-	-	-	-	
31	CR	35,60	-	24,80	55,50	37,35	46,00	-	-	-	-	
JANUARY 2006												
1	RN	35,65	-	-	-	37,39	46,00	-	-	-	-	
2	RN	35,70	-	24,80	55,50	37,40	46,00	-	-	-	-	CLEAR (CR)
3	RN	35,70	-	24,80	55,50	37,40	46,00	-	-	-	-	CLOUD (CD)
4	CR	35,60	-	-	-	37,35	46,00	-	-	-	-	RAIN (RN)
5	CR	35,60	-	-	-	37,35	46,00	-	-	-	-	
6	CD	35,60	-	-	-	37,35	46,00	-	-	-	-	
7	CD	35,60	-	-	-	37,35	46,00	-	-	-	-	
8	CD	35,60	-	-	-	37,35	46,00	-	-	-	-	
9	CD	35,60	-	-	-	37,35	46,00	-	-	-	-	
10	RN	35,60	-	-	-	37,35	46,00	-	-	-	-	
11	CR	35,60	-	-	-	37,35	46,00	-	-	-	-	
12	CR	35,60	-	-	-	37,35	46,00	+0,50	-	-	-	
13	RN	35,60	-	-	-	37,35	46,00	+0,50	-	-	-	
14	RN	35,60	-	-	-	37,35	46,00	+4,00	-	-	-	

DATE	WEATHER	EXISTING BOREHOLES				
		DA-1	DA-2	DA-3	DA-4	DA-5
15	RN	35,60	-	-	-	37,35
16	RN	35,60	-	24,60	55,50	37,35
17	RN	35,60	-	-	-	37,35
18	RN	35,65	-	-	-	37,40
19	RN	35,65	-	-	-	37,40
20	RN	35,65	-	-	-	37,40
21	CR	35,60	-	-	-	37,35
22	CR	35,60	-	24,65	55,50	37,35
23	CR	35,60	-	-	-	37,35
24	CR	35,60	-	-	-	37,35
25	CR	35,60	-	-	-	37,35
26	RN	35,60	-	24,65	55,50	37,35
27	RN	35,60	-	-	-	37,35
28	RN	35,60	-	-	-	37,35
29	RN	35,60	-	-	-	37,35
30	RN	35,60	-	-	-	37,35
31	RN	35,62	-	24,60	55,50	37,35

NEW BOREHOLES					REMARKS
DA-6	DA-7	DA-8	DA-9	DA-10	
46,00	+4,00	-	-	-	CLEAR (CR)
46,00	+4,00	-	-	19,50	CLOUD (CD)
46,00	+4,00	-	-	20,00	RAIN (RN)
46,00	+4,00	-	-	22,00	
46,00	+4,00	-	-	-	
46,00	+4,00	-	-	-	
46,00	+4,00	-	-	-	
46,00	+4,00	-	-	23,50	
47,00	+4,00	-	-	-	
47,00	+4,00	-	-	22,95	
47,00	+4,00	-	-	23,50	
47,00	+4,00	-	-	23,65	
47,10	+4,00	-	-	-	
47,10	+4,00	-	-	-	
47,10	+4,00	-	-	-	
47,10	+4,00	-	-	22,90	
47,10	+4,00	-	-	22,90	

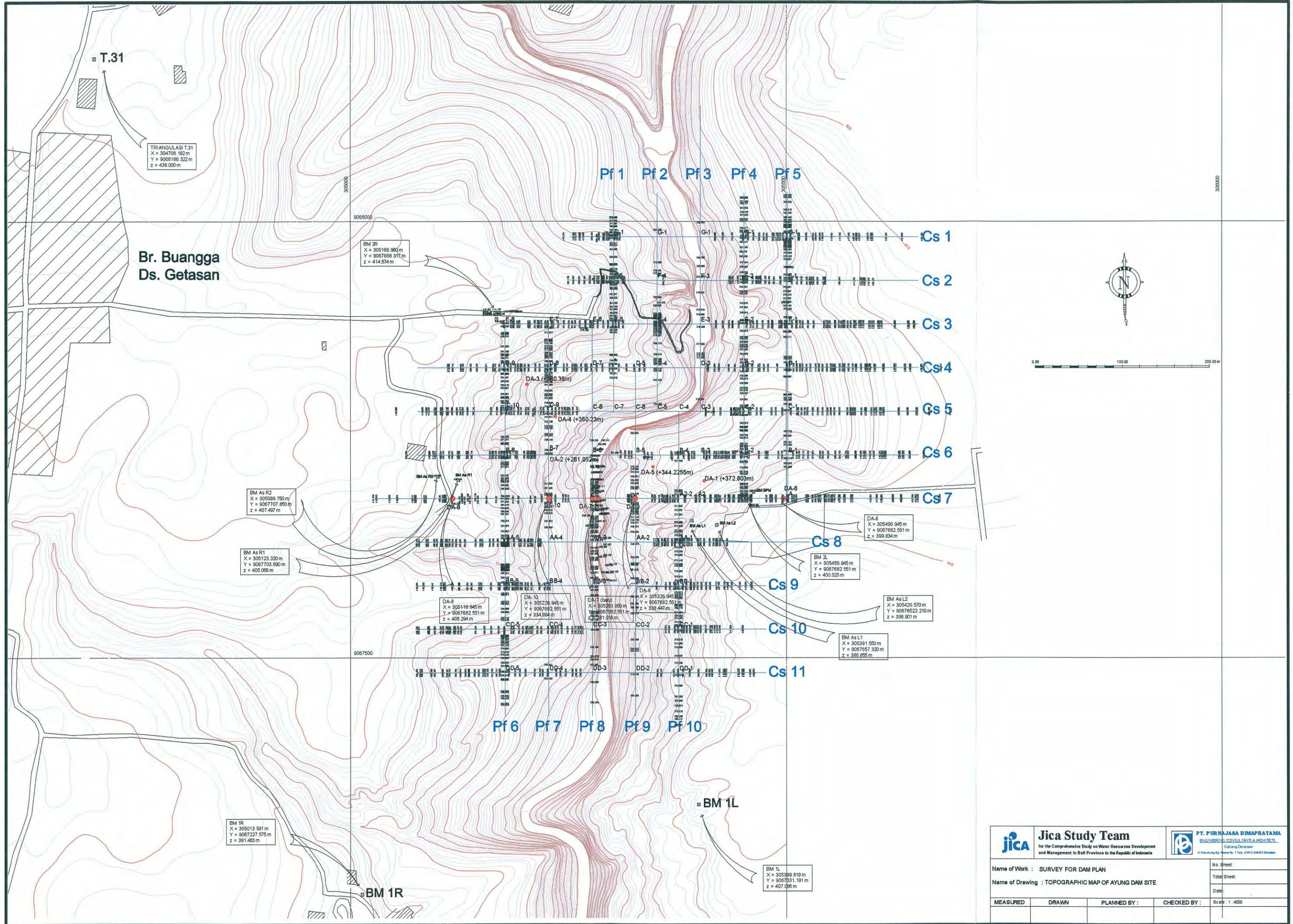
FEBRUARY 2006

1	RN	35,60	-	-	-	37,35
2	RN	35,60	-	24,65	55,50	37,35
3	CR	35,60	-	-	-	37,35
4	CR	35,50	-	-	-	37,20
5	CD	35,50	-	-	-	37,20
6	CD	35,50	-	-	-	37,20
7	RN	35,50	-	-	-	37,25
8	RN	35,50	-	-	-	37,25
9	RN	35,50	-	-	-	37,20
10	RN	35,50	-	-	-	37,20
11	RN	35,50	-	55,50	24,80	37,20
12	RN	35,50	-	-	-	37,20
13	RN	35,50	-	55,50	24,80	37,20
14			-	-	-	-
15	CL	43,00	-	-	-	37,00
16	CL	43,00	-	-	-	36,55
17	CL	43,00	-	55,50	24,80	36,60
18	RN	42,70	-	-	-	36,50
19	RN	42,70	-	-	-	36,50
20	RN	42,70	-	-	-	36,50
21	RN	42,70	-	-	-	36,00
22	RN	42,50	-	-	-	35,70
23	RN	42,50	-	55,50	24,65	35,00
24	RN	42,35	-	-	-	34,30
25	RN	42,00	-	55,50	24,60	34,00
26	RN	41,00	-	-	-	33,50
27	RN	40,85	-	-	-	33,40
28	RN	40,85	-	-	-	33,35
29	RN	40,85	-	-	-	-

47,10	+4,00	-	-	22,50	
47,10	+4,00	-	-	22,50	CLEAR (CR)
47,10	+4,00	-	-	-	CLOUD (CD)
47,50	+4,00	-	-	-	RAIN (RN)
47,50	+4,00	-	-	-	
47,55	+4,00	-	-	-	
47,55	+4,00	-	-	-	
47,55	+4,00	-	-	-	
47,50	+4,00	66,80	-	22,90	
47,50	+4,00	67,00	-	22,90	
47,50	+4,00	67,00	-	-	
47,50	+4,00	-	-	-	
47,50	+4,00	67,00	-	23,00	
-	+4,70	-	-	-	
46,00	+4,70	-	-	-	+ ARTESIS
45,20	+4,70	-	-	-	
45,20	+4,70	67,00	-	23,40	
45,20	+4,70	-	25,00	-	
45,20	+4,70	-	25,25	-	
45,20	+4,70	-	25,25	-	
45,00	+4,70	-	25,30	-	
44,50	+4,70	-	26,50	-	
44,00	+4,70	66,90	27,00	22,90	
44,00	+4,70	-	27,80	-	
44,80	+4,70	66,90	30,00	22,85	
44,00	+4,70	-	32,00	-	
44,00	+4,70	-	32,70	-	
43,50	+4,70	-	33,00	-	
-	-	-	-	-	

DATE	WEATHER	EXISTING BOREHOLES					NEW BOREHOLES					REMARKS
		DA-1	DA-2	DA-3	DA-4	DA-5	DA-6	DA-7	DA-8	DA-9	DA-10	
MART 2006												
1		-	-	-	-	-	-	-	-	-	-	
2		-	-	-	-	-	-	-	-	-	-	
3		-	-	-	-	-	-	-	-	-	-	
4		-	-	-	-	-	-	-	-	-	-	
5		-	-	-	-	-	-	-	-	-	-	
6	RN	35,00	-	25,40	55,70	33,35	43,50	+4,7	66,70	33,10	24,50	+ ARTESIS
7	RN	35,30	-	-	-	33,30	43,50	+4,7	-	33,10	-	
8		-	-	-	-	-	-	-	-	-	-	
9		-	-	-	-	-	-	-	-	-	-	
10		-	-	-	-	-	-	-	-	-	-	

B9 Topographic Survey



Jica Study Team for the Comprehensive Study on Water Resources Development and Management in Bali Province in the Republic of Indonesia		PT. PURNAJASA DIMAPRATAMA ENGINEERING CONSULTANTS & ARCHITECTS Gedung Depdik Jl. Kawangkoja, No. 11, Yogyakarta 55081 Indonesia		
Name of Work : SURVEY FOR DAM PLAN Name of Drawing : TOPOGRAPHIC MAP OF AYUNG DAM SITE		No. Sheet: Total Sheet: Date:		
MEASURED	DRAWN	PLANNED BY :	CHECKED BY :	Scale : 1 : 4000

